

ZJ150 (12.5 Ton)

Air on Evaporator Coil		Temperature of Air on Condenser Coil																			
CFM	WB (°F)	Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)						Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)									
				Return Dry Bulb (°F)								Return Dry Bulb (°F)									
				90	85	80	75	70	65			90	85	80	75	70	65				
		75°F										85°F									
3125	77	191.5	9.8	80.3	66.9	53.5	-	-	-	184.5	10.7	76.0	62.6	49.3	-	-	-				
	72	178.7	9.5	103.3	89.9	76.4	63.0	-	-	171.3	10.5	99.0	85.7	72.3	59.0	-	-				
	67	165.9	9.2	126.3	112.8	99.4	86.0	72.6	-	158.1	10.2	122.1	108.8	95.4	82.1	68.7	-				
	62	149.9	9.1	149.9	139.5	122.9	109.5	96.1	82.7	143.1	10.1	143.1	135.8	117.5	104.2	90.8	77.5				
3750	77	201.3	9.8	89.4	74.2	58.9	-	-	-	193.5	10.7	85.1	69.8	54.5	-	-	-				
	72	187.9	9.5	114.7	99.5	84.2	69.0	-	-	179.6	10.5	110.6	95.3	80.0	64.6	-	-				
	67	174.5	9.3	140.0	124.8	109.5	94.3	79.1	-	165.8	10.3	136.1	120.8	105.5	90.1	74.8	-				
	62	157.6	9.1	157.6	150.7	135.4	120.2	105.0	89.7	150.1	10.1	150.1	145.2	129.9	114.6	99.3	83.9				
	57	152.3	9.1	152.3	152.3	140.7	125.5	110.2	95.0	145.8	10.1	145.8	145.8	134.0	118.7	103.3	88.0				
4375	77	211.1	9.8	98.5	81.5	64.4	-	-	-	202.4	10.8	94.2	76.9	59.6	-	-	-				
	72	197.0	9.6	126.2	109.1	92.0	75.0	-	-	187.9	10.6	122.1	104.9	87.6	70.3	-	-				
	67	183.0	9.3	153.8	136.7	119.7	102.6	85.5	-	173.5	10.3	150.1	132.8	115.5	98.2	80.9	-				
	62	165.3	9.1	165.3	161.8	148.0	130.9	113.8	96.8	157.0	10.1	157.0	154.6	142.3	125.0	107.7	90.4				
	57	159.7	9.1	159.7	159.7	153.7	136.6	119.6	102.5	152.6	10.2	152.6	152.6	146.7	129.4	112.2	94.9				
5000	77	221.0	9.9	107.6	88.8	69.9	-	-	-	211.4	10.9	103.3	84.1	64.8	-	-	-				
	72	206.2	9.6	137.6	118.7	99.8	80.9	-	-	196.3	10.6	133.7	114.4	95.2	75.9	-	-				
	67	191.5	9.3	167.5	148.7	129.8	110.9	92.0	-	181.2	10.4	164.1	144.8	125.5	106.3	87.0	-				
	62	173.0	9.1	173.0	173.0	160.5	141.6	122.7	103.8	164.0	10.2	164.0	164.0	154.6	135.4	116.1	96.9				
	57	167.2	9.1	167.2	167.2	166.7	147.8	129.0	110.1	159.3	10.2	159.3	159.3	159.5	140.2	121.0	101.7				
5625	72	215.4	9.6	150.0	129.1	108.3	87.5	-	-	204.6	10.7	146.0	124.7	103.5	82.2	-	-				
	67	200.0	9.3	185.5	161.6	140.8	119.9	99.1	-	188.8	10.4	179.0	157.7	136.5	115.2	93.9	-				
	62	180.7	9.2	180.7	180.7	174.4	153.6	132.8	111.9	170.9	10.2	170.9	170.9	166.3	145.0	123.7	102.4				
	57	174.6	9.1	174.6	174.6	174.4	153.5	132.7	111.9	166.1	10.3	166.1	166.1	166.2	144.9	123.6	102.3				
6250	72	224.6	9.6	162.3	139.5	116.7	94.0	-	-	212.9	10.7	158.4	135.1	111.7	88.4	-	-				
	67	208.5	9.3	203.5	174.5	151.8	129.0	106.2	-	196.5	10.5	194.0	170.7	147.4	124.1	100.8	-				
	62	188.4	9.2	188.4	188.4	188.4	165.6	142.8	120.0	177.9	10.3	177.9	177.9	177.9	154.6	131.3	108.0				
	57	182.0	9.2	182.0	182.0	182.0	159.2	136.5	113.7	172.8	10.3	172.8	172.8	172.8	149.5	126.2	102.9				
		95°F										105°F									
3125	77	177.5	11.6	71.6	58.3	45.1	-	-	-	168.0	12.8	67.5	55.1	42.0	-	-	-				
	72	163.9	11.4	94.8	81.5	68.2	55.0	-	-	154.2	12.7	90.8	77.7	64.5	51.4	-	-				
	67	150.3	11.2	118.0	104.7	91.4	78.1	64.9	-	140.3	12.6	114.2	100.2	87.1	73.9	60.8	-				
	62	136.4	11.0	136.4	132.1	112.1	98.9	85.6	72.3	128.6	12.4	128.6	126.4	106.8	93.6	80.5	67.3				
3750	77	185.6	11.7	80.8	65.4	50.0	-	-	-	175.2	12.9	77.1	61.9	46.7	-	-	-				
	72	171.4	11.5	106.5	91.1	75.7	60.3	-	-	160.8	12.8	102.2	86.9	71.7	56.5	-	-				
	67	157.2	11.3	132.2	116.8	101.4	86.0	70.6	-	146.4	12.7	127.2	112.0	96.8	81.6	66.4	-				
	62	142.6	11.1	142.6	139.7	124.3	109.0	93.6	78.2	134.1	12.5	134.1	132.7	118.7	103.5	88.2	73.0				
	57	139.4	11.1	139.4	139.4	127.2	111.8	96.5	81.1	131.5	12.5	131.5	131.5	118.9	103.7	88.5	73.3				
4375	77	193.7	11.8	89.9	72.4	54.9	-	-	-	182.4	13.0	86.7	68.6	51.3	-	-	-				
	72	178.9	11.6	118.1	100.6	83.1	65.6	-	-	167.4	12.9	113.5	96.2	78.9	61.6	-	-				
	67	164.0	11.4	146.4	128.8	111.3	93.8	76.3	-	152.4	12.8	140.3	123.8	106.5	89.2	71.9	-				
	62	148.8	11.2	148.8	147.4	136.6	119.1	101.5	84.0	139.6	12.6	139.6	138.9	130.6	113.3	96.0	78.7				
	57	145.4	11.2	145.4	145.4	139.7	122.2	104.7	87.2	136.9	12.6	136.9	136.9	130.9	113.6	96.3	79.0				
5000	77	201.8	11.9	99.1	79.4	59.8	-	-	-	189.6	13.1	96.3	75.4	56.0	-	-	-				
	72	186.3	11.7	129.8	110.2	90.5	70.9	-	-	174.0	13.0	124.8	105.5	86.1	66.8	-	-				
	67	170.8	11.5	160.6	140.9	121.3	101.7	82.0	-	158.5	12.9	153.3	135.6	116.2	96.9	77.5	-				
	62	155.0	11.3	155.0	155.0	148.8	129.2	109.5	89.9	145.1	12.7	145.1	145.1	142.5	123.2	103.8	84.5				
	57	151.5	11.3	151.5	151.5	152.2	132.6	113.0	93.4	142.3	12.7	142.3	142.3	142.8	123.4	104.1	84.7				
5625	72	193.8	11.8	142.1	120.4	98.6	76.9	-	-	180.7	13.1	136.9	115.4	94.0	72.5	-	-				
	67	177.7	11.6	172.5	153.9	132.1	110.4	88.7	-	164.5	13.0	161.9	148.3	126.8	105.3	83.9	-				
	62	161.2	11.3	161.2	161.2	158.1	136.4	114.6	92.9	150.7	12.8	150.7	150.7	149.3	127.9	106.4	84.9				
	57	157.6	11.4	157.6	157.6	157.9	136.2	114.5	92.7	147.8	12.8	147.8	147.8	148.0	126.5	105.0	83.6				
6250	72	201.2	11.9	154.4	130.6	106.7	82.9	-	-	187.3	13.2	149.0	125.4	101.8	78.2	-	-				
	67	184.5	11.7	184.5	166.8	143.0	119.2	95.3	-	170.5	13.1	170.5	161.0	137.4	113.8	90.2	-				
	62	167.4	11.4	167.4	167.4	167.4	143.6	119.7	95.9	156.2	12.9	156.2	156.2	156.2	132.6	109.0	85.4				
	57	163.6	11.5	163.6	163.6	163.6	139.8	116.0	92.1	153.2	12.9	153.2	153.2	153.2	129.6	106.0	82.4				

ZJ150 (12.5 Ton) (Continued)

Air on Evaporator Coil		Temperature of Air on Condenser Coil																	
CFM	WB (°F)	Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)						Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)							
				Return Dry Bulb (°F)								Return Dry Bulb (°F)							
				90	85	80	75	70	65			90	85	80	75	70	65		
		115°F									125°F								
3125	77	158.4	14.0	63.3	51.9	38.9	-	-	-	148.8	15.3	56.6	48.7	35.8	-	-	-		
	72	144.4	14.0	86.9	73.8	60.8	47.8	-	-	134.6	15.3	82.9	70.0	57.1	44.2	-	-		
	67	130.4	14.0	110.4	95.8	82.7	69.7	56.7	-	120.4	15.4	106.6	91.3	78.4	65.5	52.6	-		
	62	120.7	13.8	120.7	120.7	101.4	88.4	75.3	62.3	112.9	15.2	112.9	112.9	96.0	83.1	70.2	57.3		
3750	77	164.8	14.1	73.4	58.4	43.3	-	-	-	154.3	15.4	69.8	54.9	40.0	-	-	-		
	72	150.2	14.1	97.9	82.8	67.8	52.7	-	-	139.6	15.4	93.6	78.7	63.8	48.9	-	-		
	67	135.6	14.1	122.3	107.3	92.2	77.2	62.1	-	124.8	15.5	117.4	102.5	87.6	72.7	57.9	-		
	62	125.6	13.9	125.6	125.6	113.0	98.0	82.9	67.9	117.1	15.3	117.1	117.1	107.3	92.5	77.6	62.7		
	57	123.7	13.9	123.7	123.7	110.6	95.6	80.5	65.5	115.8	15.3	115.8	115.8	102.3	87.4	72.5	57.7		
4375	77	171.1	14.2	83.5	64.8	47.8	-	-	-	159.8	15.5	82.9	61.1	44.2	-	-	-		
	72	156.0	14.2	108.8	91.8	74.7	57.7	-	-	144.5	15.5	104.2	87.4	70.5	53.7	-	-		
	67	140.8	14.2	134.2	118.7	101.7	84.6	67.6	-	129.2	15.6	128.1	113.7	96.9	80.0	63.2	-		
	62	130.4	14.0	130.4	130.4	124.6	107.6	90.5	73.4	121.2	15.4	121.2	121.2	118.6	101.8	85.0	68.1		
	57	128.4	14.0	128.4	128.4	122.0	104.9	87.9	70.8	119.9	15.5	119.9	119.9	113.1	96.3	79.4	62.6		
5000	77	177.5	14.4	93.6	71.3	52.2	-	-	-	165.3	15.6	96.0	67.2	48.5	-	-	-		
	72	161.8	14.3	119.8	100.8	81.7	62.6	-	-	149.5	15.7	114.8	96.1	77.3	58.5	-	-		
	67	146.1	14.3	146.1	130.2	111.2	92.1	73.0	-	133.7	15.7	133.7	124.9	106.1	87.3	68.5	-		
	62	135.3	14.1	135.3	135.3	136.2	117.2	98.1	79.0	125.4	15.5	125.4	125.4	125.4	111.1	92.4	73.6		
	57	133.2	14.1	133.2	133.2	133.3	114.3	95.2	76.1	124.1	15.6	124.1	124.1	123.9	105.1	86.3	67.5		
5625	72	167.6	14.4	131.7	110.5	89.3	68.1	-	-	154.5	15.8	126.5	105.6	84.6	63.6	-	-		
	67	151.3	14.4	151.3	142.7	121.5	100.3	79.0	-	138.1	15.8	138.1	137.1	116.1	95.2	74.2	-		
	62	140.1	14.2	140.1	140.1	140.6	119.4	98.1	76.9	129.6	15.6	129.6	129.6	129.6	110.9	89.9	68.9		
	57	138.0	14.2	138.0	138.0	138.0	116.8	95.6	74.4	128.2	15.7	128.2	128.2	128.1	107.1	86.1	65.2		
6250	72	173.4	14.5	143.6	120.2	96.9	73.5	-	-	159.4	15.9	138.2	115.1	91.9	68.8	-	-		
	67	156.5	14.5	156.5	155.2	131.8	108.4	85.0	-	142.5	15.9	142.5	142.5	126.2	103.0	79.9	-		
	62	145.0	14.3	145.0	145.0	145.0	121.6	98.2	74.8	133.7	15.7	133.7	133.7	133.7	110.6	87.4	64.3		
	57	142.7	14.3	142.7	142.7	142.7	119.4	96.0	72.6	132.3	15.8	132.3	132.3	132.3	109.1	86.0	62.8		

1. These capacities are gross ratings. For net capacity, deduct air blower motor, MBh = 3.415 x kW. Refer to the appropriate Blower Performance Table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

ZR037-150 Cooling and Reheat Capacities

ZR037 (3.0 Ton) Cooling

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)						Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)					
				Return Dry Bulb (°F)								Return Dry Bulb (°F)					
				90	85	80	75	70	65			90	85	80	75	70	65
		75°F								85°F							
750	77	48.2	0.2	20.1	16.2	13.0	-	-	-	43.5	1.6	17.0	13.9	10.7	-	-	-
	72	43.9	0.8	24.6	21.3	18.1	14.9	-	-	39.8	1.8	22.2	19.1	16.0	12.8	-	-
	67	39.6	1.3	29.0	26.5	23.3	20.1	16.8	-	36.0	2.0	27.5	24.3	21.2	18.1	14.9	-
	62	35.5	1.1	35.5	32.6	28.4	25.1	21.9	18.7	31.4	1.9	31.4	29.6	24.7	21.6	18.4	15.3
900	77	50.4	0.5	22.1	18.2	14.3	-	-	-	45.5	1.7	19.7	15.9	12.1	-	-	-
	72	45.9	1.1	27.8	23.9	20.0	16.1	-	-	41.6	1.9	25.6	21.8	18.0	14.2	-	-
	67	41.4	1.6	33.4	29.5	25.6	21.7	17.8	-	37.6	2.1	31.5	27.7	23.9	20.1	16.3	-
	62	37.1	1.4	37.1	35.2	31.3	27.4	23.5	19.6	32.8	2.0	32.8	31.6	27.8	24.0	20.2	16.4
	57	33.3	1.3	33.3	33.4	30.5	26.6	22.7	18.8	29.7	1.9	29.7	29.7	26.4	22.6	18.8	15.0
1050	77	52.7	0.8	24.1	20.3	15.7	-	-	-	47.4	1.8	22.3	17.9	13.4	-	-	-
	72	47.9	1.3	31.0	26.4	21.8	17.2	-	-	43.3	2.0	28.9	24.4	20.0	15.5	-	-
	67	43.2	1.9	37.8	32.5	27.9	23.4	18.8	-	39.2	2.1	35.4	31.0	26.5	22.1	17.6	-
	62	38.7	1.7	38.7	37.8	34.2	29.6	25.0	20.5	34.2	2.1	34.2	33.6	30.9	26.4	21.9	17.5
	57	34.7	1.6	34.7	34.8	33.3	28.8	24.2	19.6	31.0	1.9	31.0	31.0	29.3	24.9	20.4	15.9
1200	77	54.9	1.0	26.1	22.3	17.0	-	-	-	49.4	1.9	25.0	19.9	14.8	-	-	-
	72	50.0	1.6	34.2	28.9	23.6	18.4	-	-	45.1	2.1	32.2	27.1	22.0	16.8	-	-
	67	45.1	2.2	42.2	35.5	30.3	25.0	19.8	-	40.9	2.2	39.4	34.3	29.2	24.0	18.9	-
	62	40.4	2.0	40.4	40.4	37.1	31.8	26.6	21.3	35.6	2.2	35.6	35.6	34.0	28.8	23.7	18.6
	57	36.2	1.8	36.2	36.2	36.2	30.9	25.7	20.4	32.3	2.0	32.3	32.3	32.3	27.1	22.0	16.9
1350	72	50.0	1.4	36.8	31.0	25.2	19.5	-	-	45.0	2.0	34.6	28.9	23.2	17.5	-	-
	67	45.0	2.0	43.6	38.2	32.3	26.6	20.8	-	40.8	2.1	40.1	36.5	30.8	25.1	19.4	-
	62	40.4	1.8	40.4	40.4	38.7	33.0	27.2	21.5	35.5	2.1	35.5	35.5	34.7	29.0	23.3	17.6
	57	36.2	1.6	36.2	36.2	36.2	30.4	24.7	18.9	32.2	1.9	32.2	32.2	32.2	26.5	20.8	15.1
1500	72	49.9	1.2	39.3	33.1	26.8	20.6	-	-	45.0	1.9	36.9	30.6	24.4	18.1	-	-
	67	45.0	1.8	45.0	40.9	34.4	28.2	21.9	-	40.7	2.1	40.7	38.6	32.4	26.1	19.9	-
	62	40.3	1.6	40.3	40.3	40.3	34.1	27.8	21.6	35.5	2.0	35.5	35.5	35.5	29.2	23.0	16.7
	57	36.2	1.5	36.2	36.2	36.2	29.9	23.7	17.4	32.1	1.9	32.1	32.1	32.1	25.9	19.6	13.4
		95°F								105°F							
750	77	38.8	3.1	13.9	11.6	8.5	-	-	-	36.4	2.7	12.7	11.2	8.3	-	-	-
	72	35.6	2.8	19.9	16.9	13.8	10.8	-	-	32.8	2.7	19.0	16.1	13.1	10.2	-	-
	67	32.5	2.6	25.9	22.2	19.1	16.1	13.0	-	29.2	2.6	25.3	20.9	17.9	15.0	12.1	-
	62	27.3	2.7	27.3	26.6	21.0	18.0	14.9	11.9	25.0	2.6	25.0	24.7	19.5	16.5	13.6	10.7
900	77	40.5	3.0	17.2	13.5	9.8	-	-	-	37.5	2.7	16.5	13.0	9.4	-	-	-
	72	37.2	2.7	23.4	19.7	16.0	12.3	-	-	33.8	2.7	22.0	18.4	14.9	11.3	-	-
	67	33.9	2.5	29.5	25.8	22.1	18.4	14.7	-	30.1	2.6	27.5	23.9	20.3	16.8	13.2	-
	62	28.5	2.7	28.5	28.0	24.3	20.6	16.9	13.2	25.8	2.6	25.8	25.5	22.1	18.5	14.9	11.4
	57	26.2	2.4	26.2	26.0	22.3	18.6	14.9	11.2	24.9	2.4	24.9	24.9	21.4	17.8	14.2	10.6
1050	77	42.2	2.8	20.6	15.5	11.2	-	-	-	38.6	2.7	20.4	14.7	10.5	-	-	-
	72	38.7	2.6	26.8	22.5	18.1	13.8	-	-	34.8	2.7	25.0	20.8	16.6	12.4	-	-
	67	35.3	2.4	33.1	29.4	25.1	20.7	16.4	-	31.0	2.6	29.7	26.9	22.7	18.5	14.3	-
	62	29.7	2.6	29.7	29.4	27.6	23.2	18.9	14.5	26.5	2.6	26.5	26.4	24.7	20.5	16.3	12.1
	57	27.2	2.3	27.2	27.2	25.3	21.0	16.6	12.3	25.6	2.5	25.6	25.6	23.9	19.6	15.4	11.2
1200	77	43.9	2.7	23.9	17.5	12.5	-	-	-	39.7	2.7	24.2	16.4	11.6	-	-	-
	72	40.3	2.5	30.3	25.3	20.3	15.3	-	-	35.8	2.7	28.0	23.2	18.4	13.5	-	-
	67	36.7	2.3	36.7	33.1	28.1	23.1	18.1	-	31.9	2.6	31.9	30.0	25.1	20.3	15.4	-
	62	30.8	2.5	30.8	30.8	30.8	25.8	20.8	15.8	27.3	2.6	27.3	27.3	27.3	22.5	17.6	12.8
	57	28.3	2.2	28.3	28.3	28.3	23.3	18.3	13.3	26.4	2.5	26.4	26.4	26.4	21.5	16.7	11.8
1350	72	40.1	2.5	32.4	26.7	21.1	15.5	-	-	35.8	2.6	30.4	24.9	19.5	14.0	-	-
	67	36.5	2.3	36.5	34.7	29.2	23.6	17.9	-	31.9	2.6	31.9	30.9	26.7	21.2	15.7	-
	62	30.7	2.5	30.7	30.7	30.7	25.1	19.5	13.8	27.3	2.5	27.3	27.3	27.3	21.9	16.4	10.9
	57	28.2	2.2	28.2	28.2	28.2	22.6	17.0	11.3	26.4	2.4	26.4	26.4	26.4	20.9	15.5	10.0
1500	72	40.0	2.5	34.4	28.2	21.9	15.6	-	-	35.8	2.6	32.7	26.7	20.6	14.5	-	-
	67	36.4	2.3	36.4	36.4	30.3	24.1	17.8	-	31.9	2.5	31.9	31.9	28.2	22.1	16.0	-
	62	30.6	2.5	30.6	30.6	30.6	24.3	18.1	11.8	27.3	2.5	27.3	27.3	27.3	21.2	15.2	9.1
	57	28.1	2.2	28.1	28.1	28.1	21.8	15.6	9.3	26.4	2.4	26.4	26.4	26.4	20.3	14.2	8.2

ZR037 (3.0 Ton) Cooling (Continued)

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)						Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)					
				Return Dry Bulb (°F)								Return Dry Bulb (°F)					
				90	85	80	75	70	65			90	85	80	75	70	65
		115°F								125°F							
750	77	34.0	2.4	11.6	10.9	8.1	-	-	-	31.5	2.1	11.5	9.9	7.9	-	-	-
	72	30.0	2.5	18.1	15.3	12.4	9.6	-	-	27.2	2.3	17.2	14.5	11.7	9.0	-	-
	67	26.0	2.6	24.6	19.6	16.8	13.9	11.1	-	22.8	2.6	22.8	18.3	15.6	12.9	10.1	-
	62	22.8	2.4	22.8	22.8	18.0	15.1	12.3	9.5	20.5	2.2	20.5	20.5	16.5	13.7	11.0	8.3
900	77	34.5	2.5	15.9	12.4	9.0	-	-	-	31.4	2.3	15.9	11.8	8.5	-	-	-
	72	30.4	2.6	20.7	17.2	13.8	10.3	-	-	27.1	2.5	19.3	16.0	12.7	9.3	-	-
	67	26.4	2.7	25.5	22.0	18.6	15.1	11.7	-	22.7	2.8	22.7	20.1	16.8	13.5	10.2	-
	62	23.1	2.5	23.1	23.1	19.9	16.5	13.0	9.6	20.4	2.4	20.4	20.4	17.7	14.4	11.1	7.7
	57	23.7	2.5	23.7	23.7	20.4	17.0	13.5	10.1	22.5	2.5	22.5	22.5	19.5	16.2	12.8	9.5
1050	77	35.0	2.6	20.1	13.9	9.8	-	-	-	31.3	2.5	20.3	13.7	9.2	-	-	-
	72	30.9	2.7	23.2	19.2	15.1	11.0	-	-	26.9	2.8	21.4	17.5	13.6	9.7	-	-
	67	26.8	2.8	26.3	24.4	20.4	16.3	12.2	-	22.6	3.0	22.6	21.9	18.0	14.1	10.2	-
	62	23.4	2.6	23.4	23.4	21.8	17.8	13.7	9.6	20.3	2.6	20.3	20.3	19.0	15.0	11.1	7.2
	57	24.0	2.6	24.0	24.0	22.4	18.3	14.3	10.2	22.5	2.7	22.5	22.5	21.0	17.0	13.1	9.2
1200	77	35.4	2.7	24.4	15.4	10.7	-	-	-	31.2	2.7	24.7	15.6	9.8	-	-	-
	72	31.3	2.8	25.8	21.1	16.4	11.8	-	-	26.8	3.0	23.6	19.0	14.5	10.0	-	-
	67	27.2	2.9	27.2	26.9	22.2	17.5	12.8	-	22.4	3.3	22.4	22.4	19.2	14.7	10.2	-
	62	23.8	2.7	23.8	23.8	23.8	19.1	14.4	9.7	20.2	2.8	20.2	20.2	20.2	15.7	11.2	6.7
	57	24.4	2.7	24.4	24.4	24.4	19.7	15.0	10.3	22.4	2.9	22.4	22.4	22.4	17.9	13.4	8.9
1350	72	31.5	2.7	28.4	23.1	17.9	12.6	-	-	27.1	2.9	26.5	21.4	16.3	11.2	-	-
	67	27.3	2.9	27.3	27.1	24.1	18.8	13.6	-	22.7	3.1	22.7	22.7	21.6	16.5	11.4	-
	62	23.9	2.6	23.9	23.9	23.9	18.6	13.3	8.1	20.5	2.7	20.5	20.5	20.5	15.4	10.3	5.2
	57	24.5	2.6	24.5	24.5	24.5	19.2	14.0	8.7	22.7	2.8	22.7	22.7	22.7	17.6	12.5	7.4
1500	72	31.6	2.7	31.1	25.2	19.3	13.4	-	-	27.4	2.7	27.4	23.7	18.0	12.3	-	-
	67	27.4	2.8	27.4	27.4	26.0	20.2	14.3	-	23.0	3.0	23.0	23.0	23.0	18.2	12.6	-
	62	24.0	2.5	24.0	24.0	24.0	18.1	12.3	6.4	20.7	2.6	20.7	20.7	20.7	15.0	9.3	3.7
	57	24.6	2.5	24.6	24.6	24.6	18.8	12.9	7.0	22.9	2.7	22.9	22.9	22.9	17.2	11.5	5.9

1. These capacities are gross ratings. For net capacity, deduct air blower motor, MBh = 3.415 x kW. Refer to the appropriate Blower Performance Table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

ZR037 (3.0 Ton) Reheat

Air on Evaporator Coil		Temperature of Air on Condenser Coil					
		Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh) (- indicates heating)	Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh) (- indicates heating)
CFM	WB (°F)			Return Dry Bulb (°F)			Return Dry Bulb (°F)
				75			75
40 °F				50 °F			
1050	62.5	14.1	1.3	8.9	19.7	2.0	8.9
	64	15.3	1.3	8.1	21.3	2.0	7.5
	65.3	17.0	1.4	7.1	22.5	2.0	6.2
1200	62.5	14.9	1.3	9.7	20.3	2.0	9.8
	64	15.6	1.3	8.7	21.2	2.0	8.3
	65.3	16.1	1.3	7.8	23.1	2.0	7.1
1350	62.5	21.7	1.9	11.1	21.6	2.0	10.9
	64	22.3	1.9	9.3	23.1	2.0	9.7
	65.3	22.5	1.8	8.0	24.7	2.0	8.2
60 °F				70 °F			
1050	62.5	18.5	2.0	8.1	17.0	2.1	6.8
	64	19.7	2.0	6.6	18.4	2.1	5.5
	65.3	20.9	2.0	5.4	19.6	2.1	4.4
1200	62.5	19.2	2.0	9.0	17.0	2.1	7.9
	64	20.3	2.0	7.6	18.5	2.1	6.6
	65.3	22.2	2.0	6.3	19.9	2.1	5.5
1350	62.5	19.8	2.0	9.8	16.1	2.1	8.4
	64	21.1	2.0	8.4	17.3	2.1	6.8
	62	22.3	2.0	7.2	18.8	2.1	5.7
75 °F				80 °F			
1050	62.5	16.3	2.1	7.2	15.0	2.1	5.9
	64	17.6	2.1	5.5	16.2	2.1	4.5
	65.3	18.8	2.1	4.0	16.6	2.1	3.6
1200	62.5	16.6	2.1	7.4	14.9	2.1	6.7
	64	18.0	2.1	6.1	16.1	2.1	5.5
	65.3	18.9	2.1	5.0	17.2	2.1	3.9
1350	62.5	15.8	2.1	7.8	14.4	2.1	7.1
	64	17.3	2.1	6.7	15.6	2.1	5.8
	65.3	18.5	2.1	5.2	16.7	2.1	4.4
85 °F				95 °F			
1050	62.5	12.0	2.2	4.5	7.5	2.3	1.7
	64	12.5	2.2	3.1	8.5	2.3	0.5
	65.3	13.4	2.2	1.9	9.3	2.4	-0.9
1200	62.5	11.8	2.2	5.0	8.8	2.3	-0.6
	64	12.9	2.2	3.7	8.0	2.3	0.6
	65.3	13.9	2.2	2.3	8.2	2.4	-0.9
1350	62.5	11.7	2.2	5.6	6.0	2.3	1.9
	64	12.6	2.2	4.0	6.7	2.3	0.6
	62	13.6	2.2	2.7	7.7	2.3	-0.7

1. These capacities are gross ratings. For net capacity, deduct air blower motor, MBh = 3.415 x kW. Refer to the appropriate Blower Performance Table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

ZR049 (4.0 Ton) Cooling

Air on Evaporator Coil		Temperature of Air on Condenser Coil																	
CFM	WB (°F)	Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)						Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)							
				Return Dry Bulb (°F)								Return Dry Bulb (°F)							
				90	85	80	75	70	65			90	85	80	75	70	65		
		75°F									85°F								
1000	77	70.8	1.6	27.3	22.8	18.2	-	-	-	61.5	3.0	26.1	21.6	17.2	-	-	-		
	72	62.1	2.0	34.1	29.5	24.9	20.3	-	-	55.0	3.0	32.3	27.8	23.4	18.9	-	-		
	67	53.5	2.4	40.8	36.2	31.6	27.0	22.4	-	48.5	2.9	38.5	34.1	29.6	25.2	20.7	-		
	62	48.3	2.0	48.3	46.8	37.7	33.1	28.5	23.9	43.1	2.9	43.1	42.3	35.8	31.3	26.9	22.4		
1200	77	73.1	1.8	30.4	25.1	19.9	-	-	-	63.8	3.0	29.0	23.9	18.7	-	-	-		
	72	64.2	2.2	37.7	32.5	27.3	22.0	-	-	57.1	3.0	35.8	30.7	25.5	20.4	-	-		
	67	55.3	2.6	45.1	39.9	34.6	29.4	24.2	-	50.3	2.9	42.6	37.5	32.3	27.2	22.0	-		
	62	50.0	2.2	50.0	48.9	41.3	36.1	30.9	25.6	44.7	2.9	44.7	44.2	39.1	33.9	28.8	23.6		
	57	48.7	2.2	48.7	48.7	44.1	38.9	33.7	28.4	44.1	2.9	44.1	44.1	40.5	35.4	30.2	25.1		
1400	77	75.5	2.1	33.4	27.5	21.6	-	-	-	66.1	3.0	32.0	26.1	20.3	-	-	-		
	72	66.3	2.4	41.4	35.5	29.6	23.8	-	-	59.1	3.0	39.3	33.5	27.7	21.8	-	-		
	67	57.1	2.8	49.4	43.5	37.6	31.8	25.9	-	52.2	2.9	46.7	40.9	35.0	29.2	23.3	-		
	62	51.6	2.4	51.6	51.1	44.9	39.0	33.1	27.3	46.3	2.9	46.3	46.1	42.3	36.5	30.6	24.8		
	57	50.2	2.4	50.2	50.2	48.0	42.1	36.2	30.3	45.7	2.9	45.7	45.7	43.9	38.1	32.2	26.4		
1600	77	77.9	2.3	36.5	29.9	23.4	-	-	-	68.4	3.0	34.9	28.4	21.9	-	-	-		
	72	68.4	2.6	45.1	38.6	32.0	25.5	-	-	61.2	3.0	42.9	36.3	29.8	23.3	-	-		
	67	58.9	3.0	53.7	47.2	40.7	34.1	27.6	-	54.0	2.9	50.8	44.3	37.7	31.2	24.7	-		
	62	53.2	2.6	53.2	53.2	48.5	42.0	35.4	28.9	47.9	2.9	47.9	47.9	45.6	39.1	32.5	26.0		
	57	51.8	2.6	51.8	51.8	51.8	45.3	38.7	32.2	47.3	2.9	47.3	47.3	47.3	40.7	34.2	27.7		
1800	72	70.3	2.4	48.1	40.9	33.7	26.6	-	-	62.2	3.0	46.1	38.9	31.7	24.5	-	-		
	67	60.5	2.8	57.9	50.0	42.8	35.7	28.5	-	54.8	2.9	53.3	47.3	40.2	33.0	25.8	-		
	62	54.7	2.4	54.7	54.7	52.3	45.1	38.0	30.8	48.7	2.9	48.7	48.7	47.5	40.3	33.2	26.0		
	57	53.2	2.4	53.2	53.2	53.2	46.1	38.9	31.7	48.0	2.9	48.0	48.0	48.0	40.9	33.7	26.5		
2000	72	72.1	2.2	51.0	43.2	35.4	27.7	-	-	63.1	3.0	49.3	41.5	33.6	25.8	-	-		
	67	62.1	2.6	62.1	52.8	45.0	37.2	29.4	-	55.7	2.9	55.7	50.4	42.6	34.8	27.0	-		
	62	56.1	2.2	56.1	56.1	56.1	48.3	40.5	32.7	49.5	2.9	49.5	49.5	49.5	41.6	33.8	26.0		
	57	54.7	2.2	54.7	54.7	54.7	46.9	39.1	31.3	48.8	2.9	48.8	48.8	48.8	41.0	33.1	25.3		
		95°F									105°F								
1000	77	52.2	4.4	24.8	20.5	16.1	-	-	-	51.3	4.2	21.3	18.4	14.1	-	-	-		
	72	47.9	3.9	30.5	26.2	21.9	17.6	-	-	45.4	3.9	28.4	24.1	19.9	15.6	-	-		
	67	43.6	3.4	36.3	31.9	27.6	23.3	19.0	-	39.6	3.6	35.5	29.8	25.6	21.3	17.1	-		
	62	37.9	3.9	37.9	37.9	33.9	29.5	25.2	20.9	34.1	3.8	34.1	34.1	29.2	25.0	20.7	16.5		
1200	77	54.4	4.2	27.7	22.6	17.5	-	-	-	52.8	4.1	25.3	20.4	15.4	-	-	-		
	72	49.9	3.7	33.9	28.8	23.8	18.7	-	-	46.8	3.8	31.6	26.6	21.7	16.7	-	-		
	67	45.4	3.2	40.1	35.1	30.0	25.0	19.9	-	40.8	3.5	37.8	32.9	27.9	22.9	18.0	-		
	62	39.5	3.6	39.5	39.5	36.8	31.7	26.7	21.6	35.1	3.7	35.1	35.1	31.9	26.9	22.0	17.0		
	57	39.6	3.6	39.6	39.6	36.9	31.8	26.8	21.7	35.7	3.7	35.7	35.7	32.4	27.5	22.5	17.6		
1400	77	56.6	4.0	30.5	24.7	18.9	-	-	-	54.3	4.0	29.4	22.4	16.7	-	-	-		
	72	51.9	3.5	37.3	31.5	25.7	19.9	-	-	48.2	3.7	34.8	29.1	23.5	17.8	-	-		
	67	47.3	3.0	44.0	38.2	32.4	26.6	20.8	-	42.0	3.4	40.2	35.9	30.2	24.6	18.9	-		
	62	41.1	3.4	41.1	41.1	39.7	33.9	28.1	22.3	36.2	3.6	36.2	36.2	34.6	28.9	23.2	17.5		
	57	41.2	3.4	41.2	41.2	39.8	34.0	28.2	22.4	36.8	3.6	36.8	36.8	35.1	29.5	23.8	18.1		
1600	77	58.8	3.7	33.4	26.9	20.3	-	-	-	55.8	3.9	33.5	24.4	18.0	-	-	-		
	72	54.0	3.3	40.7	34.1	27.6	21.0	-	-	49.5	3.6	38.0	31.7	25.3	18.9	-	-		
	67	49.1	2.9	47.9	41.3	34.8	28.3	21.7	-	43.2	3.4	42.6	39.0	32.6	26.2	19.8	-		
	62	42.7	3.2	42.7	42.7	42.7	36.1	29.6	23.1	37.2	3.5	37.2	37.2	37.2	30.8	24.5	18.1		
	57	42.8	3.2	42.8	42.8	42.8	36.2	29.7	23.1	37.9	3.5	37.9	37.9	37.9	31.5	25.1	18.7		
1800	72	54.1	3.5	44.1	36.9	29.7	22.5	-	-	49.9	3.7	41.5	34.4	27.3	20.3	-	-		
	67	49.2	3.1	48.6	44.7	37.5	30.3	23.1	-	43.5	3.5	43.2	41.1	35.2	28.1	21.1	-		
	62	42.7	3.4	42.7	42.7	42.7	35.5	28.4	21.2	37.5	3.6	37.5	37.5	37.5	30.4	23.4	16.3		
	57	42.8	3.4	42.8	42.8	42.8	35.6	28.4	21.3	38.1	3.6	38.1	38.1	38.1	31.1	24.0	16.9		
2000	72	54.2	3.7	47.5	39.7	31.8	24.0	-	-	50.3	3.9	44.9	37.1	29.4	21.6	-	-		
	67	49.3	3.3	49.3	48.0	40.2	32.3	24.5	-	43.8	3.6	43.8	43.2	37.9	30.1	22.4	-		
	62	42.8	3.7	42.8	42.8	42.8	35.0	27.1	19.3	37.8	3.7	37.8	37.8	37.8	30.0	22.3	14.5		
	57	42.9	3.7	42.9	42.9	42.9	35.1	27.2	19.4	38.4	3.7	38.4	38.4	38.4	30.7	22.9	15.2		

ZR049 (4.0 Ton) Cooling (Continued)

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)						Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)					
				Return Dry Bulb (°F)								Return Dry Bulb (°F)					
				90	85	80	75	70	65			90	85	80	75	70	65
		115°F										125°F					
1000	77	50.4	4.0	17.7	16.3	12.1	-	-	-	49.5	3.7	16.5	12.8	10.1	-	-	-
	72	43.0	3.9	26.2	22.0	17.8	13.6	-	-	40.5	3.9	24.0	19.9	15.8	11.7	-	-
	67	35.6	3.8	34.6	27.7	23.5	19.3	15.2	-	31.5	4.0	31.5	25.6	21.5	17.4	13.3	-
	62	30.3	3.7	30.3	30.3	24.6	20.5	16.3	12.1	26.5	3.6	26.5	26.5	20.0	15.9	11.8	7.7
1200	77	51.2	4.0	23.0	18.1	13.3	-	-	-	49.6	3.9	22.4	15.9	11.2	-	-	-
	72	43.7	3.9	29.3	24.4	19.5	14.7	-	-	40.6	4.0	26.9	22.2	17.4	12.7	-	-
	67	36.1	3.8	35.5	30.7	25.8	20.9	16.1	-	31.5	4.1	31.5	28.4	23.7	18.9	14.2	-
	62	30.8	3.7	30.8	30.8	27.0	22.1	17.3	12.4	26.5	3.8	26.5	26.5	22.1	17.4	12.6	7.8
	57	31.9	3.8	31.9	31.9	28.0	23.2	18.3	13.4	28.1	3.8	28.1	28.1	23.6	18.8	14.1	9.3
1400	77	52.0	4.0	28.3	20.0	14.5	-	-	-	49.7	4.0	28.4	19.0	12.2	-	-	-
	72	44.4	3.9	32.3	26.8	21.3	15.7	-	-	40.6	4.1	29.9	24.5	19.0	13.6	-	-
	67	36.7	3.8	36.4	33.6	28.1	22.5	17.0	-	31.4	4.2	31.4	31.3	25.9	20.5	15.1	-
	62	31.3	3.7	31.3	31.3	29.4	23.8	18.3	12.8	26.4	3.9	26.4	26.4	24.2	18.8	13.4	8.0
	57	32.4	3.8	32.4	32.4	30.5	24.9	19.4	13.8	28.1	3.9	28.1	28.1	25.8	20.4	15.0	9.6
1600	77	52.9	4.0	33.6	21.9	15.6	-	-	-	49.9	4.2	34.3	22.2	13.3	-	-	-
	72	45.1	3.9	35.4	29.2	23.0	16.8	-	-	40.6	4.3	32.8	26.8	20.7	14.6	-	-
	67	37.3	3.8	37.3	36.6	30.3	24.1	17.9	-	31.3	4.3	31.3	31.3	28.1	22.0	15.9	-
	62	31.8	3.8	31.8	31.8	31.8	25.5	19.3	13.1	26.3	4.0	26.3	26.3	26.3	20.2	14.2	8.1
	57	32.9	3.8	32.9	32.9	32.9	26.7	20.5	14.3	28.0	4.1	28.0	28.0	28.0	22.0	15.9	9.8
1800	72	45.7	3.9	38.8	31.9	24.9	18.0	-	-	41.6	4.2	36.2	29.4	22.6	15.7	-	-
	67	37.8	3.9	37.8	37.5	32.9	26.0	19.0	-	32.2	4.3	32.2	32.2	30.6	23.8	17.0	-
	62	32.2	3.8	32.2	32.2	32.2	25.3	18.4	11.4	27.0	3.9	27.0	27.0	27.0	20.2	13.4	6.6
	57	33.5	3.8	33.5	33.5	33.5	26.5	19.6	12.6	28.8	4.0	28.8	28.8	28.8	21.9	15.1	8.3
2000	72	46.4	4.0	42.2	34.6	26.9	19.3	-	-	42.6	4.1	39.5	32.0	24.4	16.9	-	-
	67	38.4	3.9	38.4	38.4	35.5	27.9	20.2	-	33.0	4.2	33.0	33.0	33.0	25.6	18.1	-
	62	32.7	3.8	32.7	32.7	32.7	25.1	17.4	9.8	27.7	3.8	27.7	27.7	27.7	20.1	12.6	5.0
	57	34.0	3.8	34.0	34.0	34.0	26.3	18.6	11.0	29.5	3.9	29.5	29.5	29.5	21.9	14.4	6.8

1. These capacities are gross ratings. For net capacity, deduct air blower motor, MBh = 3.415 x kW. Refer to the appropriate Blower Performance Table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

ZR049 (4.0 Ton) Reheat

Air on Evaporator Coil		Temperature of Air on Condenser Coil					
		Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh) (- indicates heating)	Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh) (- indicates heating)
				Return Dry Bulb (°F)			Return Dry Bulb (°F)
CFM	WB (°F)			75			75
		40 °F			50 °F		
1200	62.5	24.5	2.5	9.1	22.9	2.6	8.0
	64	25.7	2.5	7.4	26.9	2.7	7.2
	65.3	26.6	2.5	6.1	27.1	2.6	5.5
1600	62.5	24.0	2.5	12.4	24.5	2.6	11.2
	64	25.8	2.5	10.0	26.7	2.6	9.2
	65.3	27.1	2.5	8.3	28.5	2.6	7.7
2000	62.5	24.3	2.5	12.9	22.7	2.6	11.6
	64	26.2	2.5	11.1	24.7	2.6	10.0
	65.3	27.1	2.5	9.2	26.5	2.6	8.5
		60 °F			70 °F		
1200	62.5	21.8	2.6	7.1	19.8	2.7	6.2
	64	25.3	2.7	6.3	23.0	2.8	0.0
	65.3	26.9	2.7	4.8	23.5	2.7	2.9
1600	62.5	22.7	2.7	9.9	20.6	2.7	8.8
	64	25.4	2.7	8.8	22.4	2.8	6.8
	65.3	26.9	2.7	7.5	24.4	2.8	5.9
2000	62.5	20.1	2.6	10.2	18.2	2.7	8.9
	64	22.3	2.6	8.6	20.5	2.7	7.7
	62	23.7	2.6	6.9	21.4	2.7	5.3
		75 °F			80 °F		
1200	62.5	19.0	2.7	5.5	17.6	2.8	4.7
	64	21.5	2.8	5.1	20.9	2.9	3.7
	65.3	22.2	2.8	2.8	21.5	2.9	2.3
1600	62.5	19.3	2.8	8.1	17.9	2.9	7.5
	64	21.3	2.8	6.3	19.9	2.9	5.7
	65.3	22.6	2.8	4.7	21.1	2.9	4.1
2000	62.5	16.9	2.7	7.9	15.1	2.8	7.1
	64	18.2	2.7	6.3	16.7	2.8	5.6
	65.3	19.9	2.8	4.8	18.3	2.8	4.0
		85 °F			95 °F		
1200	62.5	17.7	2.9	5.0	12.8	3.1	3.5
	64	19.0	2.9	3.4	13.8	3.2	-0.2
	65.3	20.4	2.9	2.1	14.0	3.1	-1.5
1600	62.5	16.2	2.9	6.4	9.7	3.1	2.4
	64	18.2	3.0	5.0	10.8	3.2	1.0
	65.3	19.6	3.0	3.1	12.2	3.2	-0.7
2000	62.5	13.3	2.9	6.6	6.2	3.0	1.4
	64	14.8	2.9	4.7	7.2	3.0	-0.1
	62	15.8	2.9	3.1	8.0	3.0	-1.5

1. These capacities are gross ratings. For net capacity, deduct air blower motor, MBh = 3.415 x kW. Refer to the appropriate Blower Performance Table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

ZR061 (5.0 Ton) Cooling (Continued)

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)						Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)					
				Return Dry Bulb (°F)								Return Dry Bulb (°F)					
				90	85	80	75	70	65			90	85	80	75	70	65
		115°F								125°F							
1250	77	60.8	6.1	19.8	18.1	13.3	-	-	-	55.9	7.3	18.9	12.5	10.1	-	-	-
	72	52.8	5.6	32.2	26.9	21.6	16.2	-	-	47.8	6.5	29.2	24.0	18.8	13.6	-	-
	67	44.7	5.0	44.7	35.7	29.8	24.5	19.1	-	39.6	5.7	39.6	34.3	27.5	22.3	17.1	-
	62	37.9	5.3	37.9	37.9	30.0	24.7	19.4	14.0	32.9	5.9	32.9	32.9	24.3	19.1	13.9	8.7
1500	77	61.3	5.9	27.6	20.9	14.6	-	-	-	55.4	7.0	27.2	17.4	11.1	-	-	-
	72	53.2	5.4	36.3	30.0	23.6	17.3	-	-	47.3	6.2	33.2	27.0	20.7	14.4	-	-
	67	45.0	4.8	45.0	39.0	32.7	26.4	20.0	-	39.2	5.4	39.2	36.5	30.3	24.0	17.8	-
	62	38.2	5.1	38.2	38.2	32.9	26.6	20.3	14.0	32.5	5.7	32.5	32.5	26.8	20.5	14.3	8.0
	57	40.1	5.2	40.1	40.1	34.6	28.3	22.0	15.6	35.4	5.8	35.4	35.4	29.3	23.0	16.8	10.5
1750	77	61.7	5.7	35.4	23.8	15.9	-	-	-	54.8	6.7	35.6	22.3	12.2	-	-	-
	72	53.5	5.2	40.4	33.1	25.7	18.4	-	-	46.8	5.9	37.2	29.9	22.6	15.3	-	-
	67	45.3	4.7	45.3	42.3	35.6	28.3	20.9	-	38.8	5.2	38.8	38.8	33.0	25.7	18.4	-
	62	38.5	4.9	38.5	38.5	35.8	28.5	21.2	13.9	32.1	5.4	32.1	32.1	29.2	21.9	14.7	7.4
	57	40.4	5.0	40.4	40.4	37.7	30.3	23.0	15.7	35.0	5.5	35.0	35.0	31.9	24.7	17.4	10.1
2000	77	62.2	5.5	43.2	26.6	17.2	-	-	-	54.3	6.4	43.9	27.2	13.2	-	-	-
	72	53.9	5.0	44.4	36.1	27.8	19.5	-	-	46.3	5.7	41.1	32.8	24.5	16.1	-	-
	67	45.7	4.5	45.7	45.7	38.5	30.1	21.8	-	38.3	4.9	38.3	38.3	35.7	27.4	19.1	-
	62	38.8	4.8	38.8	38.8	38.8	30.4	22.1	13.8	31.7	5.1	31.7	31.7	31.7	23.4	15.0	6.7
	57	40.7	4.8	40.7	40.7	40.7	32.4	24.1	15.8	34.6	5.2	34.6	34.6	34.6	26.3	18.0	9.6
2250	72	53.9	5.2	48.1	38.9	29.8	20.7	-	-	46.2	5.9	44.6	35.4	26.3	17.1	-	-
	67	45.6	4.7	45.6	45.6	41.2	32.1	23.0	-	38.2	5.1	38.2	38.2	38.2	29.3	20.1	-
	62	38.7	5.0	38.7	38.7	38.7	29.6	20.5	11.4	31.6	5.4	31.6	31.6	31.6	22.4	13.3	4.1
	57	40.7	5.1	40.7	40.7	40.7	31.6	22.5	13.4	34.5	5.5	34.5	34.5	34.5	25.3	16.2	7.1
2500	72	53.8	5.5	51.7	41.8	31.9	22.0	-	-	46.0	6.1	46.0	38.1	28.1	18.2	-	-
	67	45.6	4.9	45.6	45.6	44.0	34.1	24.2	-	38.1	5.3	38.1	38.1	38.1	31.1	21.2	-
	62	38.7	5.2	38.7	38.7	38.7	28.8	18.9	9.0	31.5	5.6	31.5	31.5	31.5	21.5	11.5	1.6
	57	40.6	5.3	40.6	40.6	40.6	30.7	20.8	10.9	34.4	5.7	34.4	34.4	34.4	24.4	14.5	4.5

1. These capacities are gross ratings. For net capacity, deduct air blower motor, MBh = 3.415 x kW. Refer to the appropriate Blower Performance Table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

ZR061 (5.0 Ton) Reheat

Air on Evaporator Coil		Temperature of Air on Condenser Coil					
		Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh) (- indicates heating)	Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh) (- indicates heating)
CFM	WB (°F)			Return Dry Bulb (°F)			Return Dry Bulb (°F)
				75			75
40 °F				50 °F			
1750	62.5	26.8	3.1	8.4	29.3	3.2	10.7
	64	28.9	3.1	6.4	32.4	3.2	9.2
	65.3	30.0	3.1	4.8	34.7	3.2	7.3
2000	62.5	29.2	3.1	11.0	30.3	3.2	11.9
	64	30.8	3.1	8.6	32.3	3.2	9.9
	65.3	31.4	3.1	5.8	35.3	3.2	8.4
2250	62.5	29.8	3.1	10.5	29.6	3.2	11.1
	64	31.2	3.1	7.6	32.1	3.2	8.5
	65.3	31.4	3.1	6.0	34.5	3.2	6.2
60 °F				70 °F			
1750	62.5	26.7	3.3	9.2	24.5	3.4	8.0
	64	28.9	3.3	6.9	27.0	3.4	6.4
	65.3	31.6	3.3	5.4	28.7	3.4	4.3
2000	62.5	27.9	3.3	10.9	25.0	3.4	9.0
	64	31.0	3.3	8.4	27.3	3.4	6.9
	65.3	32.9	3.3	6.7	29.6	3.4	4.9
2250	62.5	26.8	3.3	9.5	23.6	3.4	7.3
	64	29.5	3.3	6.9	26.1	3.4	4.7
	62	31.7	3.3	4.5	28.2	3.4	2.7
75 °F				80 °F			
1750	62.5	22.8	3.5	7.1	21.3	3.5	6.3
	64	25.5	3.5	5.1	23.9	3.5	4.6
	65.3	27.8	3.5	3.3	25.8	3.5	2.7
2000	62.5	23.2	3.5	8.0	21.3	3.5	7.3
	64	25.7	3.5	5.9	23.7	3.5	5.3
	65.3	27.8	3.5	4.3	25.7	3.5	3.6
2250	62.5	21.6	3.4	6.8	19.5	3.5	5.6
	64	23.8	3.5	4.5	22.0	3.5	3.1
	65.3	26.1	3.5	1.9	24.1	3.5	1.0
85 °F				95 °F			
1750	62.5	17.4	3.5	3.9	8.3	3.8	-1.8
	64	19.7	3.6	2.0	9.8	3.8	-3.9
	65.3	21.6	3.6	-0.3	11.2	3.9	-5.3
2000	62.5	17.3	3.6	5.0	7.1	3.8	-0.9
	64	19.4	3.6	2.5	8.8	3.8	-3.0
	65.3	20.9	3.6	0.5	10.3	3.9	-5.2
2250	62.5	16.0	3.5	3.5	5.0	3.8	-3.3
	64	18.0	3.6	0.4	6.1	3.8	-6.2
	62	19.4	3.6	-1.7	8.3	3.9	-8.0

1. These capacities are gross ratings. For net capacity, deduct air blower motor, MBh = 3.415 x kW. Refer to the appropriate Blower Performance Table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

ZR078 (6.5 Ton) Cooling

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)						Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)					
				Return Dry Bulb (°F)								Return Dry Bulb (°F)					
				90	85	80	75	70	65			90	85	80	75	70	65
		75°F								85°F							
1625	77	99.9	5.1	39.3	33.2	27.1	-	-	-	90.5	5.8	36.9	30.8	24.7	-	-	-
	72	91.5	5.0	50.3	44.2	38.1	32.1	-	-	83.7	5.7	48.0	41.8	35.7	29.6	-	-
	67	83.0	5.0	61.3	55.2	49.2	43.1	37.0	-	76.9	5.7	59.0	52.9	46.8	40.7	34.5	-
	62	72.4	4.9	72.4	70.1	60.9	54.9	48.8	42.7	68.7	5.7	68.7	66.7	57.6	51.5	45.4	39.3
1950	77	106.5	5.1	45.5	37.9	30.3	-	-	-	96.8	5.9	42.8	35.2	27.7	-	-	-
	72	97.5	5.1	57.8	50.2	42.6	35.1	-	-	89.5	5.8	55.1	47.6	40.0	32.5	-	-
	67	88.5	5.1	70.1	62.5	54.9	47.4	39.8	-	82.2	5.8	67.5	60.0	52.4	44.9	37.3	-
	62	77.2	5.0	77.2	75.6	68.1	60.5	52.9	45.4	73.4	5.7	73.4	72.1	64.6	57.0	49.5	41.9
57	78.2	5.0	78.2	78.2	72.6	65.0	57.5	49.9	70.6	5.7	70.6	70.6	65.6	58.0	50.5	43.0	
2275	77	113.1	5.2	51.6	42.6	33.5	-	-	-	103.0	5.9	48.6	39.6	30.7	-	-	-
	72	103.5	5.2	65.2	56.2	47.1	38.0	-	-	95.2	5.9	62.3	53.3	44.4	35.4	-	-
	67	93.9	5.1	78.8	69.8	60.7	51.6	42.6	-	87.5	5.8	76.0	67.0	58.1	49.1	40.1	-
	62	81.9	5.1	81.9	81.2	75.2	66.2	57.1	48.0	78.1	5.8	78.1	77.5	71.5	62.6	53.6	44.6
57	83.1	5.1	83.1	83.1	80.3	71.2	62.1	53.1	75.2	5.8	75.2	75.2	72.7	63.7	54.7	45.8	
2600	77	119.7	5.3	57.8	47.3	36.7	-	-	-	109.3	6.0	54.4	44.0	33.6	-	-	-
	72	109.5	5.2	72.7	62.2	51.6	41.0	-	-	101.0	6.0	69.5	59.1	48.7	38.3	-	-
	67	99.4	5.2	87.6	77.0	66.5	55.9	45.3	-	92.8	5.9	84.5	74.1	63.7	53.3	42.9	-
	62	86.7	5.1	86.7	86.7	82.4	71.8	61.3	50.7	82.9	5.9	82.9	82.9	78.5	68.1	57.7	47.3
57	87.9	5.2	87.9	87.9	87.9	77.4	66.8	56.2	79.7	5.9	79.7	79.7	79.7	69.3	59.0	48.6	
2925	72	109.6	5.2	74.8	64.0	53.1	42.2	-	-	100.2	5.9	71.6	60.8	50.0	39.3	-	-
	67	99.5	5.1	91.9	79.3	68.4	57.5	46.7	-	92.0	5.9	87.0	76.3	65.5	54.7	44.0	-
	62	86.8	5.1	86.8	86.8	84.6	73.8	62.9	52.0	82.2	5.8	82.2	82.2	80.0	69.3	58.5	47.7
	57	88.0	5.1	88.0	88.0	88.0	77.1	66.2	55.3	79.1	5.8	79.1	79.1	79.1	68.3	57.6	46.8
3250	72	109.7	5.1	76.9	65.7	54.6	43.4	-	-	99.4	5.8	73.7	62.5	51.4	40.3	-	-
	67	99.6	5.1	96.1	81.5	70.3	59.1	48.0	-	91.3	5.8	89.5	78.4	67.3	56.1	45.0	-
	62	86.9	5.0	86.9	86.9	86.9	75.7	64.5	53.4	81.5	5.8	81.5	81.5	81.5	70.4	59.3	48.1
	57	88.0	5.0	88.0	88.0	88.0	76.8	65.6	54.4	78.5	5.8	78.5	78.5	78.5	67.3	56.2	45.1
		95°F								105°F							
1625	77	81.2	6.5	34.6	28.4	22.3	-	-	-	76.9	7.3	31.0	26.2	20.1	-	-	-
	72	75.9	6.5	45.6	39.5	33.3	27.2	-	-	70.8	7.3	43.2	37.1	31.0	24.8	-	-
	67	70.7	6.4	56.7	50.5	44.4	38.2	32.1	-	64.7	7.2	55.3	47.9	41.8	35.7	29.6	-
	62	64.9	6.4	64.9	63.3	54.3	48.1	42.0	35.8	59.4	7.2	59.4	58.5	49.9	43.8	37.7	31.6
1950	77	87.0	6.6	40.1	32.5	25.0	-	-	-	81.8	7.4	37.4	30.0	22.6	-	-	-
	72	81.4	6.5	52.5	45.0	37.5	30.0	-	-	75.3	7.4	49.6	42.2	34.8	27.4	-	-
	67	75.8	6.5	64.9	57.4	49.9	42.4	34.9	-	68.8	7.3	61.8	54.4	47.0	39.6	32.1	-
	62	69.7	6.4	69.7	68.6	61.0	53.5	46.0	38.5	63.2	7.3	63.2	62.6	56.1	48.7	41.3	33.9
57	63.0	6.5	63.0	63.0	58.6	51.1	43.5	36.0	61.6	7.3	61.6	61.4	55.5	48.1	40.6	33.2	
2275	77	92.9	6.7	45.5	36.7	27.8	-	-	-	86.7	7.5	43.8	33.8	25.1	-	-	-
	72	87.0	6.6	59.3	50.5	41.6	32.8	-	-	79.8	7.5	56.0	47.3	38.6	29.9	-	-
	67	81.0	6.6	73.2	64.3	55.4	46.6	37.7	-	73.0	7.4	68.3	60.9	52.2	43.5	34.7	-
	62	74.4	6.5	74.4	73.8	67.8	59.0	50.1	41.2	67.0	7.3	67.0	66.7	62.3	53.6	44.9	36.2
57	67.3	6.5	67.3	67.3	65.1	56.2	47.3	38.5	65.2	7.4	65.2	65.1	61.6	52.9	44.2	35.5	
2600	77	98.8	6.7	51.0	40.8	30.6	-	-	-	91.6	7.6	50.2	37.6	27.6	-	-	-
	72	92.5	6.7	66.2	56.0	45.8	35.6	-	-	84.3	7.6	62.5	52.5	42.5	32.5	-	-
	67	86.1	6.6	81.4	71.2	61.0	50.8	40.5	-	77.1	7.5	74.7	67.3	57.3	47.3	37.3	-
	62	79.1	6.6	79.1	79.1	74.6	64.4	54.2	43.9	70.8	7.4	70.8	70.8	68.5	58.5	48.5	38.5
57	71.5	6.6	71.5	71.5	71.5	61.3	51.1	40.9	68.9	7.4	68.9	68.9	67.7	57.7	47.7	37.7	
2925	72	90.8	6.6	68.3	57.6	47.0	36.3	-	-	83.1	7.5	64.7	54.2	43.8	33.3	-	-
	67	84.5	6.6	82.2	73.2	62.6	51.9	41.3	-	75.9	7.4	74.8	69.1	59.1	48.7	38.2	-
	62	77.6	6.5	77.6	77.6	75.4	64.7	54.1	43.4	69.7	7.4	69.7	69.7	68.6	58.1	47.7	37.2
	57	70.2	6.6	70.2	70.2	70.2	59.6	48.9	38.3	67.9	7.4	67.9	67.9	67.3	56.8	46.4	35.9
3250	72	89.1	6.6	70.4	59.3	48.2	37.1	-	-	81.8	7.4	66.9	56.0	45.1	34.2	-	-
	67	83.0	6.5	83.0	75.3	64.2	53.1	42.0	-	74.8	7.4	74.8	70.9	60.9	50.0	39.1	-
	62	76.2	6.5	76.2	76.2	76.2	65.1	54.0	42.9	68.6	7.3	68.6	68.6	68.6	57.7	46.8	35.9
	57	68.9	6.5	68.9	68.9	68.9	57.8	46.8	35.7	66.9	7.3	66.9	66.9	66.9	56.0	45.1	34.2

ZR078 (6.5 Ton) Cooling (Continued)

Air on Evaporator Coil		Temperature of Air on Condenser Coil																
CFM		WB (°F)	Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)						Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)					
					Return Dry Bulb (°F)								Return Dry Bulb (°F)					
					90	85	80	75	70	65			90	85	80	75	70	65
		115°F										125°F						
1625	77	72.6	8.1	27.5	24.0	18.0	-	-	-	68.3	9.0	24.0	21.5	15.8	-	-	-	
	72	65.6	8.1	40.7	34.7	28.6	22.5	-	-	60.4	8.9	38.3	32.2	26.2	20.2	-	-	
	67	58.6	8.1	54.0	45.3	39.2	33.1	27.1	-	52.6	8.9	52.6	42.6	36.6	30.6	24.6	-	
	62	53.8	8.0	53.8	53.8	45.6	39.5	33.4	27.4	48.2	8.8	48.2	48.2	41.2	35.2	29.2	23.1	
1950	77	76.5	8.2	34.8	27.5	20.2	-	-	-	71.2	9.1	33.0	25.0	17.8	-	-	-	
	72	69.1	8.2	46.7	39.4	32.1	24.8	-	-	63.0	9.0	43.9	36.6	29.4	22.2	-	-	
	67	61.8	8.2	58.7	51.4	44.0	36.7	29.4	-	54.7	9.0	54.7	48.3	41.1	33.9	26.7	-	
	62	56.7	8.1	56.7	56.7	51.2	43.9	36.6	29.3	50.2	8.9	50.2	50.2	46.3	39.1	31.9	24.7	
	57	60.1	8.1	60.1	59.7	52.4	45.1	37.7	30.4	58.7	8.9	58.7	58.0	49.3	42.1	34.8	27.6	
2275	77	80.4	8.4	42.1	31.0	22.4	-	-	-	74.1	9.2	42.0	28.4	19.7	-	-	-	
	72	72.7	8.3	52.7	44.2	35.6	27.1	-	-	65.5	9.2	49.4	41.0	32.6	24.2	-	-	
	67	64.9	8.3	63.4	57.4	48.9	40.3	31.8	-	56.9	9.1	56.9	54.0	45.6	37.2	28.8	-	
	62	59.6	8.2	59.6	59.6	56.8	48.3	39.7	31.2	52.2	9.0	52.2	52.2	51.4	43.0	34.6	26.2	
	57	63.2	8.2	63.2	63.0	58.1	49.6	41.0	32.5	61.2	9.0	61.2	60.8	54.7	46.3	37.9	29.5	
2600	77	84.3	8.5	49.4	34.4	24.6	-	-	-	77.1	9.3	51.0	31.8	21.6	-	-	-	
	72	76.2	8.4	58.8	49.0	39.2	29.4	-	-	68.1	9.3	55.0	45.4	35.9	26.3	-	-	
	67	68.1	8.4	68.1	63.5	53.7	43.9	34.1	-	59.1	9.2	59.1	59.1	50.1	40.5	30.9	-	
	62	62.5	8.3	62.5	62.5	62.5	52.7	42.9	33.1	54.2	9.1	54.2	54.2	54.2	46.8	37.2	27.7	
	57	66.3	8.3	66.3	66.3	63.9	54.1	44.3	34.5	63.6	9.1	63.6	63.6	60.0	50.5	40.9	31.3	
2925	72	75.4	8.3	61.1	50.8	40.6	30.3	-	-	67.6	9.2	57.5	47.4	37.4	27.3	-	-	
	67	67.3	8.3	67.3	65.0	55.7	45.4	35.1	-	58.7	9.2	58.7	58.7	52.2	42.1	32.1	-	
	62	61.8	8.2	61.8	61.8	61.8	51.5	41.3	31.0	53.8	9.0	53.8	53.8	53.8	44.9	34.9	24.8	
	57	65.5	8.2	65.5	65.5	64.3	54.1	43.8	33.6	63.2	9.0	63.2	63.2	61.4	51.3	41.3	31.2	
3250	72	74.5	8.3	63.4	52.7	42.0	31.3	-	-	67.2	9.1	59.9	49.4	38.9	28.3	-	-	
	67	66.6	8.2	66.6	66.6	57.6	46.9	36.2	-	58.4	9.1	58.4	58.4	54.3	43.7	33.2	-	
	62	61.1	8.1	61.1	61.1	61.1	50.4	39.7	28.9	53.5	8.9	53.5	53.5	53.5	43.0	32.5	22.0	
	57	64.8	8.1	64.8	64.8	64.8	54.1	43.4	32.7	62.7	9.0	62.7	62.7	62.7	52.2	41.7	31.2	

1. These capacities are gross ratings. For net capacity, deduct air blower motor, MBh = 3.415 x kW. Refer to the appropriate Blower Performance Table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

ZR078 (6.5 Ton) Reheat

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)						Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)					
				Return Dry Bulb (°F)								Return Dry Bulb (°F)					
				85	80	75	70	65	85			80	75	70	65		
		35°F								45°F							
1625	72	31.6	4.5	1.6	1.5	1.5	-	-	34.9	5.1	-	-	-	-	-		
	67	32.2	4.6	1.5	1.5	1.4	1.4	-	35.2	4.9	2.5	2.2	1.9	1.7	-		
	62	28.5	4.4	1.6	1.6	1.5	1.5	1.4	32.0	4.9	5.2	4.9	4.6	4.4	4.1		
1950	72	36.1	4.3	2.2	1.6	0.9	-	-	37.2	4.9	-	-	-	-	-		
	67	36.7	4.5	6.6	5.9	5.3	4.6	-	37.6	4.7	6.2	5.6	4.9	4.2	-		
	62	32.6	4.3	10.8	10.1	9.4	8.8	8.1	34.2	4.7	13.0	12.4	11.7	11.1	10.4		
	57	34.2	4.4	17.1	16.4	15.8	15.1	14.5	34.5	4.7	18.2	17.6	16.9	16.3	15.6		
2275	72	40.5	4.2	2.9	1.7	0.4	-	-	39.6	4.7	-	-	-	-	-		
	67	41.2	4.3	11.6	10.4	9.1	7.8	-	39.9	4.5	9.9	8.9	7.9	6.8	-		
	62	36.7	4.2	19.9	18.6	17.4	16.1	14.8	36.3	4.5	20.9	19.8	18.8	17.8	16.7		
	57	38.3	4.2	29.8	29.5	28.2	26.9	25.7	36.6	4.5	28.5	28.2	27.2	26.1	25.1		
2600	72	45.0	4.1	3.6	1.7	-0.1	-	-	41.9	4.5	-	-	-	-	-		
	67	45.7	4.2	16.7	14.8	12.9	11.1	-	42.3	4.3	13.7	12.3	10.8	9.4	-		
	62	40.8	4.0	29.0	27.1	25.3	23.4	21.6	38.4	4.3	28.7	27.3	25.9	24.5	23.1		
	57	42.5	4.1	42.5	42.5	40.6	38.7	36.9	38.8	4.4	38.8	38.8	37.4	36.0	34.5		
2925	72	42.5	4.0	4.6	2.8	1.0	-	-	40.8	4.6	-	-	-	-	-		
	67	43.2	4.1	17.5	15.7	13.9	12.1	-	41.1	4.4	15.2	13.7	12.2	10.8	-		
	62	38.5	4.0	31.6	29.1	27.3	25.5	23.7	37.4	4.4	32.0	30.5	29.1	27.6	26.1		
	57	40.2	4.0	40.2	40.2	38.3	36.5	34.7	37.7	4.4	37.7	37.7	36.2	34.8	33.3		
3250	72	40.0	3.9	5.7	3.9	2.1	-	-	39.6	4.6	-	-	-	-	-		
	67	40.6	4.0	18.4	16.6	14.8	13.0	-	40.0	4.4	16.7	15.2	13.6	12.1	-		
	62	36.2	3.9	34.2	31.1	29.3	27.5	25.8	36.3	4.4	35.3	33.8	32.3	30.7	29.2		
	57	37.9	4.0	37.9	37.9	36.1	34.3	32.5	36.7	4.5	36.7	36.7	35.1	33.6	32.0		
		55°F								65°F							
1625	72	38.2	5.7	-	-	-	-	-	36.3	5.7	-	-	-	-	-		
	67	38.2	5.1	3.4	2.9	2.4	1.9	-	36.2	5.3	2.4	2.1	1.8	1.5	-		
	62	35.5	5.3	8.8	8.3	7.8	7.3	6.7	33.1	5.2	6.5	6.2	5.9	5.6	5.3		
1950	72	38.4	5.5	-	-	-	-	-	36.8	5.6	-	-	-	-	-		
	67	38.4	4.9	5.8	5.2	4.5	3.9	-	36.7	5.2	4.9	4.3	3.8	3.2	-		
	62	35.7	5.1	15.3	14.7	14.0	13.3	12.7	33.5	5.0	13.9	13.3	12.7	12.2	11.6		
	57	34.7	5.1	19.4	18.7	18.1	17.4	16.8	32.9	5.0	17.0	16.5	15.9	15.3	14.8		
2275	72	38.6	5.2	-	-	-	-	-	37.3	5.4	-	-	-	-	-		
	67	38.6	4.7	8.3	7.5	6.6	5.8	-	37.2	5.0	7.4	6.6	5.8	5.0	-		
	62	35.9	4.9	21.9	21.0	20.2	19.4	18.6	34.0	4.9	21.2	20.4	19.6	18.8	18.0		
	57	34.9	4.8	27.2	26.9	26.1	25.3	24.5	33.4	4.9	25.4	25.2	24.3	23.5	22.7		
2600	72	38.8	5.0	-	-	-	-	-	37.8	5.3	-	-	-	-	-		
	67	38.9	4.4	10.7	9.7	8.8	7.8	-	37.7	4.9	9.9	8.9	7.8	6.8	-		
	62	36.1	4.6	28.4	27.4	26.5	25.5	24.6	34.4	4.8	28.5	27.5	26.4	25.3	24.3		
	57	35.1	4.6	35.1	35.1	34.1	33.2	32.2	33.8	4.8	33.8	33.8	32.8	31.7	30.7		
2925	72	39.0	5.2	-	-	-	-	-	38.0	5.4	-	-	-	-	-		
	67	39.1	4.6	12.9	11.7	10.6	9.5	-	38.0	5.0	12.2	10.9	9.7	8.4	-		
	62	36.3	4.8	32.4	32.0	30.8	29.7	28.6	34.6	4.9	31.7	31.2	29.9	28.7	27.4		
	57	35.3	4.8	35.3	35.3	34.2	33.0	31.9	34.1	4.9	34.1	34.1	32.8	31.6	30.3		
3250	72	39.2	5.3	-	-	-	-	-	38.2	5.5	-	-	-	-	-		
	67	39.3	4.8	15.0	13.7	12.5	11.2	-	38.2	5.0	14.4	13.0	11.6	10.1	-		
	62	36.5	5.0	36.5	36.5	35.2	33.9	32.6	34.8	4.9	34.8	34.8	33.4	32.0	30.5		
	57	35.5	5.0	35.5	35.5	34.2	32.9	31.6	34.3	4.9	34.3	34.3	32.8	31.4	29.9		

ZR078 (6.5 Ton) Reheat (Continued)

Air on Evaporator Coil		Temperature of Air on Condenser Coil													
CFM	WB (°F)	Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)					Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)				
				Return Dry Bulb (°F)							Return Dry Bulb (°F)				
				85	80	75	70	65			85	80	75	70	65
		75°F							85°F						
1625	72	34.3	5.7	-	-	-	-	-	32.4	5.6	-	-	-	-	-
	67	34.2	5.4	1.3	1.2	1.1	1.0	-	32.2	5.6	0.3	0.4	0.5	0.6	-
	62	30.6	5.0	4.3	4.2	4.1	4.0	3.9	28.2	4.8	2.1	2.2	2.2	2.3	2.4
1950	72	35.1	5.7	-	-	-	-	-	33.5	5.8	-	-	-	-	-
	67	35.0	5.4	4.0	3.5	3.0	2.6	-	33.3	5.7	3.0	2.7	2.3	1.9	-
	62	31.3	5.0	12.4	12.0	11.5	11.0	10.6	29.1	4.9	11.0	10.6	10.3	9.9	9.5
	57	31.2	5.0	14.6	14.2	13.7	13.3	12.8	29.4	4.9	12.2	11.9	11.5	11.2	10.8
2275	72	35.9	5.7	-	-	-	-	-	34.5	5.9	-	-	-	-	-
	67	35.8	5.4	6.6	5.8	5.0	4.2	-	34.4	5.8	5.7	4.9	4.1	3.3	-
	62	32.0	5.0	20.5	19.7	18.9	18.1	17.3	30.1	5.1	19.9	19.1	18.3	17.4	16.6
	57	31.9	5.0	23.6	23.4	22.6	21.8	21.0	30.4	5.0	21.8	21.6	20.8	20.0	19.2
2600	72	36.7	5.7	-	-	-	-	-	35.6	6.0	-	-	-	-	-
	67	36.6	5.4	9.2	8.1	6.9	5.7	-	35.5	5.9	8.5	7.2	6.0	4.7	-
	62	32.7	5.0	28.7	27.5	26.3	25.2	24.0	31.0	5.2	28.8	27.5	26.3	25.0	23.8
	57	32.6	5.0	32.6	32.6	31.4	30.3	29.1	31.3	5.2	31.3	31.3	30.1	28.8	27.6
2925	72	37.0	5.6	-	-	-	-	-	35.9	5.8	-	-	-	-	-
	67	36.9	5.4	11.5	10.2	8.8	7.4	-	35.8	5.8	10.9	9.4	7.9	6.4	-
	62	33.0	4.9	30.9	30.4	29.0	27.6	26.2	31.3	5.0	30.2	29.6	28.0	26.5	25.0
	57	32.8	4.9	32.8	32.8	31.5	30.1	28.7	31.6	5.0	31.6	31.6	30.1	28.6	27.1
3250	72	37.2	5.6	-	-	-	-	-	36.2	5.7	-	-	-	-	-
	67	37.1	5.3	13.9	12.3	10.7	9.1	-	36.1	5.6	13.3	11.5	9.8	8.0	-
	62	33.2	4.9	33.2	33.2	31.6	30.0	28.4	31.6	4.9	31.6	31.6	29.8	28.1	26.3
	57	33.1	4.9	33.1	33.1	31.5	29.9	28.3	31.9	4.9	31.9	31.9	30.1	28.4	26.6

1. These capacities are gross ratings. For net capacity, deduct air blower motor, MBh = 3.415 x kW. Refer to the appropriate Blower Performance Table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

ZR090 (7.5 Ton) Cooling

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)						Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)					
				Return Dry Bulb (°F)								Return Dry Bulb (°F)					
				90	85	80	75	70	65			90	85	80	75	70	65
		75°F								85°F							
1875	77	95.3	5.1	41.7	33.4	25.0	-	-	-	98.4	5.8	42.5	34.5	26.4	-	-	-
	72	88.9	5.0	49.7	41.3	33.0	24.6	-	-	91.0	5.8	52.7	44.7	36.7	28.6	-	-
	67	82.4	4.9	57.7	49.3	41.0	32.6	24.2	-	83.6	5.7	63.0	54.9	46.9	38.9	30.8	-
	62	72.3	4.9	72.3	63.4	49.7	41.3	32.9	24.6	74.5	5.7	74.5	70.1	57.5	49.5	41.5	33.4
2250	77	104.3	5.1	50.1	40.6	31.2	-	-	-	104.3	5.9	49.0	39.9	30.7	-	-	-
	72	97.2	5.0	60.3	50.9	41.4	32.0	-	-	96.4	5.8	60.9	51.8	42.6	33.5	-	-
	67	90.1	5.0	70.6	61.1	51.7	42.2	32.8	-	88.5	5.8	72.8	63.7	54.5	45.4	36.3	-
	62	79.1	4.9	79.1	73.2	62.8	53.3	43.9	34.4	79.0	5.7	79.0	76.0	66.9	57.8	48.6	39.5
	57	76.9	4.9	76.9	74.8	63.8	54.3	44.9	35.4	77.6	5.7	77.6	76.5	67.4	58.3	49.1	40.0
2625	77	113.3	5.2	58.4	47.9	37.4	-	-	-	110.2	5.9	55.5	45.3	35.0	-	-	-
	72	105.5	5.1	70.9	60.4	49.9	39.4	-	-	101.9	5.8	69.1	58.9	48.6	38.4	-	-
	67	97.8	5.0	83.4	72.9	62.4	51.9	41.3	-	93.5	5.8	82.7	72.4	62.2	52.0	41.7	-
	62	85.9	5.0	85.9	82.9	75.8	65.3	54.8	44.3	83.4	5.7	83.4	82.0	76.3	66.1	55.8	45.6
	57	83.6	5.0	83.6	82.5	77.0	66.5	55.9	45.4	82.0	5.7	82.0	81.4	76.9	66.6	56.4	46.2
3000	77	122.2	5.2	66.8	55.2	43.6	-	-	-	116.0	5.9	62.0	50.7	39.4	-	-	-
	72	113.8	5.1	81.6	69.9	58.3	46.7	-	-	107.3	5.9	77.3	65.9	54.6	43.3	-	-
	67	105.4	5.1	96.3	84.7	73.1	61.5	49.9	-	98.5	5.8	92.5	81.2	69.9	58.5	47.2	-
	62	92.7	5.0	92.7	92.7	88.9	77.3	65.7	54.1	87.9	5.8	87.9	87.9	85.7	74.3	63.0	51.7
	57	90.2	5.0	90.2	90.2	90.2	78.6	67.0	55.4	86.3	5.8	86.3	86.3	86.3	75.0	63.7	52.3
3375	72	116.9	5.2	86.8	74.3	61.8	49.4	-	-	109.2	5.9	82.5	70.2	58.0	45.8	-	-
	67	108.2	5.1	103.7	89.9	77.5	65.0	52.5	-	100.3	5.8	97.3	86.4	74.2	62.0	49.7	-
	62	95.1	5.1	95.1	95.1	93.3	80.8	68.4	55.9	89.4	5.8	89.4	89.4	88.3	76.1	63.9	51.6
	57	92.7	5.1	92.7	92.7	92.7	80.2	67.7	55.3	87.9	5.8	87.9	87.9	87.9	75.6	63.4	51.2
3750	72	119.9	5.2	92.0	78.7	65.3	52.0	-	-	111.1	5.9	87.7	74.5	61.4	48.3	-	-
	67	111.0	5.1	111.0	95.2	81.9	68.5	55.2	-	102.0	5.8	102.0	91.7	78.5	65.4	52.3	-
	62	97.6	5.1	97.6	97.6	97.6	84.3	71.0	57.7	91.0	5.8	91.0	91.0	91.0	77.9	64.7	51.6
	57	95.1	5.1	95.1	95.1	95.1	81.8	68.4	55.1	89.4	5.8	89.4	89.4	89.4	76.3	63.1	50.0
		95°F								105°F							
1875	77	101.5	6.6	43.2	35.6	27.9	-	-	-	94.5	7.5	39.4	33.0	25.5	-	-	-
	72	93.1	6.6	55.7	48.0	40.3	32.7	-	-	86.4	7.5	52.8	45.3	37.7	30.2	-	-
	67	84.7	6.5	68.2	60.5	52.8	45.1	37.4	-	78.3	7.5	66.2	57.5	50.0	42.5	34.9	-
	62	76.8	6.5	76.8	76.8	65.4	57.7	50.0	42.3	71.2	7.4	71.2	71.2	60.6	53.1	45.5	38.0
2250	77	104.3	6.6	47.9	39.1	30.3	-	-	-	96.9	7.5	45.1	36.4	27.7	-	-	-
	72	95.7	6.6	61.5	52.7	43.9	35.0	-	-	88.5	7.5	58.4	49.7	41.0	32.3	-	-
	67	87.0	6.5	75.0	66.2	57.4	48.6	39.8	-	80.2	7.4	71.7	63.0	54.3	45.6	36.9	-
	62	78.9	6.5	78.9	78.9	71.0	62.2	53.4	44.6	73.0	7.4	73.0	73.0	65.8	57.1	48.4	39.7
	57	78.3	6.5	78.3	78.3	71.1	62.2	53.4	44.6	73.0	7.4	73.0	73.0	66.1	57.4	48.7	40.0
2625	77	107.1	6.6	52.6	42.6	32.7	-	-	-	99.2	7.5	50.7	39.7	29.8	-	-	-
	72	98.2	6.6	67.2	57.3	47.4	37.4	-	-	90.6	7.5	63.9	54.1	44.2	34.3	-	-
	67	89.3	6.5	81.9	72.0	62.0	52.1	42.1	-	82.1	7.4	77.1	68.4	58.6	48.7	38.8	-
	62	81.0	6.5	81.0	81.0	76.7	66.8	56.9	46.9	74.7	7.4	74.7	74.7	70.9	61.1	51.2	41.4
	57	80.4	6.5	80.4	80.4	76.7	66.8	56.9	46.9	74.8	7.4	74.8	74.8	71.3	61.4	51.6	41.7
3000	77	109.9	6.6	57.3	46.2	35.1	-	-	-	101.5	7.5	56.4	43.0	32.0	-	-	-
	72	100.7	6.6	73.0	61.9	50.9	39.8	-	-	92.7	7.5	69.5	58.5	47.4	36.4	-	-
	67	91.6	6.5	88.7	77.7	66.6	55.6	44.5	-	84.0	7.4	82.6	73.9	62.8	51.8	40.8	-
	62	83.1	6.5	83.1	83.1	82.4	71.4	60.3	49.2	76.5	7.4	76.5	76.5	76.1	65.1	54.1	43.0
	57	82.4	6.5	82.4	82.4	82.4	71.4	60.3	49.3	76.5	7.4	76.5	76.5	76.5	65.5	54.4	43.4
3375	72	101.5	6.6	78.2	66.2	54.2	42.2	-	-	93.0	7.4	74.7	62.7	50.8	38.8	-	-
	67	92.3	6.5	90.9	82.9	70.9	58.9	46.9	-	84.3	7.4	83.5	78.0	67.3	55.3	43.4	-
	62	83.7	6.5	83.7	83.7	83.4	71.4	59.4	47.4	76.7	7.4	76.7	76.7	76.5	64.6	52.6	40.6
	57	83.1	6.5	83.1	83.1	83.1	71.1	59.1	47.1	76.7	7.4	76.7	76.7	76.7	64.8	52.8	40.8
3750	72	102.3	6.6	83.3	70.4	57.5	44.5	-	-	93.3	7.4	79.9	67.0	54.1	41.2	-	-
	67	93.0	6.6	93.0	88.2	75.2	62.3	49.4	-	84.5	7.4	84.5	82.1	71.7	58.8	46.0	-
	62	84.3	6.5	84.3	84.3	84.3	71.4	58.5	45.5	76.9	7.4	76.9	76.9	76.9	64.0	51.1	38.2
	57	83.7	6.5	83.7	83.7	83.7	70.7	57.8	44.9	76.9	7.4	76.9	76.9	76.9	64.0	51.1	38.3

ZR090 (7.5 Ton) Cooling (Continued)

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)						Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)					
				Return Dry Bulb (°F)								Return Dry Bulb (°F)					
				90	85	80	75	70	65			90	85	80	75	70	65
		115°F										125°F					
1875	77	87.6	8.4	35.5	30.5	23.1	-	-	-	80.6	9.2	30.9	27.9	20.7	-	-	-
	72	79.7	8.4	49.9	42.5	35.1	27.8	-	-	73.0	9.2	47.0	39.8	32.5	25.3	-	-
	67	71.9	8.4	64.3	54.6	47.2	39.8	32.4	-	65.5	9.3	62.3	51.6	44.4	37.2	29.9	-
	62	65.7	8.3	65.7	65.7	55.8	48.4	41.1	33.7	60.2	9.3	60.2	60.2	51.0	43.8	36.6	29.4
2250	77	89.4	8.3	42.2	33.6	25.0	-	-	-	82.0	9.2	39.3	30.9	22.4	-	-	-
	72	81.4	8.3	55.2	46.7	38.1	29.5	-	-	74.3	9.2	52.1	43.7	35.2	26.7	-	-
	67	73.4	8.4	68.3	59.7	51.1	42.6	34.0	-	66.6	9.3	64.9	56.5	48.0	39.5	31.1	-
	62	67.1	8.3	67.1	67.1	60.5	51.9	43.3	34.7	61.2	9.2	61.2	61.2	55.2	46.7	38.3	29.8
	57	67.8	8.3	67.8	67.8	61.1	52.5	43.9	35.4	62.5	9.2	62.5	62.5	56.1	47.7	39.2	30.7
2625	77	91.2	8.3	48.9	36.8	27.0	-	-	-	83.3	9.2	47.7	33.8	24.1	-	-	-
	72	83.1	8.3	60.6	50.8	41.0	31.2	-	-	75.5	9.2	57.3	47.6	37.9	28.2	-	-
	67	74.9	8.3	72.3	64.9	55.1	45.3	35.5	-	67.7	9.2	67.6	61.3	51.6	41.9	32.2	-
	62	68.5	8.3	68.5	68.5	65.2	55.4	45.6	35.8	62.2	9.2	62.2	62.2	59.4	49.7	40.0	30.2
	57	69.2	8.3	69.2	69.2	65.8	56.0	46.3	36.5	63.6	9.2	63.6	63.6	60.4	50.7	40.9	31.2
3000	77	93.1	8.3	55.5	39.9	28.9	-	-	-	84.7	9.2	56.1	36.7	25.8	-	-	-
	72	84.7	8.3	66.0	55.0	44.0	33.0	-	-	76.7	9.2	62.4	51.5	40.5	29.6	-	-
	67	76.4	8.3	76.4	70.0	59.1	48.1	37.1	-	68.8	9.2	68.8	66.2	55.3	44.3	33.4	-
	62	69.8	8.3	69.8	69.8	69.8	58.8	47.9	36.9	63.2	9.2	63.2	63.2	63.2	52.6	41.6	30.7
	57	70.6	8.3	70.6	70.6	70.6	59.6	48.6	37.6	64.6	9.2	64.6	64.6	64.6	53.6	42.7	31.7
3375	72	84.5	8.3	71.2	59.3	47.4	35.5	-	-	76.0	9.2	67.8	55.9	44.0	32.1	-	-
	67	76.2	8.3	76.2	73.0	63.6	51.7	39.8	-	68.1	9.2	68.1	68.1	60.0	48.1	36.2	-
	62	69.6	8.3	69.6	69.6	69.6	57.7	45.8	33.9	62.6	9.2	62.6	62.6	62.6	50.9	39.0	27.1
	57	70.4	8.3	70.4	70.4	70.4	58.4	46.5	34.6	64.0	9.1	64.0	64.0	64.0	52.1	40.3	28.4
3750	72	84.3	8.3	76.5	63.7	50.8	38.0	-	-	75.3	9.1	73.1	60.3	47.5	34.7	-	-
	67	76.0	8.3	76.0	76.0	68.2	55.4	42.5	-	67.5	9.2	67.5	67.5	64.7	51.9	39.1	-
	62	69.5	8.3	69.5	69.5	69.5	56.6	43.8	30.9	62.0	9.2	62.0	62.0	62.0	49.2	36.4	23.6
	57	70.2	8.2	70.2	70.2	70.2	57.3	44.5	31.6	63.4	9.1	63.4	63.4	63.4	50.6	37.8	25.0

1. These capacities are gross ratings. For net capacity, deduct air blower motor, MBh = 3.415 x kW. Refer to the appropriate Blower Performance Table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

ZR090 (7.5 Ton) Reheat

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)						Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)					
				Return Dry Bulb (°F)								Return Dry Bulb (°F)					
				90	85	80	75	70	65			90	85	80	75	70	65
		35°F								45°F							
1875	77	57.4	4.6	-	-	-	-	-	-	58.7	4.9	-	-	-	-	-	-
	72	54.9	4.4	7.7	6.3	4.9	3.5	-	-	54.6	4.7	5.8	4.5	3.2	1.9	-	-
	67	52.4	4.3	14.9	13.5	12.1	10.7	9.3	-	50.5	4.5	13.7	12.4	11.1	9.9	8.6	-
	62	48.7	4.1	21.7	20.3	18.9	17.5	16.1	14.7	46.6	4.3	21.9	20.7	19.4	18.1	16.8	15.5
2250	77	62.8	4.5	-	-	-	-	-	-	62.7	4.8	-	-	-	-	-	-
	72	60.0	4.4	11.2	9.1	7.0	4.9	-	-	58.3	4.6	8.3	6.4	4.6	2.7	-	-
	67	57.2	4.2	22.2	20.1	18.0	15.9	13.8	-	53.9	4.4	19.6	17.7	15.9	14.0	12.1	-
	62	53.0	4.0	32.6	30.5	28.4	26.3	24.2	22.1	49.8	4.2	31.3	29.4	27.6	25.7	23.8	22.0
2625	57	49.6	4.0	37.1	35.0	32.9	30.8	28.7	26.6	47.9	4.2	36.2	34.3	32.5	30.6	28.8	26.9
	77	68.1	4.5	-	-	-	-	-	-	66.6	4.8	-	-	-	-	-	-
	72	65.0	4.3	14.8	12.0	9.2	6.4	-	-	62.0	4.6	10.8	8.4	5.9	3.5	-	-
	67	61.9	4.2	29.5	26.7	23.9	21.1	18.3	-	57.3	4.4	25.4	23.0	20.6	18.1	15.7	-
3000	62	57.4	4.0	43.6	40.8	38.0	35.2	32.4	29.6	53.0	4.2	40.6	38.2	35.8	33.3	30.9	28.5
	57	53.7	3.9	47.5	46.4	44.0	41.2	38.4	35.6	50.9	4.1	45.1	44.1	42.1	39.7	37.3	34.8
	77	73.4	4.5	-	-	-	-	-	-	70.6	4.8	-	-	-	-	-	-
	72	70.0	4.3	18.4	14.9	11.4	7.9	-	-	65.7	4.6	13.3	10.3	7.3	4.3	-	-
3375	67	66.6	4.2	36.8	33.3	29.8	26.3	22.8	-	60.8	4.4	31.3	28.3	25.3	22.3	19.3	-
	62	61.8	4.0	54.5	51.0	47.5	44.0	40.5	37.0	56.1	4.2	50.0	47.0	44.0	40.9	37.9	34.9
	57	57.8	3.9	57.8	57.8	55.1	51.6	48.1	44.6	54.0	4.1	54.0	54.0	51.8	48.8	45.8	42.8
	72	71.8	4.3	18.9	15.5	12.1	8.6	-	-	67.4	4.6	14.3	11.1	7.9	4.7	-	-
3750	67	68.3	4.2	37.5	34.0	30.6	27.2	23.8	-	62.3	4.4	33.7	30.5	27.3	24.1	20.9	-
	62	63.3	4.0	58.3	53.2	48.3	44.9	41.4	38.0	57.6	4.2	53.8	50.6	47.4	44.2	41.0	37.8
	57	59.3	3.9	59.3	59.3	57.9	54.5	51.1	47.6	55.3	4.1	55.3	55.3	54.3	51.1	47.9	44.7
	72	73.5	4.3	19.4	16.1	12.7	9.4	-	-	69.1	4.6	15.2	11.8	8.4	5.1	-	-
3000	67	69.9	4.2	38.2	34.8	31.4	28.1	24.7	-	63.9	4.4	36.0	32.6	29.3	25.9	22.5	-
	62	64.9	4.0	62.1	55.3	49.1	45.7	42.4	39.0	59.0	4.2	57.6	54.3	50.9	47.5	44.1	40.7
	57	60.7	3.9	60.7	60.7	60.7	57.4	54.0	50.6	56.7	4.1	56.7	56.7	56.7	53.3	50.0	46.6
			55°F								65°F						
1875	77	59.9	5.1	-	-	-	-	-	-	57.9	5.4	-	-	-	-	-	-
	72	54.2	4.9	3.9	2.7	1.6	-	-	-	51.6	5.2	1.5	-	-	-	-	-
	67	48.5	4.7	12.6	11.4	10.2	9.0	7.9	-	45.3	5.0	11.0	10.0	9.0	7.9	6.9	-
	62	44.6	4.5	22.2	21.0	19.9	18.7	17.5	16.4	42.1	4.8	22.4	21.4	20.4	19.3	18.3	17.3
2250	77	62.6	5.1	-	-	-	-	-	-	59.7	5.4	-	-	-	-	-	-
	72	56.6	4.9	5.4	3.7	2.1	-	-	-	53.2	5.2	2.2	-	-	-	-	-
	67	50.7	4.7	17.0	15.4	13.7	12.1	10.5	-	46.6	4.9	14.3	12.9	11.6	10.2	8.9	-
	62	46.6	4.5	29.9	28.3	26.7	25.1	23.5	21.8	43.4	4.7	28.8	27.5	26.1	24.7	23.4	22.0
2625	57	46.2	4.4	35.3	33.7	32.1	30.4	28.8	27.2	42.7	4.7	33.5	32.2	30.8	29.4	28.1	26.7
	77	65.2	5.1	-	-	-	-	-	-	61.4	5.4	-	-	-	-	-	-
	72	59.0	4.9	6.8	4.7	2.7	-	-	-	54.7	5.1	2.9	1.2	-	-	-	-
	67	52.8	4.6	21.4	19.3	17.3	15.2	13.1	-	48.0	4.9	17.6	15.9	14.2	12.5	10.8	-
3000	62	48.5	4.4	37.7	35.6	33.6	31.5	29.4	27.3	44.7	4.7	35.2	33.5	31.8	30.1	28.4	26.7
	57	48.1	4.4	42.7	41.9	40.3	38.2	36.1	34.1	43.9	4.6	39.3	38.7	37.6	35.9	34.2	32.5
	77	67.8	5.1	-	-	-	-	-	-	63.1	5.3	-	-	-	-	-	-
	72	61.4	4.8	8.2	5.7	3.2	-	-	-	56.2	5.1	3.6	1.5	-	-	-	-
3375	67	54.9	4.6	25.8	23.3	20.8	18.3	15.7	-	49.4	4.9	20.9	18.9	16.8	14.7	12.7	-
	62	50.5	4.4	45.4	42.9	40.4	37.9	35.4	32.8	45.9	4.7	41.7	39.6	37.6	35.5	33.5	31.4
	57	50.1	4.3	50.1	50.1	48.5	46.0	43.4	40.9	45.2	4.6	45.2	45.2	44.4	42.3	40.3	38.2
	72	63.0	4.8	9.6	6.6	3.7	-	-	-	57.9	5.1	4.1	1.5	-	-	-	-
3750	67	56.4	4.6	29.8	26.9	23.9	21.0	18.0	-	50.8	4.9	25.7	23.2	20.6	18.0	15.5	-
	62	51.8	4.4	49.3	48.0	46.5	43.6	40.6	37.6	47.3	4.7	45.2	44.1	43.0	40.4	37.9	35.3
	57	51.4	4.3	51.4	51.4	50.6	47.6	44.7	41.7	46.5	4.6	46.5	46.5	46.1	43.6	41.0	38.4
	72	64.6	4.8	11.0	7.6	4.2	-	-	-	59.6	5.1	4.6	1.5	-	-	-	-
3000	67	57.9	4.6	33.9	30.5	27.1	23.7	20.3	-	52.3	4.9	30.5	27.5	24.4	21.3	18.2	-
	62	53.2	4.4	53.2	53.2	52.7	49.3	45.9	42.5	48.7	4.7	48.7	48.7	48.4	45.3	42.2	39.2
	57	52.7	4.3	52.7	52.7	52.7	49.3	45.9	42.5	47.9	4.6	47.9	47.9	47.9	44.8	41.7	38.6

ZR090 (7.5 Ton) Reheat (Continued)

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)						Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)					
				Return Dry Bulb (°F)								Return Dry Bulb (°F)					
				90	85	80	75	70	65			90	85	80	75	70	65
		75°F								85°F							
1875	77	56.0	5.7	-	-	-	-	-	-	54.0	6.0	-	-	-	-	-	-
	72	49.0	5.5	-	-	-	-	-	-	46.3	5.8	-	-	-	-	-	-
	67	42.0	5.2	9.4	8.6	7.7	6.8	6.0	-	38.7	5.5	7.8	7.1	6.4	5.8	5.1	-
	62	39.6	5.0	22.6	21.7	20.9	20.0	19.1	18.3	37.2	5.3	22.7	22.0	21.3	20.7	20.0	19.3
2250	77	56.8	5.7	-	-	-	-	-	-	53.9	6.0	-	-	-	-	-	-
	72	49.7	5.5	-	-	-	-	-	-	46.2	5.7	-	-	-	-	-	-
	67	42.6	5.2	11.6	10.5	9.4	8.3	7.2	-	38.6	5.5	8.9	8.1	7.3	6.4	5.6	-
	62	40.2	5.0	27.7	26.6	25.5	24.4	23.3	22.2	37.0	5.3	26.5	25.7	24.9	24.0	23.2	22.4
	57	39.2	4.9	31.7	30.6	29.5	28.4	27.3	26.2	35.6	5.2	30.0	29.1	28.3	27.4	26.6	25.8
2625	77	57.6	5.7	-	-	-	-	-	-	53.8	5.9	-	-	-	-	-	-
	72	50.4	5.4	-	-	-	-	-	-	46.1	5.7	-	-	-	-	-	-
	67	43.2	5.2	13.8	12.5	11.1	9.8	8.4	-	38.4	5.5	10.0	9.0	8.1	7.1	6.1	-
	62	40.8	5.0	32.8	31.5	30.1	28.8	27.4	26.1	36.9	5.3	30.4	29.4	28.4	27.4	26.4	25.5
	57	39.7	4.9	36.0	35.5	34.9	33.6	32.2	30.9	35.5	5.2	32.7	32.2	32.2	31.2	30.3	29.3
3000	77	58.4	5.6	-	-	-	-	-	-	53.6	5.9	-	-	-	-	-	-
	72	51.1	5.4	-	-	-	-	-	-	45.9	5.7	-	-	-	-	-	-
	67	43.8	5.2	16.0	14.4	12.8	11.2	9.7	-	38.2	5.4	11.1	10.0	8.9	7.7	6.6	-
	62	41.4	5.0	37.9	36.3	34.7	33.2	31.6	30.0	36.8	5.3	34.2	33.0	31.9	30.8	29.7	28.5
	57	40.3	4.9	40.3	40.3	40.3	38.7	37.1	35.5	35.4	5.2	35.4	35.4	35.4	35.0	33.9	32.8
3375	72	52.8	5.4	-	-	-	-	-	-	47.7	5.7	-	-	-	-	-	-
	67	45.3	5.2	21.6	19.4	17.3	15.1	12.9	-	39.7	5.4	17.5	15.7	13.9	12.2	10.4	-
	62	42.8	5.0	41.0	40.2	39.4	37.3	35.1	32.9	38.2	5.2	36.9	36.3	35.9	34.1	32.4	30.6
	57	41.6	4.9	41.6	41.6	41.6	39.5	37.3	35.1	36.7	5.2	36.7	36.7	36.7	35.4	33.6	31.8
3750	72	54.5	5.4	-	-	-	-	-	-	49.5	5.6	-	-	-	-	-	-
	67	46.8	5.1	27.2	24.4	21.7	18.9	16.2	-	41.2	5.4	23.9	21.4	19.0	16.6	14.1	-
	62	44.1	4.9	44.1	44.1	44.1	41.4	38.6	35.9	39.6	5.2	39.6	39.6	39.6	37.5	35.0	32.6
	57	43.0	4.9	43.0	43.0	43.0	40.2	37.5	34.7	38.1	5.1	38.1	38.1	38.1	35.7	33.3	30.8

1. These capacities are gross ratings. For net capacity, deduct air blower motor, MBh = 3.415 x kW. Refer to the appropriate Blower Performance Table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

ZR102 (8.5 Ton) Cooling

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)						Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)					
				Return Dry Bulb (°F)								Return Dry Bulb (°F)					
				90	85	80	75	70	65			90	85	80	75	70	65
		75°F								85°F							
2125	77	121.9	6.4	54.3	43.2	32.9	-	-	-	118.7	7.4	52.3	42.1	32.0	-	-	-
	72	118.1	6.4	71.1	60.8	50.5	40.2	-	-	112.8	7.3	69.0	58.8	48.6	38.5	-	-
	67	114.3	6.3	87.8	78.4	68.1	57.8	47.5	-	106.9	7.2	85.6	75.4	65.3	55.1	45.0	-
	62	105.8	6.2	105.8	98.7	83.7	73.4	63.1	52.8	98.9	7.0	98.9	95.3	80.2	70.1	59.9	49.8
2550	77	126.3	6.5	59.7	47.9	36.1	-	-	-	122.9	7.4	58.7	46.9	35.2	-	-	-
	72	122.4	6.4	79.1	67.3	55.5	43.7	-	-	116.8	7.3	77.0	65.3	53.5	41.8	-	-
	67	118.4	6.4	98.4	86.6	74.8	63.0	51.2	-	110.7	7.2	95.3	83.6	71.9	60.1	48.4	-
	62	109.7	6.2	109.7	104.9	92.0	80.2	68.4	56.6	102.4	7.1	102.4	100.1	88.3	76.6	64.9	53.1
	57	107.0	6.3	107.0	107.0	97.1	85.3	73.5	61.7	99.6	7.1	99.6	99.6	90.0	78.3	66.5	54.8
2975	77	130.7	6.5	65.1	52.7	39.4	-	-	-	127.2	7.4	65.0	51.7	38.4	-	-	-
	72	126.6	6.4	87.0	73.7	60.5	47.2	-	-	120.9	7.3	85.0	71.7	58.4	45.1	-	-
	67	122.6	6.4	108.9	94.8	81.5	68.2	54.9	-	114.6	7.2	105.1	91.7	78.4	65.1	51.8	-
	62	113.5	6.3	113.5	111.1	100.2	86.9	73.6	60.3	106.0	7.1	106.0	104.8	96.4	83.1	69.8	56.5
	57	110.8	6.3	110.8	110.8	105.8	92.5	79.2	65.9	103.0	7.2	103.0	103.0	98.2	84.9	71.6	58.3
3400	77	135.1	6.5	70.6	57.4	42.6	-	-	-	131.4	7.4	71.4	56.5	41.7	-	-	-
	72	130.9	6.5	95.0	80.2	65.4	50.6	-	-	124.9	7.3	93.1	78.2	63.3	48.4	-	-
	67	126.7	6.4	119.5	103.0	88.2	73.4	58.6	-	118.4	7.2	114.8	99.9	85.0	70.1	55.2	-
	62	117.3	6.3	117.3	117.3	108.5	93.7	78.9	64.1	109.5	7.1	109.5	109.5	104.5	89.6	74.7	59.8
	57	114.5	6.4	114.5	114.5	114.5	99.7	84.9	70.1	106.5	7.2	106.5	106.5	106.5	91.6	76.7	61.8
3825	72	130.9	6.5	99.4	84.1	68.8	53.5	-	-	125.4	7.4	98.3	82.6	66.9	51.2	-	-
	67	126.8	6.4	123.1	108.1	92.8	77.5	62.2	-	118.8	7.3	117.0	105.4	89.7	74.0	58.4	-
	62	117.4	6.3	117.4	117.4	112.9	97.6	82.3	67.0	109.9	7.1	109.9	109.9	107.4	91.7	76.0	60.3
	57	114.5	6.4	114.5	114.5	114.5	99.2	83.9	68.6	106.9	7.2	106.9	106.9	106.9	91.2	75.5	59.8
4250	72	131.0	6.5	103.7	87.9	72.1	56.3	-	-	125.9	7.4	103.4	86.9	70.4	53.9	-	-
	67	126.8	6.5	126.8	113.1	97.3	81.5	65.7	-	119.3	7.3	119.3	111.0	94.5	78.0	61.5	-
	62	117.4	6.3	117.4	117.4	117.4	101.6	85.8	70.0	110.4	7.2	110.4	110.4	110.4	93.8	77.3	60.8
	57	114.6	6.4	114.6	114.6	114.6	98.8	83.0	67.2	107.3	7.2	107.3	107.3	107.3	90.7	74.2	57.7
		95°F								105°F							
2125	77	115.5	8.3	50.3	41.1	31.1	-	-	-	108.8	9.3	44.7	38.2	28.2	-	-	-
	72	107.5	8.1	66.9	56.8	46.8	36.8	-	-	100.5	9.1	63.5	53.6	43.7	33.8	-	-
	67	99.5	8.0	83.4	72.5	62.5	52.5	42.4	-	92.1	9.0	82.4	69.0	59.1	49.2	39.3	-
	62	91.9	7.9	91.9	91.9	76.8	66.8	56.7	46.7	85.2	8.9	85.2	85.2	70.3	60.4	50.5	40.6
2550	77	119.5	8.3	57.6	46.0	34.3	-	-	-	112.4	9.3	54.4	42.9	31.3	-	-	-
	72	111.3	8.2	75.0	63.3	51.6	39.9	-	-	103.8	9.2	71.5	60.0	48.4	36.8	-	-
	67	103.0	8.0	92.3	80.6	68.9	57.2	45.6	-	95.1	9.0	88.6	77.1	65.5	53.9	42.3	-
	62	95.2	7.9	95.2	95.2	84.7	73.0	61.3	49.7	88.0	8.9	88.0	88.0	77.9	66.3	54.7	43.1
	57	92.1	7.9	92.1	92.1	82.9	71.2	59.6	47.9	85.8	9.0	85.8	85.8	76.4	64.9	53.3	41.7
2975	77	123.6	8.3	64.9	50.8	37.5	-	-	-	115.9	9.4	64.2	47.5	34.3	-	-	-
	72	115.1	8.2	83.1	69.7	56.4	43.1	-	-	107.0	9.2	79.5	66.3	53.1	39.8	-	-
	67	106.5	8.0	101.2	88.7	75.3	62.0	48.7	-	98.1	9.0	94.9	85.1	71.8	58.6	45.4	-
	62	98.5	7.9	98.5	98.5	92.6	79.3	65.9	52.6	90.8	8.9	90.8	90.8	85.4	72.2	58.9	45.7
	57	95.2	8.0	95.2	95.2	90.7	77.3	64.0	50.7	88.5	9.0	88.5	88.5	83.8	70.6	57.4	44.1
3400	77	127.7	8.4	72.3	55.6	40.7	-	-	-	119.5	9.4	74.0	52.2	37.3	-	-	-
	72	118.9	8.2	91.2	76.2	61.2	46.3	-	-	110.3	9.2	87.6	72.7	57.8	42.9	-	-
	67	110.1	8.1	110.1	96.7	81.8	66.8	51.8	-	101.2	9.1	101.2	93.1	78.2	63.3	48.4	-
	62	101.7	8.0	101.7	101.7	100.5	85.5	70.6	55.6	93.6	8.9	93.6	93.6	93.0	78.1	63.2	48.3
	57	98.4	8.0	98.4	98.4	98.4	83.4	68.5	53.5	91.2	9.0	91.2	91.2	91.2	76.4	61.5	46.6
3825	72	119.8	8.3	97.1	81.0	64.9	48.8	-	-	111.2	9.3	93.4	77.4	61.3	45.3	-	-
	67	110.9	8.1	110.9	102.8	86.7	70.6	54.5	-	102.0	9.1	102.0	97.2	83.0	67.0	51.0	-
	62	102.5	8.0	102.5	102.5	101.9	85.8	69.7	53.6	94.3	9.0	94.3	94.3	94.0	78.0	61.9	45.9
	57	99.2	8.0	99.2	99.2	99.2	83.1	67.0	50.9	92.0	9.1	92.0	92.0	92.0	75.9	59.9	43.9
4250	72	120.8	8.3	103.1	85.9	68.6	51.4	-	-	112.1	9.3	99.2	82.1	64.9	47.7	-	-
	67	111.8	8.1	111.8	108.9	91.7	74.4	57.2	-	102.8	9.1	102.8	101.3	87.8	70.7	53.5	-
	62	103.3	8.0	103.3	103.3	103.3	86.1	68.9	51.6	95.1	9.0	95.1	95.1	95.1	77.9	60.7	43.5
	57	99.9	8.1	99.9	99.9	99.9	82.7	65.5	48.3	92.7	9.1	92.7	92.7	92.7	75.5	58.4	41.2

ZR102 (8.5 Ton) Cooling (Continued)

Air on Evaporator Coil		Temperature of Air on Condenser Coil																	
CFM		WB (°F)	Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)						Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)						
					Return Dry Bulb (°F)								Return Dry Bulb (°F)						
					90	85	80	75	70	65			90	85	80	75	70	65	
		115°F									125°F								
2125	77	102.2	10.3	39.0	35.2	25.4	-	-	-	95.6	11.4	36.2	31.0	22.6	-	-	-		
	72	93.5	10.1	60.2	50.4	40.6	30.8	-	-	86.5	11.1	56.8	47.1	37.5	27.8	-	-		
	67	84.8	10.0	81.3	65.5	55.8	46.0	36.2	-	77.4	10.9	77.4	62.1	52.4	42.7	33.1	-		
	62	78.5	9.9	78.5	78.5	63.8	54.0	44.2	34.4	71.8	10.8	71.8	71.8	57.3	47.7	38.0	28.3		
2550	77	105.2	10.4	51.2	39.7	28.3	-	-	-	98.0	11.4	49.9	36.6	25.3	-	-	-		
	72	96.2	10.2	68.1	56.6	45.2	33.7	-	-	88.7	11.2	64.7	53.3	41.9	30.6	-	-		
	67	87.3	10.0	85.0	73.5	62.0	50.6	39.1	-	79.4	11.0	79.4	70.0	58.6	47.3	35.9	-		
	62	80.8	9.9	80.8	80.8	71.0	59.6	48.1	36.6	73.6	10.9	73.6	73.6	64.2	52.8	41.5	30.1		
	57	79.6	10.0	79.6	79.6	69.9	58.5	47.0	35.5	73.3	11.0	73.3	73.3	63.4	52.1	40.7	29.3		
2975	77	108.2	10.4	63.4	44.3	31.1	-	-	-	100.5	11.4	63.7	42.3	28.0	-	-	-		
	72	99.0	10.2	76.0	62.9	49.7	36.6	-	-	90.9	11.2	72.5	59.5	46.4	33.4	-	-		
	67	89.8	10.0	88.6	81.5	68.3	55.2	42.1	-	81.4	11.0	81.4	77.9	64.8	51.8	38.7	-		
	62	83.1	9.9	83.1	83.1	78.2	65.1	51.9	38.8	75.4	10.9	75.4	75.4	71.0	58.0	44.9	31.9		
	57	81.8	10.0	81.8	81.8	77.0	63.9	50.7	37.6	75.1	11.0	75.1	75.1	70.2	57.1	44.1	31.0		
3400	77	111.2	10.4	75.7	48.8	34.0	-	-	-	102.9	11.4	77.4	47.9	30.7	-	-	-		
	72	101.7	10.2	84.0	69.1	54.3	39.5	-	-	93.1	11.2	80.4	65.6	50.9	36.1	-	-		
	67	92.3	10.0	92.3	89.5	74.6	59.8	45.0	-	83.3	11.0	83.3	83.3	71.1	56.3	41.6	-		
	62	85.4	9.9	85.4	85.4	85.4	70.6	55.8	41.0	77.3	10.9	77.3	77.3	77.3	63.1	48.4	33.6		
	57	84.1	10.0	84.1	84.1	84.1	69.3	54.5	39.6	77.0	11.0	77.0	77.0	77.0	62.2	47.5	32.7		
3825	72	102.6	10.3	89.7	73.7	57.7	41.8	-	-	93.9	11.3	86.0	70.1	54.1	38.2	-	-		
	67	93.0	10.1	93.0	91.6	79.3	63.3	47.4	-	84.0	11.1	84.0	84.0	75.6	59.7	43.8	-		
	62	86.1	10.0	86.1	86.1	86.1	70.1	54.2	38.2	77.9	11.0	77.9	77.9	77.9	62.3	46.4	30.5		
	57	84.8	10.1	84.8	84.8	84.8	68.8	52.8	36.9	77.6	11.1	77.6	77.6	77.6	61.7	45.8	29.8		
4250	72	103.4	10.3	95.4	78.3	61.1	44.0	-	-	94.7	11.4	91.6	74.5	57.4	40.3	-	-		
	67	93.8	10.1	93.8	93.8	84.0	66.9	49.7	-	84.7	11.1	84.7	84.7	80.2	63.1	46.0	-		
	62	86.8	10.0	86.8	86.8	86.8	69.7	52.6	35.4	78.6	11.1	78.6	78.6	78.6	61.5	44.4	27.3		
	57	85.5	10.1	85.5	85.5	85.5	68.3	51.2	34.1	78.2	11.2	78.2	78.2	78.2	61.2	44.1	27.0		

1. These capacities are gross ratings. For net capacity, deduct air blower motor, MBh = 3.415 x kW. Refer to the appropriate Blower Performance Table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

ZR102 (8.5 Ton) Reheat

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM		WB (°F)	Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)					Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)					
					Return Dry Bulb (°F)							Return Dry Bulb (°F)					
					85	80	75	70	65			85	80	75	70	65	
		35°F								45°F							
2125	72	72.0	5.0	8.5	7.1	5.7	-	-	62.7	5.5	3.5	2.4	1.3	-	-		
	67	74.0	4.9	11.6	10.2	8.8	7.3	-	61.5	5.3	9.5	8.4	7.2	6.1	-		
	62	61.6	5.1	21.8	20.4	18.9	17.5	16.1	53.9	5.3	18.2	17.1	16.0	14.9	13.8		
2550	72	73.3	4.9	13.4	11.3	9.2	-	-	64.8	5.5	5.6	3.8	2.1	-	-		
	67	75.3	4.8	17.9	15.8	13.7	11.6	-	63.6	5.3	14.9	13.2	11.4	9.7	-		
	62	62.6	5.0	33.6	31.5	29.4	27.3	25.2	55.8	5.2	28.7	26.9	25.2	23.4	21.7		
	57	58.2	4.7	37.4	35.3	33.2	31.2	29.1	50.7	5.0	33.0	31.2	29.5	27.7	26.0		
2975	72	74.5	4.8	18.2	15.5	12.7	-	-	66.9	5.4	7.6	5.2	2.8	-	-		
	67	76.7	4.7	24.1	21.4	18.7	15.9	-	65.7	5.2	20.4	18.0	15.6	13.2	-		
	62	63.6	5.0	45.3	42.6	39.9	37.1	34.4	57.6	5.2	39.2	36.8	34.4	32.0	29.6		
	57	59.2	4.7	48.8	47.8	45.0	42.3	39.6	52.4	5.0	43.5	42.6	40.2	37.8	35.4		
3400	72	75.7	4.7	23.0	19.6	16.2	-	-	69.1	5.3	9.7	6.6	3.6	-	-		
	67	78.1	4.6	30.4	27.0	23.6	20.2	-	67.8	5.1	25.8	22.8	19.7	16.7	-		
	62	64.7	4.9	57.1	53.7	50.4	47.0	43.6	59.5	5.1	49.7	46.6	43.6	40.5	37.5		
	57	60.2	4.6	60.2	60.2	56.8	53.5	50.1	54.0	4.9	54.0	54.0	51.0	47.9	44.9		
3825	72	73.9	4.7	25.8	22.4	18.9	-	-	70.1	5.3	10.9	7.5	4.2	-	-		
	67	76.5	4.6	33.7	30.2	26.8	23.3	-	68.7	5.1	29.2	25.8	22.5	19.1	-		
	62	63.0	4.9	62.0	60.1	56.7	53.2	49.8	60.3	5.1	55.4	52.9	49.5	46.1	42.8		
	57	58.8	4.6	58.8	58.8	55.4	51.9	48.4	54.8	4.9	54.8	54.8	51.4	48.1	44.7		
4250	72	72.0	4.7	28.7	25.1	21.6	-	-	71.0	5.3	12.1	8.4	4.7	-	-		
	67	75.0	4.6	37.0	33.5	29.9	26.4	-	69.7	5.1	32.5	28.9	25.2	21.5	-		
	62	61.4	4.9	61.4	61.4	61.4	59.5	55.9	61.2	5.1	61.2	59.1	55.4	51.7	48.0		
	57	57.4	4.6	57.4	57.4	53.9	50.4	46.8	55.6	4.9	55.6	55.6	51.9	48.2	44.5		
		55°F								65°F							
2125	72	53.3	6.1	-	-	-	-	-	48.0	6.2	-	-	-	-	-		
	67	49.0	5.8	7.3	6.5	5.7	4.9	-	42.2	6.1	4.4	4.0	3.5	3.1	-		
	62	46.3	5.4	14.6	13.9	13.1	12.3	11.5	39.1	5.8	9.5	9.1	8.6	8.2	7.7		
2550	72	56.3	6.0	-	-	-	-	-	53.6	6.1	-	-	-	-	-		
	67	51.8	5.7	11.9	10.5	9.1	7.7	-	47.0	6.1	9.1	8.0	6.9	5.8	-		
	62	49.0	5.4	23.8	22.4	21.0	19.6	18.1	43.5	5.7	20.2	19.1	18.0	16.9	15.8		
	57	43.2	5.3	28.6	27.1	25.7	24.3	22.9	36.3	5.7	22.6	21.5	20.4	19.3	18.2		
2975	72	59.4	6.0	-	-	-	-	-	59.2	6.1	-	-	-	-	-		
	67	54.6	5.7	16.6	14.5	12.5	10.4	-	51.7	6.0	13.7	12.0	10.2	8.5	-		
	62	51.6	5.4	33.0	31.0	28.9	26.8	24.8	47.8	5.7	30.9	29.1	27.4	25.7	23.9		
	57	45.5	5.3	38.2	37.5	35.4	33.4	31.3	39.8	5.6	33.0	32.4	30.7	28.9	27.2		
3400	72	62.4	6.0	-	-	-	-	-	64.8	6.1	-	-	-	-	-		
	67	57.4	5.7	21.3	18.5	15.8	13.1	-	56.5	6.0	18.3	15.9	13.6	11.2	-		
	62	54.3	5.3	42.2	39.5	36.8	34.1	31.4	52.2	5.7	41.6	39.2	36.8	34.4	32.0		
	57	47.9	5.2	47.9	47.9	45.2	42.4	39.7	43.3	5.6	43.3	43.3	41.0	38.6	36.2		
3825	72	66.2	5.9	-	-	-	-	-	67.4	6.0	-	-	-	-	-		
	67	60.9	5.6	24.7	21.4	18.1	14.9	-	58.8	6.0	22.2	19.2	16.3	13.3	-		
	62	57.6	5.3	48.8	45.6	42.3	39.0	35.8	54.4	5.6	47.7	45.5	42.6	39.6	36.6		
	57	50.8	5.2	50.8	50.8	47.5	44.3	41.0	45.2	5.6	45.2	45.2	42.2	39.3	36.3		
4250	72	70.1	5.9	-	-	-	-	-	70.0	6.0	-	-	-	-	-		
	67	64.5	5.6	28.1	24.2	20.4	16.6	-	61.1	5.9	26.0	22.5	19.0	15.4	-		
	62	60.9	5.3	55.5	51.6	47.8	44.0	40.2	56.5	5.6	53.8	51.9	48.3	44.8	41.2		
	57	53.7	5.2	53.7	53.7	49.9	46.1	42.3	47.1	5.5	47.1	47.1	43.5	40.0	36.4		

ZR102 (8.5 Ton) Reheat (Continued)

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM		WB (°F)	Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)					Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)					
					Return Dry Bulb (°F)							Return Dry Bulb (°F)					
					85	80	75	70	65			85	80	75	70	65	
		75°F								85°F							
2125	72	42.8	6.3	-	-	-	-	-	37.6	6.4	-	-	-	-	-		
	67	35.4	6.5	1.6	1.5	1.4	1.2	-	28.6	6.8	-	-	-	-	-		
	62	31.9	6.2	4.4	4.3	4.2	4.1	4.0	24.7	6.5	-	-	-	-	-		
2550	72	50.9	6.2	-	-	-	-	-	48.3	6.4	-	-	-	-	-		
	67	42.1	6.4	6.2	5.4	4.7	3.9	-	37.3	6.8	3.3	2.9	2.5	2.0	-		
	62	38.0	6.1	16.6	15.8	15.0	14.3	13.5	32.5	6.5	13.0	12.5	12.1	11.6	11.2		
	57	29.4	6.1	16.6	15.8	15.0	14.3	13.5	22.5	6.4	10.6	10.1	9.7	9.3	8.8		
2975	72	59.1	6.2	-	-	-	-	-	58.9	6.3	-	-	-	-	-		
	67	48.9	6.4	10.8	9.4	8.0	6.6	-	46.0	6.7	7.9	6.8	5.7	4.6	-		
	62	44.0	6.1	28.7	27.3	25.9	24.5	23.1	40.2	6.4	26.6	25.5	24.4	23.3	22.2		
	57	34.1	6.0	27.7	27.3	25.9	24.5	23.1	28.4	6.4	22.4	22.2	21.1	20.0	19.0		
3400	72	67.2	6.2	-	-	-	-	-	69.6	6.3	-	-	-	-	-		
	67	55.6	6.3	15.4	13.3	11.3	9.2	-	54.7	6.7	12.5	10.7	9.0	7.3	-		
	62	50.1	6.0	40.9	38.8	36.8	34.7	32.6	48.0	6.4	40.2	38.5	36.7	35.0	33.3		
	57	38.8	6.0	38.8	38.8	36.8	34.7	32.6	34.3	6.3	34.3	34.3	32.6	30.8	29.1		
3825	72	68.6	6.1	-	-	-	-	-	69.7	6.2	-	-	-	-	-		
	67	56.7	6.3	19.7	17.0	14.4	11.7	-	54.6	6.6	17.2	14.9	12.5	10.2	-		
	62	51.1	6.0	46.5	45.5	42.8	40.1	37.5	47.9	6.3	45.3	45.4	43.1	40.7	38.3		
	57	39.6	5.9	39.6	39.6	36.9	34.3	31.6	34.0	6.3	34.0	34.0	31.6	29.3	26.9		
4250	72	69.9	6.1	-	-	-	-	-	69.8	6.2	-	-	-	-	-		
	67	57.8	6.3	24.0	20.8	17.5	14.2	-	54.5	6.6	22.0	19.0	16.0	13.1	-		
	62	52.1	5.9	52.1	52.1	48.8	45.6	42.3	47.7	6.3	47.7	47.7	47.7	46.4	43.4		
	57	40.4	5.9	40.4	40.4	37.1	33.9	30.6	33.7	6.2	33.7	33.7	30.7	27.8	24.8		

1. These capacities are gross ratings. For net capacity, deduct air blower motor, MBh = 3.415 x kW. Refer to the appropriate Blower Performance Table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

ZR120 (10 Ton) Cooling

Air on Evaporator Coil		Temperature of Air on Condenser Coil																			
CFM	WB (°F)	Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)						Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)									
				Return Dry Bulb (°F)								Return Dry Bulb (°F)									
				90	85	80	75	70	65			90	85	80	75	70	65				
		75°F										85°F									
2500	77	137.8	7.3	67.5	55.5	43.9	-	-	-	132.5	8.2	62.6	51.3	40.0	-	-	-				
	72	131.8	7.1	85.5	73.9	62.3	50.6	-	-	125.8	8.1	80.7	69.5	58.2	46.9	-	-				
	67	125.8	7.0	103.5	92.3	80.6	69.0	57.4	-	119.1	8.0	98.9	87.6	76.4	65.1	53.9	-				
	62	113.9	6.9	113.9	112.8	97.5	85.8	74.2	62.6	108.5	7.9	108.5	107.0	91.1	79.8	68.6	57.3				
3000	77	143.9	7.4	73.5	60.4	47.3	-	-	-	138.1	8.3	69.4	56.5	43.6	-	-	-				
	72	137.6	7.2	93.3	80.2	67.1	54.0	-	-	131.1	8.2	89.1	76.3	63.4	50.5	-	-				
	67	131.3	7.0	113.1	100.0	86.9	73.8	60.7	-	124.1	8.0	108.9	96.0	83.1	70.2	57.4	-				
	62	118.9	6.9	118.9	118.2	105.1	92.0	78.9	65.8	113.1	8.0	113.1	112.1	99.2	86.3	73.4	60.5				
	57	114.8	6.9	114.8	114.8	108.3	95.2	82.2	69.1	110.6	7.9	110.6	110.6	102.2	89.3	76.4	63.5				
3500	77	150.0	7.4	79.5	65.3	50.8	-	-	-	143.7	8.3	76.2	61.7	47.1	-	-	-				
	72	143.4	7.2	101.1	86.5	72.0	57.4	-	-	136.4	8.2	97.6	83.0	68.5	54.0	-	-				
	67	136.9	7.1	122.7	107.7	93.2	78.6	64.0	-	129.1	8.1	119.0	104.4	89.9	75.4	60.9	-				
	62	123.9	7.0	123.9	123.6	112.7	98.1	83.5	69.0	117.7	8.0	117.7	117.1	107.2	92.7	78.2	63.7				
	57	119.6	7.0	119.6	119.6	116.2	101.6	87.0	72.5	115.1	8.0	115.1	115.1	110.5	96.0	81.5	67.0				
4000	77	156.1	7.4	85.5	70.2	54.2	-	-	-	149.3	8.4	83.0	66.8	50.7	-	-	-				
	72	149.3	7.3	108.9	92.8	76.8	60.8	-	-	141.7	8.2	106.0	89.8	73.7	57.5	-	-				
	67	142.5	7.1	132.2	115.4	99.4	83.4	67.4	-	134.1	8.1	129.0	112.8	96.7	80.5	64.4	-				
	62	129.0	7.0	129.0	129.0	120.2	104.2	88.2	72.2	122.2	8.0	122.2	122.2	115.3	99.2	83.0	66.8				
	57	124.5	7.0	124.5	124.5	124.0	108.0	91.9	75.9	119.6	8.0	119.6	119.6	118.9	102.7	86.5	70.4				
4500	72	151.7	7.3	116.7	99.1	81.6	64.0	-	-	143.8	8.2	113.4	95.8	78.1	60.5	-	-				
	67	144.8	7.1	139.7	123.1	105.6	88.0	70.5	-	136.2	8.1	133.6	120.2	102.5	84.9	67.2	-				
	62	131.1	7.0	131.1	131.1	126.7	109.2	91.6	74.1	124.1	8.0	124.1	124.1	120.6	103.0	85.3	67.6				
	57	126.6	7.0	126.6	126.6	126.3	108.8	91.2	73.7	121.4	8.0	121.4	121.4	121.0	103.4	85.7	68.1				
5000	72	154.2	7.3	124.5	105.4	86.4	67.3	-	-	146.0	8.3	120.9	101.7	82.6	63.4	-	-				
	67	147.2	7.2	147.2	130.9	111.8	92.7	73.6	-	138.2	8.1	138.2	127.5	108.3	89.2	70.0	-				
	62	133.3	7.1	133.3	133.3	133.3	114.2	95.1	76.0	125.9	8.1	125.9	125.9	125.9	106.8	87.6	68.5				
	57	128.6	7.1	128.6	128.6	128.6	109.6	90.5	71.4	123.2	8.0	123.2	123.2	123.2	104.1	84.9	65.7				
		95°F										105°F									
2500	77	127.3	9.2	57.6	47.1	36.2	-	-	-	117.5	10.5	52.8	44.2	33.5	-	-	-				
	72	119.8	9.1	75.9	65.0	54.1	43.3	-	-	110.8	10.4	72.3	61.6	50.9	40.3	-	-				
	67	112.4	9.0	94.3	83.0	72.1	61.2	50.3	-	104.0	10.3	91.8	79.1	68.4	57.7	47.0	-				
	62	103.2	9.0	103.2	101.2	84.7	73.8	62.9	52.0	96.1	10.2	96.1	95.1	80.3	69.6	58.9	48.2				
3000	77	132.4	9.2	65.2	52.5	39.8	-	-	-	122.4	10.5	61.8	49.3	36.9	-	-	-				
	72	124.6	9.1	85.0	72.3	59.6	46.9	-	-	115.4	10.4	81.0	68.5	56.1	43.7	-	-				
	67	116.9	9.0	104.8	92.1	79.4	66.7	54.0	-	108.3	10.3	100.2	87.8	75.3	62.9	50.5	-				
	62	107.3	9.0	107.3	106.0	93.3	80.6	67.9	55.2	100.1	10.2	100.1	99.4	88.5	76.0	63.6	51.2				
	57	106.5	8.9	106.5	106.5	96.1	83.4	70.7	58.0	99.2	10.2	99.2	99.2	89.5	77.0	64.6	52.2				
3500	77	137.4	9.2	72.9	58.0	43.5	-	-	-	127.3	10.5	70.7	54.5	40.3	-	-	-				
	72	129.4	9.2	94.1	79.6	65.1	50.6	-	-	120.0	10.4	89.6	75.5	61.3	47.2	-	-				
	67	121.3	9.1	115.3	101.2	86.7	72.2	57.7	-	112.6	10.3	108.6	96.5	82.3	68.1	54.0	-				
	62	111.4	9.0	111.4	110.7	101.8	87.3	72.8	58.3	104.0	10.2	104.0	103.7	96.6	82.5	68.3	54.2				
	57	110.6	9.0	110.6	110.6	104.9	90.4	75.9	61.4	103.2	10.2	103.2	103.2	97.7	83.6	69.4	55.3				
4000	77	142.5	9.3	80.5	63.5	47.2	-	-	-	132.1	10.5	79.6	59.6	43.7	-	-	-				
	72	134.1	9.2	103.1	86.8	70.5	54.3	-	-	124.6	10.4	98.3	82.4	66.5	50.6	-	-				
	67	125.8	9.1	125.8	110.2	93.9	77.6	61.3	-	117.0	10.3	117.0	105.2	89.3	73.4	57.5	-				
	62	115.5	9.0	115.5	115.5	110.4	94.1	77.8	61.5	108.0	10.2	108.0	108.0	104.8	88.9	73.0	57.1				
	57	114.7	9.0	114.7	114.7	113.7	97.4	81.1	64.8	107.1	10.2	107.1	107.1	106.0	90.1	74.2	58.3				
4500	72	136.0	9.2	110.2	92.4	74.7	56.9	-	-	126.1	10.4	105.2	87.8	70.5	53.1	-	-				
	67	127.5	9.1	127.5	117.2	99.4	81.7	63.9	-	118.4	10.3	118.4	111.2	94.6	77.2	59.9	-				
	62	117.1	9.0	117.1	117.1	114.5	96.7	79.0	61.2	109.4	10.2	109.4	109.4	107.8	90.4	73.1	55.7				
	57	116.2	9.0	116.2	116.2	115.8	98.0	80.2	62.5	108.4	10.2	108.4	108.4	107.9	90.5	73.2	55.8				
5000	72	137.8	9.2	117.3	98.0	78.8	59.5	-	-	127.6	10.4	112.0	93.2	74.4	55.6	-	-				
	67	129.2	9.1	129.2	124.2	104.9	85.7	66.4	-	119.8	10.3	119.8	117.3	99.9	81.1	62.2	-				
	62	118.6	9.0	118.6	118.6	118.6	99.4	80.2	60.9	110.7	10.2	110.7	110.7	110.7	91.9	73.1	54.3				
	57	117.8	9.0	117.8	117.8	117.8	98.6	79.3	60.1	109.8	10.2	109.8	109.8	109.8	91.0	72.1	53.3				

ZR120 (10 Ton) Cooling (Continued)

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)						Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)					
				Return Dry Bulb (°F)								Return Dry Bulb (°F)					
				90	85	80	75	70	65			90	85	80	75	70	65
		115°F										125°F					
2500	77	107.7	11.9	48.1	41.3	30.8	-	-	-	98.0	13.2	43.3	38.4	28.1	-	-	-
	72	101.7	11.7	68.7	58.2	47.7	37.3	-	-	92.6	13.0	65.1	54.8	44.5	34.3	-	-
	67	95.6	11.6	89.3	75.1	64.6	54.2	43.7	-	87.3	12.8	86.8	71.2	60.9	50.6	40.4	-
	62	89.0	11.4	89.0	89.0	75.9	65.4	54.9	44.4	81.8	12.6	81.8	81.8	71.4	61.2	50.9	40.6
3000	77	112.4	11.8	58.3	46.1	34.0	-	-	-	102.5	13.1	54.8	42.9	31.1	-	-	-
	72	106.1	11.7	76.9	64.8	52.6	40.5	-	-	96.9	13.0	72.9	61.0	49.2	37.3	-	-
	67	99.8	11.5	95.6	83.4	71.3	59.1	47.0	-	91.3	12.8	91.0	79.1	67.2	55.4	43.5	-
	62	92.8	11.3	92.8	92.8	83.7	71.5	59.4	47.2	85.6	12.5	85.6	85.6	78.9	67.0	55.1	43.2
	57	91.9	11.4	91.9	91.9	82.8	70.7	58.5	46.4	84.6	12.7	84.6	84.6	76.2	64.3	52.4	40.5
3500	77	117.1	11.8	68.5	51.0	37.2	-	-	-	107.0	13.1	66.3	47.5	34.0	-	-	-
	72	110.6	11.7	85.2	71.4	57.5	43.7	-	-	101.2	12.9	80.8	67.3	53.8	40.3	-	-
	67	104.0	11.5	101.9	91.8	77.9	64.1	50.3	-	95.3	12.7	95.2	87.1	73.6	60.1	46.6	-
	62	96.7	11.3	96.7	96.7	91.5	77.6	63.8	50.0	89.4	12.5	89.4	89.4	86.3	72.8	59.3	45.8
	57	95.7	11.4	95.7	95.7	90.5	76.7	62.9	49.1	88.3	12.6	88.3	88.3	83.4	69.9	56.4	42.9
4000	77	121.8	11.8	78.7	55.8	40.3	-	-	-	111.5	13.0	77.8	52.0	36.9	-	-	-
	72	115.0	11.6	93.4	77.9	62.5	47.0	-	-	105.4	12.8	88.6	73.5	58.4	43.3	-	-
	67	108.2	11.5	108.2	100.1	84.6	69.1	53.6	-	99.3	12.7	99.3	95.0	79.9	64.8	49.7	-
	62	100.6	11.3	100.6	100.6	99.3	83.8	68.3	52.8	93.1	12.4	93.1	93.1	93.1	78.6	63.5	48.4
	57	99.6	11.4	99.6	99.6	98.3	82.8	67.3	51.8	92.0	12.6	92.0	92.0	90.5	75.4	60.3	45.3
4500	72	116.2	11.6	100.1	83.2	66.2	49.3	-	-	106.4	12.9	95.1	78.5	62.0	45.5	-	-
	67	109.3	11.5	109.3	105.3	89.7	72.8	55.8	-	100.2	12.7	100.2	99.3	84.8	68.3	51.8	-
	62	101.7	11.3	101.7	101.7	101.0	84.1	67.1	50.2	94.0	12.4	94.0	94.0	94.0	77.7	61.2	44.7
	57	100.6	11.4	100.6	100.6	100.0	83.1	66.1	49.2	92.9	12.6	92.9	92.9	92.1	75.6	59.1	42.5
5000	72	117.5	11.7	106.8	88.4	70.0	51.6	-	-	107.3	12.9	101.5	83.6	65.6	47.7	-	-
	67	110.5	11.5	110.5	110.5	94.8	76.4	58.1	-	101.1	12.7	101.1	101.1	89.8	71.8	53.9	-
	62	102.7	11.3	102.7	102.7	102.7	84.4	66.0	47.6	94.8	12.5	94.8	94.8	94.8	76.8	58.9	40.9
	57	101.7	11.4	101.7	101.7	101.7	83.3	65.0	46.6	93.7	12.7	93.7	93.7	93.7	75.7	57.8	39.8

1. These capacities are gross ratings. For net capacity, deduct air blower motor, MBh = 3.415 x kW. Refer to the appropriate Blower Performance Table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

ZR120 (10 Ton) Reheat

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)						Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)					
				Return Dry Bulb (°F)								Return Dry Bulb (°F)					
				90	85	80	75	70	65			90	85	80	75	70	65
		35°F								45°F							
2500	77	81.3	6.2	-	-	-	-	-	-	66.7	6.8	-	-	-	-	-	-
	72	75.9	6.1	12.0	9.6	7.1	4.7	-	-	65.6	6.5	6.6	4.6	2.7	-	-	-
	67	70.6	6.0	26.3	23.9	21.5	19.1	16.6	-	64.5	6.2	21.3	19.3	17.3	15.4	13.4	-
	62	72.8	5.8	42.2	39.7	37.3	34.9	32.5	30.0	62.5	6.0	35.2	33.2	31.3	29.3	27.4	25.4
3000	77	82.4	6.2	-	-	-	-	-	-	69.4	6.8	-	-	-	-	-	-
	72	76.7	6.0	15.1	12.1	9.2	6.2	-	-	68.3	6.5	8.5	6.0	3.4	-	-	-
	67	71.0	5.9	31.5	28.6	25.6	22.7	19.7	-	67.1	6.2	27.0	24.4	21.8	19.3	16.7	-
	62	73.6	5.7	50.1	47.2	44.2	41.3	38.3	35.4	65.0	6.0	44.6	42.0	39.4	36.8	34.2	31.6
	57	65.6	5.7	56.8	53.9	50.9	48.0	45.0	42.1	60.6	5.9	51.5	48.9	46.3	43.7	41.1	38.6
3500	77	83.5	6.1	-	-	-	-	-	-	72.1	6.7	-	-	-	-	-	-
	72	77.5	6.0	18.1	14.7	11.2	7.8	-	-	70.9	6.5	10.5	7.3	4.1	-	-	-
	67	71.5	5.9	36.6	33.2	29.7	26.3	22.8	-	69.7	6.2	32.8	29.6	26.3	23.1	19.9	-
	62	74.3	5.7	58.0	54.6	51.1	47.7	44.2	40.8	67.6	6.0	53.9	50.7	47.5	44.3	41.1	37.8
	57	66.1	5.6	61.7	60.2	58.7	55.3	51.8	48.4	63.0	5.9	58.4	57.1	55.9	52.6	49.4	46.2
4000	77	84.7	6.1	-	-	-	-	-	-	74.9	6.7	-	-	-	-	-	-
	72	78.3	6.0	21.2	17.2	13.3	9.3	-	-	73.6	6.4	12.5	8.6	4.8	-	-	-
	67	71.9	5.9	41.8	37.8	33.9	29.9	25.9	-	72.4	6.2	38.5	34.7	30.8	27.0	23.1	-
	62	75.1	5.7	66.0	62.0	58.0	54.1	50.1	46.1	70.1	5.9	63.3	59.4	55.6	51.7	47.9	44.1
	57	66.6	5.6	66.6	66.6	66.6	62.6	58.6	54.7	65.4	5.9	65.4	65.4	65.4	61.5	57.7	53.8
4500	72	79.5	6.0	22.5	18.3	14.1	9.9	-	-	73.1	6.5	13.3	9.2	5.1	-	-	-
	67	73.3	5.9	44.3	40.1	35.9	31.7	27.5	-	71.9	6.2	41.1	36.9	32.8	28.7	24.6	-
	62	76.3	5.7	71.7	67.7	61.5	57.3	53.1	49.0	69.7	6.0	66.2	63.3	59.2	55.1	50.9	46.8
	57	67.8	5.6	67.8	67.8	67.8	63.6	59.4	55.2	64.9	5.9	64.9	64.9	64.9	60.8	56.7	52.6
5000	72	80.8	6.0	23.8	19.4	15.0	10.6	-	-	72.6	6.5	14.1	9.8	5.4	-	-	-
	67	74.7	5.9	46.7	42.3	38.0	33.6	29.2	-	71.4	6.2	43.6	39.2	34.8	30.4	26.0	-
	62	77.5	5.7	77.5	73.5	65.0	60.6	56.2	51.8	69.2	6.0	69.2	67.2	62.8	58.4	54.0	49.6
	57	69.0	5.6	69.0	69.0	69.0	64.6	60.2	55.8	64.5	5.9	64.5	64.5	64.5	60.1	55.7	51.3
		55°F								65°F							
2500	77	52.1	7.4	-	-	-	-	-	-	46.4	7.7	-	-	-	-	-	-
	72	55.3	6.9	1.2	-	-	-	-	-	49.0	7.3	-	-	-	-	-	-
	67	58.4	6.5	16.2	14.7	13.2	11.7	10.2	-	51.6	6.9	13.0	11.8	10.6	9.4	8.2	-
	62	52.2	6.2	28.2	26.7	25.2	23.7	22.3	20.8	46.1	6.5	23.7	22.5	21.3	20.0	18.8	17.6
3000	77	56.5	7.4	-	-	-	-	-	-	51.3	7.7	-	-	-	-	-	-
	72	59.8	6.9	2.0	-	-	-	-	-	54.1	7.3	-	-	-	-	-	-
	67	63.2	6.5	22.5	20.3	18.1	15.8	13.6	-	57.0	6.8	19.4	17.4	15.4	13.5	11.5	-
	62	56.5	6.2	39.0	36.8	34.5	32.3	30.1	27.8	50.8	6.5	34.9	33.0	31.0	29.0	27.1	25.1
	57	55.7	6.1	46.2	44.0	41.7	39.5	37.3	35.0	50.2	6.5	40.6	38.6	36.6	34.7	32.7	30.7
3500	77	60.8	7.3	-	-	-	-	-	-	56.1	7.7	-	-	-	-	-	-
	72	64.4	6.9	2.9	-	-	-	-	-	59.2	7.3	-	-	-	-	-	-
	67	68.0	6.5	28.9	25.9	22.9	20.0	17.0	-	62.3	6.8	25.7	23.0	20.2	17.5	14.8	-
	62	60.8	6.2	49.8	46.8	43.9	40.9	37.9	34.9	55.6	6.5	46.2	43.5	40.7	38.0	35.3	32.5
	57	60.0	6.1	55.2	54.1	53.0	50.0	47.0	44.0	54.9	6.5	50.1	49.1	48.1	45.4	42.6	39.9
4000	77	65.1	7.3	-	-	-	-	-	-	60.9	7.7	-	-	-	-	-	-
	72	69.0	6.9	3.7	-	-	-	-	-	64.3	7.2	-	-	-	-	-	-
	67	72.8	6.5	35.3	31.5	27.8	24.1	20.4	-	67.6	6.8	32.0	28.5	25.1	21.6	18.1	-
	62	65.2	6.2	60.6	56.9	53.2	49.4	45.7	42.0	60.4	6.5	57.5	54.0	50.5	47.0	43.5	40.0
	57	64.2	6.1	64.2	64.2	64.2	60.5	56.8	53.0	59.6	6.5	59.6	59.6	59.6	56.1	52.6	49.1
4500	72	66.7	7.0	4.1	-	-	-	-	-	63.3	7.3	-	-	-	-	-	-
	67	70.4	6.6	37.8	33.8	29.7	25.7	21.6	-	66.7	6.9	36.0	32.0	28.0	24.0	20.0	-
	62	63.0	6.3	60.7	58.9	56.8	52.8	48.7	44.7	59.5	6.6	58.0	56.3	54.5	50.5	46.5	42.5
	57	62.1	6.2	62.1	62.1	62.1	58.0	54.0	49.9	58.8	6.5	58.8	58.8	58.7	54.7	50.7	46.7
5000	72	64.4	7.0	4.5	-	-	-	-	-	62.4	7.3	-	-	-	-	-	-
	67	68.0	6.6	40.4	36.0	31.7	27.3	22.9	-	65.7	6.9	40.0	35.5	31.0	26.5	22.0	-
	62	60.9	6.3	60.9	60.9	60.5	56.2	51.8	47.4	58.6	6.6	58.6	58.6	58.5	53.9	49.4	44.9
	57	60.0	6.2	60.0	60.0	60.0	55.6	51.2	46.8	57.9	6.5	57.9	57.9	57.9	53.4	48.9	44.4

ZR120 (10 Ton) Reheat (Continued)

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)						Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)					
				Return Dry Bulb (°F)								Return Dry Bulb (°F)					
				90	85	80	75	70	65			90	85	80	75	70	65
		75°F										85°F					
2500	77	40.8	8.0	-	-	-	-	-	-	35.1	8.4	-	-	-	-	-	-
	72	42.8	7.6	-	-	-	-	-	-	36.6	8.0	-	-	-	-	-	-
	67	44.9	7.2	9.9	9.0	8.1	7.1	6.2	-	38.1	7.5	6.8	6.1	5.5	4.8	4.2	-
	62	39.9	6.9	19.1	18.2	17.3	16.3	15.4	14.5	33.8	7.2	14.6	13.9	13.3	12.6	12.0	11.3
3000	77	46.1	8.0	-	-	-	-	-	-	40.9	8.4	-	-	-	-	-	-
	72	48.4	7.6	-	-	-	-	-	-	42.7	7.9	-	-	-	-	-	-
	67	50.7	7.2	16.2	14.5	12.8	11.1	9.4	-	44.5	7.5	13.0	11.6	10.2	8.7	7.3	-
	62	45.2	6.8	30.9	29.2	27.5	25.7	24.0	22.3	39.5	7.2	26.8	25.3	23.9	22.5	21.0	19.6
	57	44.8	6.8	34.9	33.2	31.5	29.8	28.1	26.4	39.3	7.1	29.3	27.9	26.4	25.0	23.6	22.1
3500	77	51.4	8.0	-	-	-	-	-	-	46.7	8.3	-	-	-	-	-	-
	72	54.0	7.6	-	-	-	-	-	-	48.8	7.9	-	-	-	-	-	-
	67	56.6	7.1	22.5	20.0	17.5	15.1	12.6	-	50.9	7.5	19.3	17.1	14.8	12.6	10.4	-
	62	50.4	6.8	42.6	40.1	37.6	35.1	32.7	30.2	45.1	7.1	39.0	36.8	34.5	32.3	30.0	27.8
	57	49.9	6.8	45.0	44.2	43.2	40.7	38.3	35.8	44.9	7.1	39.9	39.2	38.4	36.1	33.9	31.6
4000	77	56.7	8.0	-	-	-	-	-	-	52.5	8.3	-	-	-	-	-	-
	72	59.6	7.6	-	-	-	-	-	-	54.9	7.9	-	-	-	-	-	-
	67	62.4	7.1	28.8	25.6	22.3	19.0	15.8	-	57.3	7.4	25.6	22.6	19.5	16.5	13.4	-
	62	55.6	6.8	54.3	51.1	47.8	44.6	41.3	38.0	50.8	7.1	50.8	48.2	45.1	42.1	39.1	36.0
	57	55.1	6.8	55.1	55.1	54.9	51.7	48.4	45.1	50.5	7.1	50.5	50.5	50.3	47.2	44.2	41.2
4500	72	60.0	7.6	-	-	-	-	-	-	56.7	7.9	-	-	-	-	-	-
	67	62.9	7.2	34.2	30.3	26.3	22.4	18.4	-	59.2	7.5	32.4	28.5	24.6	20.7	16.8	-
	62	56.0	6.9	55.4	53.7	52.1	48.1	44.2	40.2	52.5	7.2	52.5	51.2	49.7	45.8	41.9	38.0
	57	55.5	6.8	55.5	55.5	55.4	51.4	47.5	43.5	52.2	7.1	52.2	52.2	52.1	48.2	44.2	40.3
5000	72	60.5	7.7	-	-	-	-	-	-	58.5	8.0	-	-	-	-	-	-
	67	63.4	7.2	39.7	35.0	30.4	25.7	21.0	-	61.0	7.5	39.3	34.5	29.7	24.9	20.1	-
	62	56.4	6.9	56.4	56.4	56.4	51.7	47.1	42.4	54.2	7.2	54.2	54.2	54.2	49.5	44.7	39.9
	57	55.9	6.9	55.9	55.9	55.9	51.2	46.6	41.9	53.9	7.2	53.9	53.9	53.9	49.1	44.3	39.5

1. These capacities are gross ratings. For net capacity, deduct air blower motor, MBh = 3.415 x kW. Refer to the appropriate Blower Performance Table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

ZR150 (12.5 Ton) Cooling

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)						Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)					
				Return Dry Bulb (°F)								Return Dry Bulb (°F)					
				90	85	80	75	70	65			90	85	80	75	70	65
		75°F								85°F							
3125	77	190.5	9.0	87.6	73.4	59.1	-	-	-	185.2	10.5	81.6	67.3	53.0	-	-	-
	72	180.7	9.2	111.5	97.2	83.0	68.8	-	-	172.9	10.5	105.4	91.1	76.8	62.5	-	-
	67	171.0	9.3	135.4	121.1	106.9	92.7	78.4	-	160.6	10.5	129.2	114.9	100.6	86.3	72.0	-
	62	158.6	9.1	158.6	158.6	158.6	150.5	136.2	122.0	148.0	10.3	148.0	148.0	139.6	125.3	111.1	96.8
3750	77	199.8	9.2	94.7	78.6	62.4	-	-	-	194.0	10.6	89.0	72.9	56.8	-	-	-
	72	189.6	9.3	119.8	103.7	87.5	71.3	-	-	181.1	10.6	114.4	98.3	82.2	66.1	-	-
	67	179.4	9.4	145.0	128.8	112.6	96.4	80.3	-	168.3	10.6	139.9	123.8	107.7	91.6	75.5	-
	62	166.3	9.2	166.3	166.3	166.3	157.9	141.8	125.6	155.1	10.4	155.1	155.1	149.5	133.4	117.3	101.2
	57	154.4	9.2	154.4	154.4	148.9	132.7	116.6	100.4	146.9	10.4	146.9	146.9	137.3	121.2	105.2	89.1
4375	77	209.1	9.3	101.9	83.8	65.7	-	-	-	202.8	10.7	96.3	78.4	60.5	-	-	-
	72	198.4	9.4	128.2	110.1	92.0	73.9	-	-	189.3	10.7	123.4	105.5	87.6	69.7	-	-
	67	187.7	9.6	154.5	136.4	118.3	100.2	82.1	-	175.9	10.7	150.6	132.7	114.8	96.9	79.0	-
	62	174.1	9.4	174.1	174.1	174.1	165.4	147.3	129.2	162.1	10.5	162.1	162.1	159.3	141.4	123.5	105.6
	57	161.6	9.3	161.6	161.6	156.6	138.5	120.4	102.3	153.5	10.5	153.5	153.5	146.4	128.5	110.6	92.7
5000	77	218.4	9.4	109.0	89.0	68.9	-	-	-	211.6	10.8	103.6	83.9	64.2	-	-	-
	72	207.3	9.6	136.6	116.5	96.5	76.5	-	-	197.5	10.8	132.4	112.7	93.0	73.3	-	-
	67	196.1	9.7	164.1	144.1	124.1	104.0	84.0	-	183.5	10.8	161.2	141.5	121.8	102.1	82.4	-
	62	181.8	9.5	181.8	181.8	181.8	172.9	152.9	132.8	169.1	10.6	169.1	169.1	169.1	149.4	129.7	110.0
	57	168.8	9.5	168.8	168.8	164.4	144.3	124.3	104.2	160.2	10.6	160.2	160.2	155.4	135.7	116.0	96.3
5625	72	211.2	9.6	148.0	126.6	105.3	83.9	-	-	202.2	10.8	143.3	122.0	100.8	79.5	-	-
	67	199.9	9.7	179.4	156.7	135.4	114.0	92.7	-	187.8	10.8	174.5	153.2	131.9	110.7	89.4	-
	62	185.3	9.5	185.3	185.3	185.3	169.5	148.2	126.8	173.1	10.6	173.1	173.1	173.1	151.9	130.6	109.3
	57	172.0	9.5	172.0	172.0	169.8	148.5	127.1	105.8	164.0	10.6	164.0	164.0	161.6	140.3	119.1	97.8
6250	72	215.2	9.5	159.4	136.7	114.0	91.4	-	-	206.9	10.8	154.1	131.3	108.5	85.6	-	-
	67	203.6	9.7	194.6	169.4	146.7	124.0	101.4	-	192.2	10.8	187.7	164.9	142.0	119.2	96.4	-
	62	188.8	9.5	188.8	188.8	188.8	166.2	143.5	120.9	177.1	10.6	177.1	177.1	177.1	154.3	131.5	108.6
	57	175.3	9.4	175.3	175.3	175.3	152.6	130.0	107.3	167.8	10.6	167.8	167.8	167.8	145.0	122.1	99.3
		95°F								105°F							
3125	77	180.0	11.9	75.6	61.3	46.9	-	-	-	168.2	13.3	71.8	58.0	43.9	-	-	-
	72	165.1	11.8	99.3	85.0	70.6	56.3	-	-	153.8	13.2	95.1	81.0	66.9	52.8	-	-
	67	150.2	11.7	123.0	108.6	94.3	80.0	65.6	-	139.5	13.0	118.4	103.9	89.8	75.7	61.6	-
	62	137.5	11.5	137.5	133.0	114.6	100.2	85.9	71.5	127.9	12.9	127.9	125.7	110.1	96.0	81.9	67.8
3750	77	188.2	12.0	83.2	67.2	51.2	-	-	-	175.5	13.3	79.5	63.7	47.8	-	-	-
	72	172.7	11.9	109.0	93.0	77.0	60.9	-	-	160.6	13.2	104.5	88.6	72.8	56.9	-	-
	67	157.1	11.7	134.8	118.8	102.8	86.7	70.7	-	145.6	13.1	129.4	113.6	97.7	81.9	66.0	-
	62	143.8	11.6	143.8	140.8	124.8	108.8	92.8	76.8	133.5	12.9	133.5	132.1	119.8	104.0	88.1	72.2
	57	139.4	11.6	139.4	139.4	125.8	109.8	93.8	77.7	130.3	13.0	130.3	130.3	117.1	101.2	85.4	69.5
4375	77	196.5	12.0	90.7	73.0	55.4	-	-	-	182.9	13.4	87.3	69.3	51.7	-	-	-
	72	180.3	11.9	118.6	101.0	83.3	65.6	-	-	167.3	13.3	113.9	96.3	78.7	61.0	-	-
	67	164.0	11.8	146.6	128.9	111.2	93.5	75.8	-	151.8	13.1	140.5	123.3	105.6	88.0	70.4	-
	62	150.1	11.6	150.1	148.6	135.1	117.4	99.7	82.0	139.2	13.0	139.2	138.4	129.5	111.9	94.3	76.6
	57	145.5	11.7	145.5	145.5	136.1	118.4	100.7	83.1	135.7	13.0	135.7	135.7	126.6	109.0	91.3	73.7
5000	77	204.8	12.1	98.3	78.9	59.6	-	-	-	190.3	13.4	95.1	75.0	55.6	-	-	-
	72	187.8	12.0	128.3	109.0	89.6	70.2	-	-	174.1	13.3	123.3	104.0	84.6	65.2	-	-
	67	170.9	11.9	158.4	139.0	119.6	100.3	80.9	-	157.9	13.2	151.6	132.9	113.6	94.2	74.8	-
	62	156.4	11.7	156.4	156.4	145.3	126.0	106.6	87.2	144.8	13.0	144.8	144.8	139.2	119.8	100.4	81.1
	57	151.6	11.7	151.6	151.6	146.4	127.1	107.7	88.4	141.2	13.1	141.2	141.2	136.1	116.7	97.3	77.9
5625	72	193.2	12.0	138.6	117.4	96.2	75.1	-	-	178.5	13.3	133.3	112.3	91.2	70.2	-	-
	67	175.8	11.9	169.6	149.7	128.5	107.3	86.1	-	161.8	13.2	158.7	143.5	122.5	101.5	80.4	-
	62	160.9	11.7	160.9	160.9	155.4	134.2	113.0	91.8	148.4	13.0	148.4	148.4	145.6	124.6	103.5	82.5
	57	156.0	11.7	156.0	156.0	153.4	132.2	111.0	89.8	144.7	13.1	144.7	144.7	142.2	121.1	100.1	79.1
6250	72	198.6	12.0	148.9	125.9	102.9	79.9	-	-	182.8	13.3	143.3	120.6	97.9	75.2	-	-
	67	180.7	11.9	180.7	160.4	137.4	114.4	91.4	-	165.8	13.2	165.8	154.1	131.4	108.7	86.1	-
	62	165.4	11.7	165.4	165.4	165.4	142.4	119.4	96.4	152.0	13.0	152.0	152.0	152.0	129.3	106.6	84.0
	57	160.3	11.8	160.3	160.3	160.3	137.3	114.3	91.3	148.3	13.1	148.3	148.3	148.3	125.6	102.9	80.2

ZR150 (12.5 Ton) Cooling (Continued)

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)						Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)					
				Return Dry Bulb (°F)								Return Dry Bulb (°F)					
				90	85	80	75	70	65			90	85	80	75	70	65
		115°F										125°F					
3125	77	156.3	14.6	67.9	54.8	40.9	-	-	-	144.5	16.0	60.9	51.5	37.9	-	-	-
	72	142.6	14.5	90.8	77.0	63.1	49.3	-	-	131.3	15.9	86.6	73.0	59.4	45.8	-	-
	67	128.8	14.4	113.7	99.1	85.3	71.5	57.6	-	118.1	15.7	110.3	94.4	80.8	67.2	53.6	-
	62	118.4	14.2	118.4	118.4	105.7	91.8	78.0	64.1	108.8	15.6	108.8	108.8	102.4	87.6	74.0	60.4
3750	77	162.8	14.7	75.9	60.2	44.5	-	-	-	150.2	16.0	72.3	56.7	41.2	-	-	-
	72	148.5	14.6	100.0	84.3	68.6	52.9	-	-	136.4	15.9	95.5	80.0	64.4	48.9	-	-
	67	134.1	14.4	124.1	108.4	92.7	77.0	61.3	-	122.7	15.8	118.8	103.2	87.7	72.1	56.6	-
	62	123.3	14.3	123.3	123.3	114.8	99.1	83.4	67.7	113.0	15.6	113.0	113.0	109.8	94.3	78.7	63.2
	57	121.1	14.3	121.1	121.1	108.4	92.7	77.0	61.3	112.0	15.7	112.0	112.0	99.7	84.2	68.6	53.1
4375	77	169.3	14.7	83.9	65.6	48.0	-	-	-	155.8	16.1	83.6	61.9	44.4	-	-	-
	72	154.4	14.6	109.2	91.6	74.1	56.5	-	-	141.5	16.0	104.5	87.0	69.5	52.0	-	-
	67	139.5	14.5	134.5	117.6	100.1	82.5	65.0	-	127.2	15.8	127.2	112.0	94.5	77.0	59.5	-
	62	128.2	14.3	128.2	128.2	124.0	106.4	88.8	71.3	117.3	15.7	117.3	117.3	117.3	100.9	83.4	65.9
	57	126.0	14.4	126.0	126.0	117.1	99.5	81.9	64.4	116.2	15.7	116.2	116.2	107.5	90.0	72.6	55.1
5000	77	175.8	14.8	91.9	71.0	51.6	-	-	-	161.4	16.2	95.0	67.0	47.6	-	-	-
	72	160.3	14.7	118.4	98.9	79.5	60.1	-	-	146.6	16.0	113.4	93.9	74.5	55.1	-	-
	67	144.9	14.5	144.9	126.9	107.5	88.1	68.6	-	131.8	15.9	131.8	120.8	101.4	82.0	62.5	-
	62	133.1	14.4	133.1	133.1	133.1	113.7	94.3	74.9	121.5	15.7	121.5	121.5	121.5	107.6	88.1	68.7
	57	130.8	14.4	130.8	130.8	125.7	106.3	86.9	67.5	120.4	15.8	120.4	120.4	115.4	95.9	76.5	57.0
5625	72	163.7	14.7	128.0	107.1	86.2	65.3	-	-	148.9	16.0	122.7	102.0	81.2	60.4	-	-
	67	147.9	14.5	147.9	137.4	116.5	95.6	74.7	-	133.9	15.9	133.9	131.3	110.5	89.7	69.0	-
	62	135.9	14.4	135.9	135.9	135.9	115.0	94.1	73.2	123.4	15.7	123.4	123.4	123.4	105.4	84.6	63.9
	57	133.5	14.4	133.5	133.5	131.0	110.1	89.2	68.3	122.3	15.8	122.3	122.3	119.8	99.0	78.3	57.5
6250	72	167.0	14.7	137.7	115.3	92.9	70.5	-	-	151.2	16.0	132.0	110.0	87.9	65.8	-	-
	67	150.9	14.5	150.9	147.9	125.5	103.1	80.7	-	135.9	15.8	135.9	135.9	119.6	97.5	75.4	-
	62	138.6	14.4	138.6	138.6	138.6	116.3	93.9	71.5	125.3	15.7	125.3	125.3	125.3	103.2	81.1	59.0
	57	136.2	14.4	136.2	136.2	136.2	113.9	91.5	69.1	124.2	15.7	124.2	124.2	124.2	102.1	80.0	58.0

1. These capacities are gross ratings. For net capacity, deduct air blower motor, MBh = 3.415 x kW. Refer to the appropriate Blower Performance Table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

ZR150 (12.5 Ton) Reheat

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)					Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)						
				Return Dry Bulb (°F)							Return Dry Bulb (°F)						
				85	80	75	70	65			85	80	75	70	65		
		35°F								45°F							
3125	72	87.0	7.7	6.6	4.8	3.1	-	-	85.9	8.3	5.6	3.9	2.2	-	-		
	67	84.6	7.3	14.4	12.7	11.0	9.2	-	83.3	8.0	11.8	10.1	8.4	6.7	-		
	62	82.9	7.3	20.3	18.6	16.9	15.2	13.5	80.8	7.7	17.7	16.0	14.3	12.6	10.9		
3750	72	89.0	7.4	11.5	9.2	6.9	-	-	88.9	8.0	10.7	8.3	5.9	-	-		
	67	86.5	7.1	26.3	24.0	21.7	19.5	-	86.2	7.7	24.1	21.7	19.3	17.0	-		
	62	84.8	7.1	36.7	34.4	32.1	29.8	27.5	83.6	7.4	36.6	34.2	31.9	29.5	27.1		
	57	82.2	7.7	43.1	40.9	38.6	36.3	34.0	79.1	8.2	40.8	38.4	36.0	33.7	31.3		
4375	72	90.9	7.2	16.4	13.5	10.7	-	-	91.8	7.7	15.8	12.7	9.7	-	-		
	67	88.4	6.9	38.3	35.4	32.5	29.7	-	89.1	7.4	36.3	33.3	30.2	27.2	-		
	62	86.6	6.8	53.1	50.2	47.4	44.5	41.6	86.4	7.2	55.5	52.5	49.4	46.4	43.3		
	57	84.0	7.4	63.2	60.0	57.1	54.2	51.4	81.8	7.9	61.9	58.9	55.8	52.8	49.7		
5000	72	92.8	6.9	21.3	17.9	14.4	-	-	94.8	7.4	20.9	17.2	13.4	-	-		
	67	90.3	6.6	50.2	46.8	43.3	39.9	-	91.9	7.1	48.6	44.9	41.1	37.4	-		
	62	88.5	6.6	69.5	66.0	62.6	59.1	55.7	89.2	6.9	74.5	70.7	67.0	63.3	59.5		
	57	85.9	7.1	83.2	79.1	75.6	72.2	68.7	84.4	7.6	83.1	79.4	75.6	71.9	68.2		
5625	72	94.1	7.5	15.2	12.5	9.9	-	-	96.7	7.8	16.3	13.1	9.9	-	-		
	67	91.5	7.1	35.5	32.8	30.2	27.5	-	93.8	7.6	37.4	34.2	31.0	27.8	-		
	62	89.7	7.1	48.0	45.4	42.7	40.1	37.4	91.0	7.3	57.1	53.9	50.7	47.5	44.3		
	57	87.1	7.7	58.0	55.0	52.4	49.7	47.1	86.1	8.0	63.7	60.5	57.3	54.1	50.8		
6250	72	95.4	8.0	9.1	7.2	5.4	-	-	98.6	8.3	11.7	9.0	6.3	-	-		
	67	92.8	7.7	20.7	18.9	17.0	15.2	-	95.6	8.0	26.2	23.5	20.8	18.1	-		
	62	91.0	7.6	26.6	24.7	22.9	21.0	19.2	92.8	7.8	39.8	37.1	34.4	31.7	29.0		
	57	88.3	8.3	32.9	31.0	29.2	27.3	25.5	87.8	8.5	44.3	41.6	38.9	36.2	33.5		
		55°F								65°F							
3125	72	84.8	8.9	4.6	2.9	1.2	-	-	84.2	9.3	-	-	-	-	-		
	67	81.9	8.7	9.3	7.6	5.9	4.2	-	79.1	8.9	10.4	8.9	7.3	5.8	-		
	62	78.7	8.2	15.1	13.4	11.7	10.0	8.3	74.6	8.4	24.9	23.4	21.8	20.3	18.7		
3750	72	88.8	8.6	9.9	7.4	5.0	-	-	87.3	9.2	-	-	-	-	-		
	67	85.8	8.3	21.9	19.4	16.9	14.5	-	82.0	8.8	18.2	16.0	13.9	11.8	-		
	62	82.5	7.8	36.5	34.1	31.6	29.1	26.7	77.4	8.3	40.0	37.9	35.8	33.7	31.5		
	57	76.1	8.7	38.4	36.0	33.5	31.0	28.6	72.6	9.0	44.1	42.0	39.9	37.8	35.6		
4375	72	92.8	8.2	15.2	11.9	8.7	-	-	90.4	9.1	-	-	-	-	-		
	67	89.7	8.0	34.4	31.2	27.9	24.7	-	85.0	8.7	25.9	23.2	20.5	17.8	-		
	62	86.2	7.5	58.0	54.7	51.5	48.3	45.0	80.2	8.2	55.1	52.4	49.8	47.1	44.4		
	57	79.5	8.3	60.7	57.8	54.6	51.3	48.1	75.2	8.9	60.3	57.7	55.1	52.4	49.7		
5000	72	96.8	7.8	20.5	16.5	12.4	-	-	93.5	9.0	1.1	-	-	-	-		
	67	93.6	7.6	47.0	42.9	38.9	34.9	-	87.9	8.6	33.6	30.4	27.1	23.8	-		
	62	89.9	7.1	79.4	75.4	71.4	67.4	63.4	83.0	8.1	70.3	67.0	63.7	60.4	57.2		
	57	83.0	8.0	83.0	79.6	75.6	71.6	67.6	77.8	8.8	76.4	73.5	70.2	66.9	63.7		
5625	72	99.3	8.2	17.4	13.6	9.8	-	-	97.7	9.2	-	-	-	-	-		
	67	96.0	8.0	39.3	35.5	31.8	28.0	-	91.8	8.8	31.7	28.3	25.0	21.6	-		
	62	92.2	7.5	66.2	62.4	58.7	54.9	51.1	86.6	8.3	69.4	66.0	62.6	59.3	55.9		
	57	85.1	8.4	69.3	65.9	62.1	58.4	54.6	81.2	9.0	72.7	70.3	66.9	63.6	60.2		
6250	72	101.8	8.6	14.3	10.8	7.3	-	-	101.9	9.5	-	-	-	-	-		
	67	98.4	8.4	31.7	28.1	24.6	21.1	-	95.7	9.1	29.8	26.3	22.8	19.4	-		
	62	94.6	7.9	53.0	49.4	45.9	42.4	38.8	90.3	8.6	68.5	65.0	61.6	58.1	54.6		
	57	87.2	8.8	55.7	52.2	48.7	45.1	41.6	84.7	9.3	68.9	67.1	63.7	60.2	56.8		

ZR150 (12.5 Ton) Reheat (Continued)

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM		WB (°F)	Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)					Total Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)					
					Return Dry Bulb (°F)							Return Dry Bulb (°F)					
					85	80	75	70	65			85	80	75	70	65	
		75°F								85°F							
3125	72	83.6	9.7	-	-	-	-	-	83.0	10.2	-	-	-	-	-		
	67	76.2	9.2	11.5	10.1	8.7	7.3	-	73.4	9.4	12.6	11.4	10.1	8.8	-		
	62	70.5	8.7	34.8	33.4	32.0	30.6	29.2	66.4	8.9	44.7	43.4	42.1	40.9	39.6		
3750	72	85.8	9.9	-	-	-	-	-	84.3	10.5	-	-	-	-	-		
	67	78.2	9.3	14.5	12.7	10.9	9.1	-	74.4	9.7	10.8	9.3	7.9	6.4	-		
	62	72.3	8.8	43.6	41.8	40.0	38.2	36.4	67.3	9.3	47.1	45.6	44.2	42.7	41.3		
	57	69.0	9.3	49.8	48.1	46.3	44.5	42.7	65.5	9.7	55.5	54.1	52.7	51.2	49.8		
4375	72	88.0	10.0	-	-	-	-	-	85.5	10.9	-	-	-	-	-		
	67	80.2	9.4	17.4	15.2	13.1	10.9	-	75.5	10.1	8.9	7.2	5.6	4.0	-		
	62	74.2	8.9	52.3	50.2	48.0	45.8	43.7	68.2	9.6	49.5	47.9	46.2	44.6	43.0		
	57	70.8	9.5	59.9	57.7	55.5	53.4	51.2	66.4	10.0	59.4	57.6	56.0	54.4	52.8		
5000	72	90.1	10.1	-	-	-	-	-	86.8	11.3	-	-	-	-	-		
	67	82.2	9.5	20.3	17.8	15.2	12.7	-	76.5	10.5	7.0	5.2	3.4	1.6	-		
	62	76.0	9.0	61.1	58.5	56.0	53.5	50.9	69.1	10.0	51.9	50.1	48.3	46.5	44.7		
	57	72.6	9.6	69.9	67.3	64.8	62.3	59.7	67.4	10.4	63.3	61.2	59.4	57.6	55.8		
5625	72	96.1	10.3	-	-	-	-	-	94.4	11.3	-	-	-	-	-		
	67	87.6	9.6	24.1	21.1	18.1	15.2	-	83.4	10.5	16.4	13.9	11.3	8.8	-		
	62	81.0	9.1	72.5	69.6	66.6	63.7	60.7	75.4	9.9	75.4	73.1	70.6	68.0	65.5		
	57	77.3	9.7	76.0	74.7	71.8	68.8	65.8	73.4	10.4	73.4	73.4	73.4	73.4	71.5		
6250	72	102.0	10.4	-	-	-	-	-	102.0	11.3	-	-	-	-	-		
	67	93.0	9.8	27.8	24.5	21.1	17.7	-	90.3	10.4	25.9	22.6	19.3	16.0	-		
	62	86.0	9.2	84.0	80.6	77.2	73.8	70.5	81.7	9.9	81.7	81.7	81.7	81.7	81.7		
	57	82.1	9.8	82.1	82.1	78.7	75.3	71.9	79.5	10.3	79.5	79.5	79.5	79.5	79.5		

1. These capacities are gross ratings. For net capacity, deduct air blower motor, MBh = 3.415 x kW. Refer to the appropriate Blower Performance Table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

Drive Selection

1. Determine side or bottom supply duct Application.
2. Determine desired airflow.
3. Calculate or measure the amount of external static pressure.
 - Add or deduct any additional static resistance from "Additional Static Resistance Table".
4. Using the operating point determined from steps 1, 2 & 3, locate this point on the appropriate supply air blower performance table. (Linear interpolation may be necessary.)
5. Noting the RPM and BHP from step 4, locate the appropriate motor and, or drive on the RPM selection table.
6. Review the BHP compared to the motor options available. Select the appropriate motor and, or drive.
7. Review the RPM range for the motor options available. Select the appropriate drive if multiple drives are available for the chosen motor.
8. Determine turns open to obtain the desired operation point.

Example

1. 2600 CFM
2. 1.6 iwg
3. Using the supply air blower performance table below, the following data point was located: 1268 RPM & 1.95 BHP.
4. Using the RPM selection table below, Size X and Model Y is found.
5. 1.95 BHP exceeds the maximum continuous BHP rating of the 1.5 HP motor. The 2 HP motor is required.
6. 1268 RPM is within the range of the 2 HP drives.
7. Using the 2 HP motor and drive, .5 turns open will achieve 1268 RPM.

Airflow Performance**Example Supply Air Blower Performance**

Air Flow (CFM)	Available External Static Pressure - IWG																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	1.5 HP & Field Supplied Drive								Standard 1.5 HP & Drive						Alternate 2 HP & Drive					
2200	804	0.50	866	0.71	925	0.90	982	1.06	1038	1.21	1092	1.35	1147	1.48	1203	1.61	1259	1.73	1317	1.87
2400	835	0.66	897	0.87	956	1.06	1013	1.22	1069	1.37	1124	1.51	1178	1.64	1234	1.77	1290	1.90	1348	2.03
2600	869	0.84	931	1.05	990	1.24	1047	1.40	1103	1.55	1158	1.69	1212	1.82	1268	1.95	1324	2.07	1382	2.21
2800	906	1.03	968	1.25	1027	1.43	1084	1.60	1139	1.75	1194	1.89	1249	2.02	1304	2.14	1361	2.27	-	-

Example RPM Selection

Size (Tons)	Model	Airflow Option	HP	Max BHP	Motor Sheave	Blower Sheave	6 Turns Open	5 Turns Open	4 Turns Open	3 Turns Open	2 Turns Open	1 Turn Open	Fully Closed
X	Y	Std.	1.5	1.73	1VM50	AK74	N/A	897	945	991	1035	1079	1126
		H. Static	2	2.30	1VM50	AK64	N/A	1039	1094	1150	1207	1256	1308

Example Additional Static Resistance

Size (Tons)	Model	CFM	Cooling Only	Economizer	4" Pleated Filter	Electric Heat kW					
						3	6	9	15	20	24
X	Y	900	0.05	-0.05	0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1000	0.05	-0.03	0.02	0.00	0.00	0.00	0.02	0.02	0.02
		1100	0.04	-0.02	0.03	0.01	0.01	0.01	0.02	0.02	0.02
		1200	0.04	0.00	0.04	0.01	0.01	0.01	0.02	0.02	0.02
		1300	0.03	0.01	0.05	0.01	0.01	0.01	0.03	0.03	0.03

Altitude and Temperature Correction for CFM, Static Pressure and Power.

The information below should be used to assist in application of product when being applied at altitudes at or exceeding 1000 feet above sea level.

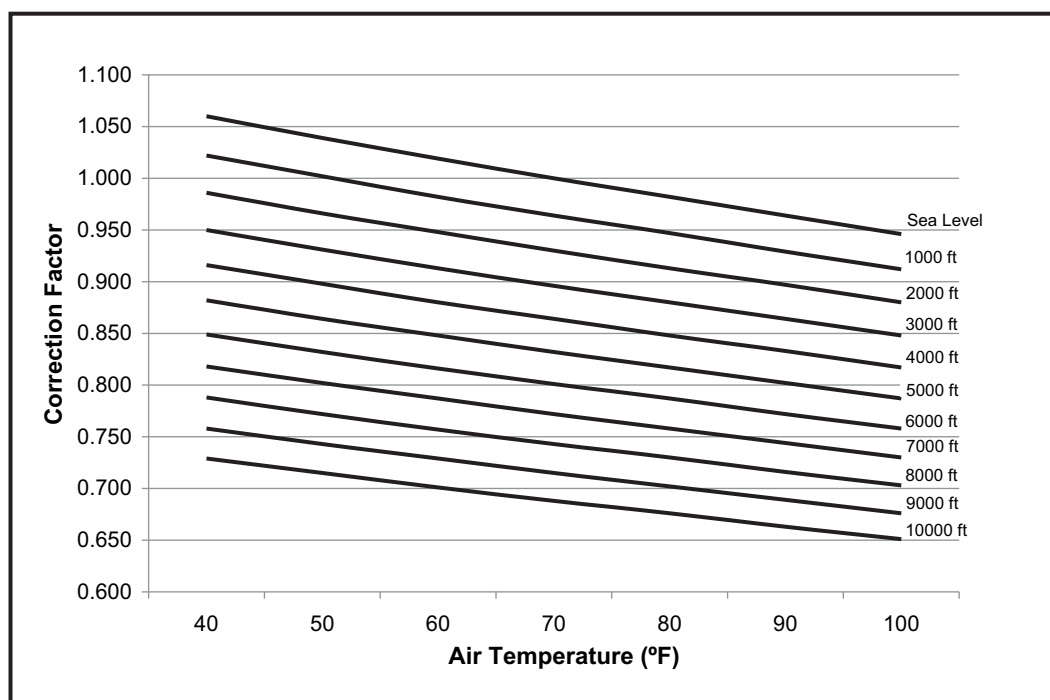
The air flow rates listed in the standard blower performance tables are based on standard air at sea level. As the altitude or temperature increases, the density of air decreases. In order to

use the indoor blower tables for high altitude applications, certain corrections are necessary.

A centrifugal fan is a "constant volume" device. This means that, if the rpm remains constant, the CFM delivered is the same regardless of the density of the air. However, since the air at high altitude is less dense, less static pressure will be generated and less power will be required than a similar application at sea level. Air density correction factors are shown in Table 14 and Figure 27.

Altitude/Temperature Correction Factors

Air Temp.	Altitude (Ft.)										
	0	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000
40	1.060	1.022	0.986	0.950	0.916	0.882	0.849	0.818	0.788	0.758	0.729
50	1.039	1.002	0.966	0.931	0.898	0.864	0.832	0.802	0.772	0.743	0.715
60	1.019	0.982	0.948	0.913	0.880	0.848	0.816	0.787	0.757	0.729	0.701
70	1.000	0.964	0.930	0.896	0.864	0.832	0.801	0.772	0.743	0.715	0.688
80	0.982	0.947	0.913	0.880	0.848	0.817	0.787	0.758	0.730	0.702	0.676
90	0.964	0.929	0.897	0.864	0.833	0.802	0.772	0.744	0.716	0.689	0.663
100	0.946	0.912	0.880	0.848	0.817	0.787	0.758	0.730	0.703	0.676	0.651



The examples below will assist in determining the airflow performance of the product at altitude.

Example 1: What are the corrected CFM, static pressure, and BHP at an elevation of 5,000 ft. if the blower performance data is 6,000 CFM, 1.5 IWC and 4.0 BHP?

Solution: At an elevation of 5,000 ft. the indoor blower will still deliver 6,000 CFM if the rpm is unchanged. However, Table 13 must be used to determine the static pressure and BHP. Since no temperature data is given, we will assume an air temperature of 70°F. Table 15 shows the correction factor to be 0.832.

$$\text{Corrected static pressure} = 1.5 \times 0.832 = 1.248 \text{ IWC}$$

$$\text{Corrected BHP} = 4.0 \times 0.832 = 3.328$$

Example 2: A system, located at 5,000 feet of elevation, is to deliver 6,000 CFM at a static pressure of 1.5". Use the unit

blower tables to select the blower speed and the BHP requirement.

Solution: As in the example above, no temperature information is given so 70°F is assumed.

The 1.5" static pressure given is at an elevation of 5,000 ft. The first step is to convert this static pressure to equivalent sea level conditions.

$$\text{Sea level static pressure} = 1.5 / .832 = 1.80"$$

Enter the blower table at 6000 sCFM and static pressure of 1.8". The rpm listed will be the same rpm needed at 5,000 ft.

Suppose that the corresponding BHP listed in the table is 3.2. This value must be corrected for elevation.

$$\text{BHP at 5,000 ft.} = 3.2 \times .832 = 2.66$$

Indoor Blower Specifications

Size (Tons)	Model	Airflow Option	Motor					Motor Sheave			Blower Sheave			Belt
			HP	RPM	Eff.	SF	Frame	Datum Dia. (in.)	Bore (in.)	Model	Datum Dia. (in.)	Bore (in.)	Model	
037 (3)	ZH	Std.	1-1/2	1725	0.8	1.15	56	2.0 - 3.0	7/8	1VM34	6.5	1	AK69	A47
		H. Static	1-1/2	1725	0.8	1.15	56	3.0 - 4.0	7/8	1VL44	6.5	1	AK69	A47
049 (4)	ZH	Std.	1-1/2	1725	0.8	1.15	56	2.0 - 3.0	7/8	1VM34	5.2	1	AK56	A47
		H. Static	1-1/2	1725	0.8	1.15	56	3.0 - 4.0	7/8	1VL44	5.2	1	AK56	A47
061 (5)	ZH	Std.	1-1/2	1725	0.8	1.15	56	2.6 - 3.6	7/8	1VL40	5.7	1	AK61	A47
		H. Static	2	1725	0.8	1.15	56	4.2 - 5.2	7/8	1VP56	7.0	1	AK74	A51
078 (6.5)	ZH	Std.	1-1/2	1725	0.8	1.15	56	3.4 - 4.4	7/8	1VM50	7.0	1	AK74	A49
		H. Static	2	1725	0.8	1.15	56	3.4 - 4.4	7/8	1VM50	6.0	1	AK64	A49
090 (7.5)	ZH	Std.	1-1/2	1725	0.8	1.15	56	3.4 - 4.4	7/8	1VM50	7.0	1	AK74	A49
		H. Static	3	1725	0.8	1.15	56	3.4 - 4.4	7/8	1VM50	5.7	1	AK61	A49
102 (8.5)	ZH	Std.	2	1725	0.8	1.15	56	3.4 - 4.4	7/8	1VM50	9.0	1	AK94	A56
		H. Static	3	1725	0.8	1.15	56	3.4 - 4.4	7/8	1VM50	7.0	1	AK74	A54
120 (10)	ZH	Std.	2	1725	0.8	1.15	56	3.4 - 4.4	7/8	1VM50	8.0	1	AK84	A56
		H. Static	3	1725	0.8	1.15	56	3.4 - 4.4	7/8	1VM50	7.0	1	AK74	A54
150 (12.5)	ZH	Std.	3	1725	0.8	1.15	56	3.4 - 4.4	7/8	1VM50	7.0	1	AK74	A54
		H. Static	5	1725	0.87	1.15	184T	4.3 - 5.3	1-1/8	1VP56	6.7	1	BK77	BX55
037 (3)	ZJ	Std.	1-1/2	1725	0.8	1.15	56	2.0 - 3.0	7/8	1VM34	6.5	1	AK69	A47
		H. Static	1-1/2	1725	0.8	1.15	56	3.0 - 4.0	7/8	1VL44	6.5	1	AK69	A47
049 (4)	ZJ	Std.	1-1/2	1725	0.8	1.15	56	2.0 - 3.0	7/8	1VM34	5.2	1	AK56	A47
		H. Static	1-1/2	1725	0.8	1.15	56	3.0 - 4.0	7/8	1VL44	5.2	1	AK56	A47
061 (5)	ZJ	Std.	1-1/2	1725	0.8	1.15	56	2.6 - 3.6	7/8	1VL40	5.7	1	AK61	A47
		H. Static	2	1725	0.8	1.15	56	4.2 - 5.2	7/8	1VP56	7.0	1	AK74	A51
078 (6.5)	ZJ	Std.	1-1/2	1725	0.8	1.15	56	2.6 - 3.6	7/8	1VL40	7.0	1	AK74	A53
		H. Static	2	1725	0.8	1.15	56	3.6 - 4.6	7/8	1VM50	7.0	1	AK74	A54
090 (7.5)	ZJ	Std.	1-1/2	1725	0.8	1.15	56	2.6 - 3.6	7/8	1VL40	6.5	1	AK69	A52
		H. Static	3	1725	0.8	1.15	56	3.6 - 4.6	7/8	1VM50	6.5	1	AK69	A54
102 (8.5)	ZJ	Std.	2	1725	0.8	1.15	56	3.4 - 4.4	7/8	1VM50	8.5	1	AK89	A56
		H. Static	3	1725	0.8	1.15	56	3.4 - 4.4	7/8	1VM50	7.0	1	AK74	A54
120 (10)	ZJ	Std.	2	1725	0.8	1.15	56	3.4 - 4.4	7/8	1VM50	8.0	1	AK84	A56
		H. Static	3	1725	0.8	1.15	56	3.4 - 4.4	7/8	1VM50	7.0	1	AK74	A54
150 (12.5)	ZJ	Std.	3	1725	0.8	1.15	56	3.4 - 4.4	7/8	1VM50	7.0	1	AK74	A54
		H. Static	5	1725	0.87	1.15	184T	4.3 - 5.3	1-1/8	1VP56	6.7	1	BK77	BX55
037 (3)	ZR	Std.	1-1/2	1725	0.8	1.15	56	1.2 - 2.9	7/8	1VP34	5.7	1	AK61	A47
		H. Static	1-1/2	1725	0.8	1.15	56	3.0 - 4.0	7/8	1VL44	5.5	1	AK59	A47
049 (4)	ZR	Std.	1-1/2	1725	0.8	1.15	56	1.2 - 2.9	7/8	1VP34	5.7	1	AK61	A47
		H. Static	1-1/2	1725	0.8	1.15	56	3.0 - 4.0	7/8	1VL44	5.5	1	AK59	A47
061 (5)	ZR	Std.	1-1/2	1725	0.8	1.15	56	1.2 - 2.9	7/8	1VP34	5.7	1	AK61	A47
		H. Static	2	1725	0.8	1.15	56	3.0 - 4.0	7/8	1VL44	5.5	1	AK59	A47
078 (6.5)	ZR	Std.	1-1/2	1725	0.8	1.15	56	3.4 - 4.4	7/8	1VM50	7.0	1	AK74	A49
		H. Static	2	1725	0.8	1.15	56	3.4 - 4.4	7/8	1VM50	6.0	1	AK64	A49
090 (7.5)	ZR	Std.	1-1/2	1725	0.8	1.15	56	3.4 - 4.4	7/8	1VM50	7.0	1	AK74	A49
		H. Static	3	1725	0.8	1.15	56	3.4 - 4.4	7/8	1VM50	5.7	1	AK61	A49
102 (8.5)	ZR	Std.	2	1725	0.8	1.15	56	3.4 - 4.4	7/8	1VM50	8.5	1	AK89	A56
		H. Static	3	1725	0.8	1.15	56	3.4 - 4.4	7/8	1VM50	7.0	1	AK74	A54
120 (10)	ZR	Std.	2	1725	0.8	1.15	56	3.4 - 4.4	7/8	1VM50	8.0	1	AK84	A56
		H. Static	3	1725	0.8	1.15	56	3.4 - 4.4	7/8	1VM50	7.0	1	AK74	A54
150 (12.5)	ZR	Std.	3	1725	0.8	1.15	56	3.4 - 4.4	7/8	1VM50	7.0	1	AK74	A54
		H. Static	5	1725	0.87	1.15	184T	4.3 - 5.3	1-1/8	1VP56	6.7	1	BK77	BX55

Power Exhaust Specifications

Model	Voltage	Motor			Motor			Fuse Size	CFM @ 0.1 ESP
		HP	RPM ¹	QTY	LRA	FLA	MCA		
2PE04703225	208/230-1-60	3/4	1075	1	7.8	5	6.3	10	3800
2PE04703246	460-1-60	3/4	1075	1	3.4	2.2	2.8	5	3800
2PE04703258	575-1-60	3/4	1050	1	2.9	1.5	1.9	4	3800

1. Motors are multi-tapped and factory wired for high speed.

RPM Selection

Size (Tons)	Model	Airflow Option	HP	Max BHP	Motor Sheave	Blower Sheave	6 Turns Open	5 Turns Open	4 Turns Open	3 Turns Open	2 Turns Open	1 Turn Open	Fully Closed
037 (3)	ZH	Std.	1.5	1.5	1VM34	AK69	N/A	531	584	637	690	743	796
		H. Static	1.5	1.5	1VL44	AK69	N/A	796	849	902	955	1008	1062
049 (4)	ZH	Std.	1.5	1.5	1VM34	AK56	N/A	663	730	796	863	929	995
		H. Static	1.5	1.5	1VL44	AK56	N/A	995	1062	1128	1194	1261	1327
061 (5)	ZH	Std.	1.5	1.5	1VL40	AK61	N/A	787	847	908	968	1029	1089
		H. Static	2	2	1VP56	AK74	N/A	1035	1084	1134	1183	1232	1281
078 (6.5)	ZH	Std.	1.5	1.73	1VM50	AK74	N/A	887	936	986	1035	1084	1134
		H. Static	2	2.30	1VM50	AK64	N/A	1039	1094	1150	1207	1256	1308
090 (7.5)	ZH	Std.	1.5	1.73	1VM50	AK74	N/A	887	936	986	1035	1084	1134
		H. Static	3	3.45	1VM50	AK61	N/A	1088	1147	1205	1265	1312	1365
102 (8.5)	ZH	Std.	2	2.30	1VM50	AK94	N/A	690	728	767	805	843	882
		H. Static	3	3.45	1VM50	AK74	N/A	887	936	986	1035	1084	1134
120 (10)	ZH	Std.	2	2.30	1VM50	AK84	N/A	776	819	863	906	949	992
		H. Static	3	3.45	1VM50	AK74	N/A	887	936	986	1035	1084	1134
150 (12.5)	ZH	Std.	3	3.45	1VM50	AK74	N/A	887	936	986	1035	1084	1134
		H. Static	5	5.75	1VP56	BK77	1052	1095	1136	1175	1216	1272	N/A
037 (3)	ZJ	Std.	1.5	1.5	1VM34	AK69	N/A	531	584	637	690	743	796
		H. Static	1.5	1.5	1VL44	AK69	N/A	796	849	902	955	1008	1062
049 (4)	ZJ	Std.	1.5	1.5	1VM34	AK56	N/A	663	730	796	863	929	995
		H. Static	1.5	1.5	1VL44	AK56	N/A	995	1062	1128	1194	1261	1327
061 (5)	ZJ	Std.	1.5	1.5	1VL40	AK61	N/A	787	847	908	968	1029	1089
		H. Static	2	2	1VP56	AK74	N/A	1035	1084	1134	1183	1232	1281
078 (6.5)	ZJ	Std.	1.5	1.73	1VL40	AK74	N/A	641	690	739	789	838	887
		H. Static	2	2.30	1VM50	AK74	N/A	887	936	986	1035	1084	1134
090 (7.5)	ZJ	Std.	1.5	1.73	1VL40	AK69	N/A	690	743	796	849	902	955
		H. Static	3	3.45	1VM50	AK69	N/A	955	1008	1062	1115	1168	1221
102 (8.5)	ZJ	Std.	2	2.30	1VM50	AK89	N/A	731	771	812	852	893	934
		H. Static	3	3.45	1VM50	AK74	N/A	887	936	986	1035	1084	1134
120 (10)	ZJ	Std.	2	2.30	1VM50	AK84	N/A	776	819	863	906	949	992
		H. Static	3	3.45	1VM50	AK74	N/A	887	936	986	1035	1084	1134
150 (12.5)	ZJ	Std.	3	3.45	1VM50	AK74	N/A	887	936	986	1035	1084	1134
		H. Static	5	5.75	1VP56	BK77	1052	1095	1136	1175	1216	1272	N/A
037 (3.0)	ZR	Std.	1.5	1.5	1VP34	AK61	N/A	575	636	696	757	817	878
		H. Static	1.5	1.5	1VL44	AK59	N/A	878	941	1004	1066	1129	1192
049 (4.0)	ZR	Std.	1.5	1.5	1VP34	AK61	N/A	575	636	696	757	817	878
		H. Static	1.5	1.5	1VL44	AK59	N/A	878	941	1004	1066	1129	1192
061 (5.0)	ZR	Std.	1.5	1.5	1VP34	AK61	N/A	575	636	696	757	817	878
		H. Static	2	2	1VL44	AK59	N/A	878	941	1004	1066	1129	1192
078 (6.5)	ZR	Std.	1.5	1.73	1VM50	AK74	N/A	897	945	991	1035	1079	1126
		H. Static	2	2.30	1VM50	AK64	N/A	1039	1094	1150	1207	1256	1308
090 (7.5)	ZR	Std.	1.5	1.73	1VM50	AK74	N/A	897	945	991	1035	1079	1126
		H. Static	3	3.45	1VM50	AK61	N/A	1088	1147	1205	1265	1312	1365
102 (8.5)	ZR	Std.	2	2.30	1VM50	AK89	N/A	735	775	815	851	889	930
		H. Static	3	3.45	1VM50	AK74	N/A	880	928	972	1016	1067	1110
120 (10)	ZR	Std.	2	2.30	1VM50	AK84	N/A	785	821	858	901	940	980
		H. Static	3	3.45	1VM50	AK74	N/A	880	928	972	1016	1067	1110
150 (12.5)	ZR	Std.	3	3.45	1VM50	AK74	N/A	880	928	972	1016	1067	1110
		H. Static	5	5.75	1VP56	BK77	1052	1095	1136	1175	1216	1272	N/A

Additional Static Resistance - ZH037 thru 061

Size (Tons)	Model	CFM	Cooling Only ¹	Economizer ^{2 3}	4" Pleated Filter ²	Electric Heat kW ²					
						3	6	9	15	20	24
037 (3) 049 (4)	ZH	900	0.05	-0.05	0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1000	0.05	-0.03	0.02	0.00	0.00	0.00	0.02	0.02	0.02
		1100	0.04	-0.02	0.03	0.01	0.01	0.01	0.02	0.02	0.02
		1200	0.04	0.00	0.04	0.01	0.01	0.01	0.02	0.02	0.02
		1300	0.03	0.01	0.05	0.01	0.01	0.01	0.03	0.03	0.03
		1400	0.03	0.03	0.07	0.02	0.02	0.02	0.03	0.03	0.03
		1500	0.03	0.04	0.08	0.02	0.02	0.02	0.04	0.04	0.04
		1600	0.02	0.06	0.09	0.02	0.02	0.02	0.04	0.04	0.04
		1700	0.02	0.07	0.10	0.03	0.03	0.03	0.05	0.05	0.05
		1800	0.01	0.08	0.11	0.03	0.03	0.03	0.05	0.05	0.05
		1900	0.01	0.10	0.13	0.04	0.04	0.04	0.06	0.06	0.06
		2000	0.00	0.11	0.14	0.04	0.04	0.04	0.07	0.07	0.07
061 (5)	ZH	1500	-0.01	0.13	0.07	0.02	0.02	0.02	0.04	0.04	0.04
		1600	-0.01	0.14	0.08	0.02	0.02	0.02	0.04	0.04	0.04
		1700	-0.01	0.15	0.08	0.03	0.03	0.03	0.05	0.05	0.05
		1800	-0.02	0.16	0.09	0.03	0.03	0.03	0.05	0.05	0.05
		1900	-0.02	0.17	0.10	0.04	0.04	0.04	0.06	0.06	0.06
		2000	-0.02	0.18	0.10	0.04	0.04	0.04	0.07	0.07	0.07
		2100	-0.03	0.19	0.11	0.05	0.05	0.05	0.07	0.07	0.07
		2200	-0.03	0.20	0.12	0.06	0.06	0.06	0.08	0.08	0.08
		2300	-0.04	0.21	0.12	0.06	0.06	0.06	0.09	0.09	0.09
		2400	-0.04	0.22	0.13	0.07	0.07	0.07	0.10	0.10	0.10
		2500	-0.05	0.23	0.14	0.08	0.08	0.08	0.11	0.11	0.11

1. Add these values to the available static resistance in the respective Blower Performance Tables.
2. Deduct these values from the available external static pressure shown in the respective Blower Performance Tables.
3. The pressure drop through the economizer is greater for 100% outdoor air than for 100% return air. If the resistance of the return air duct is less than 0.25 IWG, the unit will deliver less CFM during full economizer operation.

Additional Static Resistance - ZJ/ZR037 thru 061

Size (Tons)	Model	CFM	Cooling Only ¹	Economizer ^{2 3}	4" Pleated Filter ²	Electric Heat kW ²					
						3	6	9	15	20	24
037 (3)	ZJ/ZR	900	0.05	-0.05	0.01	0.00	0.00	0.00	0.01	0.01	0.01
		1000	0.05	-0.03	0.02	0.00	0.00	0.00	0.02	0.02	0.02
		1100	0.04	-0.02	0.03	0.01	0.01	0.01	0.02	0.02	0.02
		1200	0.04	0.00	0.04	0.01	0.01	0.01	0.02	0.02	0.02
		1300	0.03	0.01	0.05	0.01	0.01	0.01	0.03	0.03	0.03
		1400	0.03	0.03	0.07	0.02	0.02	0.02	0.03	0.03	0.03
		1500	0.03	0.04	0.08	0.02	0.02	0.02	0.04	0.04	0.04
049 (4) 061 (5)	ZJ/ZR	1200	-0.01	0.10	0.05	0.01	0.01	0.01	0.02	0.02	0.02
		1300	-0.01	0.11	0.06	0.01	0.01	0.01	0.03	0.03	0.03
		1400	-0.01	0.12	0.06	0.02	0.02	0.02	0.03	0.03	0.03
		1500	-0.01	0.13	0.07	0.02	0.02	0.02	0.04	0.04	0.04
		1600	-0.01	0.14	0.08	0.02	0.02	0.02	0.04	0.04	0.04
		1700	-0.01	0.15	0.08	0.03	0.03	0.03	0.05	0.05	0.05
		1800	-0.02	0.16	0.09	0.03	0.03	0.03	0.05	0.05	0.05
		1900	-0.02	0.17	0.10	0.04	0.04	0.04	0.06	0.06	0.06
		2000	-0.02	0.18	0.10	0.04	0.04	0.04	0.07	0.07	0.07
		2100	-0.03	0.19	0.11	0.05	0.05	0.05	0.07	0.07	0.07
		2200	-0.03	0.20	0.12	0.06	0.06	0.06	0.08	0.08	0.08
		2300	-0.04	0.21	0.12	0.06	0.06	0.06	0.09	0.09	0.09
		2400	-0.04	0.22	0.13	0.07	0.07	0.07	0.10	0.10	0.10
		2500	-0.05	0.23	0.14	0.08	0.08	0.08	0.11	0.11	0.11

1. Add these values to the available static resistance in the respective Blower Performance Tables.
2. Deduct these values from the available external static pressure shown in the respective Blower Performance Tables.
3. The pressure drop through the economizer is greater for 100% outdoor air than for 100% return air. If the resistance of the return air duct is less than 0.25 IWG, the unit will deliver less CFM during full economizer operation.

Additional Static Resistance - ZH/ZR078 thru 150

Size (Tons)	Model	CFM	Cooling Only ¹	Economizer ^{2 3}	4" Filter ²	Electric Heat kW ²				
						09	18	24	36	54
078 (6.5) 090 (7.5)	ZH/ZR	1900	0.00	0.07	0.10	0.05	0.06	0.07	0.08	0.10
		2100	-0.01	0.09	0.11	0.06	0.07	0.08	0.09	0.11
		2300	-0.01	0.11	0.12	0.07	0.08	0.09	0.10	0.13
		2500	-0.02	0.13	0.14	0.08	0.09	0.10	0.11	0.14
		2700	-0.03	0.16	0.15	0.09	0.10	0.12	0.13	0.16
		2900	-0.04	0.18	0.16	0.10	0.11	0.13	0.14	0.18
		3100	-0.05	0.20	0.18	0.12	0.13	0.15	0.16	0.20
		3300	-0.06	0.22	0.19	0.13	0.14	0.17	0.18	0.22
		3500	-0.07	0.24	0.20	0.15	0.16	0.19	0.20	0.24
		3700	-0.08	0.27	0.21	0.17	0.18	0.21	0.22	0.26
		3900	-0.09	0.29	0.23	0.19	0.20	0.23	0.24	0.28
		4100	-0.09	0.31	0.24	0.21	0.22	0.25	0.26	0.31
		4300	-0.10	0.30	0.25	0.23	0.24	0.28	0.29	0.34
		4500	-0.11	0.35	0.26	0.25	0.26	0.30	0.31	0.37
102 (8.5) 120 (10) 150 (12.5)	ZH/ZR	1900	0.06	0.02	0.12	0.05	0.06	0.07	0.08	0.10
		2100	0.07	0.02	0.13	0.06	0.07	0.08	0.09	0.11
		2300	0.08	0.04	0.14	0.07	0.08	0.09	0.10	0.13
		2500	0.09	0.11	0.16	0.08	0.09	0.10	0.11	0.14
		2700	0.11	0.18	0.17	0.09	0.10	0.12	0.13	0.16
		2900	0.12	0.25	0.19	0.10	0.11	0.13	0.14	0.18
		3100	0.14	0.31	0.20	0.12	0.13	0.15	0.16	0.20
		3300	0.16	0.37	0.22	0.13	0.14	0.17	0.18	0.22
		3500	0.18	0.43	0.25	0.15	0.16	0.19	0.20	0.24
		3700	0.20	0.49	0.27	0.17	0.18	0.21	0.22	0.26
		3900	0.23	0.54	0.29	0.19	0.20	0.23	0.24	0.28
		4100	0.25	0.58	0.32	0.21	0.22	0.25	0.26	0.31
		4300	0.28	0.65	0.35	0.23	0.24	0.28	0.29	0.34
		4500	0.30	0.69	0.38	0.25	0.26	0.30	0.31	0.37
		4700	0.33	0.74	0.41	0.28	0.29	0.33	0.34	0.40
		4900	0.36	0.78	0.44	0.30	0.31	0.35	0.37	0.43
		5100	0.39	0.82	0.47	0.33	0.34	0.38	0.40	0.46
		5300	0.42	0.86	0.51	0.35	0.37	0.41	0.43	0.49
		5500	0.45	0.89	0.56	0.38	0.40	0.44	0.46	0.53
		5700	0.48	0.93	0.58	0.41	0.43	0.47	0.49	0.56
		5900	0.52	0.96	0.62	0.44	0.46	0.50	0.53	0.59
		6100	0.56	0.98	0.67	0.47	0.49	0.53	0.56	0.62
		6300	0.60	1.01	0.71	0.50	0.53	0.56	0.59	0.65

1. Add these values to the available static resistance in the respective Blower Performance Tables.
2. Deduct these values from the available external static pressure shown in the respective Blower Performance Tables.
3. The pressure drop through the economizer is greater for 100% outdoor air than for 100% return air. If the resistance of the return air duct is less than 0.25 IWG, the unit will deliver less CFM during full economizer operation.

Additional Static Resistance - ZJ078-150

Size (Tons)	Model	CFM	Cooling Only ¹	Economizer ^{2,3}	4" Filter ²	Electric Heat kW ²				
						9	18	24	36	54
078 (6.5) 090 (7.5) 102 (8.5) 120 (10) 150 (12.5)	ZJ	1900	0.06	0.02	0.12	0.05	0.06	0.07	0.08	0.10
		2100	0.07	0.02	0.13	0.06	0.07	0.08	0.09	0.11
		2300	0.08	0.04	0.14	0.07	0.08	0.09	0.10	0.13
		2500	0.09	0.11	0.16	0.08	0.09	0.10	0.11	0.14
		2700	0.11	0.18	0.17	0.09	0.10	0.12	0.13	0.16
		2900	0.12	0.25	0.19	0.10	0.11	0.13	0.14	0.18
		3100	0.14	0.31	0.20	0.12	0.13	0.15	0.16	0.20
		3300	0.16	0.37	0.22	0.13	0.14	0.17	0.18	0.22
		3500	0.18	0.43	0.26	0.15	0.16	0.19	0.20	0.24
		3700	0.20	0.49	0.27	0.17	0.18	0.21	0.22	0.26
		3900	0.23	0.54	0.29	0.19	0.20	0.23	0.24	0.28
		4100	0.25	0.58	0.32	0.21	0.22	0.25	0.26	0.31
		4300	0.28	0.65	0.35	0.23	0.24	0.28	0.29	0.34
		4500	0.30	0.69	0.38	0.25	0.26	0.30	0.31	0.37
		4700	0.33	0.74	0.41	0.28	0.29	0.33	0.34	0.40
		4900	0.36	0.78	0.44	0.30	0.31	0.35	0.37	0.43
		5100	0.39	0.82	0.47	0.33	0.34	0.38	0.40	0.46
		5300	0.42	0.86	0.51	0.35	0.37	0.41	0.43	0.49
		5500	0.45	0.89	0.55	0.38	0.40	0.44	0.46	0.53
		5700	0.48	0.93	0.58	0.41	0.43	0.47	0.49	0.56
		5900	0.52	0.96	0.62	0.44	0.46	0.50	0.53	0.59
		6100	0.56	0.98	0.67	0.47	0.49	0.53	0.56	0.62
		6300	0.60	1.01	0.71	0.50	0.53	0.56	0.59	0.65

1. Add these values to the available static resistance in the respective Blower Performance Tables.
2. Deduct these values from the available external static pressure shown in the respective Blower Performance Tables.
3. The pressure drop through the economizer is greater for 100% outdoor air than for 100% return air. If the resistance of the return air duct is less than 0.25 IWG, the unit will deliver less CFM during full economizer operation.

Gas Heat Minimum Supply Air

Size (Tons)	Model	Heat Size	Supply Air (CFM)	
			Heating	
			Min	Max
037 (3)	ZH/ZJ/ZR	A05 / N05	890	2220
		A07 / N07	915	2370
		A09 / N09	1130	1800
049 (4)	ZH/ZJ/ZR	A05 / N05	890	2220
		A07 / N07	915	2370
		A09 / N09	1290	2250
061 (5)	ZH/ZJ/ZR	A07 / N07	915	2370
		A09 / N09	1380	2570
		A13 / N13	1580	2630
078 (6.5)	ZH/ZJ/ZR	10	1950	3250
		15	1950	3250
090 (7.5)	ZH/ZJ/ZR	10	2250	3750
		15	2250	3750
102 (8.5)	ZH/ZJ/ZR	10	2550	4250
		15	2550	4250
120 (10)	ZH/ZJ/ZR	15	3000	5000
		20	3000	5000
150 (12.5)	ZH/ZJ/ZR	15	3750	6250
		20	3750	6250

Electric Heat Minimum Supply Air**3 thru 5 Tons**

Size (Tons)	Model	Voltage	Minimum Supply Air (CFM)					
			Heater kW					
			3	6	9	15	20	24
037 (3)	ZH/ZJ/ZR	208/230-3-60	960	960	1020	1020	-	-
		460-3-60	980	960	960	960	-	-
		600-3-60	-	-	960	960	-	-
049 (4)	ZH/ZJ/ZR	208/230-3-60	-	1280	1420	1420	1420	-
		460-3-60	-	1400	1400	1400	1400	-
		600-3-60	-	-	1400	1400	1400	-
061 (5)	ZH/ZJ/ZR	208/230-3-60	-	1600	1600	1600	1600	1600
		460-3-60	-	1600	1600	1600	1600	1600
		600-3-60	-	-	1600	1600	1600	1600

6-1/2 thru 12-1/5 Tons

Size (Tons)	Model	Voltage	Minimum Supply Air (CFM)				
			Heater kW				
			9	18	24	36	54
078 (6.5)	ZH/ZJ/ZR	208/230-3-60	1950	1950	1950	1950	-
		460-3-60	1950	1950	1950	1950	-
		600-3-60	1950	1950	1950	1950	-
090 (7.5)	ZH/ZJ/ZR	208/230-3-60	2250	2250	2250	2250	-
		460-3-60	2250	2250	2250	2250	-
		600-3-60	2250	2250	2250	2250	-
102 (8.5)	ZH/ZJ/ZR	208/230-3-60	2550	2550	2550	2550	-
		460-3-60	2550	2550	2550	2550	-
		600-3-60	2550	2550	2550	2550	-
120 (10)	ZH/ZJ/ZR	208/230-3-60	-	3000	3000	3000	3500
		460-3-60	-	3000	3000	3000	3000
		600-3-60	-	3000	3000	3000	3500
150 (12.5)	ZH/ZJ/ZR	208/230-3-60	-	3750	3750	3750	4000
		460-3-60	-	3750	3750	3750	3750
		600-3-60	-	3750	3750	3750	3750

Airflow Performance

ZH037-150 Side Duct Application

ZH037 (3.0 Ton) Side Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹															
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Standard 1.5 HP & Drive								Hi Static 1.5 HP & Drive							
900	560	0.29	628	0.35	695	0.42	760	0.51	823	0.61	886	0.72	949	0.82	1011	0.92
1000	582	0.29	650	0.34	716	0.42	781	0.51	845	0.61	908	0.71	970	0.82	1032	0.92
1100	601	0.30	670	0.35	736	0.43	801	0.52	864	0.62	927	0.72	990	0.83	1052	0.93
1200	620	0.32	688	0.37	754	0.45	819	0.54	883	0.64	946	0.74	1008	0.85	1070	0.95
1300	638	0.35	706	0.40	772	0.48	837	0.57	901	0.67	964	0.77	1026	0.88	1088	0.98
1400	655	0.39	724	0.44	790	0.51	855	0.60	918	0.70	981	0.81	1044	0.91	1106	1.01
1500	673	0.43	741	0.48	807	0.56	872	0.65	936	0.75	999	0.85	1061	0.96	1124	1.06
1.5 HP & Field Supplied Drive																

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. KW = BHP x 0.932.

ZH049 (4.0 Ton) Side Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹															
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	FS ⁴		Standard 1.5 HP & Drive								Hi Static 1.5 HP & Drive					
1200	620	0.32	688	0.37	754	0.45	819	0.54	883	0.64	946	0.74	1008	0.85	1070	0.95
1300	638	0.35	706	0.40	772	0.48	837	0.57	901	0.67	964	0.77	1026	0.88	1088	0.98
1400	655	0.39	724	0.44	790	0.51	855	0.60	918	0.70	981	0.81	1044	0.91	1106	1.01
1500	673	0.43	741	0.48	807	0.56	872	0.65	936	0.75	999	0.85	1061	0.96	1124	1.06
1600	691	0.48	759	0.54	825	0.61	890	0.70	954	0.80	1017	0.90	1079	1.01	1141	1.11
1700	709	0.54	777	0.59	843	0.67	908	0.76	972	0.86	1035	0.96	1097	1.07	1160	1.17
1800	728	0.60	796	0.66	862	0.73	927	0.82	991	0.92	1053	1.03	1116	1.13	1178	1.23
1900	747	0.67	815	0.73	881	0.80	946	0.89	1010	0.99	1073	1.09	1135	1.20	1197	1.30
2000	766	0.75	834	0.80	901	0.87	966	0.96	1029	1.06	1092	1.17	1155	1.27	1217	1.37

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. KW = BHP x 0.932.
4. Field Supplied Drive.

ZH061 (5.0 Ton) Side Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹															
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	1.5 HP & Field Supplied Drive						Standard 1.5 HP & Drive						Hi Static 2 HP & Drive			
1500	659	0.35	719	0.46	780	0.57	843	0.67	905	0.77	964	0.87	1020	0.97	1071	1.07
1600	675	0.38	735	0.50	796	0.60	859	0.71	920	0.81	980	0.91	1036	1.01	1087	1.11
1700	691	0.42	751	0.54	812	0.64	875	0.75	936	0.85	996	0.95	1052	1.05	1103	1.15
1800	707	0.47	767	0.58	829	0.69	891	0.79	953	0.90	1012	0.99	1069	1.09	1120	1.20
1900	724	0.53	784	0.64	846	0.75	908	0.85	970	0.95	1029	1.05	1085	1.15	1137	1.25
2000	741	0.59	801	0.70	863	0.81	925	0.91	987	1.01	1047	1.11	1103	1.21	1154	1.31
2100	759	0.65	819	0.77	881	0.87	943	0.98	1005	1.08	1065	1.18	1121	1.28	1172	1.38
2200	778	0.73	838	0.84	900	0.95	962	1.05	1024	1.15	1083	1.25	1139	1.35	1191	1.45
2300	797	0.81	857	0.92	919	1.03	981	1.13	1043	1.23	1103	1.33	1159	1.43	1210	1.53
2400	817	0.90	877	1.01	939	1.12	1002	1.22	1063	1.32	1123	1.42	1179	1.52	1230	1.62
2500	838	1.00	898	1.11	960	1.22	1022	1.32	1084	1.42	1144	1.52	1200	1.62	1251	1.72
FS ⁴																

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. KW = BHP x 0.932.
4. Field Supplied Drive.

ZH078 (6.5 Ton) Side Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Field Supplied Drive						Standard 1.5 HP & Drive						Hi Static 2 HP & Drive							
1800	751	0.22	813	0.43	872	0.62	929	0.78	985	0.93	1040	1.07	1095	1.20	1150	1.33	1206	1.46	1265	1.59
2000	776	0.35	838	0.56	897	0.75	954	0.92	1010	1.07	1064	1.20	1119	1.33	1175	1.46	1231	1.59	1289	1.72
2200	804	0.50	866	0.71	925	0.90	982	1.06	1038	1.21	1092	1.35	1147	1.48	1203	1.61	1259	1.73	1317	1.87
2400	835	0.66	897	0.87	956	1.06	1013	1.22	1069	1.37	1124	1.51	1178	1.64	1234	1.77	1290	1.90	1348	2.03
2600	869	0.84	931	1.05	990	1.24	1047	1.40	1103	1.55	1158	1.69	1212	1.82	1268	1.95	1324	2.07	1382	2.21
2800	906	1.03	968	1.25	1027	1.43	1084	1.60	1139	1.75	1194	1.89	1249	2.02	1304	2.14	1361	2.27	-	-
3000	945	1.25	1007	1.46	1066	1.65	1123	1.81	1179	1.96	1234	2.10	1288	2.23	-	-	-	-	-	-
3200	987	1.48	1048	1.69	1107	1.88	1165	2.04	1220	2.19	-	-	-	-	-	-	-	-	-	-
3400	1030	1.73	1092	1.94	1151	2.12	1208	2.29	-	-	-	-	-	-	-	-	-	-	-	-
	2 HP & Field Supplied Drive																			

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.

ZH090 (7.5 Ton) Side Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Field Supplied Drive				Standard 1.5 HP & Drive								Hi Static 3 HP & Drive							
2000	776	0.35	838	0.56	897	0.75	954	0.92	1010	1.07	1064	1.20	1119	1.33	1175	1.46	1231	1.59	1289	1.72
2200	804	0.50	866	0.71	925	0.90	982	1.06	1038	1.21	1092	1.35	1147	1.48	1203	1.61	1259	1.73	1317	1.87
2400	835	0.66	897	0.87	956	1.06	1013	1.22	1069	1.37	1124	1.51	1178	1.64	1234	1.77	1290	1.90	1348	2.03
2600	869	0.84	931	1.05	990	1.24	1047	1.40	1103	1.55	1158	1.69	1212	1.82	1268	1.95	1324	2.07	1382	2.21
2800	906	1.03	968	1.25	1027	1.43	1084	1.60	1139	1.75	1194	1.89	1249	2.02	1304	2.14	1361	2.27	1419	2.40
3000	945	1.25	1007	1.46	1066	1.65	1123	1.81	1179	1.96	1234	2.10	1288	2.23	1344	2.36	1400	2.48	1458	2.62
3200	987	1.48	1048	1.69	1107	1.88	1165	2.04	1220	2.19	1275	2.33	1330	2.46	1385	2.59	1442	2.71	1500	2.85
3400	1030	1.73	1092	1.94	1151	2.12	1208	2.29	1264	2.44	1319	2.58	1374	2.71	1429	2.84	1485	2.96	1544	3.10
3600	1076	1.99	1138	2.20	1197	2.39	1254	2.56	1310	2.71	1364	2.84	1419	2.97	1475	3.10	1531	3.23	1589	3.36
3800	1124	2.27	1185	2.48	1245	2.67	1302	2.84	1357	2.99	1412	3.12	1467	3.25	1522	3.38	-	-	-	-
	3 HP & Field Supplied Drive																			

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.

ZH102 (8.5 Ton) Side Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Field Supplied Drive				Standard 2 HP & Drive						Hi Static 3 HP & Drive									
2600	628	0.56	678	0.76	730	0.93	781	1.09	833	1.25	883	1.41	933	1.59	980	1.80	1025	2.05	1068	2.35
2800	648	0.67	698	0.87	750	1.04	801	1.20	853	1.36	903	1.52	953	1.70	1000	1.91	1046	2.16	1088	2.46
3000	666	0.80	717	1.00	768	1.17	820	1.33	871	1.49	922	1.65	971	1.83	1019	2.04	1064	2.29	1106	2.59
3200	684	0.95	735	1.15	786	1.32	838	1.48	889	1.63	940	1.80	989	1.98	1037	2.19	1082	2.44	1124	2.74
3400	702	1.11	753	1.31	804	1.48	856	1.64	907	1.79	958	1.96	1007	2.14	1055	2.35	1100	2.60	1142	2.90
3600	721	1.28	772	1.48	824	1.65	875	1.81	927	1.97	977	2.13	1027	2.31	1074	2.52	1119	2.77	-	-
3800	742	1.47	793	1.67	844	1.84	896	2.00	947	2.15	998	2.32	1047	2.50	1095	2.71	1140	2.96	-	-
4000	765	1.67	815	1.86	867	2.04	918	2.19	970	2.35	1020	2.51	1070	2.70	1117	2.91	-	-	-	-
4200	789	1.87	840	2.07	891	2.24	943	2.40	995	2.56	1045	2.72	1094	2.90	-	-	-	-	-	-
	3 HP & Field Supplied Drive																			

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.

ZH120 (10 Ton) Side Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹											
	0.2		0.4		0.6		0.8		1.0		1.2	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Field Supplied Drive				Standard 2 HP & Drive				Hi Static 3 HP & Drive			
2600	675	0.53	726	0.74	776	0.94	824	1.12	870	1.30	914	1.48
2800	686	0.63	738	0.84	787	1.04	835	1.23	881	1.41	925	1.58
3000	699	0.75	750	0.96	800	1.16	847	1.34	893	1.52	938	1.70
3200	713	0.88	764	1.09	814	1.28	861	1.47	907	1.65	952	1.83
3400	728	1.02	779	1.23	829	1.43	877	1.61	923	1.79	967	1.97
3600	745	1.18	796	1.39	846	1.59	893	1.77	939	1.95	984	2.13
3800	763	1.36	815	1.57	864	1.76	912	1.95	958	2.13	1002	2.31
4000	783	1.55	835	1.76	884	1.96	932	2.15	978	2.33	1022	2.50
4200	805	1.77	856	1.98	906	2.17	953	2.36	999	2.54	1044	2.72
4400	828	2.00	879	2.21	929	2.41	976	2.59	1022	2.77	1067	2.95
4600	852	2.25	904	2.46	953	2.66	1001	2.85	1047	3.03	1092	3.20
4800	879	2.52	930	2.73	980	2.93	1027	3.12	1073	3.30	-	-
5000	906	2.81	958	3.02	1007	3.22	1055	3.41	-	-	-	-

3 HP & Field Supplied Drive

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. KW = BHP x 0.932.

ZH150 (12.5 Ton) Side Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹											
	0.2		0.4		0.6		0.8		1.0		1.2	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Field Supplied Drive				Standard 3 HP & Drive				Hi Static 5 HP & Drive			
3200	713	0.88	764	1.09	814	1.28	861	1.47	907	1.65	952	1.83
3400	728	1.02	779	1.23	829	1.43	877	1.61	923	1.79	967	1.97
3600	745	1.18	796	1.39	846	1.59	893	1.77	939	1.95	984	2.13
3800	763	1.36	815	1.57	864	1.76	912	1.95	958	2.13	1002	2.31
4000	783	1.55	835	1.76	884	1.96	932	2.15	978	2.33	1022	2.50
4200	805	1.77	856	1.98	906	2.17	953	2.36	999	2.54	1044	2.72
4400	828	2.00	879	2.21	929	2.41	976	2.59	1022	2.77	1067	2.95
4600	852	2.25	904	2.46	953	2.66	1001	2.85	1047	3.03	1092	3.20
4800	879	2.52	930	2.73	980	2.93	1027	3.12	1073	3.30	1118	3.47
5000	906	2.81	958	3.02	1007	3.22	1055	3.41	1101	3.59	1146	3.76
5200	936	3.12	987	3.33	1037	3.53	1084	3.72	1130	3.90	1175	4.07
5400	966	3.45	1018	3.66	1067	3.86	1115	4.05	1161	4.23	1206	4.40
5600	999	3.80	1050	4.01	1100	4.20	1147	4.39	1193	4.57	1238	4.75
5800	1032	4.16	1084	4.37	1133	4.57	1181	4.75	1227	4.93	1271	5.11
6000	1067	4.54	1119	4.75	1168	4.95	1216	5.13	1262	5.31	1306	5.49
6200	1103	4.94	1155	5.15	1204	5.34	1252	5.53	1298	5.71	-	-

5 HP & Field Supplied Drive

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. KW = BHP x 0.932.

ZH037-150 Bottom Duct Application**ZH037 (3.0 Ton) Bottom Duct**

Air Flow (CFM)	Available External Static Pressure - IWG ¹																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Standard 1.5 HP & Drive						Hi Static 1.5 HP & Drive													
900	605	0.23	671	0.33	738	0.42	804	0.52	869	0.62	933	0.71	995	0.80	1054	0.89	1111	0.98	1164	1.07
1000	621	0.25	688	0.34	754	0.44	820	0.53	885	0.63	949	0.72	1011	0.82	1071	0.91	1127	1.00	1180	1.09
1100	637	0.27	703	0.36	769	0.46	835	0.56	900	0.65	964	0.74	1026	0.84	1086	0.93	1142	1.02	1195	1.11
1200	651	0.30	717	0.39	784	0.49	850	0.58	915	0.68	979	0.77	1041	0.87	1100	0.96	1157	1.05	1210	1.13
1300	666	0.33	732	0.43	799	0.52	865	0.62	930	0.71	994	0.81	1056	0.90	1115	0.99	1172	1.08	1225	1.17
1400	681	0.37	747	0.47	814	0.56	880	0.66	945	0.75	1009	0.85	1071	0.94	1130	1.03	1187	1.12	1240	1.21
1500	697	0.42	763	0.51	830	0.61	896	0.71	961	0.80	1025	0.90	1087	0.99	1146	1.08	1203	1.17	1256	1.26
1.5 HP & Field Supplied Drive																				

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.

ZH049 (4.0 Ton) Bottom Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	FS ⁴		Standard 1.5 HP & Drive										Hi Static 1.5 HP & Drive							
1200	651	0.30	717	0.39	784	0.49	850	0.58	915	0.68	979	0.77	1041	0.87	1100	0.96	1157	1.05	1210	1.13
1300	666	0.33	732	0.43	799	0.52	865	0.62	930	0.71	994	0.81	1056	0.90	1115	0.99	1172	1.08	1225	1.17
1400	681	0.37	747	0.47	814	0.56	880	0.66	945	0.75	1009	0.85	1071	0.94	1130	1.03	1187	1.12	1240	1.21
1500	697	0.42	763	0.51	830	0.61	896	0.71	961	0.80	1025	0.90	1087	0.99	1146	1.08	1203	1.17	1256	1.26
1600	714	0.47	780	0.57	846	0.66	913	0.76	978	0.86	1042	0.95	1103	1.04	1163	1.14	1220	1.22	1273	1.31
1700	732	0.53	798	0.63	864	0.73	930	0.82	996	0.92	1059	1.01	1121	1.10	1181	1.20	1237	1.29	1291	1.37
1800	751	0.60	817	0.70	883	0.79	950	0.89	1015	0.98	1079	1.08	1140	1.17	1200	1.26	1257	1.35	1310	1.44
1900	771	0.68	837	0.77	904	0.87	970	0.96	1035	1.06	1099	1.15	1161	1.25	1220	1.34	1277	1.43	-	-
2000	793	0.75	859	0.85	925	0.95	991	1.04	1056	1.14	1120	1.23	1182	1.32	1242	1.42	1298	1.51	-	-

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.
4. Field Supplied Drive.

ZH061 (5.0 Ton) Bottom Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	1.5 HP & Field Supplied Drive				Standard 1.5 HP & Drive								Hi Static 2 HP & Drive							
1500	673	0.47	736	0.54	797	0.63	855	0.72	910	0.82	964	0.92	1016	1.03	1067	1.14	1117	1.25	1166	1.36
1600	693	0.49	756	0.57	817	0.65	874	0.75	930	0.85	984	0.95	1036	1.06	1087	1.17	1137	1.28	1186	1.39
1700	713	0.53	777	0.60	837	0.69	895	0.78	951	0.88	1004	0.98	1057	1.09	1107	1.20	1157	1.31	1207	1.42
1800	734	0.57	797	0.65	858	0.73	916	0.83	971	0.92	1025	1.03	1077	1.14	1128	1.25	1178	1.36	1228	1.47
1900	755	0.62	819	0.70	879	0.79	937	0.88	992	0.98	1046	1.08	1098	1.19	1149	1.30	1199	1.41	1249	1.52
2000	776	0.69	840	0.76	900	0.85	958	0.94	1014	1.04	1067	1.14	1120	1.25	1171	1.36	1221	1.47	1270	1.59
2100	798	0.76	861	0.84	921	0.92	979	1.02	1035	1.11	1089	1.22	1141	1.32	1192	1.44	1242	1.55	1291	1.66
2200	819	0.84	882	0.92	943	1.00	1001	1.10	1056	1.20	1110	1.30	1162	1.41	1213	1.52	1263	1.63	1312	1.74
2300	840	0.93	903	1.01	964	1.10	1022	1.19	1077	1.29	1131	1.39	1183	1.50	1234	1.61	1284	1.72	1334	1.83
2400	861	1.03	925	1.11	985	1.20	1043	1.29	1099	1.39	1152	1.49	1204	1.60	1255	1.71	1305	1.82	1355	1.93
2500	882	1.14	946	1.22	1006	1.30	1064	1.40	1120	1.50	1173	1.60	1226	1.71	1276	1.82	1326	1.93	1376	2.04
	3 HP & Field Supplied Drive																			

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.

ZH078 (6.5 Ton) Bottom Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Field Supplied Drive				Standard 1.5 HP & Drive						Hi Static 2 HP & Drive									
1800	775	0.31	850	0.53	924	0.72	998	0.89	1072	1.05	1147	1.20	1224	1.35	1303	1.51	1384	1.69	1469	1.89
2000	803	0.45	878	0.67	952	0.86	1026	1.03	1100	1.19	1175	1.34	1252	1.49	1331	1.65	1412	1.83	1497	2.03
2200	838	0.60	913	0.82	986	1.01	1060	1.19	1134	1.34	1210	1.49	1286	1.65	1365	1.81	1447	1.98	1532	2.18
2400	878	0.78	953	1.00	1027	1.19	1100	1.36	1174	1.52	1250	1.67	1327	1.82	1405	1.98	1487	2.16	-	-
2600	923	0.98	997	1.20	1071	1.39	1145	1.56	1219	1.72	1294	1.87	1371	2.02	1450	2.18	-	-	-	-
2800	971	1.20	1046	1.42	1119	1.61	1193	1.78	1267	1.94	1343	2.09	1419	2.24	-	-	-	-	-	-
3000	1023	1.44	1097	1.66	1171	1.85	1245	2.03	1319	2.18	-	-	-	-	-	-	-	-	-	-
3200	1077	1.71	1151	1.93	1225	2.12	1299	2.29	-	-	-	-	-	-	-	-	-	-	-	-
3400	1133	1.99	1208	2.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2 HP & Field Supplied Drive																			

2 HP & Field Supplied Drive

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.

ZH090 (7.5 Ton) Bottom Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹																					
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0			
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP		
	Field Supplied Drive				Standard 1.5 HP & Drive						Hi Static 3 HP & Drive											
2000	803	0.45	878	0.67	952	0.86	1026	1.03	1100	1.19	1175	1.34	1252	1.49	1331	1.65	1412	1.83	1497	2.03		
2200	838	0.60	913	0.82	986	1.01	1060	1.19	1134	1.34	1210	1.49	1286	1.65	1365	1.81	1447	1.98	1532	2.18		
2400	878	0.78	953	1.00	1027	1.19	1100	1.36	1174	1.52	1250	1.67	1327	1.82	1405	1.98	1487	2.16	1572	2.36		
2600	923	0.98	997	1.20	1071	1.39	1145	1.56	1219	1.72	1294	1.87	1371	2.02	1450	2.18	1532	2.36	1617	2.56		
2800	971	1.20	1046	1.42	1119	1.61	1193	1.78	1267	1.94	1343	2.09	1419	2.24	1498	2.40	1580	2.58	1665	2.78		
3000	1023	1.44	1097	1.66	1171	1.85	1245	2.03	1319	2.18	1394	2.33	1471	2.49	1550	2.65	1632	2.82	1717	3.02		
3200	1077	1.71	1151	1.93	1225	2.12	1299	2.29	1373	2.45	1448	2.60	1525	2.75	1604	2.91	1686	3.09	1771	3.29		
3400	1133	1.99	1208	2.21	1282	2.41	1356	2.58	1430	2.73	1505	2.88	1582	3.04	1661	3.20	1742	3.37	-	-		
3600	1192	2.30	1267	2.52	1341	2.71	1414	2.88	1489	3.04	1564	3.19	1641	3.34	-	-	-	-	-	-		
3800	1253	2.63	1327	2.85	1401	3.04	1475	3.21	1549	3.37	-	-	-	-	-	-	-	-	-	-		
	3 HP & Field Supplied Drive																					

3 HP & Field Supplied Drive

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.

ZH102 (8.5 Ton) Bottom Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	FS ⁴		Standard 2 HP & Drive						Hi Static 3 HP & Drive											
2600	674	0.71	731	0.88	786	1.05	838	1.24	887	1.42	933	1.59	974	1.74	1010	1.87	1040	1.97	1064	2.03
2800	689	0.86	746	1.02	801	1.20	854	1.38	903	1.56	948	1.73	989	1.88	1025	2.01	1056	2.11	1080	2.17
3000	707	1.01	764	1.17	819	1.35	872	1.53	921	1.71	966	1.88	1007	2.03	1043	2.16	1074	2.26	1098	2.32
3200	728	1.17	785	1.33	840	1.51	892	1.69	941	1.87	987	2.04	1028	2.20	1064	2.33	1094	2.42	1118	2.48
3400	751	1.34	808	1.51	863	1.68	915	1.87	964	2.05	1010	2.22	1051	2.37	1087	2.50	1117	2.60	1141	2.66
3600	776	1.53	833	1.70	888	1.87	941	2.06	990	2.24	1035	2.41	1076	2.56	1112	2.69	1142	2.79	1167	2.85
3800	804	1.74	861	1.90	916	2.08	969	2.26	1018	2.44	1063	2.61	1104	2.77	1140	2.90	1170	2.99	-	-
4000	835	1.97	892	2.13	947	2.31	999	2.49	1048	2.67	1094	2.84	1135	2.99	-	-	-	-	-	-
4200	867	2.21	924	2.37	979	2.55	1032	2.73	1081	2.91	1127	3.08	-	-	3 HP & Field Supplied Drive					

3 HP & Field Supplied Drive

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.
4. Field Supplied Drive.

ZH120 (10 Ton) Bottom Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Field Supplied Drive		Standard 2 HP & Drive										Hi Static 3 HP & Drive							
2600	722	0.83	776	0.97	828	1.11	878	1.25	926	1.37	973	1.50	1018	1.62	1063	1.74	1106	1.86	1149	1.99
2800	744	0.97	798	1.12	850	1.26	900	1.39	949	1.52	995	1.64	1041	1.76	1085	1.88	1128	2.00	1171	2.13
3000	769	1.13	823	1.28	875	1.42	925	1.55	974	1.68	1020	1.80	1066	1.92	1110	2.05	1153	2.17	1196	2.29
3200	797	1.32	851	1.46	903	1.60	953	1.74	1001	1.86	1048	1.99	1093	2.11	1138	2.23	1181	2.35	1224	2.48
3400	828	1.52	882	1.67	934	1.81	983	1.94	1032	2.07	1078	2.19	1124	2.32	1168	2.44	1212	2.56	1254	2.68
3600	861	1.75	915	1.90	967	2.04	1017	2.17	1065	2.30	1112	2.42	1157	2.54	1201	2.67	1245	2.79	1287	2.91
3800	897	2.00	951	2.15	1002	2.29	1052	2.42	1101	2.55	1147	2.67	1193	2.80	1237	2.92	1280	3.04	1323	3.16
4000	935	2.27	989	2.42	1041	2.56	1091	2.69	1139	2.82	1186	2.95	1231	3.07	1275	3.19	1319	3.31	1362	3.43
4200	976	2.57	1030	2.72	1082	2.86	1132	2.99	1180	3.12	1227	3.24	1272	3.36	-	-	-	-	-	-
4400	1019	2.88	1073	3.03	1125	3.17	1175	3.30	1223	3.43	-	-	-	-	-	-	-	-	-	-
4600	1065	3.22	1119	3.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3 HP & Field Supplied Drive																				

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.

ZH150 (12.5 Ton) Bottom Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Field Supplied Drive				Standard 3 HP & Drive								Hi Static 5 HP & Drive							
3200	797	1.32	851	1.46	903	1.60	953	1.74	1001	1.86	1048	1.99	1093	2.11	1138	2.23	1181	2.35	1224	2.48
3400	828	1.52	882	1.67	934	1.81	983	1.94	1032	2.07	1078	2.19	1124	2.32	1168	2.44	1212	2.56	1254	2.68
3600	861	1.75	915	1.90	967	2.04	1017	2.17	1065	2.30	1112	2.42	1157	2.54	1201	2.67	1245	2.79	1287	2.91
3800	897	2.00	951	2.15	1002	2.29	1052	2.42	1101	2.55	1147	2.67	1193	2.80	1237	2.92	1280	3.04	1323	3.16
4000	935	2.27	989	2.42	1041	2.56	1091	2.69	1139	2.82	1186	2.95	1231	3.07	1275	3.19	1319	3.31	1362	3.43
4200	976	2.57	1030	2.72	1082	2.86	1132	2.99	1180	3.12	1227	3.24	1272	3.36	1316	3.48	1360	3.60	1402	3.73
4400	1019	2.88	1073	3.03	1125	3.17	1175	3.30	1223	3.43	1270	3.55	1315	3.67	1360	3.80	1403	3.92	1446	4.04
4600	1065	3.22	1119	3.36	1171	3.50	1221	3.64	1269	3.76	1316	3.89	1361	4.01	1405	4.13	1449	4.25	1491	4.38
4800	1113	3.57	1167	3.72	1219	3.86	1269	3.99	1317	4.12	1364	4.24	1409	4.36	1453	4.48	1497	4.61	1540	4.73
5000	1163	3.94	1217	4.09	1269	4.23	1319	4.36	1367	4.49	1414	4.62	1459	4.74	1504	4.86	1547	4.98	1590	5.10
5200	1216	4.34	1270	4.48	1321	4.62	1371	4.76	1420	4.88	1466	5.01	1512	5.13	1556	5.25	1600	5.37	1642	5.50
5400	1270	4.75	1324	4.89	1376	5.03	1426	5.17	1474	5.29	1521	5.42	1566	5.54	1611	5.66	-	-	-	-
5600	1327	5.17	1381	5.32	1433	5.46	1483	5.59	1531	5.72	-	-	-	-	-	-	-	-	-	-
5800	1385	5.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5 HP & Field Supplied Drive																			

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.

ZJ037-150 Side Duct Application**ZJ037 (3.0 Ton) Side Duct**

Air Flow (CFM)	Available External Static Pressure - IWG ¹																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Standard 1.5 HP & Drive								Hi Static 1.5 HP & Drive											
900	560	0.29	628	0.35	695	0.42	760	0.51	823	0.61	886	0.72	949	0.82	1011	0.92	1073	1.01	1136	1.09
1000	582	0.29	650	0.34	716	0.42	781	0.51	845	0.61	908	0.71	970	0.82	1032	0.92	1095	1.01	1158	1.08
1100	601	0.30	670	0.35	736	0.43	801	0.52	864	0.62	927	0.72	990	0.83	1052	0.93	1114	1.02	1177	1.09
1200	620	0.32	688	0.37	754	0.45	819	0.54	883	0.64	946	0.74	1008	0.85	1070	0.95	1133	1.04	1196	1.11
1300	638	0.35	706	0.40	772	0.48	837	0.57	901	0.67	964	0.77	1026	0.88	1088	0.98	1151	1.06	1214	1.14
1400	655	0.39	724	0.44	790	0.51	855	0.60	918	0.70	981	0.81	1044	0.91	1106	1.01	1168	1.10	1231	1.18
1500	673	0.43	741	0.48	807	0.56	872	0.65	936	0.75	999	0.85	1061	0.96	1124	1.06	1186	1.15	1249	1.22
	1.5 HP & Field Supplied Drive																			

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.

ZJ049 (4.0 Ton) Side Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	FS ⁴		Standard 1.5 HP & Drive												Hi Static 1.5 HP & Drive					
1200	608	0.25	677	0.34	744	0.44	807	0.54	868	0.64	927	0.74	986	0.84	1043	0.93	1101	1.02	1160	1.10
1300	623	0.28	692	0.37	758	0.47	822	0.57	883	0.67	942	0.77	1001	0.86	1058	0.96	1116	1.04	1175	1.13
1400	637	0.31	706	0.40	772	0.50	836	0.60	897	0.70	956	0.80	1015	0.90	1072	0.99	1130	1.08	1189	1.16
1500	650	0.35	720	0.44	786	0.54	849	0.64	911	0.74	970	0.84	1028	0.93	1086	1.03	1144	1.12	1202	1.20
1600	664	0.39	734	0.49	800	0.58	863	0.68	924	0.78	984	0.88	1042	0.98	1100	1.07	1158	1.16	1216	1.24
1700	678	0.44	748	0.54	814	0.63	877	0.73	938	0.83	998	0.93	1056	1.03	1114	1.12	1172	1.21	1230	1.29
1800	693	0.50	763	0.59	829	0.69	892	0.79	953	0.89	1013	0.99	1071	1.08	1129	1.18	1186	1.26	1245	1.35
1900	708	0.56	778	0.65	844	0.75	907	0.85	968	0.95	1028	1.05	1086	1.15	1144	1.24	1202	1.33	1260	1.41
2000	725	0.62	794	0.72	860	0.82	924	0.92	985	1.02	1044	1.12	1102	1.21	1160	1.30	1218	1.39	1277	1.47

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.
4. Field Supplied Drive

ZJ061 (5.0 Ton) Side Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	1.5 HP & Field Supplied Drive						Standard 1.5 HP & Drive						Hi Static 2 HP & Drive							
1500	659	0.35	719	0.46	780	0.57	843	0.67	905	0.77	964	0.87	1020	0.97	1071	1.07	1116	1.17	1154	1.28
1600	675	0.38	735	0.50	796	0.60	859	0.71	920	0.81	980	0.91	1036	1.01	1087	1.11	1132	1.21	1170	1.32
1700	691	0.42	751	0.54	812	0.64	875	0.75	936	0.85	996	0.95	1052	1.05	1103	1.15	1148	1.25	1186	1.36
1800	707	0.47	767	0.58	829	0.69	891	0.79	953	0.90	1012	0.99	1069	1.09	1120	1.20	1165	1.30	1202	1.41
1900	724	0.53	784	0.64	846	0.75	908	0.85	970	0.95	1029	1.05	1085	1.15	1137	1.25	1182	1.35	1219	1.46
2000	741	0.59	801	0.70	863	0.81	925	0.91	987	1.01	1047	1.11	1103	1.21	1154	1.31	1199	1.41	1236	1.52
2100	759	0.65	819	0.77	881	0.87	943	0.98	1005	1.08	1065	1.18	1121	1.28	1172	1.38	1217	1.48	1254	1.59
2200	778	0.73	838	0.84	900	0.95	962	1.05	1024	1.15	1083	1.25	1139	1.35	1191	1.45	1236	1.56	1273	1.66
2300	797	0.81	857	0.92	919	1.03	981	1.13	1043	1.23	1103	1.33	1159	1.43	1210	1.53	1255	1.64	1292	1.74
2400	817	0.90	877	1.01	939	1.12	1002	1.22	1063	1.32	1123	1.42	1179	1.52	1230	1.62	1275	1.73	1312	1.83
2500	838	1.00	898	1.11	960	1.22	1022	1.32	1084	1.42	1144	1.52	1200	1.62	1251	1.72	1296	1.82	1333	1.93
	FS ⁴																			

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.
4. Field Supplied Drive.

ZJ078 (6.5 Ton) Side Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	FS ⁴				Standard 1.5 HP & Drive								Hi Static 2 HP & Drive							
1800	514	0.15	586	0.33	657	0.52	727	0.71	794	0.89	857	1.07	917	1.23	972	1.38	1021	1.50	1064	1.59
2000	529	0.23	601	0.41	672	0.60	741	0.79	808	0.97	872	1.15	931	1.31	986	1.46	1036	1.58	1079	1.67
2200	544	0.33	616	0.51	687	0.69	756	0.88	823	1.07	886	1.24	946	1.41	1001	1.55	1051	1.67	1094	1.77
2400	559	0.43	631	0.61	702	0.80	771	0.98	838	1.17	902	1.35	961	1.51	1016	1.65	1066	1.78	1109	1.87
2600	574	0.54	646	0.72	717	0.91	787	1.10	853	1.28	917	1.46	977	1.62	1032	1.77	1081	1.89	1124	1.98
2800	590	0.67	662	0.85	733	1.03	802	1.22	869	1.41	933	1.59	993	1.75	1047	1.89	1097	2.02	1140	2.11
3000	607	0.80	679	0.98	750	1.17	819	1.36	886	1.54	949	1.72	1009	1.88	1064	2.03	1113	2.15	1157	2.24
3200	624	0.95	695	1.13	766	1.31	836	1.50	903	1.69	966	1.86	1026	2.03	1081	2.17	1130	2.29	-	-
3400	641	1.10	713	1.28	784	1.47	853	1.66	920	1.84	984	2.02	1043	2.18	1098	2.33	-	-	-	-
													FS ⁴							

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.
4. Field Supplied Drive.

ZJ090 (7.5 Ton) Side Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	FS ⁴				Standard 1.5 HP & Drive								Hi Static 3 HP & Drive							
2000	-	-	656	0.24	711	0.48	768	0.73	826	0.96	886	1.19	945	1.41	1003	1.61	1058	1.79	1110	1.95
2200	619	0.07	670	0.32	724	0.57	781	0.81	840	1.04	899	1.27	959	1.49	1016	1.69	1072	1.87	1124	2.04
2400	631	0.16	682	0.41	736	0.66	793	0.90	852	1.14	911	1.36	970	1.58	1028	1.78	1084	1.97	1136	2.13
2600	642	0.27	692	0.52	747	0.76	804	1.01	862	1.24	922	1.47	981	1.69	1039	1.89	1094	2.07	1146	2.24
2800	652	0.39	703	0.64	757	0.88	814	1.13	873	1.36	932	1.59	992	1.81	1049	2.01	1105	2.19	1157	2.36
3000	663	0.53	714	0.77	768	1.02	825	1.26	884	1.50	943	1.73	1003	1.94	1060	2.14	1116	2.33	1168	2.49
3200	675	0.68	726	0.92	780	1.17	837	1.41	896	1.65	955	1.88	1014	2.09	1072	2.29	1128	2.48	1180	2.64
3400	688	0.84	739	1.09	793	1.34	850	1.58	909	1.82	968	2.04	1027	2.26	1085	2.46	1141	2.65	1193	2.81
3600	703	1.03	753	1.28	807	1.52	864	1.76	923	2.00	983	2.23	1042	2.44	1100	2.64	1155	2.83	-	-
3800	718	1.23	769	1.47	823	1.72	880	1.96	939	2.20	998	2.43	1058	2.64	1115	2.84	1171	3.03	-	-

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.
4. Field Supplied Drive.

ZJ102 (8.5 Ton) Side Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Field Supplied Drive				Standard 2 HP & Drive								Hi Static 3 HP & Drive							
2200	654	0.32	706	0.53	755	0.73	803	0.92	849	1.10	893	1.27	937	1.44	979	1.62	1020	1.79	1061	1.96
2400	664	0.43	716	0.64	765	0.83	813	1.02	859	1.20	904	1.38	947	1.55	989	1.72	1030	1.89	1071	2.07
2600	675	0.53	726	0.74	776	0.94	824	1.12	870	1.30	914	1.48	957	1.65	1000	1.82	1041	1.99	1082	2.17
2800	686	0.63	738	0.84	787	1.04	835	1.23	881	1.41	925	1.58	969	1.76	1011	1.93	1052	2.10	1093	2.27
3000	699	0.75	750	0.96	800	1.16	847	1.34	893	1.52	938	1.70	981	1.87	1024	2.04	1065	2.21	1106	2.39
3200	713	0.88	764	1.09	814	1.28	861	1.47	907	1.65	952	1.83	995	2.00	1037	2.17	1079	2.34	1119	2.52
3400	728	1.02	779	1.23	829	1.43	877	1.61	923	1.79	967	1.97	1010	2.14	1053	2.31	1094	2.48	1135	2.66
3600	745	1.18	796	1.39	846	1.59	893	1.77	939	1.95	984	2.13	1027	2.30	1069	2.47	1111	2.64	1152	2.82
3800	763	1.36	815	1.57	864	1.76	912	1.95	958	2.13	1002	2.31	1046	2.48	1088	2.65	1129	2.82	1170	3.00
4000	783	1.55	835	1.76	884	1.96	932	2.15	978	2.33	1022	2.50	1066	2.67	1108	2.84	1149	3.02	1190	3.19
4200	805	1.77	856	1.98	906	2.17	953	2.36	999	2.54	1044	2.72	1087	2.89	1129	3.06	1171	3.23	1211	3.41
													3 HP & Field Supplied Drive							

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.

ZJ120 (10 Ton) Side Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹											
	0.2		0.4		0.6		0.8		1.0		1.2	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Field Supplied Drive				Standard 2 HP & Drive				Hi Static 3 HP & Drive			
2600	675	0.53	726	0.74	776	0.94	824	1.12	870	1.30	914	1.48
2800	686	0.63	738	0.84	787	1.04	835	1.23	881	1.41	925	1.58
3000	699	0.75	750	0.96	800	1.16	847	1.34	893	1.52	938	1.70
3200	713	0.88	764	1.09	814	1.28	861	1.47	907	1.65	952	1.83
3400	728	1.02	779	1.23	829	1.43	877	1.61	923	1.79	967	1.97
3600	745	1.18	796	1.39	846	1.59	893	1.77	939	1.95	984	2.13
3800	763	1.36	815	1.57	864	1.76	912	1.95	958	2.13	1002	2.31
4000	783	1.55	835	1.76	884	1.96	932	2.15	978	2.33	1022	2.50
4200	805	1.77	856	1.98	906	2.17	953	2.36	999	2.54	1044	2.72
4400	828	2.00	879	2.21	929	2.41	976	2.59	1022	2.77	1067	2.95
4600	852	2.25	904	2.46	953	2.66	1001	2.85	1047	3.03	1092	3.20
4800	879	2.52	930	2.73	980	2.93	1027	3.12	1073	3.30	-	-
5000	906	2.81	958	3.02	1007	3.22	1055	3.41	-	-	-	-

3 HP & Field Supplied Drive

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. KW = BHP x 0.932.

ZJ150 (12.5 Ton) Side Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹											
	0.2		0.4		0.6		0.8		1.0		1.2	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Field Supplied Drive				Standard 3 HP & Drive				Hi Static 5 HP & Drive			
3200	713	0.88	764	1.09	814	1.28	861	1.47	907	1.65	952	1.83
3400	728	1.02	779	1.23	829	1.43	877	1.61	923	1.79	967	1.97
3600	745	1.18	796	1.39	846	1.59	893	1.77	939	1.95	984	2.13
3800	763	1.36	815	1.57	864	1.76	912	1.95	958	2.13	1002	2.31
4000	783	1.55	835	1.76	884	1.96	932	2.15	978	2.33	1022	2.50
4200	805	1.77	856	1.98	906	2.17	953	2.36	999	2.54	1044	2.72
4400	828	2.00	879	2.21	929	2.41	976	2.59	1022	2.77	1067	2.95
4600	852	2.25	904	2.46	953	2.66	1001	2.85	1047	3.03	1092	3.20
4800	879	2.52	930	2.73	980	2.93	1027	3.12	1073	3.30	1118	3.47
5000	906	2.81	958	3.02	1007	3.22	1055	3.41	1101	3.59	1146	3.76
5200	936	3.12	987	3.33	1037	3.53	1084	3.72	1130	3.90	1175	4.07
5400	966	3.45	1018	3.66	1067	3.86	1115	4.05	1161	4.23	1206	4.40
5600	999	3.80	1050	4.01	1100	4.20	1147	4.39	1193	4.57	1238	4.75
5800	1032	4.16	1084	4.37	1133	4.57	1181	4.75	1227	4.93	1271	5.11
6000	1067	4.54	1119	4.75	1168	4.95	1216	5.13	1262	5.31	1306	5.49
6200	1103	4.94	1155	5.15	1204	5.34	1252	5.53	1298	5.71	-	-

5 HP & Field Supplied Drive

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. KW = BHP x 0.932.

ZJ037-150 Bottom Duct Application**ZJ037 (3.0 Ton) Bottom Duct**

Air Flow (CFM)	Available External Static Pressure - IWG ¹															
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Standard 1.5 HP & Drive				Hi Static 1.5 HP & Drive											
900	605	0.23	671	0.33	738	0.42	804	0.52	869	0.62	933	0.71	995	0.80	1054	0.89
1000	621	0.25	688	0.34	754	0.44	820	0.53	885	0.63	949	0.72	1011	0.82	1071	0.91
1100	637	0.27	703	0.36	769	0.46	835	0.56	900	0.65	964	0.74	1026	0.84	1086	0.93
1200	651	0.30	717	0.39	784	0.49	850	0.58	915	0.68	979	0.77	1041	0.87	1100	0.96
1300	666	0.33	732	0.43	799	0.52	865	0.62	930	0.71	994	0.81	1056	0.90	1115	0.99
1400	681	0.37	747	0.47	814	0.56	880	0.66	945	0.75	1009	0.85	1071	0.94	1130	1.03
1500	697	0.42	763	0.51	830	0.61	896	0.71	961	0.80	1025	0.90	1087	0.99	1146	1.08
1.5 HP & Field Supplied Drive																

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. KW = BHP x 0.932.

ZJ049 (4.0 Ton) Bottom Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹															
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	FS ⁴		Standard 1.5 HP & Drive				Hi Static 1.5 HP & Drive									
1200	635	0.25	704	0.34	770	0.44	832	0.54	893	0.65	953	0.75	1013	0.85	1073	0.94
1300	648	0.28	717	0.38	782	0.47	845	0.58	906	0.68	966	0.78	1025	0.88	1085	0.97
1400	661	0.32	730	0.42	796	0.51	858	0.62	919	0.72	979	0.82	1039	0.92	1099	1.01
1500	675	0.37	744	0.46	810	0.56	872	0.66	933	0.77	993	0.87	1053	0.96	1113	1.05
1600	690	0.42	759	0.51	825	0.61	887	0.72	948	0.82	1008	0.92	1068	1.02	1128	1.11
1700	706	0.48	775	0.57	841	0.67	903	0.77	964	0.88	1024	0.98	1084	1.08	1144	1.17
1800	723	0.55	792	0.64	857	0.74	920	0.84	981	0.94	1041	1.04	1101	1.14	1161	1.23
1900	741	0.62	810	0.71	875	0.81	938	0.91	999	1.01	1059	1.11	1118	1.21	1178	1.30
2000	760	0.69	829	0.79	894	0.88	957	0.99	1018	1.09	1078	1.19	1137	1.29	1197	1.38

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. KW = BHP x 0.932.
4. Field Supplied Drive.

ZJ061 (5.0 Ton) Bottom Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹															
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	1.5 HP & Field Supplied Drive				Standard 1.5 HP & Drive								Hi Static 2 HP & Drive			
1500	673	0.47	736	0.54	797	0.63	855	0.72	910	0.82	964	0.92	1016	1.03	1067	1.14
1600	693	0.49	756	0.57	817	0.65	874	0.75	930	0.85	984	0.95	1036	1.06	1087	1.17
1700	713	0.53	777	0.60	837	0.69	895	0.78	951	0.88	1004	0.98	1057	1.09	1107	1.20
1800	734	0.57	797	0.65	858	0.73	916	0.83	971	0.92	1025	1.03	1077	1.14	1128	1.25
1900	755	0.62	819	0.70	879	0.79	937	0.88	992	0.98	1046	1.08	1098	1.19	1149	1.30
2000	776	0.69	840	0.76	900	0.85	958	0.94	1014	1.04	1067	1.14	1120	1.25	1171	1.36
2100	798	0.76	861	0.84	921	0.92	979	1.02	1035	1.11	1089	1.22	1141	1.32	1192	1.44
2200	819	0.84	882	0.92	943	1.00	1001	1.10	1056	1.20	1110	1.30	1162	1.41	1213	1.52
2300	840	0.93	903	1.01	964	1.10	1022	1.19	1077	1.29	1131	1.39	1183	1.50	1234	1.61
2400	861	1.03	925	1.11	985	1.20	1043	1.29	1099	1.39	1152	1.49	1204	1.60	1255	1.71
2500	882	1.14	946	1.22	1006	1.30	1064	1.40	1120	1.50	1173	1.60	1226	1.71	1276	1.82
2 HP & Field Supplied Drive																

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. KW = BHP x 0.932.

ZJ078 (6.5 Ton) Bottom Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	FS ⁴		Standard 1.5 HP & Drive								Hi Static 2 HP & Drive									
1800	603	0.13	656	0.36	718	0.58	784	0.79	851	0.98	914	1.16	968	1.31	1010	1.43	1035	1.53	1039	1.59
2000	627	0.26	680	0.49	742	0.71	808	0.92	875	1.12	937	1.29	992	1.44	1034	1.57	1059	1.66	1063	1.72
2200	650	0.40	703	0.63	765	0.85	831	1.06	898	1.25	961	1.43	1015	1.58	1057	1.71	1082	1.80	1086	1.86
2400	673	0.55	726	0.78	788	1.00	854	1.21	921	1.40	984	1.58	1038	1.73	1080	1.85	1105	1.95	1109	2.01
2600	696	0.71	749	0.94	811	1.16	878	1.37	944	1.56	1007	1.73	1061	1.89	1103	2.01	1128	2.10	1133	2.16
2800	720	0.87	773	1.10	835	1.32	902	1.53	968	1.73	1031	1.90	1085	2.05	1127	2.18	1152	2.27	1157	2.33
3000	745	1.05	798	1.28	860	1.50	926	1.71	993	1.91	1056	2.08	1110	2.23	1152	2.36	1177	2.45	1181	2.51
3200	771	1.24	824	1.47	886	1.69	952	1.90	1019	2.09	1081	2.27	1136	2.42	1178	2.54	1203	2.64	1207	2.70
3400	797	1.44	850	1.67	912	1.89	979	2.10	1045	2.29	1108	2.47	1162	2.62	1204	2.74	1229	2.84	1234	2.90
	3 HP & Field Supplied Drive																			

3 HP & Field Supplied Drive

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.
4. Field Supplied Drive.

ZJ090 (7.5 Ton) Bottom Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	FS ⁴		Standard 1.5 HP & Drive										Hi Static 3 HP & Drive							
2000	644	0.11	698	0.38	755	0.62	814	0.85	874	1.06	933	1.26	990	1.46	1043	1.66	1090	1.87	1131	2.09
2200	666	0.26	720	0.53	777	0.77	836	1.00	896	1.21	956	1.41	1012	1.61	1065	1.81	1113	2.02	1153	2.24
2400	689	0.42	743	0.69	800	0.93	859	1.16	919	1.37	978	1.57	1035	1.77	1088	1.97	1135	2.18	1176	2.40
2600	712	0.60	766	0.87	823	1.11	882	1.34	942	1.55	1002	1.75	1058	1.95	1111	2.15	1159	2.36	1199	2.58
2800	736	0.80	790	1.06	847	1.31	906	1.53	967	1.74	1026	1.94	1082	2.14	1135	2.34	1183	2.55	1223	2.78
3000	761	1.00	815	1.27	872	1.52	931	1.74	991	1.95	1051	2.15	1107	2.35	1160	2.55	1208	2.76	1248	2.98
3200	787	1.22	840	1.49	898	1.74	957	1.96	1017	2.17	1076	2.37	1133	2.57	1186	2.77	1233	2.98	1274	3.20
3400	813	1.46	867	1.73	924	1.97	984	2.19	1044	2.40	1103	2.61	1160	2.80	1212	3.01	1260	3.21	-	-
3600	841	1.70	894	1.97	952	2.21	1011	2.44	1071	2.65	1130	2.85	1187	3.05	-	-	-	-	-	-
3800	869	1.96	923	2.22	980	2.47	1039	2.69	1099	2.90	1158	3.10	1215	3.30	-	-	-	-	-	-
	3 HP & Field Supplied Drive																			

3 HP & Field Supplied Drive

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.
4. Field Supplied Drive.

ZJ102 (8.5 Ton) Bottom Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	FS ⁴		Standard 2 HP & Drive								Hi Static 3 HP & Drive									
2200	685	0.59	739	0.74	791	0.88	841	1.01	889	1.14	936	1.27	981	1.39	1025	1.51	1069	1.63	1111	1.75
2400	702	0.70	756	0.85	808	0.99	858	1.12	906	1.25	953	1.37	999	1.49	1043	1.62	1086	1.74	1129	1.86
2600	722	0.83	776	0.97	828	1.11	878	1.25	926	1.37	973	1.50	1018	1.62	1063	1.74	1106	1.86	1149	1.99
2800	744	0.97	798	1.12	850	1.26	900	1.39	949	1.52	995	1.64	1041	1.76	1085	1.88	1128	2.00	1171	2.13
3000	769	1.13	823	1.28	875	1.42	925	1.55	974	1.68	1020	1.80	1066	1.92	1110	2.05	1153	2.17	1196	2.29
3200	797	1.32	851	1.46	903	1.60	953	1.74	1001	1.86	1048	1.99	1093	2.11	1138	2.23	1181	2.35	1224	2.48
3400	828	1.52	882	1.67	934	1.81	983	1.94	1032	2.07	1078	2.19	1124	2.32	1168	2.44	1212	2.56	1254	2.68
3600	861	1.75	915	1.90	967	2.04	1017	2.17	1065	2.30	1112	2.42	1157	2.54	1201	2.67	1245	2.79	1287	2.91
3800	897	2.00	951	2.15	1002	2.29	1052	2.42	1101	2.55	1147	2.67	1193	2.80	1237	2.92	1280	3.04	1323	3.16
4000	935	2.27	989	2.42	1041	2.56	1091	2.69	1139	2.82	1186	2.95	1231	3.07	1275	3.19	1319	3.31	1362	3.43
4200	976	2.57	1030	2.72	1082	2.86	1132	2.99	1180	3.12	1227	3.24	1272	3.36	-	-	-	-	-	-
	3 HP & Field Supplied Drive																			

3 HP & Field Supplied Drive

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.
4. Field Supplied Drive.

ZJ120 (10 Ton) Bottom Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹													
	0.2		0.4		0.6		0.8		1.0		1.2		1.4	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Field Supplied Drive		Standard 2 HP & Drive								Hi Static 3 HP & Drive			
2600	722	0.83	776	0.97	828	1.11	878	1.25	926	1.37	973	1.50	1018	1.62
2800	744	0.97	798	1.12	850	1.26	900	1.39	949	1.52	995	1.64	1041	1.76
3000	769	1.13	823	1.28	875	1.42	925	1.55	974	1.68	1020	1.80	1066	1.92
3200	797	1.32	851	1.46	903	1.60	953	1.74	1001	1.86	1048	1.99	1093	2.11
3400	828	1.52	882	1.67	934	1.81	983	1.94	1032	2.07	1078	2.19	1124	2.32
3600	861	1.75	915	1.90	967	2.04	1017	2.17	1065	2.30	1112	2.42	1157	2.54
3800	897	2.00	951	2.15	1002	2.29	1052	2.42	1101	2.55	1147	2.67	1193	2.80
4000	935	2.27	989	2.42	1041	2.56	1091	2.69	1139	2.82	1186	2.95	1231	3.07
4200	976	2.57	1030	2.72	1082	2.86	1132	2.99	1180	3.12	1227	3.24	1272	3.36
4400	1019	2.88	1073	3.03	1125	3.17	1175	3.30	1223	3.43	-	-	-	-
4600	1065	3.22	1119	3.36	-	-	-	-	-	-	-	-	-	-
3 HP & Field Supplied Drive														

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.

ZJ150 (12.5 Ton) Bottom Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹													
	0.2		0.4		0.6		0.8		1.0		1.2		1.4	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Field Supplied Drive		Standard 3 HP & Drive								Hi Static 5 HP & Drive			
3200	797	1.32	851	1.46	903	1.60	953	1.74	1001	1.86	1048	1.99	1093	2.11
3400	828	1.52	882	1.67	934	1.81	983	1.94	1032	2.07	1078	2.19	1124	2.32
3600	861	1.75	915	1.90	967	2.04	1017	2.17	1065	2.30	1112	2.42	1157	2.54
3800	897	2.00	951	2.15	1002	2.29	1052	2.42	1101	2.55	1147	2.67	1193	2.80
4000	935	2.27	989	2.42	1041	2.56	1091	2.69	1139	2.82	1186	2.95	1231	3.07
4200	976	2.57	1030	2.72	1082	2.86	1132	2.99	1180	3.12	1227	3.24	1272	3.36
4400	1019	2.88	1073	3.03	1125	3.17	1175	3.30	1223	3.43	1270	3.55	1315	3.67
4600	1065	3.22	1119	3.36	1171	3.50	1221	3.64	1269	3.76	1316	3.89	1361	4.01
4800	1113	3.57	1167	3.72	1219	3.86	1269	3.99	1317	4.12	1364	4.24	1409	4.36
5000	1163	3.94	1217	4.09	1269	4.23	1319	4.36	1367	4.49	1414	4.62	1459	4.74
5200	1216	4.34	1270	4.48	1321	4.62	1371	4.76	1420	4.88	1466	5.01	1512	5.13
5400	1270	4.75	1324	4.89	1376	5.03	1426	5.17	1474	5.29	1521	5.42	1566	5.54
5600	1327	5.17	1381	5.32	1433	5.46	1483	5.59	1531	5.72	-	-	-	-
5800	1385	5.62	-	-	-	-	-	-	-	-	-	-	-	-
5 HP & Field Supplied Drive														

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.

ZR037-150 Side Duct Application**ZR037 (3.0 Ton) Side Duct**

Air Flow (CFM)	Available External Static Pressure - IWG ¹																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	FS ⁴		Standard 1.5 HP & Drive								Hi Static 1.5 HP & Drive									
900	480	0.4	582	0.4	673	0.5	756	0.5	830	0.6	898	0.7	960	0.8	1018	0.9	1072	1.0	1124	1.1
1000	489	0.4	591	0.4	682	0.5	764	0.6	839	0.6	907	0.7	969	0.8	1026	0.9	1080	1.0	1132	1.1
1100	500	0.4	602	0.4	693	0.5	776	0.6	850	0.6	918	0.7	980	0.8	1038	0.9	1092	1.0	1144	1.1
1200	513	0.4	614	0.5	706	0.5	788	0.6	863	0.7	931	0.8	993	0.8	1050	0.9	1104	1.0	1156	1.1
1300	525	0.4	627	0.5	719	0.6	801	0.6	876	0.7	943	0.8	1005	0.9	1063	1.0	1117	1.1	1169	1.2
1400	537	0.5	639	0.5	731	0.6	813	0.7	888	0.7	955	0.8	1017	0.9	1075	1.0	1129	1.1	1181	1.2
1500	549	0.5	650	0.6	742	0.6	824	0.7	899	0.8	966	0.9	1028	0.9	1086	1.0	1140	1.1	1192	1.2

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.
4. Field Supplied Drive.

ZR049 (4.0 Ton) Side Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	1.5 HP & Field Supplied Drive		Standard 1.5 HP & Drive							Hi Static 1.5 HP & Drive										
1200	513	0.4	614	0.5	706	0.5	788	0.6	863	0.7	931	0.8	993	0.8	1050	0.9	1104	1.0	1156	1.1
1300	525	0.4	627	0.5	719	0.6	801	0.6	876	0.7	943	0.8	1005	0.9	1063	1.0	1117	1.1	1169	1.2
1400	537	0.5	639	0.5	731	0.6	813	0.7	888	0.7	955	0.8	1017	0.9	1075	1.0	1129	1.1	1181	1.2
1500	549	0.5	650	0.6	742	0.6	824	0.7	899	0.8	966	0.9	1028	0.9	1086	1.0	1140	1.1	1192	1.2
1600	558	0.6	660	0.6	752	0.7	834	0.8	909	0.8	976	0.9	1038	1.0	1096	1.1	1150	1.2	1202	1.3
1700	566	0.6	668	0.7	760	0.7	842	0.8	917	0.9	984	1.0	1046	1.1	1104	1.1	1158	1.2	1210	1.4
1800	573	0.7	675	0.7	766	0.8	849	0.9	923	1.0	991	1.0	1053	1.1	1110	1.2	1164	1.3	1216	1.4
1900	577	0.8	679	0.8	771	0.9	853	1.0	928	1.0	995	1.1	1057	1.2	1115	1.3	1169	1.4	1221	1.5
2000	580	0.8	682	0.9	773	1.0	856	1.0	930	1.1	998	1.2	1060	1.3	1117	1.4	1172	1.5	1224	1.6
	FS ⁴																			

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.
4. Field Supplied Drive.

ZR061 (5.0 Ton) Side Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Standard 1.5 HP & Drive							Hi Static 2 HP & Drive												
1500	616	0.5	685	0.6	766	0.7	833	0.8	905	0.9	975	1.0	1035	1.0	1101	1.1	1163	1.2	1229	1.3
1600	638	0.6	707	0.7	781	0.7	848	0.8	920	0.9	990	1.0	1050	1.1	1104	1.1	1166	1.2	1232	1.3
1700	655	0.6	724	0.7	796	0.8	863	0.9	935	1.0	1005	1.1	1064	1.1	1109	1.2	1172	1.3	1238	1.4
1800	670	0.7	739	0.8	810	0.8	877	0.9	949	1.0	1018	1.1	1078	1.2	1117	1.2	1179	1.3	1245	1.5
1900	686	0.7	755	0.8	823	0.9	890	1.0	962	1.1	1032	1.2	1091	1.2	1125	1.3	1187	1.4	1253	1.5
2000	702	0.8	772	0.9	836	1.0	903	1.1	975	1.2	1045	1.3	1078	1.3	1135	1.4	1197	1.5	1263	1.6
2100	722	0.9	791	1.0	849	1.0	916	1.1	988	1.2	1058	1.3	1089	1.4	1147	1.5	1209	1.6	1275	1.7
2200	745	0.9	814	1.0	861	1.1	928	1.2	1000	1.3	1050	1.4	1102	1.5	1159	1.6	1221	1.7	1287	1.8
2300	772	1.0	841	1.1	874	1.2	941	1.3	1013	1.4	1064	1.5	1115	1.6	1173	1.7	1235	1.8	-	-
2400	804	1.1	832	1.2	886	1.3	953	1.4	1033	1.4	1078	1.6	1130	1.7	1188	1.8	-	-	-	-
2500	841	1.2	844	1.3	898	1.4	965	1.5	1049	1.5	1094	1.7	-	-	-	-	2 HP & Field Supplied Drive			

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.

ZR120 (10 Ton) Side Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹											
	0.2		0.4		0.6		0.8		1.0		1.2	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	2 HP & Field Supplied Drive				Standard 2 HP & Drive				Hi Static 3 HP & Drive			
2600	706	0.67	756	0.86	805	1.04	851	1.20	896	1.36	939	1.52
2800	719	0.78	769	0.96	817	1.14	863	1.31	908	1.47	952	1.62
3000	732	0.89	782	1.08	831	1.25	877	1.42	922	1.58	965	1.74
3200	747	1.02	797	1.21	846	1.38	892	1.55	937	1.71	980	1.86
3400	764	1.16	814	1.35	862	1.53	909	1.69	954	1.85	997	2.01
3600	783	1.33	833	1.51	881	1.69	927	1.86	972	2.02	1016	2.17
3800	803	1.51	853	1.69	901	1.87	948	2.04	992	2.20	1036	2.35
4000	825	1.71	875	1.89	923	2.07	970	2.23	1014	2.39	1058	2.55
4200	849	1.92	899	2.11	947	2.29	993	2.45	1038	2.61	1082	2.77
4400	874	2.16	924	2.35	972	2.52	1019	2.69	1064	2.85	1107	3.01
4600	901	2.42	952	2.61	1000	2.78	1046	2.95	1091	3.11	1134	3.26
4800	930	2.70	981	2.88	1029	3.06	1075	3.23	1120	3.39	-	-
5000	961	2.99	1011	3.18	1059	3.35	-	-	-	-	-	-

3 HP & Field Supplied Drive

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. KW = BHP x 0.932.

ZR150 (12.5 Ton) Side Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹											
	0.2		0.4		0.6		0.8		1.0		1.2	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	3 HP & Field Supplied Drive				Standard 3 HP & Drive				Hi Static 5 HP & Drive			
3200	747	1.02	797	1.21	846	1.38	892	1.55	937	1.71	980	1.86
3400	764	1.16	814	1.35	862	1.53	909	1.69	954	1.85	997	2.01
3600	783	1.33	833	1.51	881	1.69	927	1.86	972	2.02	1016	2.17
3800	803	1.51	853	1.69	901	1.87	948	2.04	992	2.20	1036	2.35
4000	825	1.71	875	1.89	923	2.07	970	2.23	1014	2.39	1058	2.55
4200	849	1.92	899	2.11	947	2.29	993	2.45	1038	2.61	1082	2.77
4400	874	2.16	924	2.35	972	2.52	1019	2.69	1064	2.85	1107	3.01
4600	901	2.42	952	2.61	1000	2.78	1046	2.95	1091	3.11	1134	3.26
4800	930	2.70	981	2.88	1029	3.06	1075	3.23	1120	3.39	1163	3.54
5000	961	2.99	1011	3.18	1059	3.35	1106	3.52	1151	3.68	1194	3.84
5200	993	3.31	1043	3.49	1092	3.67	1138	3.84	1183	4.00	1226	4.15
5400	1027	3.64	1077	3.83	1126	4.00	1172	4.17	1217	4.33	1260	4.48
5600	1063	3.99	1113	4.18	1161	4.35	1207	4.52	1252	4.68	1296	4.84
5800	1100	4.36	1150	4.55	1198	4.72	1244	4.89	1289	5.05	1333	5.20
6000	1138	4.75	1188	4.93	1237	5.11	1283	5.28	1328	5.44	1371	5.59
6200	1178	5.15	1228	5.34	1277	5.51	1323	5.68	-	-	-	-

5 HP & Field Supplied Drive

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. KW = BHP x 0.932.

ZR037-150 Bottom Duct Application**ZR037 (3.0 Ton) Bottom Duct**

Air Flow (CFM)	Available External Static Pressure - IWG ¹																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	FS ⁴		Standard 1.5 HP & Drive								Hi Static 1.5 HP & Drive									
900	544	0.4	632	0.5	708	0.5	774	0.6	834	0.7	889	0.8	941	0.9	993	1.0	1047	1.1	1104	1.2
1000	549	0.4	637	0.5	713	0.5	779	0.6	839	0.7	894	0.8	946	0.9	998	1.0	1052	1.1	1109	1.2
1100	562	0.4	649	0.5	725	0.6	792	0.6	852	0.7	906	0.8	959	0.9	1010	1.0	1064	1.1	1121	1.2
1200	579	0.5	666	0.5	742	0.6	809	0.6	868	0.7	923	0.8	975	0.9	1027	1.0	1081	1.1	1138	1.2
1300	598	0.5	685	0.5	761	0.6	828	0.7	887	0.8	942	0.8	994	0.9	1046	1.0	1100	1.2	1157	1.3
1400	617	0.5	705	0.6	781	0.6	847	0.7	907	0.8	962	0.9	1014	1.0	1066	1.1	1119	1.2	1177	1.3
1500	637	0.6	724	0.6	800	0.7	867	0.8	927	0.8	981	0.9	1034	1.0	1085	1.1	1139	1.2	1196	1.4
			FS ⁴																	

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.
4. Field Supplied Drive.

ZR049 (4.0 Ton) Bottom Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Standard 1.5 HP & Drive									Hi Static 1.5 HP & Drive										
1200	579	0.5	666	0.5	742	0.6	809	0.6	868	0.7	923	0.8	975	0.9	1027	1.0	1081	1.1	1138	1.2
1300	598	0.5	685	0.5	761	0.6	828	0.7	887	0.8	942	0.8	994	0.9	1046	1.0	1100	1.2	1157	1.3
1400	617	0.5	705	0.6	781	0.6	847	0.7	907	0.8	962	0.9	1014	1.0	1066	1.1	1119	1.2	1177	1.3
1500	637	0.6	724	0.6	800	0.7	867	0.8	927	0.8	981	0.9	1034	1.0	1085	1.1	1139	1.2	1196	1.4
1600	655	0.6	743	0.7	819	0.7	885	0.8	945	0.9	1000	1.0	1052	1.1	1104	1.2	1158	1.3	1215	1.4
1700	672	0.7	760	0.7	836	0.8	902	0.9	962	1.0	1017	1.0	1069	1.1	1121	1.2	1175	1.3	1232	1.5
1800	687	0.7	775	0.8	851	0.9	918	0.9	977	1.0	1032	1.1	1084	1.2	1136	1.3	1190	1.4	1247	1.5
1900	700	0.8	788	0.9	864	0.9	930	1.0	990	1.1	1045	1.2	1097	1.3	1149	1.4	1202	1.5	1260	1.6
2000	711	0.9	798	0.9	874	1.0	941	1.1	1000	1.2	1055	1.2	1107	1.3	1159	1.4	1213	1.6	1270	1.7
	FS ⁴																			

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.
4. Field Supplied Drive.

ZR061 (5.0 Ton) Bottom Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Standard 1.5 HP & Drive						Hi Static 2 HP & Drive													
1500	613	0.5	684	0.6	759	0.7	831	0.7	928	0.8	984	0.9	1042	1.0	1093	1.1	1149	1.2	1201	1.3
1600	629	0.6	700	0.6	775	0.7	847	0.8	929	0.8	985	0.9	1043	1.0	1098	1.1	1154	1.2	1206	1.3
1700	646	0.6	717	0.7	793	0.8	864	0.8	934	0.9	990	1.0	1048	1.1	1106	1.2	1161	1.3	1214	1.4
1800	666	0.7	737	0.7	812	0.8	884	0.9	943	1.0	999	1.1	1057	1.2	1116	1.3	1172	1.4	1224	1.5
1900	687	0.7	758	0.8	833	0.9	905	0.9	954	1.0	1010	1.1	1068	1.2	1128	1.3	1184	1.4	1236	1.5
2000	710	0.8	781	0.9	856	0.9	927	1.0	968	1.1	1024	1.2	1082	1.3	1142	1.4	1198	1.5	1250	1.6
2100	733	0.8	804	0.9	879	1.0	951	1.1	983	1.2	1039	1.3	1097	1.4	1157	1.5	1213	1.6	1265	1.7
2200	758	0.9	828	1.0	904	1.1	947	1.2	1000	1.3	1056	1.4	1116	1.5	1174	1.6	1229	1.7	1281	1.8
2300	783	1.0	854	1.1	929	1.1	964	1.3	1018	1.4	1075	1.5	1133	1.6	1191	1.7	1246	1.8	-	-
2400	809	1.1	879	1.2	932	1.3	983	1.4	1037	1.5	1094	1.6	1152	1.7	1209	1.8	-	-	-	-
2500	835	1.1	906	1.2	951	1.4	1001	1.5	1055	1.6	1112	1.7	1170	1.8	2 HP & Field Supplied Drive					

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.

ZR120 (10 Ton) Bottom Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹											
	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0		
	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP		
	2 HP & Field Supplied Drive											
	Standard 2 HP & Drive						Hi Static 3 HP & Drive					
2600	755 0.95	808 1.08	858 1.20	907 1.32	954 1.44	1000 1.55	1044 1.65	1087 1.76	1129 1.87	1171 1.98		
2800	779 1.09	832 1.22	882 1.35	931 1.46	978 1.58	1024 1.69	1068 1.80	1111 1.90	1153 2.01	1195 2.12		
3000	806 1.25	859 1.38	910 1.51	958 1.63	1005 1.74	1051 1.85	1095 1.96	1138 2.07	1181 2.17	1222 2.28		
3200	837 1.44	889 1.57	940 1.69	989 1.81	1036 1.93	1081 2.04	1125 2.14	1168 2.25	1211 2.36	1252 2.47		
3400	870 1.65	922 1.78	973 1.90	1022 2.02	1069 2.13	1114 2.24	1158 2.35	1202 2.46	1244 2.57	1286 2.68		
3600	906 1.88	959 2.01	1009 2.13	1058 2.25	1105 2.36	1150 2.47	1195 2.58	1238 2.69	1280 2.80	1322 2.91		
3800	945 2.13	998 2.26	1048 2.38	1097 2.50	1144 2.61	1190 2.72	1234 2.83	1277 2.94	1319 3.05	1361 3.16		
4000	987 2.40	1040 2.53	1090 2.66	1139 2.78	1186 2.89	1231 3.00	1276 3.11	1319 3.21	1361 3.32	1403 3.43		
4200	1032 2.70	1084 2.83	1135 2.95	1184 3.07	1231 3.18	1276 3.29	1320 3.40	- -	- -	- -		
4400	1079 3.01	1132 3.15	1182 3.27	1231 3.39	- -	- -	- -	- -	- -	- -		
4600	1129 3.35	- -	- -	- -	- -	- -	- -	- -	- -	- -		
	3 HP & Field Supplied Drive											

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. KW = BHP x 0.932.

ZR150 (12.5 Ton) Bottom Duct

Air Flow (CFM)	Available External Static Pressure - IWG ¹											
	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0		
	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP		
	3 HP & Field Supplied Drive											
	Standard 3 HP & Drive						Hi Static 5 HP & Drive					
3200	837 1.44	889 1.57	940 1.69	989 1.81	1036 1.93	1081 2.04	1125 2.14	1168 2.25	1211 2.36	1252 2.47		
3400	870 1.65	922 1.78	973 1.90	1022 2.02	1069 2.13	1114 2.24	1158 2.35	1202 2.46	1244 2.57	1286 2.68		
3600	906 1.88	959 2.01	1009 2.13	1058 2.25	1105 2.36	1150 2.47	1195 2.58	1238 2.69	1280 2.80	1322 2.91		
3800	945 2.13	998 2.26	1048 2.38	1097 2.50	1144 2.61	1190 2.72	1234 2.83	1277 2.94	1319 3.05	1361 3.16		
4000	987 2.40	1040 2.53	1090 2.66	1139 2.78	1186 2.89	1231 3.00	1276 3.11	1319 3.21	1361 3.32	1403 3.43		
4200	1032 2.70	1084 2.83	1135 2.95	1184 3.07	1231 3.18	1276 3.29	1320 3.40	1364 3.51	1406 3.62	1447 3.73		
4400	1079 3.01	1132 3.15	1182 3.27	1231 3.39	1278 3.50	1324 3.61	1368 3.72	1411 3.83	1453 3.93	1495 4.05		
4600	1129 3.35	1182 3.48	1232 3.61	1281 3.72	1328 3.84	1374 3.95	1418 4.06	1461 4.16	1503 4.27	1545 4.38		
4800	1182 3.71	1235 3.84	1285 3.96	1334 4.08	1381 4.20	1426 4.31	1471 4.41	1514 4.52	1556 4.63	1598 4.74		
5000	1237 4.08	1290 4.22	1340 4.34	1389 4.46	1436 4.57	1481 4.68	1526 4.79	1569 4.90	1611 5.01	1653 5.12		
5200	1294 4.48	1347 4.61	1398 4.74	1446 4.85	1493 4.97	1539 5.08	1583 5.19	1626 5.29	1669 5.40	1710 5.51		
5400	1354 4.89	1407 5.03	1457 5.15	1506 5.27	1553 5.38	1599 5.49	1643 5.60	1686 5.71	- -	- -		
5600	1416 5.33	1469 5.46	1519 5.58	1568 5.70	- -	- -	- -	- -	- -	- -		
5800	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -		
	5 HP & Field Supplied Drive											

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. KW = BHP x 0.932.

Sound Performance

Indoor Sound Power Levels (3 thru 5 Ton)

Indoor Sound Power Levels (Horizontal Ducted Inlet, Standard Static Belt Drive)

UNIT DESCRIPTION / MODEL	ZH/ZJ/ZR037 / 3 Ton / Standard Static Belt Drive			
TEST CONFIGURATION	Horizontal (Side Return) Ducted Inlet			
Indoor Blower Speed (RPM)	612 - 3 Turns Open Equivalent		709 - 1 Turn Open Equivalent	
External Static Pressure (IWG)	0.5		0.4	
Airflow (CFM)	850		1300	
Blower Motor BHP	0.37		0.40	
Octave Center Freq. Hz	ID Blower Only (dB)	Cooling Operation ¹ (dB)	ID Blower Only (dB)	Cooling Operation ¹ (dB)
63	73	77	73	77
125	61	70	66	71
250	56	63	60	64
500	51	56	55	57
1000	44	48	51	52
2000	41	44	48	49
4000	44	47	47	48
8000	42	44	43	44

1. Cooling Operation – ID blower, compressor and outdoor fan operating at 230 VAC.

- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
- Testing datum includes effect of standard inlet air filters.
- Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
- Test duct termination is flush with reverberant room wall.
- Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

UNIT DESCRIPTION / MODEL	ZH/ZJ/ZR049 / 4 Ton / Standard Static Belt Drive			
TEST CONFIGURATION	Horizontal (Side Return) Ducted Inlet			
Indoor Blower Speed (RPM)	612 - 3 Turns Open Equivalent		709 - 1 Turn Open Equivalent	
External Static Pressure (IWG)	0.5		0.4	
Airflow (CFM)	850		1300	
Blower Motor BHP	0.37		0.40	
Octave Center Freq. Hz	ID Blower Only (dB)	Cooling Operation ¹ (dB)	ID Blower Only (dB)	Cooling Operation ¹ (dB)
63	73	77	73	77
125	61	70	66	71
250	56	63	60	64
500	51	56	55	57
1000	44	48	51	52
2000	41	44	48	49
4000	44	47	47	48
8000	42	44	43	44

1. Cooling Operation – ID blower, compressor and outdoor fan operating at 230 VAC.

- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
- Testing datum includes effect of standard inlet air filters.
- Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
- Test duct termination is flush with reverberant room wall.
- Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

UNIT DESCRIPTION / MODEL	ZH/ZJ/ZR061 / 5 Ton / Standard Static Belt Drive			
TEST CONFIGURATION	Horizontal (Side Return) Ducted Inlet			
Indoor Blower Speed (RPM)	814 - 3 Turns Open Equivalent		918 - 1 Turn Open Equivalent	
External Static Pressure (IWG)	0.6		0.8	
Airflow (CFM)	1700		1950	
Blower Motor BHP	0.42		0.88	
Octave Center Freq. Hz	ID Blower Only (dB)	Cooling Operation ¹ (dB)	ID Blower Only (dB)	Cooling Operation ¹ (dB)
63	77	81	85	82
125	71	80	68	81
250	63	67	64	68
500	58	60	60	61
1000	56	57	58	59
2000	52	53	55	55
4000	51	51	54	54
8000	47	47	48	48

1. Cooling Operation – ID blower, compressor and outdoor fan operating at 230 VAC.

- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
- Testing datum includes effect of standard inlet air filters.
- Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
- Test duct termination is flush with reverberant room wall.
- Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

Indoor Sound Power Levels (Horizontal Ducted Discharge, Standard Static Belt Drive)

UNIT DESCRIPTION / MODEL	ZH/ZJ/ZR037 / 3 Ton / Standard Static Belt Drive			
TEST CONFIGURATION	Horizontal (Side Supply) Ducted Discharge			
Indoor Blower Speed (RPM)	610 - 3 Turns Open Equivalent		710 - 1 Turn Open Equivalent	
External Static Pressure (IWG)	0.5		0.6	
Airflow (CFM)	850		950	
Blower Motor BHP	0.37		0.42	
Octave Center Freq. Hz	ID Blower Only (dB)	Cooling Operation ¹ (dB)	ID Blower Only (dB)	Cooling Operation ¹ (dB)
63	77	78	79	79
125	74	75	75	76
250	66	68	70	70
500	61	61	65	64
1000	60	62	65	66
2000	52	52	58	58
4000	52	52	59	60
8000	44	44	50	50

1. Cooling Operation – ID blower, compressor and outdoor fan operating at 230 VAC.

- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
- Testing datum includes effect of standard inlet air filters.
- Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
- Test duct termination is flush with reverberant room wall.
- Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

UNIT DESCRIPTION / MODEL	ZH/ZJ/ZR049 / 4 Ton / Standard Static Belt Drive			
TEST CONFIGURATION	Horizontal (Side Supply) Ducted Discharge			
Indoor Blower Speed (RPM)	610 - 3 Turns Open Equivalent		710 - 1 Turn Open Equivalent	
External Static Pressure (IWG)	0.5		0.6	
Airflow (CFM)	850		950	
Blower Motor BHP	0.37		0.42	
Octave Center Freq. Hz	ID Blower Only (dB)	Cooling Operation ¹ (dB)	ID Blower Only (dB)	Cooling Operation ¹ (dB)
63	77	78	79	79
125	74	75	75	76
250	66	68	70	70
500	61	61	65	64
1000	60	62	65	66
2000	52	52	58	58
4000	52	52	59	60
8000	44	44	50	50

1. Cooling Operation – ID blower, compressor and outdoor fan operating at 230 VAC.
- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
 - Testing datum includes effect of standard inlet air filters.
 - Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
 - Test duct termination is flush with reverberant room wall.
 - Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

UNIT DESCRIPTION / MODEL	ZH/ZJ/ZR061 / 5 Ton / Standard Static Belt Drive			
TEST CONFIGURATION	Horizontal (Side Supply) Ducted Discharge			
Indoor Blower Speed (RPM)	810 - 3 Turns Open Equivalent		918 - 1 Turn Open Equivalent	
External Static Pressure (IWG)	0.4		0.8	
Airflow (CFM)	2050		1950	
Blower Motor BHP	0.73		0.88	
Octave Center Freq. Hz	ID Blower Only (dB)	Cooling Operation ¹ (dB)	ID Blower Only (dB)	Cooling Operation ¹ (dB)
63	85	83	83	83
125	78	79	76	79
250	69	70	69	70
500	68	68	68	68
1000	64	64	65	65
2000	63	63	64	64
4000	64	64	64	64
8000	59	59	59	60

1. Cooling Operation – ID blower, compressor and outdoor fan operating at 230 VAC.
- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
 - Testing datum includes effect of standard inlet air filters.
 - Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
 - Test duct termination is flush with reverberant room wall.
 - Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

Indoor Sound Power Levels (Vertical Ducted Inlet, Standard Static Belt Drive)

UNIT DESCRIPTION / MODEL	ZH/ZJ/ZR037 / 3 Ton / Standard Static Belt Drive			
TEST CONFIGURATION	Vertical (Bottom Return) Ducted Inlet			
Indoor Blower Speed (RPM)	609 - 3 Turns Open Equivalent		708 - 1 Turn Open Equivalent	
External Static Pressure (IWG)	0.4		0.4	
Airflow (CFM)	850		1150	
Blower Motor BHP	0.32		0.38	
Octave Center Freq. Hz	ID Blower Only (dB)	Cooling Operation ¹ (dB)	ID Blower Only (dB)	Cooling Operation ¹ (dB)
63	76	76	74	76
125	63	70	66	70
250	55	62	59	62
500	54	55	58	59
1000	48	48	53	53
2000	44	44	48	48
4000	41	44	45	46
8000	42	43	43	44

1. Differentials for Cooling Operation (IDB, COMP, & ODF) are logarithmically calculated from the horizontal flow sound test.
- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
 - Testing datum includes effect of standard inlet air filters.
 - Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
 - Test duct termination is flush with reverberant room wall.
 - Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

UNIT DESCRIPTION / MODEL	ZH/ZJ/ZR049 / 4 Ton / Standard Static Belt Drive			
TEST CONFIGURATION	Vertical (Bottom Return) Ducted Inlet			
Indoor Blower Speed (RPM)	609 - 3 Turns Open Equivalent		708 - 1 Turn Open Equivalent	
External Static Pressure (IWG)	0.4		0.4	
Airflow (CFM)	850		1150	
Blower Motor BHP	0.32		0.38	
Octave Center Freq. Hz	ID Blower Only (dB)	Cooling Operation ¹ (dB)	ID Blower Only (dB)	Cooling Operation ¹ (dB)
63	76	76	74	76
125	63	70	66	70
250	55	62	59	62
500	54	55	58	59
1000	48	48	53	53
2000	44	44	48	48
4000	41	44	45	46
8000	42	43	43	44

1. Differentials for Cooling Operation (IDB, COMP, & ODF) are logarithmically calculated from the horizontal flow sound test.
- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
 - Testing datum includes effect of standard inlet air filters.
 - Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
 - Test duct termination is flush with reverberant room wall.
 - Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

UNIT DESCRIPTION / MODEL	ZH/ZJ/ZR061 / 5 Ton / Standard Static Belt Drive			
TEST CONFIGURATION	Vertical (Bottom Return) Ducted Inlet			
Indoor Blower Speed (RPM)	812 - 3 Turns Open Equivalent		915- 1 Turn Open Equivalent	
External Static Pressure (IWG)	0.6		0.8	
Airflow (CFM)	1575		1800	
Blower Motor BHP	0.64		0.83	
Octave Center Freq. Hz	ID Blower Only (dB)	Cooling Operation ¹ (dB)	ID Blower Only (dB)	Cooling Operation ¹ (dB)
63	75	78	80	80
125	66	80	69	81
250	59	66	62	65
500	60	60	63	63
1000	57	57	60	60
2000	52	53	55	55
4000	49	50	53	53
8000	44	45	47	47

1. Differentials for Cooling Operation (IDB, COMP, & ODF) are logarithmically calculated from the horizontal flow sound test.
- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
 - Testing datum includes effect of standard inlet air filters.
 - Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
 - Test duct termination is flush with reverberant room wall.
 - Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

Indoor Sound Power Levels (Vertical Ducted Discharge, Standard Static Belt Drive)

UNIT DESCRIPTION / MODEL	ZH/ZJ/ZR037 / 3 Ton / Standard Static Belt Drive			
TEST CONFIGURATION	Vertical (Bottom Supply) Ducted Discharge			
Indoor Blower Speed (RPM)	609 - 3 Turns Open Equivalent		712 - 1 Turn Open Equivalent	
External Static Pressure (IWG)	0.4		0.6	
Airflow (CFM)	850		950	
Blower Motor BHP	0.32		0.42	
Octave Center Freq. Hz	ID Blower Only (dB)	Cooling Operation ¹ (dB)	ID Blower Only (dB)	Cooling Operation ¹ (dB)
63	76	77	81	81
125	68	68	72	72
250	55	65	57	57
500	56	57	57	57
1000	51	57	52	56
2000	49	49	50	50
4000	48	48	49	51
8000	46	46	47	48

1. Differentials for Cooling Operation (IDB, COMP, & ODF) are logarithmically calculated from the horizontal flow sound test.
- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
 - Testing datum includes effect of standard inlet air filters.
 - Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
 - Test duct termination is flush with reverberant room wall.
 - Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

UNIT DESCRIPTION / MODEL	ZH/ZJ/ZR049 / 4 Ton / Standard Static Belt Drive			
TEST CONFIGURATION	Vertical (Bottom Supply) Ducted Discharge			
Indoor Blower Speed (RPM)	609 - 3 Turns Open Equivalent		712 - 1 Turn Open Equivalent	
External Static Pressure (IWG)	0.4		0.6	
Airflow (CFM)	850		950	
Blower Motor BHP	0.32		0.42	
Octave Center Freq. Hz	ID Blower Only (dB)	Cooling Operation ¹ (dB)	ID Blower Only (dB)	Cooling Operation ¹ (dB)
63	76	77	81	81
125	68	68	72	72
250	55	65	57	57
500	56	57	57	57
1000	51	57	52	56
2000	49	49	50	50
4000	48	48	49	51
8000	46	46	47	48

1. Differentials for Cooling Operation (IDB, COMP, & ODF) are logarithmically calculated from the horizontal flow sound test.
- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
 - Testing datum includes effect of standard inlet air filters.
 - Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
 - Test duct termination is flush with reverberant room wall.
 - Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

UNIT DESCRIPTION / MODEL	ZH/ZJ/ZR061 / 5 Ton / Standard Static Belt Drive			
TEST CONFIGURATION	Vertical (Bottom Supply) Ducted Discharge			
Indoor Blower Speed (RPM)	809 - 3 Turns Open Equivalent		914 - 1 Turn Open Equivalent	
External Static Pressure (IWG)	0.5		0.8	
Airflow (CFM)	1700		1800	
Blower Motor BHP	0.64		0.83	
Octave Center Freq. Hz	ID Blower Only (dB)	Cooling Operation ¹ (dB)	ID Blower Only (dB)	Cooling Operation ¹ (dB)
63	81	81	79	79
125	75	75	75	76
250	65	65	63	63
500	67	67	67	67
1000	63	63	63	63
2000	61	62	61	61
4000	62	62	61	61
8000	57	57	56	56

1. Differentials for Cooling Operation (IDB, COMP, & ODF) are logarithmically calculated from the horizontal flow sound test.
- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
 - Testing datum includes effect of standard inlet air filters.
 - Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
 - Test duct termination is flush with reverberant room wall.
 - Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

Indoor Sound Power Levels (Horizontal Ducted Inlet, High Static Belt Drive)

UNIT DESCRIPTION / MODEL	ZH/ZJ/ZR037 / 3 Ton / High Static Belt Drive					
TEST CONFIGURATION	Horizontal (Side Return) Ducted Inlet					
Indoor Blower Speed (RPM)	876 - 4 Turns Open Equivalent		1,064 - 1/2 Turn Open Equivalent		1,190 - 2.5 Turns Open Equivalent ¹	
External Static Pressure (IWG)	1.0		1.6		2.0 ¹	
Nominal Airflow (CFM)	1,200		1,100		1,000	
Blower Motor BHP	0.64		0.93		1.08	
Octave Center Freq. Hz	ID Blower Only (dB)	Cooling Operation ² (dB)	ID Blower Only (dB)	Cooling Operation ² (dB)	ID Blower Only (dB)	Cooling Operation ² (dB)
63	75	80	81	81	81	83
125	69	71	71	73	73	75
250	62	68	66	71	68	70
500	54	56	57	59	59	60
1000	52	56	56	58	58	60
2000	47	49	52	52	54	56
4000	43	45	48	49	51	53
8000	43	45	45	46	47	48

- Requires driven pulley #AK-56, normal high static pulley is an #AK-69.
 - Cooling Operation – ID blower, compressor and outdoor fan operating at 230 VAC.
- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
 - Testing datum includes effect of standard inlet air filters.
 - Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
 - Test duct termination is flush with reverberant room wall.
 - Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

UNIT DESCRIPTION / MODEL	ZH/ZJ/ZR049 / 4 Ton / High Static Belt Drive					
TEST CONFIGURATION	Horizontal (Side Return) Ducted Inlet					
Indoor Blower Speed (RPM)	965 - 5.5 Turns Open Equivalent		1,088 - 4 Turns Open Equivalent		1,186 - 2.5 Turns Open Equivalent	
External Static Pressure (IWG)	1.0		1.6		2.0	
Nominal Airflow (CFM)	1,600		1,400		1,200	
Blower Motor BHP	0.86		1.03		1.13	
Octave Center Freq. Hz	ID Blower Only (dB)	Cooling Operation ¹ (dB)	ID Blower Only (dB)	Cooling Operation ¹ (dB)	ID Blower Only (dB)	Cooling Operation ¹ (dB)
63	74	80	77	80	81	81
125	69	74	72	75	75	76
250	68	68	68	69	70	71
500	62	62	60	61	61	63
1000	60	61	58	58	59	60
2000	57	57	53	54	55	56
4000	56	56	49	50	51	52
8000	54	54	45	47	47	48

- Cooling Operation – ID blower, compressor and outdoor fan operating at 230 VAC.
- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
 - Testing datum includes effect of standard inlet air filters.
 - Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
 - Test duct termination is flush with reverberant room wall.
 - Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

UNIT DESCRIPTION / MODEL	ZH/ZJ/ZR061 / 5 Ton / High Static Belt Drive					
TEST CONFIGURATION	Horizontal (Side Return) Ducted Inlet					
Indoor Blower Speed (RPM)	1,012- 5.5 Turns Open Equivalent		1,134 - 3 Turns Open Equivalent		1,174 - 2 Turns Open Equivalent	
External Static Pressure (IWG)	1.0		1.6		2.0	
Nominal Airflow (CFM)	2,000		1,800		1,600	
Blower Motor BHP	1.04		1.25		1.39	
Octave Center Freq. Hz	ID Blower Only (dB)	Cooling Operation ¹ (dB)	ID Blower Only (dB)	Cooling Operation ¹ (dB)	ID Blower Only (dB)	Cooling Operation ¹ (dB)
63	76	78	78	79	79	81
125	70	73	73	76	74	77
250	68	70	68	69	69	70
500	61	62	61	62	60	62
1000	61	62	61	62	58	60
2000	57	58	57	58	54	56
4000	56	56	55	56	52	53
8000	50	50	50	50	47	48

- Cooling Operation – ID blower, compressor and outdoor fan operating at 230 VAC.
- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
 - Testing datum includes effect of standard inlet air filters.
 - Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
 - Test duct termination is flush with reverberant room wall.
 - Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

Indoor Sound Power Levels (Horizontal Ducted Discharge, High Static Belt Drive)

UNIT DESCRIPTION / MODEL	ZH/ZJ/ZR037 / 3 Ton / High Static Belt Drive					
TEST CONFIGURATION	Horizontal (Side Supply) Ducted Discharge					
Indoor Blower Speed (RPM)	896 - 3.5 Turns Open Equivalent		1,072 - Fully Closed Equivalent		1,170 - 2.5 Turns Open Equivalent ¹	
External Static Pressure (IWG)	1.0		1.6		2.0 ¹	
Nominal Airflow (CFM)	1,200		1,100		1,000	
Blower Motor BHP	0.64		0.93		1.08	
Octave Center Freq. Hz	ID Blower Only (dB)	Cooling Operation ² (dB)	ID Blower Only (dB)	Cooling Operation ² (dB)	ID Blower Only (dB)	Cooling Operation ² (dB)
63	77	81	83	84	83	84
125	74	76	76	77	80	80
250	67	68	70	70	72	73
500	65	66	67	67	67	68
1000	61	62	67	67	66	69
2000	58	60	63	63	63	64
4000	57	59	62	62	62	63
8000	51	53	56	57	56	58

- Requires driven pulley #AK-56, normal high static pulley is an #AK-69.
- Cooling Operation – ID blower, compressor and outdoor fan operating at 230 VAC.
- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
 - Testing datum includes effect of standard inlet air filters.
 - Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
 - Test duct termination is flush with reverberant room wall.
 - Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

UNIT DESCRIPTION / MODEL	ZH/ZJ/ZR049 / 4 Ton / High Static Belt Drive					
TEST CONFIGURATION	Horizontal (Side Supply) Ducted Discharge					
Indoor Blower Speed (RPM)	922 - 6 Turns Open Equivalent		1,069 - 4 Turns Open Equivalent		1,165 - 2.5 Turns Open Equivalent	
External Static Pressure (IWG)	1.0		1.6		2.0	
Nominal Airflow (CFM)	1,600		1,400		1,200	
Blower Motor BHP	0.86		1.03		1.13	
Octave Center Freq. Hz	ID Blower Only (dB)	Cooling Operation ¹ (dB)	ID Blower Only (dB)	Cooling Operation ¹ (dB)	ID Blower Only (dB)	Cooling Operation ¹ (dB)
63	80	82	82	83	84	84
125	76	77	76	77	78	79
250	71	72	72	72	74	74
500	69	69	69	69	70	70
1000	65	65	69	69	70	70
2000	64	64	64	64	65	65
4000	63	63	63	63	64	64
8000	58	58	58	58	59	59

1. Cooling Operation – ID blower, compressor and outdoor fan operating at 230 VAC.

- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
- Testing datum includes effect of standard inlet air filters.
- Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
- Test duct termination is flush with reverberant room wall.
- Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

UNIT DESCRIPTION / MODEL	ZH/ZJ/ZR061 / 5 Ton / High Static Belt Drive					
TEST CONFIGURATION	Horizontal (Side Supply) Ducted Discharge					
Indoor Blower Speed (RPM)	1,009- 5.5 Turns Open Equivalent		1,131 - 3 Turns Open Equivalent		1,184 - 2 Turns Open Equivalent	
External Static Pressure (IWG)	1.0		1.6		2.0	
Nominal Airflow (CFM)	2,000		1,800		1,600	
Blower Motor BHP	1.04		1.25		1.39	
Octave Center Freq. Hz	ID Blower Only (dB)	Cooling Operation ¹ (dB)	ID Blower Only (dB)	Cooling Operation ¹ (dB)	ID Blower Only (dB)	Cooling Operation ¹ (dB)
63	84	85	82	83	82	83
125	78	79	79	79	78	79
250	75	75	74	75	73	73
500	71	71	70	71	69	69
1000	69	69	71	71	71	72
2000	66	67	67	67	66	66
4000	66	66	66	67	66	66
8000	61	62	61	62	60	60

1. Cooling Operation – ID blower, compressor and outdoor fan operating at 230 VAC.

- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
- Testing datum includes effect of standard inlet air filters.
- Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
- Test duct termination is flush with reverberant room wall.
- Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

Indoor Sound Power Levels (Vertical Ducted Inlet, High Static Belt Drive)

UNIT DESCRIPTION / MODEL	ZH/ZJ/ZR037 / 3 Ton / High Static Belt Drive					
TEST CONFIGURATION	Vertical (Bottom Return) Ducted Inlet					
Indoor Blower Speed (RPM)	927 - 3 Turns Open Equivalent		1,085 - 1/2 Turn Open Equivalent		1,190 - 2.5 Turns Open Equivalent ¹	
External Static Pressure (IWG)	1.0		1.6		2.0 ¹	
Nominal Airflow (CFM)	1,200		1,100		1,000	
Blower Motor BHP	0.68		0.93		1.09	
Octave Center Freq. Hz	ID Blower Only (dB)	Cooling Operation ² (dB)	ID Blower Only (dB)	Cooling Operation ² (dB)	ID Blower Only (dB)	Cooling Operation ² (dB)
63	77	79	82	83	79	81
125	68	69	70	71	72	73
250	60	67	62	69	64	67
500	58	58	63	63	62	63
1000	54	55	60	60	60	60
2000	48	49	56	56	55	55
4000	43	44	48	49	51	51
8000	44	44	45	46	47	47

- Requires driven pulley #AK-56, normal high static pulley is an #AK-69.
- Differentials for Cooling Operation (IDB, COMP, & ODF) are logarithmically calculated from the horizontal flow sound test.
 - Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
 - Testing datum includes effect of standard inlet air filters.
 - Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
 - Test duct termination is flush with reverberant room wall.
 - Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

UNIT DESCRIPTION / MODEL	ZH/ZJ/ZR049 / 4 Ton / High Static Belt Drive					
TEST CONFIGURATION	Vertical (Bottom Return) Ducted Inlet					
Indoor Blower Speed (RPM)	968 - 5.5 Turns Open Equivalent		1,120 - 3.5 Turns Open Equivalent		1,218 - 2.0 Turns Open Equivalent	
External Static Pressure (IWG)	1.0		1.6		2.0	
Nominal Airflow (CFM)	1,600		1,400		1,200	
Blower Motor BHP	0.86		1.03		1.13	
Octave Center Freq. Hz	ID Blower Only (dB)	Cooling Operation ¹ (dB)	ID Blower Only (dB)	Cooling Operation ¹ (dB)	ID Blower Only (dB)	Cooling Operation ¹ (dB)
63	77	79	78	78	81	81
125	69	73	71	73	73	74
250	63	63	63	64	66	66
500	63	64	62	63	64	64
1000	59	59	59	59	61	61
2000	54	54	53	54	56	56
4000	49	49	48	48	50	51
8000	45	46	45	46	47	47

- Differentials for Cooling Operation (IDB, COMP, & ODF) are logarithmically calculated from the horizontal flow sound test.
 - Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
 - Testing datum includes effect of standard inlet air filters.
 - Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
 - Test duct termination is flush with reverberant room wall.
 - Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

UNIT DESCRIPTION / MODEL	ZH/ZJ/ZR061 / 5 Ton / High Static Belt Drive					
TEST CONFIGURATION	Vertical (Bottom Return) Ducted Inlet					
Indoor Blower Speed (RPM)	1,039 - 5 Turns Open Equivalent		1,143 - 3 Turns Open Equivalent		1,201 - 2 Turns Open Equivalent	
External Static Pressure (IWG)	1.0		1.6		2.0	
Nominal Airflow (CFM)	2,000		1,800		1,600	
Blower Motor BHP	1.11		1.25		1.39	
Octave Center Freq. Hz	ID Blower Only (dB)	Cooling Operation ¹ (dB)	ID Blower Only (dB)	Cooling Operation ¹ (dB)	ID Blower Only (dB)	Cooling Operation ¹ (dB)
63	79	80	77	77	81	81
125	74	75	71	73	73	74
250	63	65	63	64	63	65
500	62	63	64	64	62	62
1000	61	61	61	61	59	59
2000	55	56	55	56	54	55
4000	52	52	50	51	50	50
8000	47	47	46	46	46	46

- Differentials for Cooling Operation (IDB, COMP, & ODF) are logarithmically calculated from the horizontal flow sound test.
- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
- Testing datum includes effect of standard inlet air filters.
- Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
- Test duct termination is flush with reverberant room wall.
- Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

Indoor Sound Power Levels (Vertical Ducted Discharge, High Static Belt Drive)

UNIT DESCRIPTION / MODEL	ZH/ZJ/ZR037 / 3 Ton / High Static Belt Drive					
TEST CONFIGURATION	Vertical (Bottom Supply) Ducted Discharge					
Indoor Blower Speed (RPM)	920 - 3.0 Turns Open Equivalent		1,074 - Fully Closed Equivalent		1,189 - 2.0 Turns Open Equivalent ¹	
External Static Pressure (IWG)	1.0		1.6		2.0 ¹	
Nominal Airflow (CFM)	1,200		1,100		1,000	
Blower Motor BHP	0.68		0.93		1.09	
Octave Center Freq. Hz	ID Blower Only (dB)	Cooling Operation ² (dB)	ID Blower Only (dB)	Cooling Operation ² (dB)	ID Blower Only (dB)	Cooling Operation ² (dB)
63	81	82	81	81	82	82
125	78	78	78	78	81	81
250	69	70	70	71	74	74
500	67	68	68	69	71	71
1000	62	63	67	68	70	71
2000	60	61	62	63	65	66
4000	61	61	63	63	66	66
8000	54	55	57	57	60	61

- Requires driven pulley #AK-56, normal high static pulley is an #AK-69.
- Differentials for Cooling Operation (IDB, COMP, & ODF) are logarithmically calculated from the horizontal flow sound test.
- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
- Testing datum includes effect of standard inlet air filters.
- Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
- Test duct termination is flush with reverberant room wall.
- Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

UNIT DESCRIPTION / MODEL	ZH/ZJ/ZR049 / 4 Ton / High Static Belt Drive					
TEST CONFIGURATION	Vertical (Bottom Supply) Ducted Discharge					
Indoor Blower Speed (RPM)	962 - 5.5 Turns Open Equivalent		1,092 - 3.5 Turns Open Equivalent		1,190 - 2.0 Turns Open Equivalent	
External Static Pressure (IWG)	1.0		1.6		2.0	
Nominal Airflow (CFM)	1,600		1,400		1,200	
Blower Motor BHP	0.86		1.03		1.13	
Octave Center Freq. Hz	ID Blower Only (dB)	Cooling Operation ¹ (dB)	ID Blower Only (dB)	Cooling Operation ¹ (dB)	ID Blower Only (dB)	Cooling Operation ¹ (dB)
63	83	84	82	82	83	83
125	80	81	79	80	80	81
250	75	75	74	75	75	75
500	71	72	70	71	71	72
1000	66	67	70	71	72	72
2000	63	64	64	64	65	65
4000	64	64	64	64	65	66
8000	58	59	59	59	60	60

1. Differentials for Cooling Operation (IDB, COMP, & ODF) are logarithmically calculated from the horizontal flow sound test.
- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
 - Testing datum includes effect of standard inlet air filters.
 - Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
 - Test duct termination is flush with reverberant room wall.
 - Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

UNIT DESCRIPTION / MODEL	ZH/ZJ/ZR061 / 5 Ton / High Static Belt Drive					
TEST CONFIGURATION	Vertical (Bottom Supply) Ducted Discharge					
Indoor Blower Speed (RPM)	1,033 - 5.5 Turns Open Equivalent		1,135 - 3 turns Open Equivalent		1,175 - 2.5 Turns Open Equivalent	
External Static Pressure (IWG)	1.0		1.6		2.0	
Nominal Airflow (CFM)	2,000		1,135		1,175	
Blower Motor BHP	1.11		1.25		1.39	
Octave Center Freq. Hz	ID Blower Only (dB)	Cooling Operation ¹ (dB)	ID Blower Only (dB)	Cooling Operation ¹ (dB)	ID Blower Only (dB)	Cooling Operation ¹ (dB)
63	83	83	83	83	85	86
125	84	84	82	82	79	81
250	79	80	77	78	66	66
500	73	73	70	71	65	66
1000	69	70	69	70	61	65
2000	67	67	65	66	60	61
4000	67	68	66	67	61	62
8000	62	63	60	61	54	54

1. Differentials for Cooling Operation (IDB, COMP, & ODF) are logarithmically calculated from the horizontal flow sound test.
- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
 - Testing datum includes effect of standard inlet air filters.
 - Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
 - Test duct termination is flush with reverberant room wall.
 - Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

Indoor Sound Power Levels (6.5 thru 12.5 Ton)

Size (Tons)	Model	CFM	ESP (IWG)	Blower		Sound Power, dB (10 ⁻¹²) Watts								
						Sound Rating ¹ dB (A)	Octave Band Centerline Frequency (Hz)							
				RPM	BHP		63	125	250	500	1000	2000	4000	8000
078 (6.5)	ZH/ZJ/ZR	2600	0.6	812	1.14	74	71	73	73	71	69	65	65	60
090 (7.5)	ZH/ZJ/ZR	3000	0.6	854	1.47	77	74	76	76	74	72	68	68	63
102 (8.5)	ZH/ZJ/ZR	3400	0.6	872	1.65	80	77	79	79	77	75	71	71	66
120 (10)	ZH/ZJ/ZR	4000	0.6	959	2.29	83	80	82	82	80	78	74	74	69
150 (12.5)	ZH/ZJ/ZR	5000	0.6	1132	3.74	87	84	86	86	84	82	78	78	73

1. These values have been accessed using a model of sound propagation from a point source into the hemispheric/free field. The dBA values provided are to be used for reference only. Calculation of dBA values cover matters of system design and the fan manufacture has no way of knowing the details of each system. This constitutes an exception to any specification or guarantee requiring a dBA value of sound data in any other form than sound power level ratings.

Outdoor Sound Power Levels
ZH/ZJ/ZR037-150

Size (Tons)	Model	Sound Rating ¹ dB (A)	Octave Band Centerline Frequency (Hz)							
			63	125	250	500	1000	2000	4000	8000
037 (3)	ZH	81	82.5	86.5	78.0	75.5	76.5	68.5	63.0	56.5
049 (4)	ZH	78	82.0	86.0	78.5	75.5	73.0	68.0	63.0	56.0
061 (5)	ZH	84	81.0	91.0	82.5	80.5	79.0	73.5	69.5	64.5
078 (6.5)	ZH	87	89.0	88.5	84.5	84.5	82.0	76.5	72.0	66.5
090 (7.5)	ZH	92	93.0	92.0	90.5	88.0	86.5	83.0	77.5	73.5
102 (8.5)	ZH	92	97.0	94.0	93.5	90.5	87.0	81.5	76.0	69.0
120 (10)	ZH	91	99.5	91.5	91.5	89.0	86.0	80.5	76.5	71.0
150 (12.5)	ZH	86	89.5	91.0	85.5	84.0	81.0	76.5	71.0	62.5
037 (3)	ZJ	77	82.0	83.5	80.0	73.0	70.0	65.5	60.5	55.5
049 (4)	ZJ	80	80.0	87.0	77.0	75.5	75.0	70.5	65.5	62.0
061 (5)	ZJ	84	86.5	87.0	86.0	79.0	76.5	71.5	68.0	64.0
078 (6.5)	ZJ	85	87.5	85.0	84.0	82.0	80.0	75.5	71.5	67.0
090 (7.5)	ZJ	90	90.0	93.0	90.5	86.0	83.5	81.5	78.0	75.0
102 (8.5)	ZJ	92	97.0	94.0	93.5	90.5	87.0	81.5	76.0	69.0
120 (10)	ZJ	91	99.5	91.5	91.5	89.0	86.0	80.5	76.5	71.0
150 (12.5)	ZJ	85	89.0	88.0	83.5	83.5	78.5	74.0	69.5	64.5
037 (3)	ZR	77	82.0	83.5	80.0	73.0	70.0	65.5	60.5	55.5
049 (4)	ZR	81	87.5	88.5	83.0	77.5	73.5	70.5	67.0	62.0
61 (5)	ZR	84	86.5	87.0	86.0	79.0	76.5	71.5	68.0	64.0
078 (6.5)	ZR	83	~	88.0	82.5	81.5	78.0	73.0	69.0	62.0
090 (7.5)	ZR	83	~	89.5	83.5	82.0	78.0	72.5	68.0	60.5
102 (8.5)	ZR	83	~	89.0	84.5	81.5	78.0	72.5	68.5	70.5
120 (10)	ZR	83	~	89.5	83.5	81.0	78.0	72.0	68.5	70.5
150 (12.5)	ZR	84	~	90.0	84.5	81.5	77.5	72.0	68.5	61.5

1. Rated in accordance with AHRI 270 standard.

Electrical Data

ZH037-061 Standard Indoor Blower - Without Powered Convenience Outlet

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC					FLA	FLA	FLA	FLA				
037 (3)	208	9.1	68	14.2	1.5	6.0	5.5	0.0	None	-	-	-	18.9	24.4	25	30
									E03	2.3	1	6.4	18.9	24.4	25	30
									E06	4.5	1	12.5	23.1	30	25	30
									E08	6.8	1	18.9	31.1	38	35	40
									E15	11.3	2	31.4	46.7	53.6	50	60
	230	9.1	68	14.2	1.5	6.0	5.5	0.0	None	-	-	-	18.9	24.4	25	30
									E03	3	1	7.2	18.9	24.4	25	30
									E06	6	1	14.4	25.5	32.4	30	35
									E08	9	1	21.7	34.6	41.4	35	45
									E15	15	2	36.1	52.6	59.5	60	60
	460	4.5	34	7	0.8	3.0	2.2	0.0	None	-	-	-	9.4	11.6	15	15
									E03	3	1	3.6	9.4	11.6	15	15
									E06	6	1	7.2	12.8	15.5	15	20
									E08	9	1	10.8	17.3	20	20	20
									E15	15	2	18.0	26.3	29.1	30	30
	575	3.8	28	6	0.6	2.4	1.8	0.0	None	-	-	-	7.8	9.6	15	15
									E08	9	1	8.7	13.8	16.1	15	20
									E15	15	2	14.4	21	23.3	25	25
049 (4)	208	11.2	88	17.5	1.5	6.0	5.5	0.0	None	-	-	-	21.5	27	30	35
									E06	4.5	1	12.5	23.1	30	30	35
									E08	6.8	1	18.9	31.1	38	35	40
									E15	11.3	2	31.4	46.7	53.6	50	60
									E20	15	2	41.6	59.5	66.4	60	70
	230	11.2	88	17.5	1.5	6.0	5.5	0.0	None	-	-	-	21.7	27	30	35
									E06	6	1	14.4	25.5	32.4	30	35
									E08	9	1	21.7	34.6	41.4	35	45
									E15	15	2	36.1	52.6	59.5	60	60
									E20	20	2	48.1	67.6	74.5	70	80
	460	5.6	44	8.0	0.8	3.0	2.2	0.0	None	-	-	-	10.8	13	15	15
									E06	6	1	7.2	12.8	15.5	15	20
									E08	9	1	10.8	17.3	20	20	20
									E15	15	2	18.0	26.3	29.1	30	30
									E20	20	2	24.1	33.8	36.6	35	40
	575	4.5	36	7.0	0.6	2.4	1.8	0.0	None	-	-	-	8.6	10.4	15	15
									E08	9	1	8.7	13.8	16.1	15	20
									E15	15	2	14.4	21	23.3	25	25
E20									20	2	19.2	27.1	29.3	30	30	
061 (5)	208	14.1	88	22	1.5	6.0	5.5	0.0	None	-	-	-	26.6	32.1	35	45
									E06	4.5	1	12.5	26.6	32.1	35	45
									E08	6.8	1	18.9	31.1	38	40	45
									E15	11.3	2	31.4	46.7	53.6	50	60
									E20	15	2	41.6	59.5	66.4	60	70
	230	14.1	88	22	1.5	6.0	5.5	0.0	E23	18	2	50.0	70	76.8	70	80
									None	-	-	-	26.6	32.1	35	45
									E06	6	1	14.4	26.6	32.4	35	45
									E08	9	1	21.7	34.6	41.4	40	45
									E15	15	2	36.1	52.6	59.5	60	60
	460	7.7	55	12	0.8	3.0	2.2	0.0	E20	20	2	48.1	67.6	74.5	70	80
									E23	24	2	57.7	79.7	86.5	80	90
									None	-	-	-	14.2	16.4	20	20
									E06	6	1	7.2	14.2	16.4	20	20
									E08	9	1	10.8	17.3	20	20	20
	575	5.1	36	7.5	0.6	2.4	1.8	0.0	E15	15	2	18.0	26.3	29.1	30	30
									E20	20	2	24.1	33.8	36.6	35	40
									E23	24	2	28.9	39.8	42.6	40	45
None									-	-	-	10	11.8	15	15	
E08									9	1	8.7	13.8	16.1	15	20	

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

ZH078-150 Standard Motor - Without Powered Convenience Outlet

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC					Model	kW	Stages	Amps				
078 (6.5)	208	9.3	68	14.5	1.5	6.0	5.5	0.0	None	-	-	-	29.9	35.4	35	40
									E09	6.8	1	18.9	31.1	38	35	40
									E18	13.5	2	37.5	54.3	61.2	60	70
									E24	18	2	50.0	70	76.8	70	80
									E36	25.5	2	70.8	96	102.9	100	110
	230	9.3	68	14.5	1.5	6.0	5.5	0.0	None	-	-	-	29.9	35.4	35	40
									E09	9	1	21.7	34.6	41.4	35	45
									E18	18	2	43.3	61.6	68.5	70	70
									E24	24	2	57.7	79.7	86.5	80	90
									E36	34	2	81.8	109.7	116.6	110	125
	460	4.9	34	7.7	0.8	3.0	2.2	0.0	None	-	-	-	15.6	17.8	20	20
									E09	9	1	10.8	17.3	20	20	20
									E18	18	2	21.7	30.8	33.6	35	35
									E24	24	2	28.9	39.8	42.6	40	45
									E36	34	2	40.9	54.9	57.6	60	60
	575	3.8	28	6	0.6	2.4	1.8	0.0	None	-	-	-	12.2	14	15	15
									E09	9	1	8.7	13.8	16.1	15	20
									E18	18	2	17.3	24.7	26.9	25	30
									E24	24	2	23.1	31.9	34.1	35	35
									E36	34	2	32.7	43.9	46.1	45	50
090 (7.5)	208	11.9	88	18.5	3.5	6.0	5.5	0.0	None	-	-	-	39.8	45.3	50	50
									E09	6.8	1	18.9	39.8	45.3	50	50
									E18	13.5	2	37.5	54.3	61.2	60	70
									E24	18	2	50.0	70	76.8	70	80
									E36	25.5	2	70.8	96	102.9	100	110
	230	11.9	88	18.5	3.5	6.0	5.5	0.0	None	-	-	-	39.8	45.3	50	50
									E09	9	1	21.7	39.8	45.3	50	50
									E18	18	2	43.3	61.6	68.5	70	70
									E24	24	2	57.7	79.7	86.5	80	90
									E36	34	2	81.8	109.7	116.6	110	125
	460	5.2	44	8.1	1.6	3.0	2.2	0.0	None	-	-	-	17.9	20.1	20	25
									E09	9	1	10.8	17.9	20.1	20	25
									E18	18	2	21.7	30.8	33.6	35	35
									E24	24	2	28.9	39.8	42.6	40	45
									E36	34	2	40.9	54.9	57.6	60	60
	575	4.8	36	7.5	1.3	2.4	1.8	0.0	None	-	-	-	15.8	17.6	20	20
									E09	9	1	8.7	15.8	17.6	20	20
									E18	18	2	17.3	24.7	26.9	25	30
									E24	24	2	23.1	31.9	34.1	35	35
									E36	34	2	32.7	43.9	46.1	45	50
102 (8.5)	208	12.2	88	19	3.5	6.8	5.5	0.0	None	-	-	-	41.3	46.8	50	50
									E09	6.8	1	18.9	41.3	46.8	50	50
									E18	13.5	2	37.5	55.3	62.2	60	70
									E24	18	2	50.0	71	77.8	80	80
									E36	25.5	2	70.8	97	103.9	100	110
	230	12.2	88	19	3.5	6.8	5.5	0.0	None	-	-	-	41.3	46.8	50	50
									E09	9	1	21.7	41.3	46.8	50	50
									E18	18	2	43.3	62.6	69.5	70	70
									E24	24	2	57.7	80.7	87.5	90	90
									E36	34	2	81.8	110.7	117.6	125	125
	460	5.8	44	9	1.6	3.4	2.2	0.0	None	-	-	-	19.7	21.9	25	25
									E09	9	1	10.8	19.7	21.9	25	25
									E18	18	2	21.7	31.3	34.1	35	35
									E24	24	2	28.9	40.3	43.1	45	45
									E36	34	2	40.9	55.4	58.1	60	60
	575	4.4	36	5.5	1.3	2.7	1.8	0.0	None	-	-	-	15.2	17	20	20
									E09	9	1	8.7	15.2	17	20	20
									E18	18	2	17.3	25	27.3	25	30
									E24	24	2	23.1	32.2	34.5	35	35
									E36	34	2	32.7	44.3	46.5	45	50

ZH078-150 Standard Motor - Without Powered Convenience Outlet (Continued)

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC					Model	kW	Stages	Amps				
120 (10)	208	16.0	110.0	24.9	3.5	6.8	5.5	0.0	None	-	-	-	49.8	55.3	60	70
									E18	13.5	2	37.5	55.3	62.2	60	70
									E24	18.0	2	50.0	71.0	77.8	80	80
									E36	25.5	2	70.8	97.0	103.9	100	110
									E54	40.6	2	112.7	149.4	156.2	150	175
	230	16.0	110.0	24.9	3.5	6.8	5.5	0.0	None	-	-	-	49.8	55.3	60	70
									E18	18.0	2	43.3	62.6	69.5	70	70
									E24	24.0	2	57.7	80.7	87.5	90	90
									E36	34.0	2	81.8	110.7	117.6	125	125
									E54	54.0	2	129.9	138.4	145.3	150	175
	460	7.8	52.0	12.1	1.6	3.4	2.2	0.0	None	-	-	-	24.2	26.4	30	30
									E18	18.0	2	21.7	31.3	34.1	35	35
									E24	24.0	2	28.9	40.3	43.1	45	45
									E36	34.0	2	40.9	55.4	58.1	60	60
									E54	54.0	2	65.0	69.2	72.0	80	80
	575	5.7	38.9	8.9	1.3	2.7	1.8	0.0	None	-	-	-	18.1	19.9	20	25
									E18	18.0	2	17.3	25.0	27.3	25	30
									E24	24.0	2	23.1	32.2	34.5	35	35
									E36	34.0	2	32.7	44.3	46.5	45	50
									E54	54.0	2	52.0	55.3	57.6	60	60
150 (12.5)	208	23.1	160	36	1.5	9.6	5.5	0.0	None	-	-	-	67.6	73.1	90	90
									E18	13.5	2	37.5	67.6	73.1	90	90
									E24	18	2	50.0	74.5	81.3	90	90
									E36	25.5	2	70.8	100.5	107.4	110	110
									E54	40.6	2	112.7	152.9	159.7	175	175
	230	23.1	160	36	1.5	9.6	5.5	0.0	None	-	-	-	67.6	73.1	90	90
									E18	18	2	43.3	67.6	73.1	90	90
									E24	24	2	57.7	84.2	91	90	100
									E36	34	2	81.8	114.2	121.1	125	125
									E54	54	2	129.9	141.9	148.8	175	175
	460	12.2	87	19	0.8	4.8	2.2	0.0	None	-	-	-	35.5	37.7	45	45
									E18	18	2	21.7	35.5	37.7	45	45
									E24	24	2	28.9	42.1	44.8	45	45
									E36	34	2	40.9	57.1	59.9	60	60
									E54	54	2	65.0	71	73.7	80	80
	575	8.7	62	13.5	0.6	3.9	1.8	0.0	None	-	-	-	25.9	27.7	30	35
									E18	18	2	17.3	26.5	28.8	30	35
									E24	24	2	23.1	33.7	36	35	40
									E36	34	2	32.7	45.8	48	50	50
									E54	54	2	52.0	56.8	59.1	70	70

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

ZH037-061 Hi Static Indoor Blower - Without Powered Convenience Outlet

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC					Model	kW	Stages	Amps				
037 (3)	208	9.1	68	14.2	1.5	6.0	5.5	0.0	None	-	-	-	18.9	24.4	25	30
									E03	2.3	1	6.4	18.9	24.4	25	30
									E06	4.5	1	12.5	23.1	30	25	30
									E08	6.8	1	18.9	31.1	38	35	40
									E15	11.3	2	31.4	46.7	53.6	50	60
	230	9.1	68	14.2	1.5	6.0	5.5	0.0	None	-	-	-	18.9	24.4	25	30
									E03	3	1	7.2	18.9	24.4	25	30
									E06	6	1	14.4	25.5	32.4	30	35
									E08	9	1	21.7	34.6	41.4	35	45
									E15	15	2	36.1	52.6	59.5	60	60
	460	4.5	34	7	0.8	3.0	2.2	0.0	None	-	-	-	9.4	11.6	15	15
									E03	3	1	3.6	9.4	11.6	15	15
									E06	6	1	7.2	12.8	15.5	15	20
									E08	9	1	10.8	17.3	20	20	20
									E15	15	2	18.0	26.3	29.1	30	30
	575	3.8	28	6	0.6	2.4	1.8	0.0	None	-	-	-	7.8	9.6	15	15
									E08	9	1	8.7	13.8	16.1	15	20
									E15	15	2	14.4	21	23.3	25	25
									None	-	-	-	21.5	27	30	35
									E06	4.5	1	12.5	23.1	30	30	35
049 (4)	208	11.2	88	17.5	1.5	6.0	5.5	0.0	E08	6.8	1	18.9	31.1	38	35	40
									E15	11.3	2	31.4	46.7	53.6	50	60
									E20	15	2	41.6	59.5	66.4	60	70
									None	-	-	-	21.5	27	30	35
									E06	6	1	14.4	25.5	32.4	30	35
	230	11.2	88	17.5	1.5	6.0	5.5	0.0	E08	9	1	21.7	34.6	41.4	35	45
									E15	15	2	36.1	52.6	59.5	60	60
									E20	20	2	48.1	67.6	74.5	70	80
									None	-	-	-	10.8	13	15	15
									E06	6	1	7.2	12.8	15.5	15	20
	460	5.6	44	8.0	0.8	3.0	2.2	0.0	E08	9	1	10.8	17.3	20	20	20
									E15	15	2	18.0	26.3	29.1	30	30
									E20	20	2	24.1	33.8	36.6	35	40
									None	-	-	-	8.6	10.4	15	15
									E08	9	1	8.7	13.8	16.1	15	20
061 (5)	208	14.1	88	22	1.5	6.8	5.5	0.0	E15	15	2	31.4	47.7	54.6	50	60
									E20	15	2	41.6	60.5	67.4	70	70
									E23	18	2	50.0	71	77.8	80	80
									None	-	-	-	27.4	32.9	35	45
									E06	4.5	1	12.5	27.4	32.9	35	45
	230	14.1	88	22	1.5	6.8	5.5	0.0	E08	9	1	21.7	35.6	42.4	40	45
									E15	15	2	36.1	53.6	60.5	60	70
									E20	20	2	48.1	68.6	75.5	70	80
									E23	24	2	57.7	80.7	87.5	90	90
									None	-	-	-	14.6	16.8	20	20
	460	7.7	55	12	0.8	3.4	2.2	0.0	E06	6	1	7.2	14.6	16.8	20	20
									E08	9	1	10.8	17.8	20.5	20	25
									E15	15	2	18.0	26.8	29.6	30	30
									E20	20	2	24.1	34.3	37.1	35	40
									E23	24	2	28.9	40.3	43.1	45	45
	575	5.1	36	7.5	0.6	2.7	1.8	0.0	None	-	-	-	10.3	12.1	15	15
									E08	9	1	8.7	14.2	16.5	15	20
									E15	15	2	14.4	21.4	23.7	25	25
									E20	20	2	19.2	27.4	29.7	30	30
									E23	24	2	23.1	32.2	34.5	35	35

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

ZH078-150 Hi Static Motor - Without Powered Convenience Outlet

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC	FLA	FLA	FLA	FLA	Model	kW	Stages	Amps				
078 (6.5)	208	9.3	68	14.5	1.5	6.8	5.5	0.0	None	-	-	-	30.7	36.2	40	45
									E09	6.8	1	18.9	32.1	39	40	45
									E18	13.5	2	37.5	55.3	62.2	60	70
									E24	18	2	50.0	71	77.8	80	80
									E36	25.5	2	70.8	97	103.9	100	110
									None	-	-	-	30.7	36.2	40	45
									E09	9	1	21.7	35.6	42.4	40	45
									E18	18	2	43.3	62.6	69.5	70	70
									E24	24	2	57.7	80.7	87.5	90	90
									E36	34	2	81.8	110.7	117.6	125	125
									None	-	-	-	16	18.2	20	20
									E09	9	1	10.8	17.8	20.5	20	25
									E18	18	2	21.7	31.3	34.1	35	35
									E24	24	2	28.9	40.3	43.1	45	45
									E36	34	2	40.9	55.4	58.1	60	60
									None	-	-	-	12.5	14.3	15	15
									E09	9	1	8.7	14.2	16.5	15	20
									E18	18	2	17.3	25	27.3	25	30
									E24	24	2	23.1	32.2	34.5	35	35
									E36	34	2	32.7	44.3	46.5	45	50
090 (7.5)	208	11.9	88	18.5	3.5	9.6	5.5	0.0	None	-	-	-	43.4	48.9	50	60
									E09	6.8	1	18.9	43.4	48.9	50	60
									E18	13.5	2	37.5	58.8	65.7	60	70
									E24	18	2	50.0	74.5	81.3	80	90
									E36	25.5	2	70.8	100.5	107.4	110	110
									None	-	-	-	43.4	48.9	50	60
									E09	9	1	21.7	43.4	48.9	50	60
									E18	18	2	43.3	66.1	73	70	80
									E24	24	2	57.7	84.2	91	90	100
									E36	34	2	81.8	114.2	121.1	125	125
									None	-	-	-	19.7	21.9	20	25
									E09	9	1	10.8	19.7	22.3	20	25
									E18	18	2	21.7	33.1	35.8	35	40
									E24	24	2	28.9	42.1	44.8	45	45
									E36	34	2	40.9	57.1	59.9	60	60
									None	-	-	-	17.3	19.1	20	20
									E09	9	1	8.7	17.3	19.1	20	20
									E18	18	2	17.3	26.5	28.8	30	30
									E24	24	2	23.1	33.7	36	35	40
									E36	34	2	32.7	45.8	48	50	50
102 (8.5)	208	12.2	88	19	3.5	9.6	5.5	0.0	None	-	-	-	44.1	49.6	50	60
									E09	6.8	1	18.9	44.1	49.6	50	60
									E18	13.5	2	37.5	58.8	65.7	60	70
									E24	18	2	50.0	74.5	81.3	80	90
									E36	25.5	2	70.8	100.5	107.4	110	110
									None	-	-	-	44.1	49.6	50	60
									E09	9	1	21.7	44.1	49.6	50	60
									E18	18	2	43.3	66.1	73	70	80
									E24	24	2	57.7	84.2	91	90	100
									E36	34	2	81.8	114.2	121.1	125	125
									None	-	-	-	21.1	23.3	25	25
									E09	9	1	10.8	21.1	23.3	25	25
									E18	18	2	21.7	33.1	35.8	35	40
									E24	24	2	28.9	42.1	44.8	45	45
									E36	34	2	40.9	57.1	59.9	60	60
									None	-	-	-	16.4	18.2	20	20
									E09	9	1	8.7	16.4	18.2	20	20
									E18	18	2	17.3	26.5	28.8	30	30
									E24	24	2	23.1	33.7	36	35	40
									E36	34	2	32.7	45.8	48	50	50

ZH078-150 Hi Static Motor - Without Powered Convenience Outlet (Continued)

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC					Model	kW	Stages	Amps				
120 (10)	208	16.0	110.0	24.9	3.5	9.6	5.5	0.0	None	-	-	-	52.6	58.1	60	70
									E18	13.5	2	37.5	58.8	65.7	60	70
									E24	18.0	2	50.0	74.5	81.3	80	90
									E36	25.5	2	70.8	100.5	107.4	110	110
	230	16.0	110.0	24.9	3.5	9.6	5.5	0.0	E54	40.6	2	112.7	152.9	159.7	175	175
									None	-	-	-	52.6	58.1	60	70
									E18	18.0	2	43.3	66.1	73.0	70	80
									E24	24.0	2	57.7	84.2	91.0	90	100
	460	7.8	52.0	12.1	1.6	4.8	2.2	0.0	E36	34.0	2	81.8	114.2	121.1	125	125
									E54	54.0	2	129.9	141.9	148.8	175	175
									None	-	-	-	25.6	27.8	30	35
									E18	18.0	2	21.7	33.1	35.8	35	40
	575	5.7	38.9	8.9	1.3	3.9	1.8	0.0	E24	24.0	2	28.9	42.1	44.8	45	45
									E36	34.0	2	40.9	57.1	59.9	60	60
									E54	54.0	2	65.0	71.0	73.7	80	80
									None	-	-	-	19.3	21.1	25	25
150 (12.5)	208	23.1	160	36	1.5	15.2	5.5	0.0	E18	18.0	2	17.3	26.5	28.8	30	30
									E24	24.0	2	23.1	33.7	36.0	35	40
									E36	34.0	2	32.7	45.8	48.0	50	50
									E54	54.0	2	52.0	56.8	59.1	70	70
	230	23.1	160	36	1.5	15.2	5.5	0.0	None	-	-	-	73.2	78.7	90	100
									E18	13.5	2	37.5	73.2	78.7	90	100
									E24	18	2	50.0	81.5	88.3	90	100
									E36	25.5	2	70.8	107.5	114.4	110	125
	460	12.2	87	19	0.8	7.6	2.2	0.0	E54	40.6	2	112.7	159.9	166.7	175	175
									None	-	-	-	73.2	78.7	90	100
									E18	18	2	43.3	73.2	80	90	100
									E24	24	2	57.7	91.2	98	100	100
	575	8.7	62	13.5	0.6	6.1	1.8	0.0	E36	34	2	81.8	121.2	128.1	125	150
									E54	54	2	129.9	148.9	155.8	175	175
									None	-	-	-	38.3	40.5	50	50
									E18	18	2	21.7	38.3	40.5	50	50
									E24	24	2	28.9	45.6	48.3	50	50
									E36	34	2	40.9	60.6	63.4	70	70
									E54	54	2	65.0	74.5	77.2	90	90
									None	-	-	-	28.1	29.9	35	35
									E18	18	2	17.3	29.3	31.5	35	35
									E24	24	2	23.1	36.5	38.7	40	40
									E36	34	2	32.7	48.5	50.8	50	60
									E54	54	2	52.0	59.6	61.8	70	70

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

ZH037-061 Standard Indoor Blower - With Powered Convenience Outlet

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC					Model	kW	Stages	Amps				
037 (3)	208	9.1	68	14.2	1.5	6.0	5.5	10.0	None	-	-	-	29.1	34.6	35	40
									E03	2.3	1	6.4	29.1	34.9	35	40
									E06	4.5	1	12.5	35.6	42.5	40	45
									E08	6.8	1	18.9	43.6	50.5	45	60
									E15	11.3	2	31.4	59.2	66.1	60	70
	230	9.1	68	14.2	1.5	6.0	5.5	10.0	None	-	-	-	29.1	34.6	35	40
									E03	3	1	7.2	29.1	35.9	35	40
									E06	6	1	14.4	38	44.9	40	45
									E08	9	1	21.7	47.1	53.9	50	60
									E15	15	2	36.1	65.1	72	70	80
	460	4.5	34	7	0.8	3.0	2.2	5.0	None	-	-	-	14.6	16.8	15	20
									E03	3	1	3.6	14.6	17.3	15	20
									E06	6	1	7.2	19	21.8	20	25
									E08	9	1	10.8	23.5	26.3	25	30
									E15	15	2	18.0	32.6	35.3	35	40
	575	3.8	28	6	0.6	2.4	1.8	4.0	None	-	-	-	11.8	13.6	15	15
									E08	9	1	8.7	18.8	21.1	20	25
									E15	15	2	14.4	26	28.3	30	30
									None	-	-	-	31.5	37	40	45
									E06	4.5	1	12.5	35.6	42.5	40	45
049 (4)	208	11.2	88	17.5	1.5	6.0	5.5	10.0	E08	6.8	1	18.9	43.6	50.5	45	60
									E15	11.3	2	31.4	59.2	66.1	60	70
									E20	15.0	2	41.6	72	78.9	80	80
									None	-	-	-	31.5	37	40	45
									E06	6.0	1	14.4	38	44.9	40	45
	230	11.2	88	17.5	1.5	6.0	5.5	10.0	E08	9.0	1	21.7	47.1	53.9	50	60
									E15	15.0	2	36.1	65.1	72	70	80
									E20	20.0	2	48.1	80.1	87	90	90
									None	-	-	-	15.8	18	20	20
									E06	6.0	1	7.2	19	21.8	20	25
	460	5.6	44	8.0	0.8	3.0	2.2	5.0	E08	9.0	1	10.8	23.5	26.3	25	30
									E15	15.0	2	18.0	32.6	35.3	35	40
									E20	20.0	2	24.1	40.1	42.8	45	45
									None	-	-	-	12.6	14.4	15	15
									E08	9.0	1	8.7	18.8	21.1	20	25
	575	4.5	36	7.0	0.6	2.4	1.8	4.0	E15	15.0	2	14.4	26	28.3	30	30
									E20	20.0	2	19.2	32.1	34.3	35	35
061 (5)	208	14.1	88	22	1.5	6.0	5.5	10.0	None	-	-	-	36.6	42.1	50	50
									E06	4.5	1	12.5	36.6	42.5	50	50
									E08	6.8	1	18.9	43.6	50.5	50	60
									E15	11.3	2	31.4	59.2	66.1	60	70
									E20	15	2	41.6	72	78.9	80	80
	230	14.1	88	22	1.5	6.0	5.5	10.0	E23	18	2	50.0	82.5	89.3	90	90
									None	-	-	-	36.6	42.1	50	50
									E06	6	1	14.4	38	44.9	50	50
									E08	9	1	21.7	47.1	53.9	50	60
									E15	15	2	36.1	65.1	72	70	80
	460	7.7	55	12	0.8	3.0	2.2	5.0	E20	20	2	48.1	80.1	87	90	90
									E23	24	2	57.7	92.2	99	100	100
									None	-	-	-	19.2	21.4	25	25
									E06	6	1	7.2	19.2	21.8	25	25
									E08	9	1	10.8	23.5	26.3	25	30
	575	5.1	36	7.5	0.6	2.4	1.8	4.0	E15	15	2	18.0	32.6	35.3	35	40
									E20	20	2	24.1	40.1	42.8	45	45
									E23	24	2	28.9	46.1	48.8	50	50
									None	-	-	-	14	15.8	15	20
									E08	9	1	8.7	18.8	21.1	20	25
	575	5.1	36	7.5	0.6	2.4	1.8	4.0	E15	15	2	14.4	26	28.3	30	30
									E20	20	2	19.2	32.1	34.3	35	35
									E23	24	2	23.1	36.9	39.1	40	40

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

ZH078-150 Standard Motor - With Powered Convenience Outlet

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC					FLA	FLA	FLA	FLA				
078 (6.5)	208	9.3	68	14.5	1.5	6.0	5.5	10.0	None	-	-	-	40.1	45.6	50	50
									E09	6.8	1	18.9	43.6	50.5	50	60
									E18	13.5	2	37.5	66.8	73.7	70	80
									E24	18	2	50.0	82.5	89.3	90	90
	230	9.3	68	14.5	1.5	6.0	5.5	10.0	E36	25.5	2	70.8	108.5	115.4	110	125
									None	-	-	-	40.1	45.6	50	50
									E09	9	1	21.7	47.1	53.9	50	60
									E18	18	2	43.3	74.1	81	80	90
	460	4.9	34	7.7	0.8	3.0	2.2	5.0	E24	24	2	57.7	92.2	99	100	100
									E36	34	2	81.8	122.2	129.1	125	150
									None	-	-	-	20.7	22.9	25	25
									E09	9	1	10.8	23.5	26.3	25	30
	575	3.8	28	6	0.6	2.4	1.8	4.0	E18	18	2	21.7	37.1	39.8	40	40
									E24	24	2	28.9	46.1	48.8	50	50
									E36	34	2	40.9	61.1	63.9	70	70
									None	-	-	-	16.2	18	20	20
090 (7.5)	208	11.9	88	18.5	3.5	6.0	5.5	10.0	E09	9	1	8.7	18.8	21.1	20	25
									E18	18	2	17.3	29.7	31.9	30	35
									E24	24	2	23.1	36.9	39.1	40	40
									E36	34	2	32.7	48.9	51.1	50	60
	230	11.9	88	18.5	3.5	6.0	5.5	10.0	None	-	-	-	49.8	55.3	60	60
									E09	9	1	21.7	49.8	55.3	60	60
									E18	18	2	43.3	74.1	81	80	90
									E24	24	2	57.7	92.2	99	100	100
	460	5.2	44	8.1	1.6	3.0	2.2	5.0	E36	34	2	81.8	122.2	129.1	125	150
									None	-	-	-	22.9	25.1	25	30
									E09	9	1	10.8	23.5	26.3	25	30
									E18	18	2	21.7	37.1	39.8	40	40
	575	4.8	36	7.5	1.3	2.4	1.8	4.0	E24	24	2	28.9	46.1	48.8	50	50
									E36	34	2	40.9	61.1	63.9	70	70
									None	-	-	-	19.8	21.6	20	25
									E09	9	1	8.7	19.8	21.6	20	25
102 (8.5)	208	12.2	88	19	3.5	6.8	5.5	10.0	E18	18	2	17.3	29.7	31.9	30	35
									E24	24	2	23.1	36.9	39.1	40	40
									E36	34	2	32.7	48.9	51.1	50	60
									None	-	-	-	51.3	56.8	60	60
	230	12.2	88	19	3.5	6.8	5.5	10.0	E09	9	1	21.7	51.3	56.8	60	60
									E18	18	2	43.3	75.1	82	80	90
									E24	24	2	57.7	93.2	100	100	100
									E36	34	2	81.8	123.2	130.1	125	150
	460	5.8	44	9	1.6	3.4	2.2	5.0	None	-	-	-	24.7	26.9	30	30
									E09	9	1	10.8	24.7	26.9	30	30
									E18	18	2	21.7	37.6	40.3	40	45
									E24	24	2	28.9	46.6	49.3	50	50
	575	4.4	36	5.5	1.3	2.7	1.8	4.0	E36	34	2	40.9	61.6	64.4	70	70
									None	-	-	-	19.2	21	20	25
									E09	9	1	8.7	19.2	21.5	20	25
									E18	18	2	17.3	30	32.3	30	35

ZH078-150 Standard Motor - With Powered Convenience Outlet (Continued)

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC					Model	kW	Stages	Amps				
120 (10)	208	16.0	110.0	24.9	3.5	6.8	5.5	10.0	None	-	-	-	59.8	65.3	70	80
									E18	13.5	2	37.5	67.8	74.7	70	80
									E24	18.0	2	50.0	83.5	90.3	90	100
									E36	25.5	2	70.8	109.5	116.4	110	125
									E54	40.6	2	112.7	161.9	168.7	175	175
	230	16.0	110.0	24.9	3.5	6.8	5.5	10.0	None	-	-	-	59.8	65.3	70	80
									E18	18.0	2	43.3	75.1	82.0	80	90
									E24	24.0	2	57.7	93.2	100.0	100	100
									E36	34.0	2	81.8	123.2	130.1	125	150
									E54	54.0	2	129.9	150.9	157.8	175	175
	460	7.8	52.0	12.1	1.6	3.4	2.2	5.0	None	-	-	-	29.2	31.4	35	35
									E18	18.0	2	21.7	37.6	40.3	40	45
									E24	24.0	2	28.9	46.6	49.3	50	50
									E36	34.0	2	40.9	61.6	64.4	70	70
									E54	54.0	2	65.0	75.5	78.2	80	90
	575	5.7	38.9	8.9	1.3	2.7	1.8	4.0	None	-	-	-	22.1	23.9	25	25
									E18	18.0	2	17.3	30.0	32.3	30	35
									E24	24.0	2	23.1	37.2	39.5	40	40
									E36	34.0	2	32.7	49.3	51.5	50	60
									E54	54.0	2	52.0	60.3	62.6	70	70
150 (12.5)	208	23.1	160	36	1.5	9.6	5.5	10.0	None	-	-	-	77.6	83.1	100	100
									E18	13.5	2	37.5	77.6	83.1	100	100
									E24	18	2	50.0	87	93.8	100	100
									E36	25.5	2	70.8	113	119.9	125	125
									E54	40.6	2	112.7	165.4	172.2	175	175
	230	23.1	160	36	1.5	9.6	5.5	10.0	None	-	-	-	77.6	83.1	100	100
									E18	18	2	43.3	78.6	85.5	100	100
									E24	24	2	57.7	96.7	103.5	100	110
									E36	34	2	81.8	126.7	133.6	150	150
									E54	54	2	129.9	154.4	161.3	175	175
	460	12.2	87	19	0.8	4.8	2.2	5.0	None	-	-	-	40.5	42.7	50	50
									E18	18	2	21.7	40.5	42.7	50	50
									E24	24	2	28.9	48.3	51.1	50	60
									E36	34	2	40.9	63.4	66.1	70	70
									E54	54	2	65.0	77.2	80	90	90
	575	8.7	62	13.5	0.6	3.9	1.8	4.0	None	-	-	-	29.9	31.7	35	40
									E18	18	2	17.3	31.5	33.8	35	40
									E24	24	2	23.1	38.7	41	40	45
									E36	34	2	32.7	50.8	53	60	60
									E54	54	2	52.0	61.8	64.1	70	70

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

ZH037-061 Hi Static Indoor Blower - With Powered Convenience Outlet

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC					FLA	FLA	FLA	FLA				
037 (3)	208	9.1	68	14.2	1.5	6.0	5.5	10.0	None	-	-	-	29.1	34.6	35	40
									E03	2.3	1	6.4	29.1	34.9	35	40
									E06	4.5	1	12.5	35.6	42.5	40	45
									E08	6.8	1	18.9	43.6	50.5	45	60
									E15	11.3	2	31.4	59.2	66.1	60	70
	230	9.1	68	14.2	1.5	6.0	5.5	10.0	None	-	-	-	29.1	34.6	35	40
									E03	3.0	1	7.2	29.1	35.9	35	40
									E06	6.0	1	14.4	38	44.9	40	45
									E08	9.0	1	21.7	47.1	53.9	50	60
									E15	15.0	2	36.1	65.1	72	70	80
	460	4.5	34	7	0.8	3.0	2.2	5.0	None	-	-	-	14.6	16.8	15	20
									E03	3.0	1	3.6	14.6	17.3	15	20
									E06	6.0	1	7.2	19	21.8	20	25
									E08	9.0	1	10.8	23.5	26.3	25	30
									E15	15.0	2	18.0	32.6	35.3	35	40
	575	3.8	28	6	0.6	2.4	1.8	4.0	None	-	-	-	11.8	13.6	15	15
									E08	9.0	1	8.7	18.8	21.1	20	25
									E15	15.0	2	14.4	26	28.3	30	30
049 (4)	208	11.2	88	17.5	1.5	6.0	5.5	10.0	None	-	-	-	31.5	37	40	45
									E06	4.5	1	12.5	35.6	42.5	40	45
									E08	6.8	1	18.9	43.6	50.5	45	60
									E15	11.3	2	31.4	59.2	66.1	60	70
									E20	15.0	2	41.6	72	78.9	80	80
	230	11.2	88	17.5	1.5	6.0	5.5	10.0	None	-	-	-	31.5	37	40	45
									E06	6.0	1	14.4	38	44.9	40	45
									E08	9.0	1	21.7	47.1	53.9	50	60
									E15	15.0	2	36.1	65.1	72	70	80
									E20	20.0	2	48.1	80.1	87	90	90
	460	5.6	44	8.0	0.8	3.0	2.2	5.0	None	-	-	-	15.8	18	20	20
									E06	6.0	1	7.2	19	21.8	20	25
									E08	9.0	1	10.8	23.5	26.3	25	30
									E15	15.0	2	18.0	32.6	35.3	35	40
									E20	20.0	2	24.1	40.1	42.8	45	45
	575	4.5	36	7.0	0.6	2.4	1.8	4.0	None	-	-	-	12.6	14.4	15	15
									E08	9.0	1	8.7	18.8	21.1	20	25
									E15	15.0	2	14.4	26	28.3	30	30
									E20	20.0	2	19.2	32.1	34.3	35	35
061 (5)	208	14.1	88	22	1.5	6.8	5.5	10.0	None	-	-	-	37.4	42.9	50	50
									E06	4.5	1	12.5	37.4	43.5	50	50
									E08	6.8	1	18.9	44.6	51.5	50	60
									E15	11.3	2	31.4	60.2	67.1	70	70
									E20	15	2	41.6	73	79.9	80	80
	230	14.1	88	22	1.5	6.8	5.5	10.0	E23	18	2	50.0	83.5	90.3	90	100
									None	-	-	-	37.4	42.9	50	50
									E06	6	1	14.4	39	45.9	50	50
									E08	9	1	21.7	48.1	54.9	50	60
									E15	15	2	36.1	66.1	73	70	80
	460	7.7	55	12	0.8	3.4	2.2	5.0	E20	20	2	48.1	81.1	88	90	90
									E23	24	2	57.7	93.2	100	100	100
									None	-	-	-	19.6	21.8	25	25
									E06	6	1	7.2	19.6	22.3	25	25
									E08	9	1	10.8	24	26.8	25	30
	575	5.1	36	7.5	0.6	2.7	1.8	4.0	E15	15	2	18.0	33.1	35.8	35	40
									E20	20	2	24.1	40.6	43.3	45	45
									E23	24	2	28.9	46.6	49.3	50	50
									None	-	-	-	14.3	16.1	15	20
									E08	9	1	8.7	19.2	21.5	20	25

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

ZH078-150 Hi Static Motor - With Powered Convenience Outlet

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC	FLA	FLA	FLA	FLA	Model	kW	Stages	Amps				
078 (6.5)	208	9.3	68	14.5	1.5	6.8	5.5	10.0	None	-	-	-	40.9	46.4	50	50
									E09	6.8	1	18.9	44.6	51.5	50	60
									E18	13.5	2	37.5	67.8	74.7	70	80
									E24	18	2	50.0	83.5	90.3	90	100
									E36	25.5	2	70.8	109.5	116.4	110	125
	230	9.3	68	14.5	1.5	6.8	5.5	10.0	None	-	-	-	40.9	46.4	50	50
									E09	9	1	21.7	48.1	54.9	50	60
									E18	18	2	43.3	75.1	82	80	90
									E24	24	2	57.7	93.2	100	100	100
									E36	34	2	81.8	123.2	130.1	125	150
	460	4.9	34	7.7	0.8	3.4	2.2	5.0	None	-	-	-	21.1	23.3	25	25
									E09	9	1	10.8	24	26.8	25	30
									E18	18	2	21.7	37.6	40.3	40	45
									E24	24	2	28.9	46.6	49.3	50	50
									E36	34	2	40.9	61.6	64.4	70	70
	575	3.8	28	6	0.6	2.7	1.8	4.0	None	-	-	-	16.5	18.3	20	20
									E09	9	1	8.7	19.2	21.5	20	25
									E18	18	2	17.3	30	32.3	30	35
									E24	24	2	23.1	37.2	39.5	40	40
									E36	34	2	32.7	49.3	51.5	50	60
090 (7.5)	208	11.9	88	18.5	3.5	9.6	5.5	10.0	None	-	-	-	53.4	58.9	60	70
									E09	6.8	1	18.9	53.4	58.9	60	70
									E18	13.5	2	37.5	71.3	78.2	80	80
									E24	18	2	50.0	87	93.8	90	100
									E36	25.5	2	70.8	113	119.9	125	125
	230	11.9	88	18.5	3.5	9.6	5.5	10.0	None	-	-	-	53.4	58.9	60	70
									E09	9	1	21.7	53.4	58.9	60	70
									E18	18	2	43.3	78.6	85.5	80	90
									E24	24	2	57.7	96.7	103.5	100	110
									E36	34	2	81.8	126.7	133.6	150	150
	460	5.2	44	8.1	1.6	4.8	2.2	5.0	None	-	-	-	24.7	26.9	25	30
									E09	9	1	10.8	25.8	28.5	30	30
									E18	18	2	21.7	39.3	42.1	40	45
									E24	24	2	28.9	48.3	51.1	50	60
									E36	34	2	40.9	63.4	66.1	70	70
	575	4.8	36	7.5	1.3	3.9	1.8	4.0	None	-	-	-	21.3	23.1	25	25
									E09	9	1	8.7	21.3	23.1	25	25
									E18	18	2	17.3	31.5	33.8	35	35
									E24	24	2	23.1	38.7	41	40	45
									E36	34	2	32.7	50.8	53	60	60
102 (8.5)	208	12.2	88	19	3.5	9.6	5.5	10.0	None	-	-	-	54.1	59.6	60	70
									E09	6.8	1	18.9	54.1	59.6	60	70
									E18	13.5	2	37.5	71.3	78.2	80	80
									E24	18	2	50.0	87	93.8	90	100
									E36	25.5	2	70.8	113	119.9	125	125
	230	12.2	88	19	3.5	9.6	5.5	10.0	None	-	-	-	54.1	59.6	60	70
									E09	9	1	21.7	54.1	59.6	60	70
									E18	18	2	43.3	78.6	85.5	80	90
									E24	24	2	57.7	96.7	103.5	100	110
									E36	34	2	81.8	126.7	133.6	150	150
	460	5.8	44	9	1.6	4.8	2.2	5.0	None	-	-	-	26.1	28.3	30	30
									E09	9	1	10.8	26.1	28.5	30	30
									E18	18	2	21.7	39.3	42.1	40	45
									E24	24	2	28.9	48.3	51.1	50	60
									E36	34	2	40.9	63.4	66.1	70	70
	575	4.4	36	5.5	1.3	3.9	1.8	4.0	None	-	-	-	20.4	22.2	25	25
									E09	9	1	8.7	20.7	23	25	25
									E18	18	2	17.3	31.5	33.8	35	35
									E24	24	2	23.1	38.7	41	40	45
									E36	34	2	32.7	50.8	53	60	60

ZH078-150 Hi Static Motor - With Powered Convenience Outlet (Continued)

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC					Model	kW	Stages	Amps				
120 (10)	208	16.0	110.0	24.9	3.5	9.6	5.5	10.0	None	-	-	-	62.6	68.1	70	80
									E18	13.5	2	37.5	71.3	78.2	80	80
									E24	18.0	2	50.0	87.0	93.8	90	100
									E36	25.5	2	70.8	113.0	119.9	125	125
									E54	40.6	2	112.7	165.4	172.2	175	175
	230	16.0	110.0	24.9	3.5	9.6	5.5	10.0	None	-	-	-	62.6	68.1	70	80
									E18	18.0	2	43.3	78.6	85.5	80	90
									E24	24.0	2	57.7	96.7	103.5	100	110
									E36	34.0	2	81.8	126.7	133.6	150	150
									E54	54.0	2	129.9	154.4	161.3	175	175
	460	7.8	52.0	12.1	1.6	4.8	2.2	5.0	None	-	-	-	30.6	32.8	35	40
									E18	18.0	2	21.7	39.3	42.1	40	45
									E24	24.0	2	28.9	48.3	51.1	50	60
									E36	34.0	2	40.9	63.4	66.1	70	70
									E54	54.0	2	65.0	77.2	80.0	90	90
	575	5.7	38.9	8.9	1.3	3.9	1.8	4.0	None	-	-	-	23.3	25.1	25	30
									E18	18.0	2	17.3	31.5	33.8	35	35
									E24	24.0	2	23.1	38.7	41.0	40	45
									E36	34.0	2	32.7	50.8	53.0	60	60
									E54	54.0	2	52.0	61.8	64.1	70	70
150 (12.5)	208	23.1	160	36	1.5	15.2	5.5	10.0	None	-	-	-	83.2	88.7	100	110
									E18	13.5	2	37.5	83.2	88.7	100	110
									E24	18	2	50.0	94	100.8	100	110
									E36	25.5	2	70.8	120	126.9	125	150
									E54	40.6	2	112.7	172.4	179.2	175	200
	230	23.1	160	36	1.5	15.2	5.5	10.0	None	-	-	-	83.2	88.7	100	110
									E18	18	2	43.3	85.6	92.5	100	110
									E24	24	2	57.7	103.7	110.5	110	125
									E36	34	2	81.8	133.7	140.6	150	150
									E54	54	2	129.9	161.4	168.3	175	175
	460	12.2	87	19	0.8	7.6	2.2	5.0	None	-	-	-	43.3	45.5	50	50
									E18	18	2	21.7	43.3	45.6	50	50
									E24	24	2	28.9	51.8	54.6	60	60
									E36	34	2	40.9	66.9	69.6	70	70
									E54	54	2	65.0	80.7	83.5	90	90
	575	8.7	62	13.5	0.6	6.1	1.8	4.0	None	-	-	-	32.1	33.9	40	40
									E18	18	2	17.3	34.3	36.5	40	40
									E24	24	2	23.1	41.5	43.7	45	45
									E36	34	2	32.7	53.5	55.8	60	60
									E54	54	2	52.0	64.6	66.8	70	70

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

ZJ037-061 Standard Indoor Blower - Without Powered Convenience Outlet

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC					Model	kW	Stages	Amps				
037 (3)	208	8.7	68	13.5	1.5	6.0	5.5	0.0	None	-	-	-	18.4	23.9	25	30
									E03	2.3	1	6.4	18.4	23.9	25	30
									E06	4.5	1	12.5	23.1	30	25	30
									E08	6.8	1	18.9	31.1	38	35	40
									E15	11.3	2	31.4	46.7	53.6	50	60
	230	8.7	68	13.5	1.5	6.0	5.5	0.0	None	-	-	-	18.4	23.9	25	30
									E03	3	1	7.2	18.4	23.9	25	30
									E06	6	1	14.4	25.5	32.4	30	35
									E08	9	1	21.7	34.6	41.4	35	45
									E15	15	2	36.1	52.6	59.5	60	60
	460	4.6	34	7.1	0.8	3.0	2.2	0.0	None	-	-	-	9.6	11.8	15	15
									E03	3	1	3.6	9.6	11.8	15	15
									E06	6	1	7.2	12.8	15.5	15	20
									E08	9	1	10.8	17.3	20	20	20
									E15	15	2	18.0	26.3	29.1	30	30
	575	3.5	28	5.5	0.6	2.4	1.8	0.0	None	-	-	-	7.4	9.2	15	15
									E08	9	1	8.7	13.8	16.1	15	20
									E15	15	2	14.4	21	23.3	25	25
									None	-	-	-	21.5	27	30	35
									E06	4.5	1	12.5	23.1	30	30	35
049 (4)	208	11.2	88	17.5	1.5	6.0	5.5	0.0	E08	6.8	1	18.9	31.1	38	35	40
									E15	11.3	2	31.4	46.7	53.6	50	60
									E20	15	2	41.6	59.5	66.4	60	70
									None	-	-	-	21.7	27	30	35
									E06	6	1	14.4	25.5	32.4	30	35
	230	11.2	88	17.5	1.5	6.0	5.5	0.0	E08	9	1	21.7	34.6	41.4	35	45
									E15	15	2	36.1	52.6	59.5	60	60
									E20	20	2	48.1	67.6	74.5	70	80
									None	-	-	-	10.8	13	15	15
									E06	6	1	7.2	12.8	15.5	15	20
	460	5.6	44	8.0	0.8	3.0	2.2	0.0	E08	9	1	10.8	17.3	20	20	20
									E15	15	2	18.0	26.3	29.1	30	30
									E20	20	2	24.1	33.8	36.6	35	40
									None	-	-	-	8.6	10.4	15	15
									E08	9	1	8.7	13.8	16.1	15	20
	575	4.5	36	7.0	0.6	2.4	1.8	0.0	E15	15	2	14.4	21	23.3	25	25
									E20	20	2	19.2	27.1	29.3	30	30
									None	-	-	-	26.6	32.1	35	45
									E06	4.5	1	12.5	26.6	32.1	35	45
									E08	6.8	1	18.9	31.1	38	40	45
061 (5)	208	14.1	88	22	1.5	6.0	5.5	0.0	E15	11.3	2	31.4	46.7	53.6	50	60
									E20	15	2	41.6	59.5	66.4	60	70
									E23	18	2	50.0	70	76.8	70	80
									None	-	-	-	26.6	32.1	35	45
									E06	6	1	14.4	26.6	32.4	35	45
	230	14.1	88	22	1.5	6.0	5.5	0.0	E08	9	1	21.7	34.6	41.4	40	45
									E15	15	2	36.1	52.6	59.5	60	60
									E20	20	2	48.1	67.6	74.5	70	80
									E23	24	2	57.7	79.7	86.5	80	90
									None	-	-	-	14.2	16.4	20	20
	460	7.7	55	12	0.8	3.0	2.2	0.0	E06	6	1	7.2	14.2	16.4	20	20
									E08	9	1	10.8	17.3	20	20	20
									E15	15	2	18.0	26.3	29.1	30	30
									E20	20	2	24.1	33.8	36.6	35	40
									E23	24	2	28.9	39.8	42.6	40	45
	575	5.1	36	7.5	0.6	2.4	1.8	0.0	None	-	-	-	10	11.8	15	15
									E08	9	1	8.7	13.8	16.1	15	20
									E15	15	2	14.4	21	23.3	25	25
									E20	20	2	19.2	27.1	29.3	30	30
									E23	24	2	23.1	31.9	34.1	35	35

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

ZJ078-150 Standard Motor - Without Powered Convenience Outlet

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC					FLA	FLA	FLA	FLA				
078 (6.5)	208	9.3	68	14.5	1.5	6.0	5.5	0.0	None	-	-	-	29.9	35.4	35	40
									E09	6.8	1	18.9	31.1	38	35	40
									E18	13.5	2	37.5	54.3	61.2	60	70
									E24	18	2	50.0	70	76.8	70	80
	230	9.3	68	14.5	1.5	6.0	5.5	0.0	E36	25.5	2	70.8	96	102.9	100	110
									None	-	-	-	29.9	35.4	35	40
									E09	9	1	21.7	34.6	41.4	35	45
									E18	18	2	43.3	61.6	68.5	70	70
	460	4.9	34	7.6	0.8	3.0	2.2	0.0	E24	24	2	57.7	79.7	86.5	80	90
									E36	34	2	81.8	109.7	116.6	110	125
									None	-	-	-	15.6	17.8	20	20
									E09	9	1	10.8	17.3	20	20	20
	575	3.8	28	6	0.6	2.4	1.8	0.0	E18	18	2	21.7	30.8	33.6	35	35
									E24	24	2	28.9	39.8	42.6	40	45
									E36	34	2	40.9	54.9	57.6	60	60
									None	-	-	-	12.2	14	15	15
090 (7.5)	208	11.9	88	18.5	3.5	6.0	5.5	0.0	E09	9	1	8.7	13.8	16.1	15	20
									E18	18	2	17.3	24.7	26.9	25	30
									E24	24	2	23.1	31.9	34.1	35	35
									E36	34	2	32.7	43.9	46.1	45	50
	230	11.9	88	18.5	3.5	6.0	5.5	0.0	None	-	-	-	39.8	45.3	50	50
									E09	9	1	21.7	39.8	45.3	50	50
									E18	18	2	43.3	61.6	68.5	70	70
									E24	24	2	57.7	79.7	86.5	80	90
	460	5.2	44	8.1	1.6	3.0	2.2	0.0	E36	34	2	81.8	109.7	116.6	110	125
									None	-	-	-	17.9	20.1	20	25
									E09	9	1	10.8	17.9	20.1	20	25
									E18	18	2	21.7	30.8	33.6	35	35
	575	4.8	36	7.5	1.3	2.4	1.8	0.0	E24	24	2	28.9	39.8	42.6	40	45
									E36	34	2	40.9	54.9	57.6	60	60
									None	-	-	-	15.8	17.6	20	20
									E09	9	1	8.7	15.8	17.6	20	20
102 (8.5)	208	12.2	88	19	3.5	6.8	5.5	0.0	E18	18	2	17.3	24.7	26.9	25	30
									E24	24	2	23.1	31.9	34.1	35	35
									E36	34	2	32.7	43.9	46.1	45	50
									None	-	-	-	41.3	46.8	50	50
	230	12.2	88	19	3.5	6.8	5.5	0.0	E09	6.8	1	18.9	41.3	46.8	50	50
									E18	13.5	2	37.5	55.3	62.2	60	70
									E24	18	2	50.0	71	77.8	80	80
									E36	25.5	2	70.8	97	103.9	100	110
	460	5.8	44	9	1.6	3.4	2.2	0.0	None	-	-	-	19.7	21.9	25	25
									E09	9	1	10.8	19.7	21.9	25	25
									E18	18	2	21.7	31.3	34.1	35	35
									E24	24	2	28.9	40.3	43.1	45	45
	575	4.4	36	5.5	1.3	2.7	1.8	0.0	E36	34	2	40.9	55.4	58.1	60	60
									None	-	-	-	15.2	17	20	20
									E09	9	1	8.7	15.2	17	20	20
									E18	18	2	17.3	25	27.3	25	30

ZJ078-150 Standard Motor - Without Powered Convenience Outlet (Continued)

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC					Model	kW	Stages	Amps				
120 (10)	208	16	110	24.9	3.5	6.8	5.5	0.0	None	-	-	-	49.8	55.3	60	70
									E18	13.5	2	37.5	55.3	62.2	60	70
									E24	18	2	50.0	71	77.8	80	80
									E36	25.5	2	70.8	97	103.9	100	110
									E54	40.6	2	112.7	149.4	156.2	150	175
	230	16	110	24.9	3.5	6.8	5.5	0.0	None	-	-	-	49.8	55.3	60	70
									E18	18	2	43.3	62.6	69.5	70	70
									E24	24	2	57.7	80.7	87.5	90	90
									E36	34	2	81.8	110.7	117.6	125	125
									E54	54	2	129.9	138.4	145.3	150	175
	460	7.8	52	12.1	1.6	3.4	2.2	0.0	None	-	-	-	24.2	26.4	30	30
									E18	18	2	21.7	31.3	34.1	35	35
									E24	24	2	28.9	40.3	43.1	45	45
									E36	34	2	40.9	55.4	58.1	60	60
									E54	54	2	65.0	69.2	72	80	80
	575	5.7	38.9	8.9	1.3	2.7	1.8	0.0	None	-	-	-	18.1	19.9	20	25
									E18	18	2	17.3	25	27.3	25	30
									E24	24	2	23.1	32.2	34.5	35	35
									E36	34	2	32.7	44.3	46.5	45	50
									E54	54	2	52.0	55.3	57.6	60	60
150 (12.5)	208	23.1	160	36	1.5	9.6	5.5	0.0	None	-	-	-	67.6	73.1	90	90
									E18	13.5	2	37.5	67.6	73.1	90	90
									E24	18	2	50.0	74.5	81.3	90	90
									E36	25.5	2	70.8	100.5	107.4	110	110
									E54	40.6	2	112.7	152.9	159.7	175	175
	230	23.1	160	36	1.5	9.6	5.5	0.0	None	-	-	-	67.6	73.1	90	90
									E18	18	2	43.3	67.6	73.1	90	90
									E24	24	2	57.7	84.2	91	90	100
									E36	34	2	81.8	114.2	121.1	125	125
									E54	54	2	129.9	141.9	148.8	175	175
	460	12.2	87	19	0.8	4.8	2.2	0.0	None	-	-	-	35.5	37.7	45	45
									E18	18	2	21.7	35.5	37.7	45	45
									E24	24	2	28.9	42.1	44.8	45	45
									E36	34	2	40.9	57.1	59.9	60	60
									E54	54	2	65.0	71	73.7	80	80
	575	8.7	62	13.5	0.6	3.9	1.8	0.0	None	-	-	-	25.9	27.7	30	35
									E18	18	2	17.3	26.5	28.8	30	35
									E24	24	2	23.1	33.7	36	35	40
									E36	34	2	32.7	45.8	48	50	50
									E54	54	2	52.0	56.8	59.1	70	70

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

ZJ037-061 Hi Static Indoor Blower - Without Powered Convenience Outlet

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC					Model	kW	Stages	Amps				
037 (3)	208	8.7	68	13.5	1.5	6.0	5.5	0.0	None	-	-	-	18.4	23.9	25	30
									E03	2.3	1	6.4	18.4	23.9	25	30
									E06	4.5	1	12.5	23.1	30	25	30
									E08	6.8	1	18.9	31.1	38	35	40
									E15	11.3	2	31.4	46.7	53.6	50	60
	230	8.7	68	13.5	1.5	6.0	5.5	0.0	None	-	-	-	18.4	23.9	25	30
									E03	3	1	7.2	18.4	23.9	25	30
									E06	6	1	14.4	25.5	32.4	30	35
									E08	9	1	21.7	34.6	41.4	35	45
									E15	15	2	36.1	52.6	59.5	60	60
	460	4.6	34	7.1	0.8	3.0	2.2	0.0	None	-	-	-	9.6	11.8	15	15
									E03	3	1	3.6	9.6	11.8	15	15
									E06	6	1	7.2	12.8	15.5	15	20
									E08	9	1	10.8	17.3	20	20	20
									E15	15	2	18.0	26.3	29.1	30	30
	575	3.5	28	5.5	0.6	2.4	1.8	0.0	None	-	-	-	7.4	9.2	15	15
									E08	9	1	8.7	13.8	16.1	15	20
									E15	15	2	14.4	21	23.3	25	25
									None	-	-	-	21.5	27	30	35
									E06	4.5	1	12.5	23.1	30	30	35
049 (4)	208	11.2	88	17.5	1.5	6.0	5.5	0.0	E08	6.8	1	18.9	31.1	38	35	40
									E15	11.3	2	31.4	46.7	53.6	50	60
									E20	15	2	41.6	59.5	66.4	60	70
									None	-	-	-	21.5	27	30	35
									E06	6	1	14.4	25.5	32.4	30	35
	230	11.2	88	17.5	1.5	6.0	5.5	0.0	E08	9	1	21.7	34.6	41.4	35	45
									E15	15	2	36.1	52.6	59.5	60	60
									E20	20	2	48.1	67.6	74.5	70	80
									None	-	-	-	10.8	13	15	15
									E06	6	1	7.2	12.8	15.5	15	20
	460	5.6	44	8.0	0.8	3.0	2.2	0.0	E08	9	1	10.8	17.3	20	20	20
									E15	15	2	18.0	26.3	29.1	30	30
									E20	20	2	24.1	33.8	36.6	35	40
									None	-	-	-	8.6	10.4	15	15
									E08	9	1	8.7	13.8	16.1	15	20
	575	4.5	36	7.0	0.6	2.4	1.8	0.0	E15	15	2	14.4	21	23.3	25	25
									E20	20	2	19.2	27.1	29.3	30	30
									None	-	-	-	27.4	32.9	35	45
									E06	4.5	1	12.5	27.4	32.9	35	45
									E08	6.8	1	18.9	32.1	39	40	45
061 (5)	208	14.1	88	22	1.5	6.8	5.5	0.0	E15	11.3	2	31.4	47.7	54.6	50	60
									E20	15	2	41.6	60.5	67.4	70	70
									E23	18	2	50.0	71	77.8	80	80
									None	-	-	-	27.4	32.9	35	45
									E06	6	1	14.4	27.4	33.4	35	45
	230	14.1	88	22	1.5	6.8	5.5	0.0	E08	9	1	21.7	35.6	42.4	40	45
									E15	15	2	36.1	53.6	60.5	60	70
									E20	20	2	48.1	68.6	75.5	70	80
									E23	24	2	57.7	80.7	87.5	90	90
									None	-	-	-	14.6	16.8	20	20
	460	7.7	55	12	0.8	3.4	2.2	0.0	E06	6	1	7.2	14.6	16.8	20	20
									E08	9	1	10.8	17.8	20.5	20	25
									E15	15	2	18.0	26.8	29.6	30	30
									E20	20	2	24.1	34.3	37.1	35	40
									E23	24	2	28.9	40.3	43.1	45	45
	575	5.1	36	7.5	0.6	2.7	1.8	0.0	None	-	-	-	10.3	12.1	15	15
									E08	9	1	8.7	14.2	16.5	15	20
									E15	15	2	14.4	21.4	23.7	25	25
									E20	20	2	19.2	27.4	29.7	30	30
									E23	24	2	23.1	32.2	34.5	35	35

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

ZJ078-150 Hi Static Motor - Without Powered Convenience Outlet

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC					Model	kW	Stages	Amps				
078 (6.5)	208	9.3	68	14.5	1.5	6.8	5.5	0.0	None	-	-	-	30.7	36.2	40	45
									E09	6.8	1	18.9	32.1	39	40	45
									E18	13.5	2	37.5	55.3	62.2	60	70
									E24	18	2	50.0	71	77.8	80	80
									E36	25.5	2	70.8	97	103.9	100	110
	230	9.3	68	14.5	1.5	6.8	5.5	0.0	None	-	-	-	30.7	36.2	40	45
									E09	9	1	21.7	35.6	42.4	40	45
									E18	18	2	43.3	62.6	69.5	70	70
									E24	24	2	57.7	80.7	87.5	90	90
									E36	34	2	81.8	110.7	117.6	125	125
	460	4.9	34	7.6	0.8	3.4	2.2	0.0	None	-	-	-	16	18.2	20	20
									E09	9	1	10.8	17.8	20.5	20	25
									E18	18	2	21.7	31.3	34.1	35	35
									E24	24	2	28.9	40.3	43.1	45	45
									E36	34	2	40.9	55.4	58.1	60	60
	575	3.8	28	6	0.6	2.7	1.8	0.0	None	-	-	-	12.5	14.3	15	15
									E09	9	1	8.7	14.2	16.5	15	20
									E18	18	2	17.3	25	27.3	25	30
									E24	24	2	23.1	32.2	34.5	35	35
									E36	34	2	32.7	44.3	46.5	45	50
090 (7.5)	208	11.9	88	18.5	3.5	9.6	5.5	0.0	None	-	-	-	43.4	48.9	50	60
									E09	6.8	1	18.9	43.4	48.9	50	60
									E18	13.5	2	37.5	58.8	65.7	60	70
									E24	18	2	50.0	74.5	81.3	80	90
									E36	25.5	2	70.8	100.5	107.4	110	110
	230	11.9	88	18.5	3.5	9.6	5.5	0.0	None	-	-	-	43.4	48.9	50	60
									E09	9	1	21.7	43.4	48.9	50	60
									E18	18	2	43.3	66.1	73	70	80
									E24	24	2	57.7	84.2	91	90	100
									E36	34	2	81.8	114.2	121.1	125	125
	460	5.2	44	8.1	1.6	4.8	2.2	0.0	None	-	-	-	19.7	21.9	20	25
									E09	9	1	10.8	19.7	22.3	20	25
									E18	18	2	21.7	33.1	35.8	35	40
									E24	24	2	28.9	42.1	44.8	45	45
									E36	34	2	40.9	57.1	59.9	60	60
	575	4.8	36	7.5	1.3	3.9	1.8	0.0	None	-	-	-	17.3	19.1	20	20
									E09	9	1	8.7	17.3	19.1	20	20
									E18	18	2	17.3	26.5	28.8	30	30
									E24	24	2	23.1	33.7	36	35	40
									E36	34	2	32.7	45.8	48	50	50
102 (8.5)	208	12.2	88	19	3.5	9.6	5.5	0.0	None	-	-	-	44.1	49.6	50	60
									E09	6.8	1	18.9	44.1	49.6	50	60
									E18	13.5	2	37.5	58.8	65.7	60	70
									E24	18	2	50.0	74.5	81.3	80	90
									E36	25.5	2	70.8	100.5	107.4	110	110
	230	12.2	88	19	3.5	9.6	5.5	0.0	None	-	-	-	44.1	49.6	50	60
									E09	9	1	21.7	44.1	49.6	50	60
									E18	18	2	43.3	66.1	73	70	80
									E24	24	2	57.7	84.2	91	90	100
									E36	34	2	81.8	114.2	121.1	125	125
	460	5.8	44	9	1.6	4.8	2.2	0.0	None	-	-	-	21.1	23.3	25	25
									E09	9	1	10.8	21.1	23.3	25	25
									E18	18	2	21.7	33.1	35.8	35	40
									E24	24	2	28.9	42.1	44.8	45	45
									E36	34	2	40.9	57.1	59.9	60	60
	575	4.4	36	5.5	1.3	3.9	1.8	0.0	None	-	-	-	16.4	18.2	20	20
									E09	9	1	8.7	16.4	18.2	20	20
									E18	18	2	17.3	26.5	28.8	30	30
									E24	24	2	23.1	33.7	36	35	40
									E36	34	2	32.7	45.8	48	50	50

ZJ078-150 Hi Static Motor - Without Powered Convenience Outlet (Continued)

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC					Model	kW	Stages	Amps				
120 (10)	208	16	110	24.9	3.5	9.6	5.5	0.0	None	-	-	-	52.6	58.1	60	70
									E18	13.5	2	37.5	58.8	65.7	60	70
									E24	18	2	50.0	74.5	81.3	80	90
									E36	25.5	2	70.8	100.5	107.4	110	110
									E54	40.6	2	112.7	152.9	159.7	175	175
	230	16	110	24.9	3.5	9.6	5.5	0.0	None	-	-	-	52.6	58.1	60	70
									E18	18	2	43.3	66.1	73	70	80
									E24	24	2	57.7	84.2	91	90	100
									E36	34	2	81.8	114.2	121.1	125	125
									E54	54	2	129.9	141.9	148.8	175	175
	460	7.8	52	12.1	1.6	4.8	2.2	0.0	None	-	-	-	25.6	27.8	30	35
									E18	18	2	21.7	33.1	35.8	35	40
									E24	24	2	28.9	42.1	44.8	45	45
									E36	34	2	40.9	57.1	59.9	60	60
									E54	54	2	65.0	71	73.7	80	80
	575	5.7	38.9	8.9	1.3	3.9	1.8	0.0	None	-	-	-	19.3	21.1	25	25
									E18	18	2	17.3	26.5	28.8	30	30
									E24	24	2	23.1	33.7	36	35	40
									E36	34	2	32.7	45.8	48	50	50
									E54	54	2	52.0	56.8	59.1	70	70
150 (12.5)	208	23.1	160	36	1.5	15.2	5.5	0.0	None	-	-	-	73.2	78.7	90	100
									E18	13.5	2	37.5	73.2	78.7	90	100
									E24	18	2	50.0	81.5	88.3	90	100
									E36	25.5	2	70.8	107.5	114.4	110	125
									E54	40.6	2	112.7	159.9	166.7	175	175
	230	23.1	160	36	1.5	15.2	5.5	0.0	None	-	-	-	73.2	78.7	90	100
									E18	18	2	43.3	73.2	80	90	100
									E24	24	2	57.7	91.2	98	100	100
									E36	34	2	81.8	121.2	128.1	125	150
									E54	54	2	129.9	148.9	155.8	175	175
	460	12.2	87	19	0.8	7.6	2.2	0.0	None	-	-	-	38.3	40.5	50	50
									E18	18	2	21.7	38.3	40.5	50	50
									E24	24	2	28.9	45.6	48.3	50	50
									E36	34	2	40.9	60.6	63.4	70	70
									E54	54	2	65.0	74.5	77.2	90	90
	575	8.7	62	13.5	0.6	6.1	1.8	0.0	None	-	-	-	28.1	29.9	35	35
									E18	18	2	17.3	29.3	31.5	35	35
									E24	24	2	23.1	36.5	38.7	40	40
									E36	34	2	32.7	48.5	50.8	50	60
									E54	54	2	52.0	59.6	61.8	70	70

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

ZJ037-061 Standard Indoor Blower - With Powered Convenience Outlet

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC					FLA	FLA	FLA	FLA				
037 (3)	208	8.7	68	13.5	1.5	6.0	5.5	10.0	None	-	-	-	28.7	34.2	35	40
									E03	2.3	1	6.4	28.7	34.9	35	40
									E06	4.5	1	12.5	35.6	42.5	40	45
									E08	6.8	1	18.9	43.6	50.5	45	60
									E15	11.3	2	31.4	59.2	66.1	60	70
	230	8.7	68	13.5	1.5	6.0	5.5	10.0	None	-	-	-	28.7	34.2	35	40
									E03	3	1	7.2	29	35.9	35	40
									E06	6	1	14.4	38	44.9	40	45
									E08	9	1	21.7	47.1	53.9	50	60
									E15	15	2	36.1	65.1	72	70	80
	460	4.6	34	7.1	0.8	3.0	2.2	5.0	None	-	-	-	14.7	16.9	15	20
									E03	3	1	3.6	14.7	17.3	15	20
									E06	6	1	7.2	19	21.8	20	25
									E08	9	1	10.8	23.5	26.3	25	30
									E15	15	2	18.0	32.6	35.3	35	40
	575	3.5	28	5.5	0.6	2.4	1.8	4.0	None	-	-	-	11.5	13.3	15	15
E08									9	1	8.7	18.8	21.1	20	25	
E15									15	2	14.4	26	28.3	30	30	
049 (4)	208	11.2	88	17.5	1.5	6.0	5.5	10.0	None	-	-	-	31.5	37	40	45
									E06	4.5	1	12.5	35.6	42.5	40	45
									E08	6.8	1	18.9	43.6	50.5	45	60
									E15	11.3	2	31.4	59.2	66.1	60	70
									E20	15.0	2	41.6	72	78.9	80	80
	230	11.2	88	17.5	1.5	6.0	5.5	10.0	None	-	-	-	31.5	37	40	45
									E06	6.0	1	14.4	38	44.9	40	45
									E08	9.0	1	21.7	47.1	53.9	50	60
									E15	15.0	2	36.1	65.1	72	70	80
									E20	20.0	2	48.1	80.1	87	90	90
	460	5.6	44	8.0	0.8	3.0	2.2	5.0	None	-	-	-	15.8	18	20	20
									E06	6.0	1	7.2	19	21.8	20	25
									E08	9.0	1	10.8	23.5	26.3	25	30
									E15	15.0	2	18.0	32.6	35.3	35	40
									E20	20.0	2	24.1	40.1	42.8	45	45
	575	4.5	36	7.0	0.6	2.4	1.8	4.0	None	-	-	-	12.6	14.4	15	15
E08									9.0	1	8.7	18.8	21.1	20	25	
E15									15.0	2	14.4	26	28.3	30	30	
E20									20.0	2	19.2	32.1	34.3	35	35	
061 (5)	208	14.1	88	22	1.5	6.0	5.5	10.0	None	-	-	-	36.6	42.1	50	50
									E06	4.5	1	12.5	36.6	42.5	50	50
									E08	6.8	1	18.9	43.6	50.5	50	60
									E15	11.3	2	31.4	59.2	66.1	60	70
									E20	15	2	41.6	72	78.9	80	80
	230	14.1	88	22	1.5	6.0	5.5	10.0	E23	18	2	50.0	82.5	89.3	90	90
									None	-	-	-	36.6	42.1	50	50
									E06	6	1	14.4	38	44.9	50	50
									E08	9	1	21.7	47.1	53.9	50	60
									E15	15	2	36.1	65.1	72	70	80
	460	7.7	55	12	0.8	3.0	2.2	5.0	E20	20	2	48.1	80.1	87	90	90
									E23	24	2	57.7	92.2	99	100	100
									None	-	-	-	19.2	21.4	25	25
									E06	6	1	7.2	19.2	21.8	25	25
									E08	9	1	10.8	23.5	26.3	25	30
	575	5.1	36	7.5	0.6	2.4	1.8	4.0	E15	15	2	18.0	32.6	35.3	35	40
E20									20	2	24.1	40.1	42.8	45	45	
E23									24	2	28.9	46.1	48.8	50	50	
None									-	-	-	14	15.8	15	20	
E08									9	1	8.7	18.8	21.1	20	25	

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

ZJ078-150 Standard Motor - With Powered Convenience Outlet

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC												
078 (6.5)	208	9.3	68	14.5	1.5	6.0	5.5	10.0	None	-	-	-	40.1	45.6	50	50
									E09	6.8	1	18.9	43.6	50.5	50	60
									E18	13.5	2	37.5	66.8	73.7	70	80
									E24	18	2	50.0	82.5	89.3	90	90
									E36	25.5	2	70.8	108.5	115.4	110	125
	230	9.3	68	14.5	1.5	6.0	5.5	10.0	None	-	-	-	40.1	45.6	50	50
									E09	9	1	21.7	47.1	53.9	50	60
									E18	18	2	43.3	74.1	81	80	90
									E24	24	2	57.7	92.2	99	100	100
									E36	34	2	81.8	122.2	129.1	125	150
	460	4.9	34	7.6	0.8	3.0	2.2	5.0	None	-	-	-	20.7	22.9	25	25
									E09	9	1	10.8	23.5	26.3	25	30
									E18	18	2	21.7	37.1	39.8	40	40
									E24	24	2	28.9	46.1	48.8	50	50
									E36	34	2	40.9	61.1	63.9	70	70
	575	3.8	28	6	0.6	2.4	1.8	4.0	None	-	-	-	16.2	18	20	20
									E09	9	1	8.7	18.8	21.1	20	25
									E18	18	2	17.3	29.7	31.9	30	35
									E24	24	2	23.1	36.9	39.1	40	40
									E36	34	2	32.7	48.9	51.1	50	60
090 (7.5)	208	11.9	88	18.5	3.5	6.0	5.5	10.0	None	-	-	-	49.8	55.3	60	60
									E09	6.8	1	18.9	49.8	55.3	60	60
									E18	13.5	2	37.5	66.8	73.7	70	80
									E24	18	2	50.0	82.5	89.3	90	90
									E36	25.5	2	70.8	108.5	115.4	110	125
	230	11.9	88	18.5	3.5	6.0	5.5	10.0	None	-	-	-	49.8	55.3	60	60
									E09	9	1	21.7	49.8	55.3	60	60
									E18	18	2	43.3	74.1	81	80	90
									E24	24	2	57.7	92.2	99	100	100
									E36	34	2	81.8	122.2	129.1	125	150
	460	5.2	44	8.1	1.6	3.0	2.2	5.0	None	-	-	-	22.9	25.1	25	30
									E09	9	1	10.8	23.5	26.3	25	30
									E18	18	2	21.7	37.1	39.8	40	40
									E24	24	2	28.9	46.1	48.8	50	50
									E36	34	2	40.9	61.1	63.9	70	70
	575	4.8	36	7.5	1.3	2.4	1.8	4.0	None	-	-	-	19.8	21.6	20	25
									E09	9	1	8.7	19.8	21.6	20	25
									E18	18	2	17.3	29.7	31.9	30	35
									E24	24	2	23.1	36.9	39.1	40	40
									E36	34	2	32.7	48.9	51.1	50	60
102 (8.5)	208	12.2	88	19	3.5	6.8	5.5	10.0	None	-	-	-	51.3	56.8	60	60
									E09	6.8	1	18.9	51.3	56.8	60	60
									E18	13.5	2	37.5	67.8	74.7	70	80
									E24	18	2	50.0	83.5	90.3	90	100
									E36	25.5	2	70.8	109.5	116.4	110	125
	230	12.2	88	19	3.5	6.8	5.5	10.0	None	-	-	-	51.3	56.8	60	60
									E09	9	1	21.7	51.3	56.8	60	60
									E18	18	2	43.3	75.1	82	80	90
									E24	24	2	57.7	93.2	100	100	100
									E36	34	2	81.8	123.2	130.1	125	150
	460	5.8	44	9	1.6	3.4	2.2	5.0	None	-	-	-	24.7	26.9	30	30
									E09	9	1	10.8	24.7	26.9	30	30
									E18	18	2	21.7	37.6	40.3	40	45
									E24	24	2	28.9	46.6	49.3	50	50
									E36	34	2	40.9	61.6	64.4	70	70
	575	4.4	36	5.5	1.3	2.7	1.8	4.0	None	-	-	-	19.2	21	20	25
									E09	9	1	8.7	19.2	21.5	20	25
									E18	18	2	17.3	30	32.3	30	35
									E24	24	2	23.1	37.2	39.5	40	40
									E36	34	2	32.7	49.3	51.5	50	60

ZJ078-150 Standard Motor - With Powered Convenience Outlet (Continued)

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC					Model	kW	Stages	Amps				
120 (10)	208	16	110	24.9	3.5	6.8	5.5	10.0	None	-	-	-	59.8	65.3	70	80
									E18	13.5	2	37.5	67.8	74.7	70	80
									E24	18	2	50.0	83.5	90.3	90	100
									E36	25.5	2	70.8	109.5	116.4	110	125
									E54	40.6	2	112.7	161.9	168.7	175	175
	230	16	110	24.9	3.5	6.8	5.5	10.0	None	-	-	-	59.8	65.3	70	80
									E18	18	2	43.3	75.1	82	80	90
									E24	24	2	57.7	93.2	100	100	100
									E36	34	2	81.8	123.2	130.1	125	150
									E54	54	2	129.9	150.9	157.8	175	175
	460	7.8	52	12.1	1.6	3.4	2.2	5.0	None	-	-	-	29.2	31.4	35	35
									E18	18	2	21.7	37.6	40.3	40	45
									E24	24	2	28.9	46.6	49.3	50	50
									E36	34	2	40.9	61.6	64.4	70	70
									E54	54	2	65.0	75.5	78.2	80	90
	575	5.7	38.9	8.9	1.3	2.7	1.8	4.0	None	-	-	-	22.1	23.9	25	25
									E18	18	2	17.3	30	32.3	30	35
									E24	24	2	23.1	37.2	39.5	40	40
									E36	34	2	32.7	49.3	51.5	50	60
									E54	54	2	52.0	60.3	62.6	70	70
150 (12.5)	208	23.1	160	36	1.5	9.6	5.5	10.0	None	-	-	-	77.6	83.1	100	100
									E18	13.5	2	37.5	77.6	83.1	100	100
									E24	18	2	50.0	87	93.8	100	100
									E36	25.5	2	70.8	113	119.9	125	125
									E54	40.6	2	112.7	165.4	172.2	175	175
	230	23.1	160	36	1.5	9.6	5.5	10.0	None	-	-	-	77.6	83.1	100	100
									E18	18	2	43.3	78.6	85.5	100	100
									E24	24	2	57.7	96.7	103.5	100	110
									E36	34	2	81.8	126.7	133.6	150	150
									E54	54	2	129.9	154.4	161.3	175	175
	460	12.2	87	19	0.8	4.8	2.2	5.0	None	-	-	-	40.5	42.7	50	50
									E18	18	2	21.7	40.5	42.7	50	50
									E24	24	2	28.9	48.3	51.1	50	60
									E36	34	2	40.9	63.4	66.1	70	70
									E54	54	2	65.0	77.2	80	90	90
	575	8.7	62	13.5	0.6	3.9	1.8	4.0	None	-	-	-	29.9	31.7	35	40
									E18	18	2	17.3	31.5	33.8	35	40
									E24	24	2	23.1	38.7	41	40	45
									E36	34	2	32.7	50.8	53	60	60
									E54	54	2	52.0	61.8	64.1	70	70

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

ZJ037-061 Hi Static Blower - With Powered Convenience Outlet

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC					Model	kW	Stages	Amps				
037 (3)	208	8.7	68	13.5	1.5	6.0	5.5	10.0	None	-	-	-	28.7	34.2	35	40
									E03	2.3	1	6.4	28.7	34.9	35	40
									E06	4.5	1	12.5	35.6	42.5	40	45
									E08	6.8	1	18.9	43.6	50.5	45	60
									E15	11.3	2	31.4	59.2	66.1	60	70
	230	8.7	68	13.5	1.5	6.0	5.5	10.0	None	-	-	-	28.7	34.2	35	40
									E03	3	1	7.2	29	35.9	35	40
									E06	6	1	14.4	38	44.9	40	45
									E08	9	1	21.7	47.1	53.9	50	60
									E15	15	2	36.1	65.1	72	70	80
	460	4.6	34	7.1	0.8	3.0	2.2	5.0	None	-	-	-	14.7	16.9	15	20
									E03	3	1	3.6	14.7	17.3	15	20
									E06	6	1	7.2	19	21.8	20	25
									E08	9	1	10.8	23.5	26.3	25	30
									E15	15	2	18.0	32.6	35.3	35	40
	575	3.5	28	5.5	0.6	2.4	1.8	4.0	None	-	-	-	11.5	13.3	15	15
									E08	9	1	8.7	18.8	21.1	20	25
									E15	15	2	14.4	26	28.3	30	30
									None	-	-	-	31.5	37	40	45
									E06	4.5	1	12.5	35.6	42.5	40	45
049 (4)	208	11.2	88	17.5	1.5	6.0	5.5	10.0	E08	6.8	1	18.9	43.6	50.5	45	60
									E15	11.3	2	31.4	59.2	66.1	60	70
									E20	15.0	2	41.6	72	78.9	80	80
									None	-	-	-	31.5	37	40	45
									E06	6.0	1	14.4	38	44.9	40	45
	230	11.2	88	17.5	1.5	6.0	5.5	10.0	E08	9.0	1	21.7	47.1	53.9	50	60
									E15	15.0	2	36.1	65.1	72	70	80
									E20	20.0	2	48.1	80.1	87	90	90
									None	-	-	-	15.8	18	20	20
									E06	6.0	1	7.2	19	21.8	20	25
	460	5.6	44	8.0	0.8	3.0	2.2	5.0	E08	9.0	1	10.8	23.5	26.3	25	30
									E15	15.0	2	18.0	32.6	35.3	35	40
									E20	20.0	2	24.1	40.1	42.8	45	45
									None	-	-	-	12.6	14.4	15	15
									E08	9.0	1	8.7	18.8	21.1	20	25
	575	4.5	36	7.0	0.6	2.4	1.8	4.0	E15	15.0	2	14.4	26	28.3	30	30
									E20	20.0	2	19.2	32.1	34.3	35	35
061 (5)	208	14.1	88	22	1.5	6.8	5.5	10.0	None	-	-	-	37.4	42.9	50	50
									E06	4.5	1	12.5	37.4	43.5	50	50
									E08	6.8	1	18.9	44.6	51.5	50	60
									E15	11.3	2	31.4	60.2	67.1	70	70
									E20	15	2	41.6	73	79.9	80	80
	230	14.1	88	22	1.5	6.8	5.5	10.0	E23	18	2	50.0	83.5	90.3	90	100
									None	-	-	-	37.4	42.9	50	50
									E06	6	1	14.4	39	45.9	50	50
									E08	9	1	21.7	48.1	54.9	50	60
									E15	15	2	36.1	66.1	73	70	80
	460	7.7	55	12	0.8	3.4	2.2	5.0	E20	20	2	48.1	81.1	88	90	90
									E23	24	2	57.7	93.2	100	100	100
									None	-	-	-	19.6	21.8	25	25
									E06	6	1	7.2	19.6	22.3	25	25
									E08	9	1	10.8	24	26.8	25	30
	575	5.1	36	7.5	0.6	2.7	1.8	4.0	E15	15	2	18.0	33.1	35.8	35	40
									E20	20	2	24.1	40.6	43.3	45	45
									E23	24	2	28.9	46.6	49.3	50	50
									None	-	-	-	14.3	16.1	15	20
									E08	9	1	8.7	19.2	21.5	20	25
061 (5)	575	5.1	36	7.5	0.6	2.7	1.8	4.0	E15	15	2	14.4	26.4	28.7	30	30
									E20	20	2	19.2	32.4	34.7	35	35
									E23	24	2	23.1	37.2	39.5	40	40

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

ZJ078-150 Hi Static Motor - With Powered Convenience Outlet

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC	FLA	FLA	FLA	FLA	Model	kW	Stages	Amps				
078 (6.5)	208	9.3	68	14.5	1.5	6.8	5.5	10.0	None	-	-	-	40.9	46.4	50	50
									E09	6.8	1	18.9	44.6	51.5	50	60
									E18	13.5	2	37.5	67.8	74.7	70	80
									E24	18	2	50.0	83.5	90.3	90	100
									E36	25.5	2	70.8	109.5	116.4	110	125
	230	9.3	68	14.5	1.5	6.8	5.5	10.0	None	-	-	-	40.9	46.4	50	50
									E09	9	1	21.7	48.1	54.9	50	60
									E18	18	2	43.3	75.1	82	80	90
									E24	24	2	57.7	93.2	100	100	100
									E36	34	2	81.8	123.2	130.1	125	150
	460	4.9	34	7.6	0.8	3.4	2.2	5.0	None	-	-	-	21.1	23.3	25	25
									E09	9	1	10.8	24	26.8	25	30
									E18	18	2	21.7	37.6	40.3	40	45
									E24	24	2	28.9	46.6	49.3	50	50
									E36	34	2	40.9	61.6	64.4	70	70
	575	3.8	28	6	0.6	2.7	1.8	4.0	None	-	-	-	16.5	18.3	20	20
									E09	9	1	8.7	19.2	21.5	20	25
									E18	18	2	17.3	30	32.3	30	35
									E24	24	2	23.1	37.2	39.5	40	40
									E36	34	2	32.7	49.3	51.5	50	60
090 (7.5)	208	11.9	88	18.5	3.5	9.6	5.5	10.0	None	-	-	-	53.4	58.9	60	70
									E09	6.8	1	18.9	53.4	58.9	60	70
									E18	13.5	2	37.5	71.3	78.2	80	80
									E24	18	2	50.0	87	93.8	90	100
									E36	25.5	2	70.8	113	119.9	125	125
	230	11.9	88	18.5	3.5	9.6	5.5	10.0	None	-	-	-	53.4	58.9	60	70
									E09	9	1	21.7	53.4	58.9	60	70
									E18	18	2	43.3	78.6	85.5	80	90
									E24	24	2	57.7	96.7	103.5	100	110
									E36	34	2	81.8	126.7	133.6	150	150
	460	5.2	44	8.1	1.6	4.8	2.2	5.0	None	-	-	-	24.7	26.9	25	30
									E09	9	1	10.8	25.8	28.5	30	30
									E18	18	2	21.7	39.3	42.1	40	45
									E24	24	2	28.9	48.3	51.1	50	60
									E36	34	2	40.9	63.4	66.1	70	70
	575	4.8	36	7.5	1.3	3.9	1.8	4.0	None	-	-	-	21.3	23.1	25	25
									E09	9	1	8.7	21.3	23.1	25	25
									E18	18	2	17.3	31.5	33.8	35	35
									E24	24	2	23.1	38.7	41	40	45
									E36	34	2	32.7	50.8	53	60	60
102 (8.5)	208	12.2	88	19	3.5	9.6	5.5	10.0	None	-	-	-	54.1	59.6	60	70
									E09	6.8	1	18.9	54.1	59.6	60	70
									E18	13.5	2	37.5	71.3	78.2	80	80
									E24	18	2	50.0	87	93.8	90	100
									E36	25.5	2	70.8	113	119.9	125	125
	230	12.2	88	19	3.5	9.6	5.5	10.0	None	-	-	-	54.1	59.6	60	70
									E09	9	1	21.7	54.1	59.6	60	70
									E18	18	2	43.3	78.6	85.5	80	90
									E24	24	2	57.7	96.7	103.5	100	110
									E36	34	2	81.8	126.7	133.6	150	150
	460	5.8	44	9	1.6	4.8	2.2	5.0	None	-	-	-	26.1	28.3	30	30
									E09	9	1	10.8	26.1	28.5	30	30
									E18	18	2	21.7	39.3	42.1	40	45
									E24	24	2	28.9	48.3	51.1	50	60
									E36	34	2	40.9	63.4	66.1	70	70
	575	4.4	36	5.5	1.3	3.9	1.8	4.0	None	-	-	-	20.4	22.2	25	25
									E09	9	1	8.7	20.7	23	25	25
									E18	18	2	17.3	31.5	33.8	35	35
									E24	24	2	23.1	38.7	41	40	45
									E36	34	2	32.7	50.8	53	60	60

ZJ078-150 Hi Static Motor - With Powered Convenience Outlet (Continued)

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC					Model	kW	Stages	Amps				
120 (10)	208	16	110	24.9	3.5	9.6	5.5	10.0	None	-	-	-	62.6	68.1	70	80
									E18	13.5	2	37.5	71.3	78.2	80	80
									E24	18	2	50.0	87	93.8	90	100
									E36	25.5	2	70.8	113	119.9	125	125
									E54	40.6	2	112.7	165.4	172.2	175	175
	230	16	110	24.9	3.5	9.6	5.5	10.0	None	-	-	-	62.6	68.1	70	80
									E18	18	2	43.3	78.6	85.5	80	90
									E24	24	2	57.7	96.7	103.5	100	110
									E36	34	2	81.8	126.7	133.6	150	150
									E54	54	2	129.9	154.4	161.3	175	175
	460	7.8	52	12.1	1.6	4.8	2.2	5.0	None	-	-	-	30.6	32.8	35	40
									E18	18	2	21.7	39.3	42.1	40	45
									E24	24	2	28.9	48.3	51.1	50	60
									E36	34	2	40.9	63.4	66.1	70	70
									E54	54	2	65.0	77.2	80	90	90
	575	5.7	38.9	8.9	1.3	3.9	1.8	4.0	None	-	-	-	23.3	25.1	25	30
									E18	18	2	17.3	31.5	33.8	35	35
									E24	24	2	23.1	38.7	41	40	45
									E36	34	2	32.7	50.8	53	60	60
									E54	54	2	52.0	61.8	64.1	70	70
150 (12.5)	208	23.1	160	36	1.5	15.2	5.5	10.0	None	-	-	-	83.2	88.7	100	110
									E18	13.5	2	37.5	83.2	88.7	100	110
									E24	18	2	50.0	94	100.8	100	110
									E36	25.5	2	70.8	120	126.9	125	150
									E54	40.6	2	112.7	172.4	179.2	175	200
	230	23.1	160	36	1.5	15.2	5.5	10.0	None	-	-	-	83.2	88.7	100	110
									E18	18	2	43.3	85.6	92.5	100	110
									E24	24	2	57.7	103.7	110.5	110	125
									E36	34	2	81.8	133.7	140.6	150	150
									E54	54	2	129.9	161.4	168.3	175	175
	460	12.2	87	19	0.8	7.6	2.2	5.0	None	-	-	-	43.3	45.5	50	50
									E18	18	2	21.7	43.3	45.6	50	50
									E24	24	2	28.9	51.8	54.6	60	60
									E36	34	2	40.9	66.9	69.6	70	70
									E54	54	2	65.0	80.7	83.5	90	90
	575	8.7	62	13.5	0.6	6.1	1.8	4.0	None	-	-	-	32.1	33.9	40	40
									E18	18	2	17.3	34.3	36.5	40	40
									E24	24	2	23.1	41.5	43.7	45	45
									E36	34	2	32.7	53.5	55.8	60	60
									E54	54	2	52.0	64.6	66.8	70	70

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

ZR037-061 Standard Indoor Blower - Without Powered Convenience Outlet

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC					Model	kW	Stages	Amps				
037 (3)	208	8.7	68	13.5	1.5	6.0	5.5	0.0	None	-	-	-	18.4	23.9	25	30
									E03	2.3	1	6.4	18.4	23.9	25	30
									E06	4.5	1	12.5	23.1	30.0	25	30
									E08	6.8	1	18.9	31.1	38.0	35	40
									E15	11.3	2	31.4	46.7	53.6	50	60
	230	8.7	68	13.5	1.5	6.0	5.5	0.0	None	-	-	-	18.4	23.9	25	30
									E03	3	1	7.2	18.4	23.9	25	30
									E06	6	1	14.4	25.5	32.4	30	35
									E08	9	1	21.7	34.6	41.4	35	45
									E15	15	2	36.1	52.6	59.5	60	60
	460	4.6	34	7.1	0.8	3.0	2.2	0.0	None	-	-	-	9.6	11.8	15	15
									E03	3	1	3.6	9.6	11.8	15	15
									E06	6	1	7.2	12.8	15.5	15	20
									E08	9	1	10.8	17.3	20.0	20	20
									E15	15	2	18.0	26.3	29.1	30	30
	575	3.5	28	5.5	0.6	2.4	1.8	0.0	None	-	-	-	7.4	9.2	15	15
									E08	9	1	8.7	13.8	16.1	15	20
									E15	15	2	14.4	21.0	23.3	25	25
049 (4)	208	11.9	88	18.5	1.5	6.0	5.5	0.0	None	-	-	-	23.9	29.4	30	40
									E06	4.5	1	12.5	23.9	30.0	30	40
									E08	6.8	1	18.9	31.1	38.0	35	40
									E15	11.3	2	31.4	46.7	53.6	50	60
									E20	15	2	41.6	59.5	66.4	60	70
	230	11.9	88	18.5	1.5	6.0	5.5	0.0	None	-	-	-	23.9	29.4	30	40
									E06	6	1	14.4	25.5	32.4	35	40
									E08	9	1	21.7	34.6	41.4	35	45
									E15	15	2	36.1	52.6	59.5	60	60
									E20	20	2	48.1	67.6	74.5	70	80
	460	5.2	44	8.1	0.8	3.0	2.2	0.0	None	-	-	-	11.1	13.3	15	15
									E06	6	1	7.2	12.8	15.5	15	20
									E08	9	1	10.8	17.3	20.0	20	20
									E15	15	2	18.0	26.3	29.1	30	30
									E20	20	2	24.1	33.8	36.6	35	40
	575	4.8	36	7.5	0.6	2.4	1.8	0.0	None	-	-	-	9.6	11.4	15	15
									E08	9	1	8.7	13.8	16.1	15	20
									E15	15	2	14.4	21.0	23.3	25	25
									E20	20	2	19.2	27.1	29.3	30	30
061 (4)	208	14.1	88	22.0	1.5	4.3	5.5	0.0	None	-	-	-	26.6	32.1	35	45
									E06	4.5	1	12.5	26.6	32.1	35	45
									E08	6.8	1	18.9	31.1	38.0	40	45
									E15	11.3	2	31.4	46.7	53.6	50	60
									E20	15	2	41.6	59.5	66.4	60	70
									E23	18	2	50.0	70.0	76.8	70	80
	230	14.1	88	22.0	1.5	4.3	5.5	0.0	None	-	-	-	26.6	32.1	35	45
									E06	6	1	14.4	26.6	32.4	35	45
									E08	9	1	21.7	34.6	41.4	40	45
									E15	15	2	36.1	52.6	59.5	60	60
									E20	20	2	48.1	67.6	74.5	70	80
									E23	24	2	57.7	79.7	86.5	80	90
	460	7.7	55	12.0	0.8	2.1	2.2	0.0	None	-	-	-	14.2	16.4	20	20
									E06	6	1	7.2	14.2	16.4	20	20
									E08	9	1	10.8	17.3	20.0	20	20
									E15	15	2	18.0	26.3	29.1	30	30
									E20	20	2	24.1	33.8	36.6	35	40
									E23	24	2	28.9	39.8	42.6	40	45
	575	5.1	36	7.5	0.6	2.0	1.8	0.0	None	-	-	-	10.0	11.8	15	15
									E08	9	1	8.7	13.8	16.1	15	20
									E15	15	2	14.4	21.0	23.3	25	25
									E20	20	2	19.2	27.1	29.3	30	30
									E23	24	2	23.1	31.9	34.1	35	35

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

ZR078-150 Standard Motor - Without Powered Convenience Outlet

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC					Model	kW	Stages	Amps				
078 (6.5)	208	13.5	88.0	21.1	1.5	6.2	5.5	0.0	None	-	-	-	39.6	45.1	50	50
									E09	6.8	1	18.9	39.6	45.1	50	50
									E18	13.5	2	37.5	54.6	61.5	60	70
									E24	18.0	2	50.0	70.2	77.1	80	80
									E36	25.5	2	70.8	96.2	103.1	100	110
	230	13.5	88.0	21.1	1.5	6.2	5.5	0.0	None	-	-	-	39.6	45.1	50	50
									E09	9.0	1	21.7	39.6	45.1	50	50
									E18	18.0	2	43.3	61.9	68.8	70	70
									E24	24.0	2	57.7	79.9	86.8	80	90
									E36	34.0	2	81.8	110.0	116.9	110	125
	460	6.0	44.0	9.3	0.8	3.1	2.2	0.0	None	-	-	-	18.2	20.4	20	25
									E09	9.0	1	10.8	18.2	20.4	20	25
									E18	18.0	2	21.7	30.9	33.7	35	35
									E24	24.0	2	28.9	40.0	42.7	40	45
									E36	34.0	2	40.9	55.0	57.7	60	60
	575	4.9	34.0	7.7	0.6	2.4	1.8	0.0	None	-	-	-	14.6	16.4	15	20
									E09	9.0	1	8.7	14.6	16.4	15	20
									E18	18.0	2	17.3	24.7	26.9	25	30
									E24	24.0	2	23.1	31.9	34.1	35	35
									E36	34.0	2	32.7	43.9	46.1	45	50
090 (7.5)	208	13.1	83.1	20.5	1.5	6.2	5.5	0.0	None	-	-	-	38.7	44.2	50	50
									E09	6.8	1	18.9	38.7	44.2	50	50
									E18	13.5	2	37.5	54.6	61.5	60	70
									E24	18.0	2	50.0	70.2	77.1	80	80
									E36	25.5	2	70.8	96.2	103.1	100	110
	230	13.1	83.1	20.5	1.5	6.2	5.5	0.0	None	-	-	-	38.7	44.2	50	50
									E09	9.0	1	21.7	38.7	44.2	50	50
									E18	18.0	2	43.3	61.9	68.8	70	70
									E24	24.0	2	57.7	79.9	86.8	80	90
									E36	34.0	2	81.8	110.0	116.9	110	125
	460	6.1	41.0	9.5	0.8	3.1	2.2	0.0	None	-	-	-	18.4	20.6	20	25
									E09	9.0	1	10.8	18.4	20.6	20	25
									E18	18.0	2	21.7	30.9	33.7	35	35
									E24	24.0	2	28.9	40.0	42.7	40	45
									E36	34.0	2	40.9	55.0	57.7	60	60
	575	4.4	33.0	6.8	0.6	2.4	1.8	0.0	None	-	-	-	13.5	15.3	15	20
									E09	9.0	1	8.7	13.8	16.1	15	20
									E18	18.0	2	17.3	24.7	26.9	25	30
									E24	24.0	2	23.1	31.9	34.1	35	35
									E36	34.0	2	32.7	43.9	46.1	45	50
102 (8.5)	208	14.5	98.0	22.6	1.5	8.2	5.5	0.0	None	-	-	-	43.8	49.3	50	60
									E09	6.8	1	18.9	43.8	49.3	50	60
									E18	13.5	2	37.5	57.1	64.0	60	70
									E24	18.0	2	50.0	72.7	79.6	80	80
									E36	25.5	2	70.8	98.7	105.6	100	110
	230	14.5	98.0	22.6	1.5	8.2	5.5	0.0	None	-	-	-	43.8	49.3	50	60
									E09	9.0	1	21.7	43.8	49.3	50	60
									E18	18.0	2	43.3	64.4	71.3	70	80
									E24	24.0	2	57.7	82.4	89.3	90	90
									E36	34.0	2	81.8	112.5	119.4	125	125
	460	6.3	55.0	9.9	0.8	4.1	2.2	0.0	None	-	-	-	19.9	22.1	25	25
									E09	9.0	1	10.8	19.9	22.1	25	25
									E18	18.0	2	21.7	32.2	34.9	35	35
									E24	24.0	2	28.9	41.2	44.0	45	45
									E36	34.0	2	40.9	56.2	59.0	60	60
	575	6.0	41.0	9.4	0.6	3.6	1.8	0.0	None	-	-	-	18.3	20.1	20	25
									E09	9.0	1	8.7	18.3	20.1	20	25
									E18	18.0	2	17.3	26.2	28.4	30	30
									E24	24.0	2	23.1	33.4	35.6	35	40
									E36	34.0	2	32.7	45.4	47.6	50	50

ZR078-150 Standard Motor - Without Powered Convenience Outlet (Continued)

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC					Model	kW	Stages	Amps				
120 (10)	208	16.0	110.0	24.9	1.5	8.2	5.5	0.0	None	-	-	-	47.2	52.7	60	60
									E18	13.5	2	37.5	57.1	64.0	60	70
									E24	18.0	2	50.0	72.7	79.6	80	80
									E36	25.5	2	70.8	98.7	105.6	100	110
									E54	40.6	2	112.7	151.1	158.0	175	175
	230	16.0	110.0	24.9	1.5	8.2	5.5	0.0	None	-	-	-	47.2	52.7	60	60
									E18	18.0	2	43.3	64.4	71.3	70	80
									E24	24.0	2	57.7	82.4	89.3	90	90
									E36	34.0	2	81.8	112.5	119.4	125	125
									E54	54.0	2	129.9	140.2	147.0	150	175
	460	7.8	52.0	12.1	0.8	4.1	2.2	0.0	None	-	-	-	23.3	25.5	30	30
									E18	18.0	2	21.7	32.2	34.9	35	35
									E24	24.0	2	28.9	41.2	44.0	45	45
									E36	34.0	2	40.9	56.2	59.0	60	60
									E54	54.0	2	65.0	70.1	72.8	80	80
	575	5.7	38.9	8.9	0.6	3.6	1.8	0.0	None	-	-	-	17.6	19.4	20	25
									E18	18.0	2	17.3	26.2	28.4	30	30
									E24	24.0	2	23.1	33.4	35.6	35	40
									E36	34.0	2	32.7	45.4	47.6	50	50
									E54	54.0	2	52.0	56.5	58.7	70	70
150 (12.5)	208	22.4	149.0	35.0	1.5	10.9	5.5	0.0	None	-	-	-	67.3	72.8	80	90
									E18	13.5	2	37.5	67.3	72.8	80	90
									E24	18.0	2	50.0	76.1	83.0	80	90
									E36	25.5	2	70.8	102.1	109.0	110	110
									E54	40.6	2	112.7	154.5	161.4	175	175
	230	22.4	149.0	35.0	1.5	10.9	5.5	0.0	None	-	-	-	67.3	72.8	80	90
									E18	18.0	2	43.3	67.8	74.6	80	90
									E24	24.0	2	57.7	85.8	92.7	90	100
									E36	34.0	2	81.8	115.9	122.7	125	125
									E54	54.0	2	129.9	143.5	150.4	175	175
	460	10.6	75.0	16.5	0.8	5.3	2.2	0.0	None	-	-	-	32.4	34.6	40	45
									E18	18.0	2	21.7	33.7	36.4	40	45
									E24	24.0	2	28.9	42.7	45.5	45	50
									E36	34.0	2	40.9	57.7	60.5	60	70
									E54	54.0	2	65.0	71.6	74.3	80	80
	575	7.7	54.0	12.0	0.6	4.1	1.8	0.0	None	-	-	-	23.8	25.6	30	30
									E18	18.0	2	17.3	26.8	29.0	30	30
									E24	24.0	2	23.1	34.0	36.2	35	40
									E36	34.0	2	32.7	46.0	48.3	50	50
									E54	54.0	2	52.0	57.1	59.3	70	70

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

ZR037-061 Hi Static Indoor Blower - Without Powered Convenience Outlet

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC					Model	kW	Stages	Amps				
037 (3)	208	8.7	68	13.5	1.5	6.0	5.5	0.0	None	-	-	-	18.4	23.9	25	30
									E03	2.3	1	6.4	18.4	23.9	25	30
									E06	4.5	1	12.5	23.1	30.0	25	30
									E08	6.8	1	18.9	31.1	38.0	35	40
									E15	11.3	2	31.4	46.7	53.6	50	60
	230	8.7	68	13.5	1.5	6.0	5.5	0.0	None	-	-	-	18.4	23.9	25	30
									E03	3	1	7.2	18.4	23.9	25	30
									E06	6	1	14.4	25.5	32.4	30	35
									E08	9	1	21.7	34.6	41.4	35	45
									E15	15	2	36.1	52.6	59.5	60	60
	460	4.6	34	7.1	0.8	3.0	2.2	0.0	None	-	-	-	9.6	11.8	15	15
									E03	3	1	3.6	9.6	11.8	15	15
									E06	6	1	7.2	12.8	15.5	15	20
									E08	9	1	10.8	17.3	20.0	20	20
									E15	15	2	18.0	26.3	29.1	30	30
	575	3.5	28	5.5	0.6	2.4	1.8	0.0	None	-	-	-	7.4	9.2	15	15
									E08	9	1	8.7	13.8	16.1	15	20
									E15	15	2	14.4	21.0	23.3	25	25
049 (4)	208	11.9	88	18.5	1.5	6.0	5.5	0.0	None	-	-	-	23.9	29.4	30	40
									E06	4.5	1	12.5	23.9	30.0	30	40
									E08	6.8	1	18.9	31.1	38.0	35	40
									E15	11.3	2	31.4	46.7	53.6	50	60
									E20	15	2	41.6	59.5	66.4	60	70
	230	11.9	88	18.5	1.5	6.0	5.5	0.0	None	-	-	-	23.9	29.4	30	40
									E06	6	1	14.4	25.5	32.4	35	40
									E08	9	1	21.7	34.6	41.4	35	45
									E15	15	2	36.1	52.6	59.5	60	60
									E20	20	2	48.1	67.6	74.5	70	80
	460	5.2	44	8.1	0.8	3.0	2.2	0.0	None	-	-	-	11.1	13.3	15	15
									E06	6	1	7.2	12.8	15.5	15	20
									E08	9	1	10.8	17.3	20.0	20	20
									E15	15	2	18.0	26.3	29.1	30	30
									E20	20	2	24.1	33.8	36.6	35	40
	575	4.8	36	7.5	0.6	2.4	1.8	0.0	None	-	-	-	9.6	11.4	15	15
									E08	9	1	8.7	13.8	16.1	15	20
									E15	15	2	14.4	21.0	23.3	25	25
									E20	20	2	19.2	27.1	29.3	30	30
061 (5)	208	14.1	88	22.0	1.5	4.3	5.5	0.0	None	-	-	-	27.4	32.9	35	45
									E06	4.5	1	12.5	27.4	32.9	35	45
									E08	6.8	1	18.9	32.1	39.0	40	45
									E15	11.3	2	31.4	47.7	54.6	50	60
									E20	15	2	41.6	60.5	67.4	70	70
									E23	18	2	50.0	71.0	77.8	80	80
	230	14.1	88	22.0	1.5	4.3	5.5	0.0	None	-	-	-	27.4	32.9	35	45
									E06	6	1	14.4	27.4	33.4	35	45
									E08	9	1	21.7	35.6	42.4	40	45
									E15	15	2	36.1	53.6	60.5	60	70
									E20	20	2	48.1	68.6	75.5	70	80
									E23	24	2	57.7	80.7	87.5	90	90
	460	7.7	55	12.0	0.8	2.1	2.2	0.0	None	-	-	-	14.6	16.8	20	20
									E06	6	1	7.2	14.6	16.8	20	20
									E08	9	1	10.8	17.8	20.5	20	25
									E15	15	2	18.0	26.8	29.6	30	30
									E20	20	2	24.1	34.3	37.1	35	40
									E23	24	2	28.9	40.3	43.1	45	45
	575	5.1	36	7.5	0.6	2.0	1.8	0.0	None	-	-	-	10.3	12.1	15	15
									E08	9	1	8.7	14.2	16.5	15	20
									E15	15	2	14.4	21.4	23.7	25	25
									E20	20	2	19.2	27.4	29.7	30	30
									E23	24	2	23.1	32.2	34.5	35	35

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

ZR078-150 Hi Static Motor - Without Powered Convenience Outlet

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ^{2/} Breaker ³ Size (Amps)	Max Fuse ^{2/} Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC					Model	kW	Stages	Amps				
078 (6.5)	208	13.5	88.0	21.1	1.5	8.2	5.5	0.0	None	-	-	-	41.6	47.1	50	60
									E09	6.8	1	18.9	41.6	47.1	50	60
									E18	13.5	2	37.5	57.1	64.0	60	70
									E24	18.0	2	50.0	72.7	79.6	80	80
									E36	25.5	2	70.8	98.7	105.6	100	110
	230	13.5	88.0	21.1	1.5	8.2	5.5	0.0	None	-	-	-	41.6	47.1	50	60
									E09	9.0	1	21.7	41.6	47.1	50	60
									E18	18.0	2	43.3	64.4	71.3	70	80
									E24	24.0	2	57.7	82.4	89.3	90	90
									E36	34.0	2	81.8	112.5	119.4	125	125
	460	6.0	44.0	9.3	0.8	4.1	2.2	0.0	None	-	-	-	19.2	21.4	25	25
									E09	9.0	1	10.8	19.2	21.4	25	25
									E18	18.0	2	21.7	32.2	34.9	35	35
									E24	24.0	2	28.9	41.2	44.0	45	45
									E36	34.0	2	40.9	56.2	59.0	60	60
	575	4.9	34.0	7.7	0.6	3.6	1.8	0.0	None	-	-	-	15.8	17.6	20	20
									E09	9.0	1	8.7	15.8	17.6	20	20
									E18	18.0	2	17.3	26.2	28.4	30	30
									E24	24.0	2	23.1	33.4	35.6	35	40
									E36	34.0	2	32.7	45.4	47.6	50	50
090 (7.5)	208	13.1	83.1	20.5	1.5	10.9	5.5	0.0	None	-	-	-	43.4	48.9	50	60
									E09	6.8	1	18.9	43.4	48.9	50	60
									E18	13.5	2	37.5	60.5	67.3	70	70
									E24	18.0	2	50.0	76.1	83.0	80	90
									E36	25.5	2	70.8	102.1	109.0	110	110
	230	13.1	83.1	20.5	1.5	10.9	5.5	0.0	None	-	-	-	43.4	48.9	50	60
									E09	9.0	1	21.7	43.4	48.9	50	60
									E18	18.0	2	43.3	67.8	74.6	70	80
									E24	24.0	2	57.7	85.8	92.7	90	100
									E36	34.0	2	81.8	115.9	122.7	125	125
	460	6.1	41.0	9.5	0.8	5.3	2.2	0.0	None	-	-	-	20.6	22.8	25	25
									E09	9.0	1	10.8	20.6	22.9	25	25
									E18	18.0	2	21.7	33.7	36.4	35	40
									E24	24.0	2	28.9	42.7	45.5	45	50
									E36	34.0	2	40.9	57.7	60.5	60	70
	575	4.4	33.0	6.8	0.6	4.1	1.8	0.0	None	-	-	-	15.2	17.0	20	20
									E09	9.0	1	8.7	16.0	18.2	20	20
									E18	18.0	2	17.3	26.8	29.0	30	30
									E24	24.0	2	23.1	34.0	36.2	35	40
									E36	34.0	2	32.7	46.0	48.3	50	50
102 (8.5)	208	14.5	98.0	22.6	1.5	10.9	5.5	0.0	None	-	-	-	46.5	52.0	60	60
									E09	6.8	1	18.9	46.5	52.0	60	60
									E18	13.5	2	37.5	60.5	67.3	70	70
									E24	18.0	2	50.0	76.1	83.0	80	90
									E36	25.5	2	70.8	102.1	109.0	110	110
	230	14.5	98.0	22.6	1.5	10.9	5.5	0.0	None	-	-	-	46.5	52.0	60	60
									E09	9.0	1	21.7	46.5	52.0	60	60
									E18	18.0	2	43.3	67.8	74.6	70	80
									E24	24.0	2	57.7	85.8	92.7	90	100
									E36	34.0	2	81.8	115.9	122.7	125	125
	460	6.3	55.0	9.9	0.8	5.3	2.2	0.0	None	-	-	-	21.1	23.3	25	25
									E09	9.0	1	10.8	21.1	23.3	25	25
									E18	18.0	2	21.7	33.7	36.4	35	40
									E24	24.0	2	28.9	42.7	45.5	45	50
									E36	34.0	2	40.9	57.7	60.5	60	70
	575	6.0	41.0	9.4	0.6	4.1	1.8	0.0	None	-	-	-	18.8	20.6	20	25
									E09	9.0	1	8.7	18.8	20.6	20	25
									E18	18.0	2	17.3	26.8	29.0	30	30
									E24	24.0	2	23.1	34.0	36.2	35	40
									E36	34.0	2	32.7	46.0	48.3	50	50

ZR078-150 Hi Static Motor - Without Powered Convenience Outlet (Continued)

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC					Model	kW	Stages	Amps				
120 (10)	208	16.0	110.0	24.9	1.5	10.9	5.5	0.0	None	-	-	-	49.9	55.4	60	70
									E18	13.5	2	37.5	60.5	67.3	70	70
									E24	18.0	2	50.0	76.1	83.0	80	90
									E36	25.5	2	70.8	102.1	109.0	110	110
	230	16.0	110.0	24.9	1.5	10.9	5.5	0.0	E54	40.6	2	112.7	154.5	161.4	175	175
									None	-	-	-	49.9	55.4	60	70
									E18	18.0	2	43.3	67.8	74.6	70	80
									E24	24.0	2	57.7	85.8	92.7	90	100
	460	7.8	52.0	12.1	0.8	5.3	2.2	0.0	E36	34.0	2	81.8	115.9	122.7	125	125
									E54	54.0	2	129.9	143.5	150.4	175	175
									None	-	-	-	24.5	26.7	30	30
									E18	18.0	2	21.7	33.7	36.4	35	40
	575	5.7	38.9	8.9	0.6	4.1	1.8	0.0	E24	24.0	2	28.9	42.7	45.5	45	50
									E36	34.0	2	40.9	57.7	60.5	60	70
									E54	54.0	2	65.0	71.6	74.3	80	80
									None	-	-	-	18.1	19.9	20	25
150 (12.5)	208	22.4	149.0	35.0	1.5	16.1	5.5	0.0	E18	18.0	2	17.3	26.8	29.0	30	30
									E24	24.0	2	23.1	34.0	36.2	35	40
									E36	34.0	2	32.7	46.0	48.3	50	50
									E54	54.0	2	52.0	57.1	59.3	70	70
	230	22.4	149.0	35.0	1.5	16.1	5.5	0.0	None	-	-	-	72.5	78.0	90	100
									E18	13.5	2	37.5	72.5	78.0	90	100
									E24	18.0	2	50.0	82.6	89.5	90	100
									E36	25.5	2	70.8	108.6	115.5	110	125
	460	10.6	75.0	16.5	0.8	8.1	2.2	0.0	E54	40.6	2	112.7	161.0	167.9	175	175
									None	-	-	-	72.5	78.0	90	100
									E18	18.0	2	43.3	74.3	81.1	90	100
									E24	24.0	2	57.7	92.3	99.2	100	100
	575	7.7	54.0	12.0	0.6	6.0	1.8	0.0	E36	34.0	2	81.8	122.4	129.2	125	150
									E54	54.0	2	129.9	150.0	156.9	175	175
									None	-	-	-	35.2	37.4	45	45
									E18	18.0	2	21.7	37.2	39.9	45	45
	460	10.6	75.0	16.5	0.8	8.1	2.2	0.0	E24	24.0	2	28.9	46.2	49.0	50	50
									E36	34.0	2	40.9	61.2	64.0	70	70
									E54	54.0	2	65.0	75.1	77.8	90	90
									None	-	-	-	25.7	27.5	30	35
	575	7.7	54.0	12.0	0.6	6.0	1.8	0.0	E18	18.0	2	17.3	29.2	31.4	30	35
									E24	24.0	2	23.1	36.4	38.6	40	40
									E36	34.0	2	32.7	48.4	50.6	50	60
									E54	54.0	2	52.0	59.5	61.7	70	70

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

ZR037-061 Standard Indoor Blower - With Powered Convenience Outlet

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC					Model	kW	Stages	Amps				
037 (3)	208	8.7	68	13.5	1.5	6.0	5.5	10.0	None	-	-	-	28.7	34.2	35	40
									E03	2.3	1	6.4	28.7	34.9	35	40
									E06	4.5	1	12.5	35.6	42.5	40	45
									E08	6.8	1	18.9	43.6	50.5	45	60
									E15	11.3	2	31.4	59.2	66.1	60	70
	230	8.7	68	13.5	1.5	6.0	5.5	10.0	None	-	-	-	28.7	34.2	35	40
									E03	3	1	7.2	29.0	35.9	35	40
									E06	6	1	14.4	38.0	44.9	40	45
									E08	9	1	21.7	47.1	53.9	50	60
									E15	15	2	36.1	65.1	72.0	70	80
	460	4.6	34	7.1	0.8	3.0	2.2	5.0	None	-	-	-	14.7	16.9	15	20
									E03	3	1	3.6	14.7	17.3	15	20
									E06	6	1	7.2	19.0	21.8	20	25
									E08	9	1	10.8	23.5	26.3	25	30
									E15	15	2	18.0	32.6	35.3	35	40
	575	3.5	28	5.5	0.6	2.4	1.8	4.0	None	-	-	-	11.5	13.3	15	15
									E08	9	1	8.7	18.8	21.1	20	25
									E15	15	2	14.4	26.0	28.3	30	30
049 (4)	208	11.9	88	18.5	1.5	6.0	5.5	10.0	None	-	-	-	33.9	39.4	45	50
									E06	4.5	1	12.5	35.6	42.5	45	50
									E08	6.8	1	18.9	43.6	50.5	45	60
									E15	11.3	2	31.4	59.2	66.1	60	70
									E20	15	2	41.6	72.0	78.9	80	80
	230	11.9	88	18.5	1.5	6.0	5.5	10.0	None	-	-	-	33.9	39.4	45	50
									E06	6	1	14.4	38.0	44.9	45	50
									E08	9	1	21.7	47.1	53.9	50	60
									E15	15	2	36.1	65.1	72.0	70	80
									E20	20	2	48.1	80.1	87.0	90	90
	460	5.2	44	8.1	0.8	3.0	2.2	5.0	None	-	-	-	16.1	18.3	20	20
									E06	6	1	7.2	19.0	21.8	20	25
									E08	9	1	10.8	23.5	26.3	25	30
									E15	15	2	18.0	32.6	35.3	35	40
									E20	20	2	24.1	40.1	42.8	45	45
	575	4.8	36	7.5	0.6	2.4	1.8	4.0	None	-	-	-	13.6	15.4	15	20
									E08	9	1	8.7	18.8	21.1	20	25
									E15	15	2	14.4	26.0	28.3	30	30
									E20	20	2	19.2	32.1	34.3	35	35
061 (5)	208	14.1	88	22.0	1.5	4.3	5.5	10.0	None	-	-	-	36.6	42.1	50	50
									E06	4.5	1	12.5	36.6	42.5	50	50
									E08	6.8	1	18.9	43.6	50.5	50	60
									E15	11.3	2	31.4	59.2	66.1	60	70
									E20	15	2	41.6	72.0	78.9	80	80
									E23	18	2	50.0	82.5	89.3	90	90
	230	14.1	88	22.0	1.5	4.3	5.5	10.0	None	-	-	-	36.6	42.1	50	50
									E06	6	1	14.4	38.0	44.9	50	50
									E08	9	1	21.7	47.1	53.9	50	60
									E15	15	2	36.1	65.1	72.0	70	80
									E20	20	2	48.1	80.1	87.0	90	90
									E23	24	2	57.7	92.2	99.0	100	100
	460	7.7	55	12.0	0.8	2.1	2.2	5.0	None	-	-	-	19.2	21.4	25	25
									E06	6	1	7.2	19.2	21.8	25	25
									E08	9	1	10.8	23.5	26.3	25	30
									E15	15	2	18.0	32.6	35.3	35	40
									E20	20	2	24.1	40.1	42.8	45	45
									E23	24	2	28.9	46.1	48.8	50	50
	575	5.1	36	7.5	0.6	2.0	1.8	4.0	None	-	-	-	14.0	15.8	15	20
									E08	9	1	8.7	18.8	21.1	20	25
									E15	15	2	14.4	26.0	28.3	30	30
									E20	20	2	19.2	32.1	34.3	35	35
									E23	24	2	23.1	36.9	39.1	40	40

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

ZR078-150 Standard Motor - With Powered Convenience Outlet

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC					Model	kW	Stages	Amps				
078 (6.5)	208	13.5	88.0	21.1	1.5	6.2	5.5	10.0	None	-	-	-	49.6	55.1	60	60
									E09	6.8	1	18.9	49.6	55.1	60	60
									E18	13.5	2	37.5	67.1	74.0	70	80
									E24	18.0	2	50.0	82.7	89.6	90	90
									E36	25.5	2	70.8	108.7	115.6	110	125
	230	13.5	88.0	21.1	1.5	6.2	5.5	10.0	None	-	-	-	49.6	55.1	60	60
									E09	9.0	1	21.7	49.6	55.1	60	60
									E18	18.0	2	43.3	74.4	81.3	80	90
									E24	24.0	2	57.7	92.4	99.3	100	100
									E36	34.0	2	81.8	122.5	129.4	125	150
	460	6.0	44.0	9.3	0.8	3.1	2.2	5.0	None	-	-	-	23.2	25.4	25	30
									E09	9.0	1	10.8	23.7	26.4	25	30
									E18	18.0	2	21.7	37.2	39.9	40	40
									E24	24.0	2	28.9	46.2	49.0	50	50
									E36	34.0	2	40.9	61.2	64.0	70	70
	575	4.9	34.0	7.7	0.6	2.4	1.8	4.0	None	-	-	-	18.6	20.4	20	25
									E09	9.0	1	8.7	18.8	21.1	20	25
									E18	18.0	2	17.3	29.7	31.9	30	35
									E24	24.0	2	23.1	36.9	39.1	40	40
									E36	34.0	2	32.7	48.9	51.1	50	60
090 (7.5)	208	13.1	83.1	20.5	1.5	6.2	5.5	10.0	None	-	-	-	48.7	54.2	60	60
									E09	6.8	1	18.9	48.7	54.2	60	60
									E18	13.5	2	37.5	67.1	74.0	70	80
									E24	18.0	2	50.0	82.7	89.6	90	90
									E36	25.5	2	70.8	108.7	115.6	110	125
	230	13.1	83.1	20.5	1.5	6.2	5.5	10.0	None	-	-	-	48.7	54.2	60	60
									E09	9.0	1	21.7	48.7	54.2	60	60
									E18	18.0	2	43.3	74.4	81.3	80	90
									E24	24.0	2	57.7	92.4	99.3	100	100
									E36	34.0	2	81.8	122.5	129.4	125	150
	460	6.1	41.0	9.5	0.8	3.1	2.2	5.0	None	-	-	-	23.4	25.6	25	30
									E09	9.0	1	10.8	23.7	26.4	25	30
									E18	18.0	2	21.7	37.2	39.9	40	40
									E24	24.0	2	28.9	46.2	49.0	50	50
									E36	34.0	2	40.9	61.2	64.0	70	70
	575	4.4	33.0	6.8	0.6	2.4	1.8	4.0	None	-	-	-	17.5	19.3	20	20
									E09	9.0	1	8.7	18.8	21.1	20	25
									E18	18.0	2	17.3	29.7	31.9	30	35
									E24	24.0	2	23.1	36.9	39.1	40	40
									E36	34.0	2	32.7	48.9	51.1	50	60
102 (8.5)	208	14.5	98.0	22.6	1.5	8.2	5.5	10.0	None	-	-	-	53.8	59.3	60	70
									E09	6.8	1	18.9	53.8	59.3	60	70
									E18	13.5	2	37.5	69.6	76.5	70	80
									E24	18.0	2	50.0	85.2	92.1	90	100
									E36	25.5	2	70.8	111.2	118.1	125	125
	230	14.5	98.0	22.6	1.5	8.2	5.5	10.0	None	-	-	-	53.8	59.3	60	70
									E09	9.0	1	21.7	53.8	59.3	60	70
									E18	18.0	2	43.3	76.9	83.8	80	90
									E24	24.0	2	57.7	94.9	101.8	100	110
									E36	34.0	2	81.8	125.0	131.9	125	150
	460	6.3	55.0	9.9	0.8	4.1	2.2	5.0	None	-	-	-	24.9	27.1	30	30
									E09	9.0	1	10.8	24.9	27.7	30	30
									E18	18.0	2	21.7	38.4	41.2	40	45
									E24	24.0	2	28.9	47.5	50.2	50	60
									E36	34.0	2	40.9	62.5	65.2	70	70
	575	6.0	41.0	9.4	0.6	3.6	1.8	4.0	None	-	-	-	22.3	24.1	25	30
									E09	9.0	1	8.7	22.3	24.1	25	30
									E18	18.0	2	17.3	31.2	33.4	35	35
									E24	24.0	2	23.1	38.4	40.6	40	45
									E36	34.0	2	32.7	50.4	52.6	60	60

ZR078-150 Standard Motor - With Powered Convenience Outlet (Continued)

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC					Model	kW	Stages	Amps				
120 (10)	208	16.0	110.0	24.9	1.5	8.2	5.5	10.0	None	-	-	-	57.2	62.7	70	70
									E18	13.5	2	37.5	69.6	76.5	70	80
									E24	18.0	2	50.0	85.2	92.1	90	100
									E36	25.5	2	70.8	111.2	118.1	125	125
									E54	40.6	2	112.7	163.6	170.5	175	175
	230	16.0	110.0	24.9	1.5	8.2	5.5	10.0	None	-	-	-	57.2	62.7	70	70
									E18	18.0	2	43.3	76.9	83.8	80	90
									E24	24.0	2	57.7	94.9	101.8	100	110
									E36	34.0	2	81.8	125.0	131.9	125	150
									E54	54.0	2	129.9	152.7	159.5	175	175
	460	7.8	52.0	12.1	0.8	4.1	2.2	5.0	None	-	-	-	28.3	30.5	35	35
									E18	18.0	2	21.7	38.4	41.2	40	45
									E24	24.0	2	28.9	47.5	50.2	50	60
									E36	34.0	2	40.9	62.5	65.2	70	70
									E54	54.0	2	65.0	76.3	79.1	90	90
	575	5.7	38.9	8.9	0.6	3.6	1.8	4.0	None	-	-	-	21.6	23.4	25	25
									E18	18.0	2	17.3	31.2	33.4	35	35
									E24	24.0	2	23.1	38.4	40.6	40	45
									E36	34.0	2	32.7	50.4	52.6	60	60
									E54	54.0	2	52.0	61.5	63.7	70	70
150 (12.5)	208	22.4	149.0	35.0	1.5	10.9	5.5	10.0	None	-	-	-	77.3	82.8	90	100
									E18	13.5	2	37.5	77.3	82.8	90	100
									E24	18.0	2	50.0	88.6	95.5	90	100
									E36	25.5	2	70.8	114.6	121.5	125	125
									E54	40.6	2	112.7	167.0	173.9	175	175
	230	22.4	149.0	35.0	1.5	10.9	5.5	10.0	None	-	-	-	77.3	82.8	90	100
									E18	18.0	2	43.3	80.3	87.1	90	100
									E24	24.0	2	57.7	98.3	105.2	100	110
									E36	34.0	2	81.8	128.4	135.2	150	150
									E54	54.0	2	129.9	156.0	162.9	175	175
	460	10.6	75.0	16.5	0.8	5.3	2.2	5.0	None	-	-	-	37.4	39.6	45	50
									E18	18.0	2	21.7	39.9	42.7	45	50
									E24	24.0	2	28.9	49.0	51.7	50	60
									E36	34.0	2	40.9	64.0	66.7	70	70
									E54	54.0	2	65.0	77.8	80.6	90	90
	575	7.7	54.0	12.0	0.6	4.1	1.8	4.0	None	-	-	-	27.8	29.6	35	35
									E18	18.0	2	17.3	31.8	34.0	35	35
									E24	24.0	2	23.1	39.0	41.2	40	45
									E36	34.0	2	32.7	51.0	53.3	60	60
									E54	54.0	2	52.0	62.1	64.3	70	70

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

ZR037-061 Hi Static Indoor Blower - With Powered Convenience Outlet

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC					Model	kW	Stages	Amps				
037 (3)	208	8.7	68	13.5	1.5	6.0	5.5	10.0	None	-	-	-	28.7	34.2	35	40
									E03	2.3	1	6.4	28.7	34.9	35	40
									E06	4.5	1	12.5	35.6	42.5	40	45
									E08	6.8	1	18.9	43.6	50.5	45	60
									E15	11.3	2	31.4	59.2	66.1	60	70
	230	8.7	68	13.5	1.5	6.0	5.5	10.0	None	-	-	-	28.7	34.2	35	40
									E03	3	1	7.2	29.0	35.9	35	40
									E06	6	1	14.4	38.0	44.9	40	45
									E08	9	1	21.7	47.1	53.9	50	60
									E15	15	2	36.1	65.1	72.0	70	80
	460	4.6	34	7.1	0.8	3.0	2.2	5.0	None	-	-	-	14.7	16.9	15	20
									E03	3	1	3.6	14.7	17.3	15	20
									E06	6	1	7.2	19.0	21.8	20	25
									E08	9	1	10.8	23.5	26.3	25	30
									E15	15	2	18.0	32.6	35.3	35	40
	575	3.5	28	5.5	0.6	2.4	1.8	4.0	None	-	-	-	11.5	13.3	15	15
									E08	9	1	8.7	18.8	21.1	20	25
									E15	15	2	14.4	26.0	28.3	30	30
049 (4)	208	11.9	88	18.5	1.5	6.0	5.5	10.0	None	-	-	-	33.9	39.4	45	50
									E06	4.5	1	12.5	35.6	42.5	45	50
									E08	6.8	1	18.9	43.6	50.5	45	60
									E15	11.3	2	31.4	59.2	66.1	60	70
									E20	15	2	41.6	72.0	78.9	80	80
	230	11.9	88	18.5	1.5	6.0	5.5	10.0	None	-	-	-	33.9	39.4	45	50
									E06	6	1	14.4	38.0	44.9	45	50
									E08	9	1	21.7	47.1	53.9	50	60
									E15	15	2	36.1	65.1	72.0	70	80
									E20	20	2	48.1	80.1	87.0	90	90
	460	5.2	44	8.1	0.8	3.0	2.2	5.0	None	-	-	-	16.1	18.3	20	20
									E06	6	1	7.2	19.0	21.8	20	25
									E08	9	1	10.8	23.5	26.3	25	30
									E15	15	2	18.0	32.6	35.3	35	40
									E20	20	2	24.1	40.1	42.8	45	45
	575	4.8	36	7.5	0.6	2.4	1.8	4.0	None	-	-	-	13.6	15.4	15	20
									E08	9	1	8.7	18.8	21.1	20	25
									E15	15	2	14.4	26.0	28.3	30	30
									E20	20	2	19.2	32.1	34.3	35	35
061 (5)	208	14.1	88	22.0	1.5	4.3	5.5	10.0	None	-	-	-	37.4	42.9	50	50
									E06	4.5	1	12.5	37.4	43.5	50	50
									E08	6.8	1	18.9	44.6	51.5	50	60
									E15	11.3	2	31.4	60.2	67.1	70	70
									E20	15	2	41.6	73.0	79.9	80	80
	230	14.1	88	22.0	1.5	4.3	5.5	10.0	None	-	-	-	37.4	42.9	50	50
									E06	6	1	14.4	39.0	45.9	50	50
									E08	9	1	21.7	48.1	54.9	50	60
									E15	15	2	36.1	66.1	73.0	70	80
									E20	20	2	48.1	81.1	88.0	90	90
	460	7.7	55	12.0	0.8	2.1	2.2	5.0	None	-	-	-	19.6	21.8	25	25
									E06	6	1	7.2	19.6	22.3	25	25
									E08	9	1	10.8	24.0	26.8	25	30
									E15	15	2	18.0	33.1	35.8	35	40
									E20	20	2	24.1	40.6	43.3	45	45
	575	5.1	36	7.5	0.6	2.0	1.8	4.0	None	-	-	-	14.3	16.1	15	20
									E08	9	1	8.7	19.2	21.5	20	25
									E15	15	2	14.4	26.4	28.7	30	30
									E20	20	2	19.2	32.4	34.7	35	35
									E23	24	2	23.1	37.2	39.5	40	40

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

ZR078-150 Hi Static Motor - With Powered Convenience Outlet

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC					Model	kW	Stages	Amps				
078 (6.5)	208	13.5	88.0	21.1	1.5	8.2	5.5	10.0	None	-	-	-	51.6	57.1	60	70
									E09	6.8	1	18.9	51.6	57.1	60	70
									E18	13.5	2	37.5	69.6	76.5	70	80
									E24	18.0	2	50.0	85.2	92.1	90	100
									E36	25.5	2	70.8	111.2	118.1	125	125
	230	13.5	88.0	21.1	1.5	8.2	5.5	10.0	None	-	-	-	51.6	57.1	60	70
									E09	9.0	1	21.7	51.6	57.1	60	70
									E18	18.0	2	43.3	76.9	83.8	80	90
									E24	24.0	2	57.7	94.9	101.8	100	110
									E36	34.0	2	81.8	125.0	131.9	125	150
	460	6.0	44.0	9.3	0.8	4.1	2.2	5.0	None	-	-	-	24.2	26.4	30	30
									E09	9.0	1	10.8	24.9	27.7	30	30
									E18	18.0	2	21.7	38.4	41.2	40	45
									E24	24.0	2	28.9	47.5	50.2	50	60
									E36	34.0	2	40.9	62.5	65.2	70	70
	575	4.9	34.0	7.7	0.6	3.6	1.8	4.0	None	-	-	-	19.8	21.6	20	25
									E09	9.0	1	8.7	20.3	22.6	25	25
									E18	18.0	2	17.3	31.2	33.4	35	35
									E24	24.0	2	23.1	38.4	40.6	40	45
									E36	34.0	2	32.7	50.4	52.6	60	60
090 (7.5)	208	13.1	83.1	20.5	1.5	10.9	5.5	10.0	None	-	-	-	53.4	58.9	60	70
									E09	6.8	1	18.9	53.4	58.9	60	70
									E18	13.5	2	37.5	73.0	79.8	80	80
									E24	18.0	2	50.0	88.6	95.5	90	100
									E36	25.5	2	70.8	114.6	121.5	125	125
	230	13.1	83.1	20.5	1.5	10.9	5.5	10.0	None	-	-	-	53.4	58.9	60	70
									E09	9.0	1	21.7	53.4	60.1	60	70
									E18	18.0	2	43.3	80.3	87.1	90	90
									E24	24.0	2	57.7	98.3	105.2	100	110
									E36	34.0	2	81.8	128.4	135.2	150	150
	460	6.1	41.0	9.5	0.8	5.3	2.2	5.0	None	-	-	-	25.6	27.8	30	30
									E09	9.0	1	10.8	26.4	29.2	30	30
									E18	18.0	2	21.7	39.9	42.7	40	45
									E24	24.0	2	28.9	49.0	51.7	50	60
									E36	34.0	2	40.9	64.0	66.7	70	70
	575	4.4	33.0	6.8	0.6	4.1	1.8	4.0	None	-	-	-	19.2	21.0	20	25
									E09	9.0	1	8.7	21.0	23.2	25	25
									E18	18.0	2	17.3	31.8	34.0	35	35
									E24	24.0	2	23.1	39.0	41.2	40	45
									E36	34.0	2	32.7	51.0	53.3	60	60
102 (8.5)	208	14.5	98.0	22.6	1.5	10.9	5.5	10.0	None	-	-	-	56.5	62.0	70	70
									E09	6.8	1	18.9	56.5	62.0	70	70
									E18	13.5	2	37.5	73.0	79.8	80	80
									E24	18.0	2	50.0	88.6	95.5	90	100
									E36	25.5	2	70.8	114.6	121.5	125	125
	230	14.5	98.0	22.6	1.5	10.9	5.5	10.0	None	-	-	-	56.5	62.0	70	70
									E09	9.0	1	21.7	56.5	62.0	70	70
									E18	18.0	2	43.3	80.3	87.1	90	90
									E24	24.0	2	57.7	98.3	105.2	100	110
									E36	34.0	2	81.8	128.4	135.2	150	150
	460	6.3	55.0	9.9	0.8	5.3	2.2	5.0	None	-	-	-	26.1	28.3	30	30
									E09	9.0	1	10.8	26.4	29.2	30	30
									E18	18.0	2	21.7	39.9	42.7	40	45
									E24	24.0	2	28.9	49.0	51.7	50	60
									E36	34.0	2	40.9	64.0	66.7	70	70
	575	6.0	41.0	9.4	0.6	4.1	1.8	4.0	None	-	-	-	22.8	24.6	25	30
									E09	9.0	1	8.7	22.8	24.6	25	30
									E18	18.0	2	17.3	31.8	34.0	35	35
									E24	24.0	2	23.1	39.0	41.2	40	45
									E36	34.0	2	32.7	51.0	53.3	60	60

ZR078-150 Hi Static Motor - With Powered Convenience Outlet (Continued)

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Pwr Exh Motor	Pwr Conv Outlet	Electric Heat Option				MCA ¹ (Amps)	MCA ¹ w/Pwr Exh (Amps)	Max Fuse ² / Breaker ³ Size (Amps)	Max Fuse ² / Breaker ³ Size w/ Pwr Exh (Amps)
		RLA	LRA	MCC					Model	kW	Stages	Amps				
120 (10)	208	16.0	110.0	24.9	1.5	10.9	5.5	10.0	None	-	-	-	59.9	65.4	70	80
									E18	13.5	2	37.5	73.0	79.8	80	80
									E24	18.0	2	50.0	88.6	95.5	90	100
									E36	25.5	2	70.8	114.6	121.5	125	125
									E54	40.6	2	112.7	167.0	173.9	175	175
	230	16.0	110.0	24.9	1.5	10.9	5.5	10.0	None	-	-	-	59.9	65.4	70	80
									E18	18.0	2	43.3	80.3	87.1	90	90
									E24	24.0	2	57.7	98.3	105.2	100	110
									E36	34.0	2	81.8	128.4	135.2	150	150
									E54	54.0	2	129.9	156.0	162.9	175	175
	460	7.8	52.0	12.1	0.8	5.3	2.2	5.0	None	-	-	-	29.5	31.7	35	35
									E18	18.0	2	21.7	39.9	42.7	40	45
									E24	24.0	2	28.9	49.0	51.7	50	60
									E36	34.0	2	40.9	64.0	66.7	70	70
									E54	54.0	2	65.0	77.8	80.6	90	90
	575	5.7	38.9	8.9	0.6	4.1	1.8	4.0	None	-	-	-	22.1	23.9	25	25
									E18	18.0	2	17.3	31.8	34.0	35	35
									E24	24.0	2	23.1	39.0	41.2	40	45
									E36	34.0	2	32.7	51.0	53.3	60	60
									E54	54.0	2	52.0	62.1	64.3	70	70
150 (12.5)	208	22.4	149.0	35.0	1.5	16.1	5.5	10.0	None	-	-	-	82.5	88.0	100	110
									E18	13.5	2	37.5	82.5	88.0	100	110
									E24	18.0	2	50.0	95.1	102.0	100	110
									E36	25.5	2	70.8	121.1	128.0	125	150
									E54	40.6	2	112.7	173.5	180.4	175	200
	230	22.4	149.0	35.0	1.5	16.1	5.5	10.0	None	-	-	-	82.5	88.0	100	110
									E18	18.0	2	43.3	86.8	93.6	100	110
									E24	24.0	2	57.7	104.8	111.7	110	125
									E36	34.0	2	81.8	134.9	141.7	150	150
									E54	54.0	2	129.9	162.5	169.4	175	175
	460	10.6	75.0	16.5	0.8	8.1	2.2	5.0	None	-	-	-	40.2	42.4	50	50
									E18	18.0	2	21.7	43.4	46.2	50	50
									E24	24.0	2	28.9	52.5	55.2	60	60
									E36	34.0	2	40.9	67.5	70.2	70	80
									E54	54.0	2	65.0	81.3	84.1	90	90
	575	7.7	54.0	12.0	0.6	6.0	1.8	4.0	None	-	-	-	29.7	31.5	35	35
									E18	18.0	2	17.3	34.2	36.4	35	40
									E24	24.0	2	23.1	41.4	43.6	45	45
									E36	34.0	2	32.7	53.4	55.6	60	60
									E54	54.0	2	52.0	64.5	66.7	70	70

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

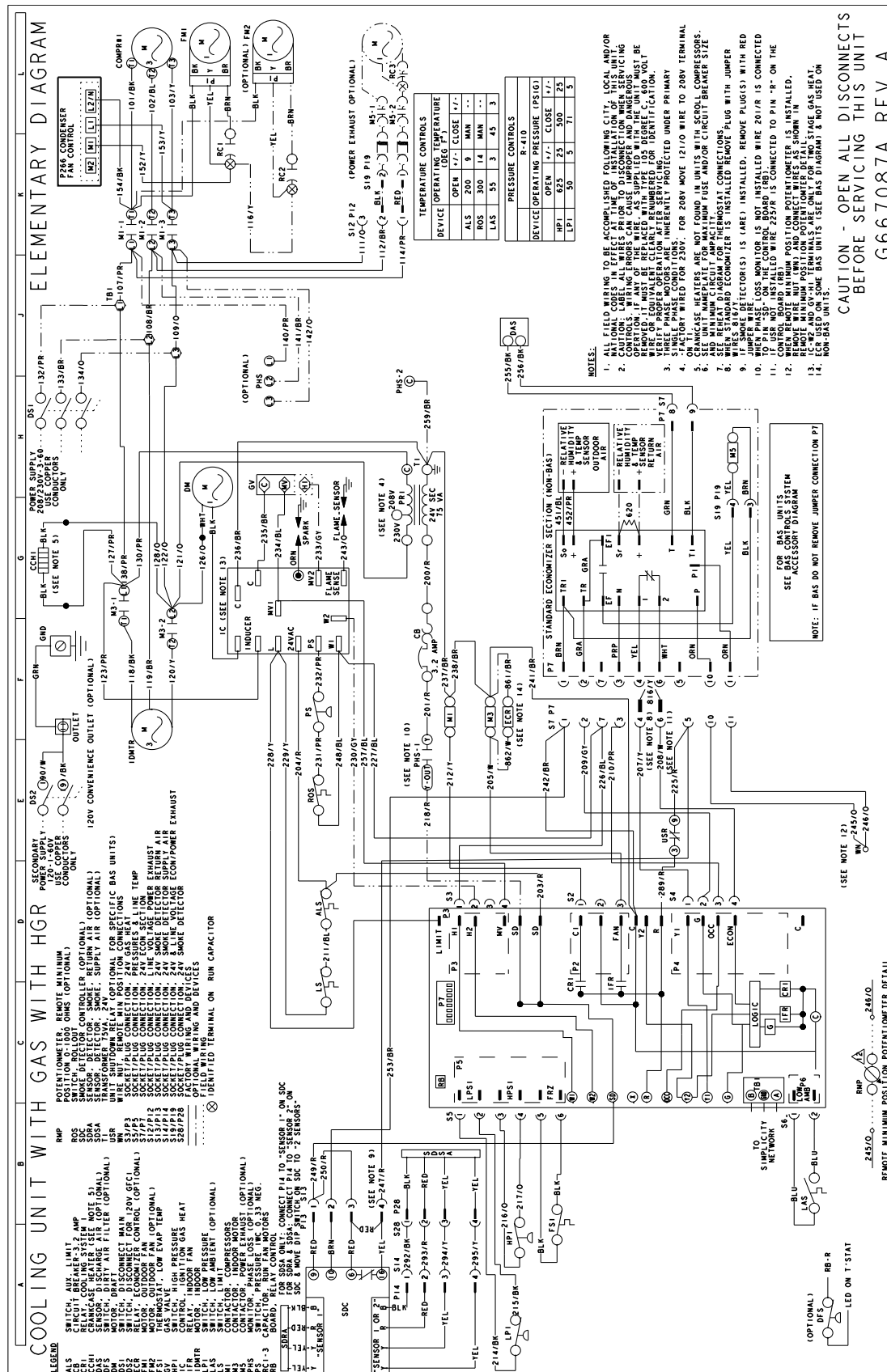
Electric Heat Multipliers

Voltage		kW Capacity Multipliers ¹
Nominal	Applied	
240	208	0.75
	230	0.92
480	460	0.92
600	575	0.92

1. Electric heaters are rated at nominal voltage. Use this table to determine the electric heat capacity for heaters applied at lower voltages.



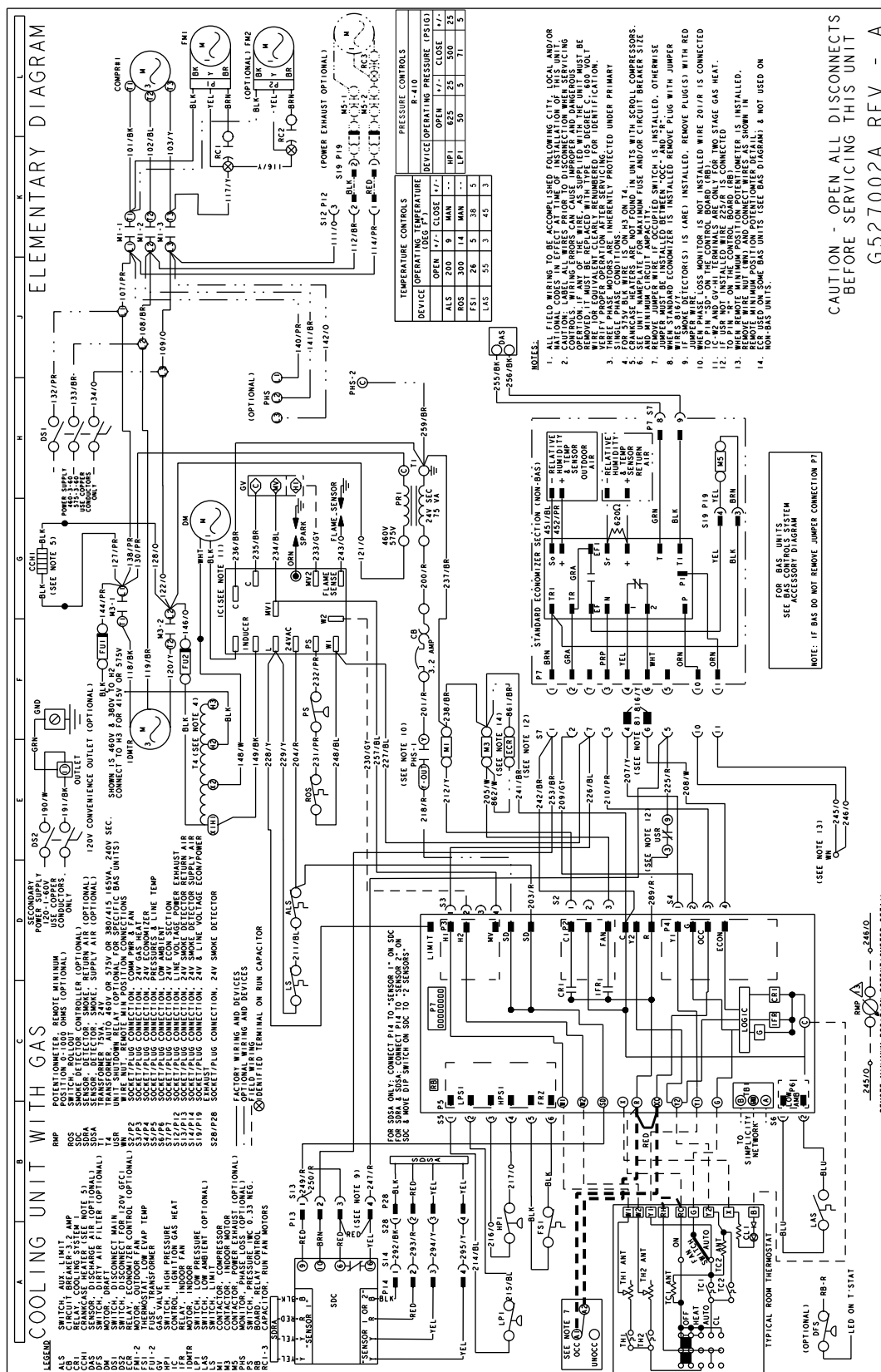
Typical ZR037-061 Reheat Unit with Gas Heat 230 Volt Wiring Diagram



CAUTION - OPEN ALL DISCONNECTS
BEFORE SERVICING THIS UNIT

G667087A REV A

Typical ZH/ZJ037-061 Cooling Unit with Gas Heat 460/575 Volt Wiring Diagram



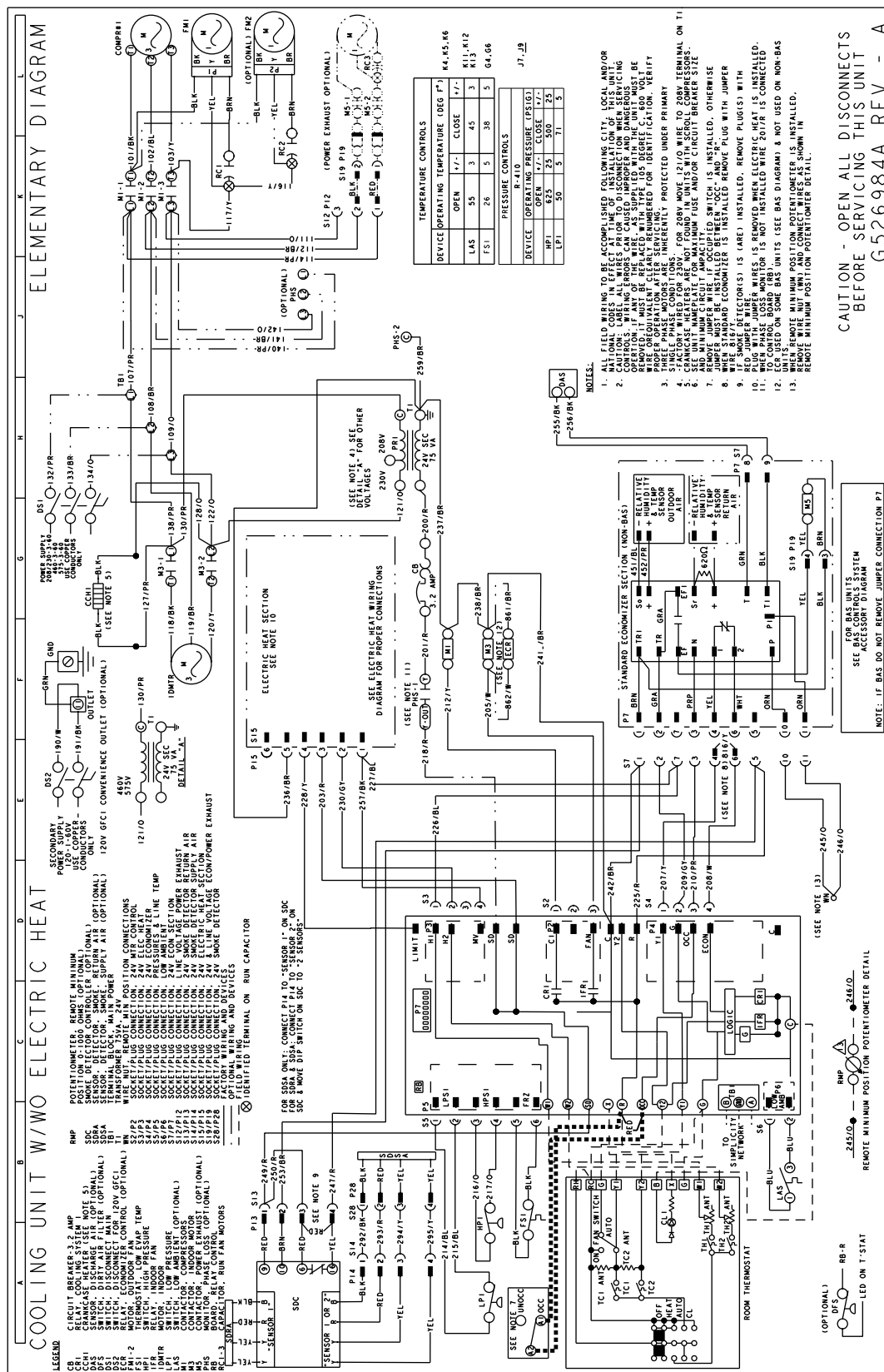
CAUTION - OPEN ALL DISCONNECTS
BEFORE SERVICING THIS UNIT

G527002A REV - A

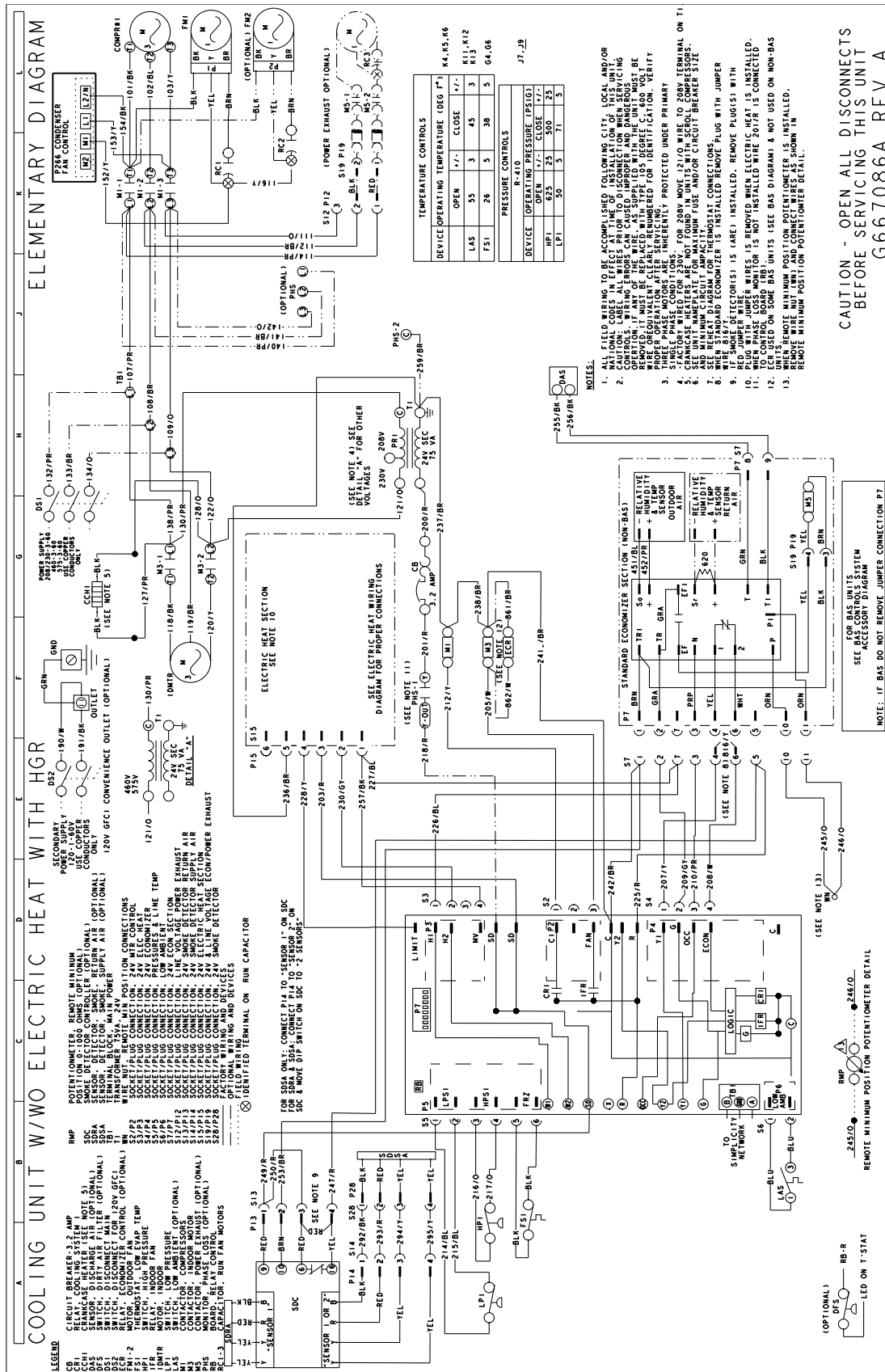
G527002A REV - A



Typical ZH/ZJ037-061 Cooling Unit with/without Electric Heat Wiring Diagram



Typical ZR037-061 Reheat Unit with/without Electric Heat Wiring Diagram



CAUTION - OPEN ALL DISCONNECTS
BEFORE SERVICING THIS UNIT
G667086A REV A

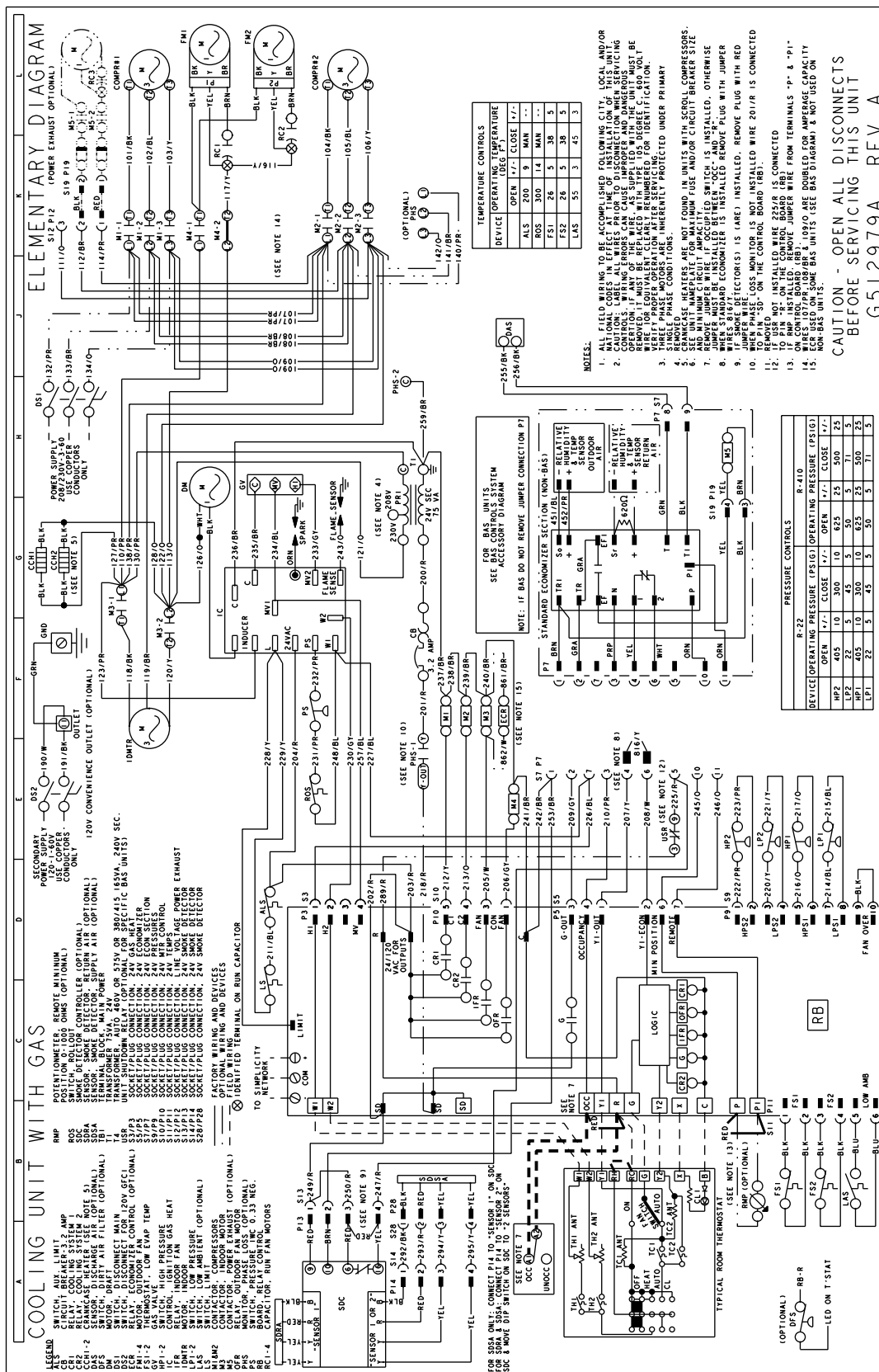
FOR BAS UNITS
SEE BAS CONTROLS SYSTEM
ACCESSORY DIAGRAM

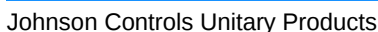
NOTE: IF BAS DO NOT REMOVE JUMPER CONNECTION P7

245/0 RMP 246/0

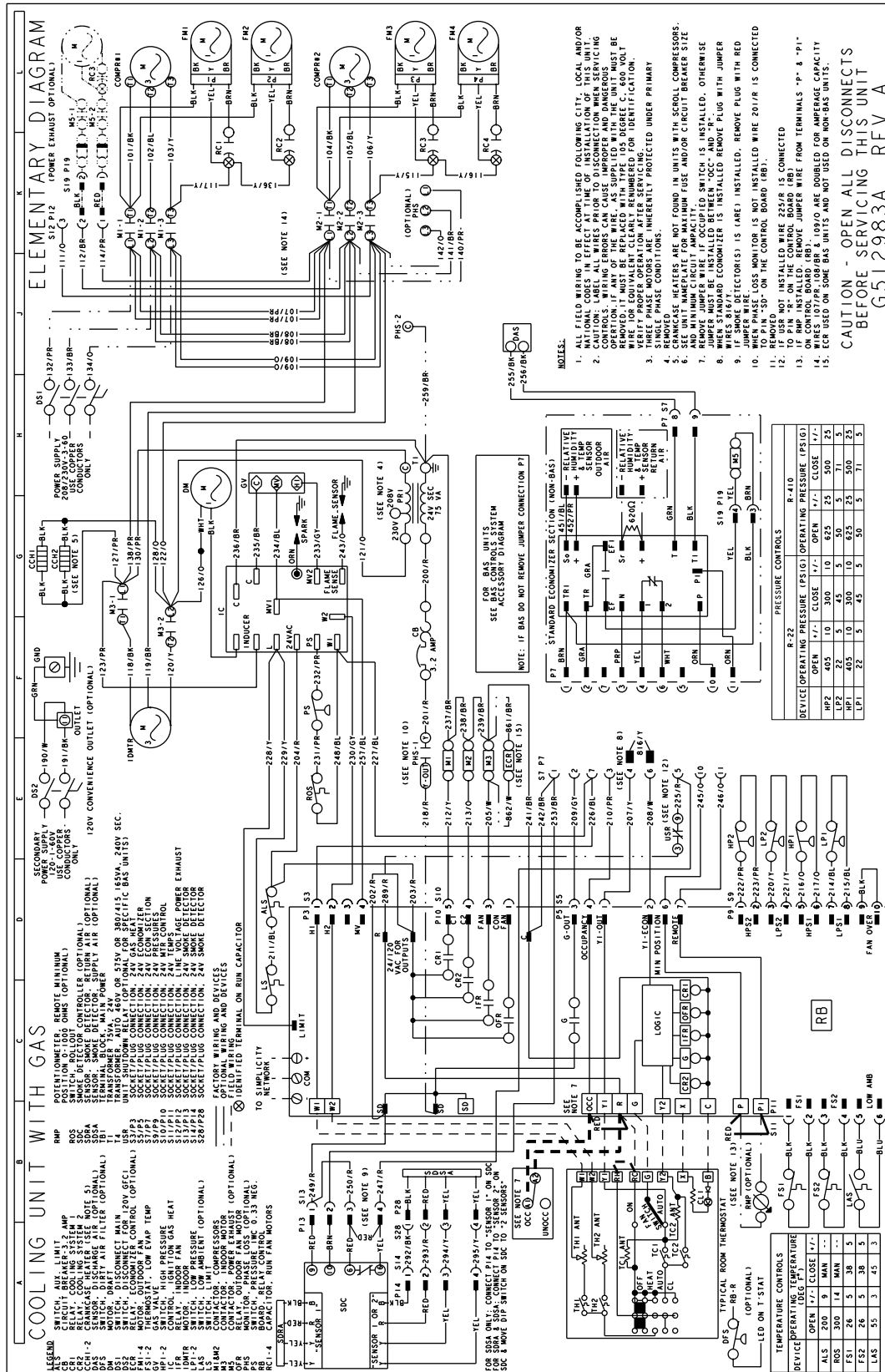
DFS RB-R LED ON T-STAT

Johnson Controls Unitary Products

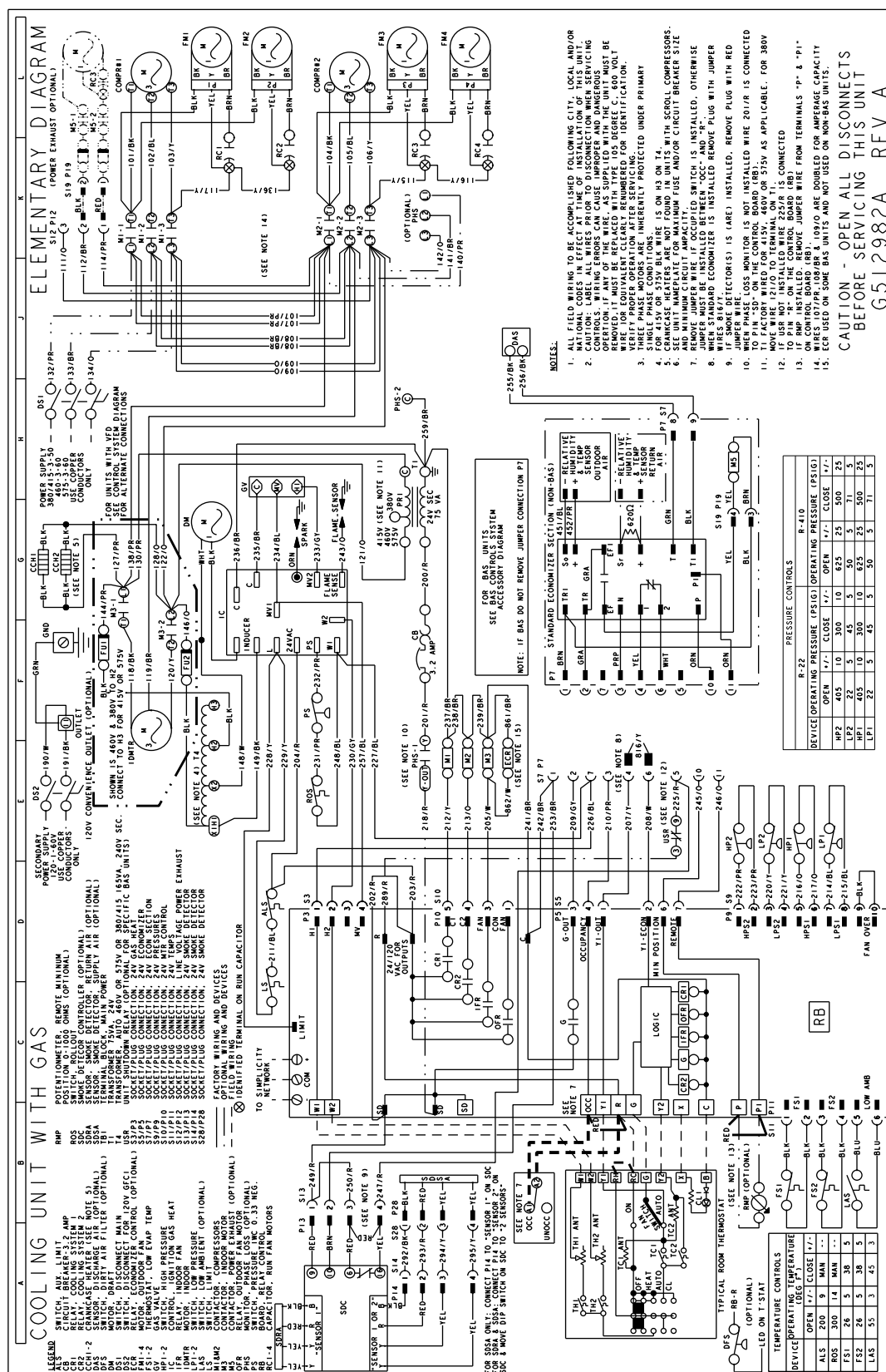




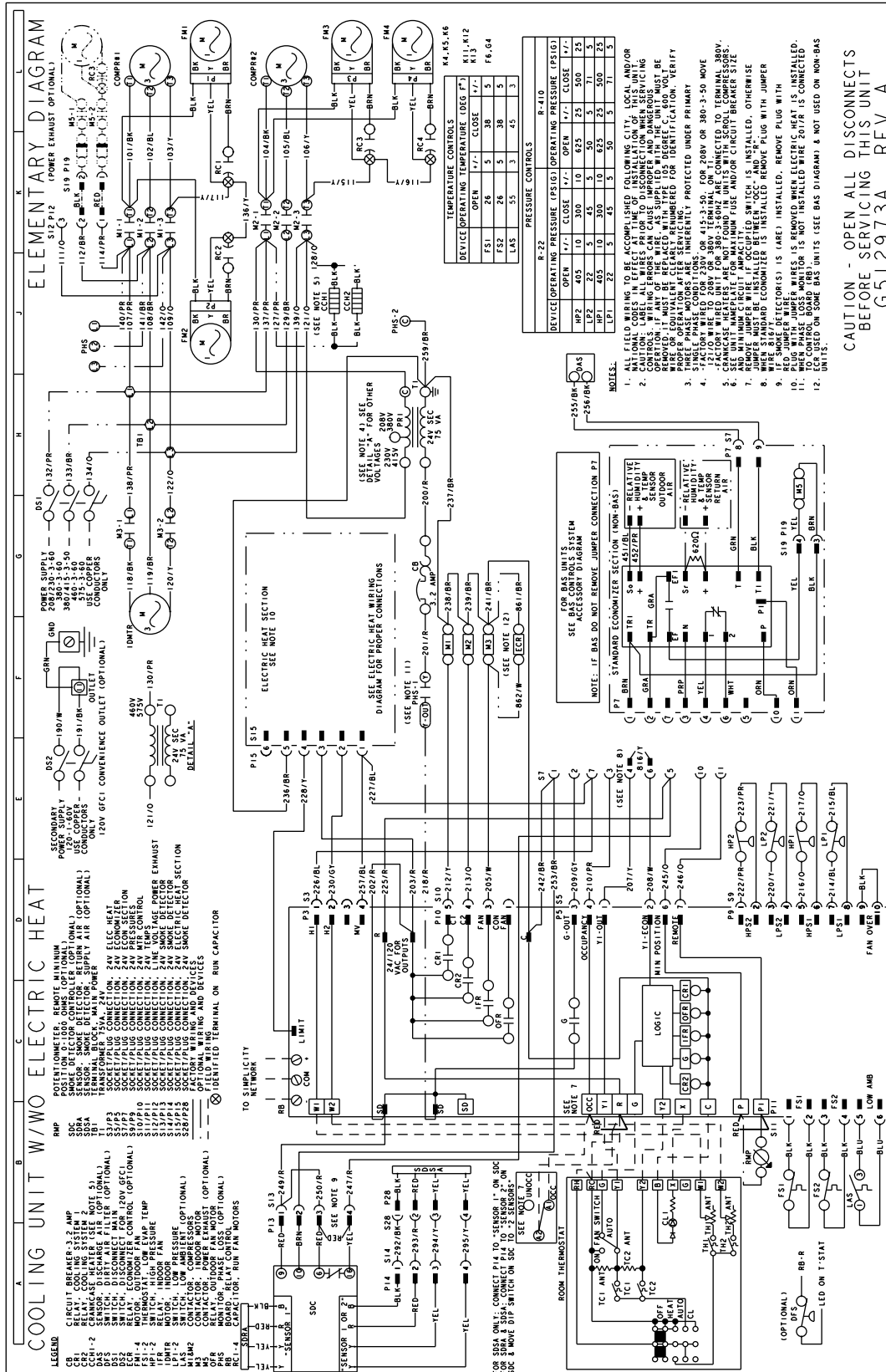
Typical ZH/ZJ/ZR150 Cooling Unit with Gas Heat 230 Volt Wiring Diagram



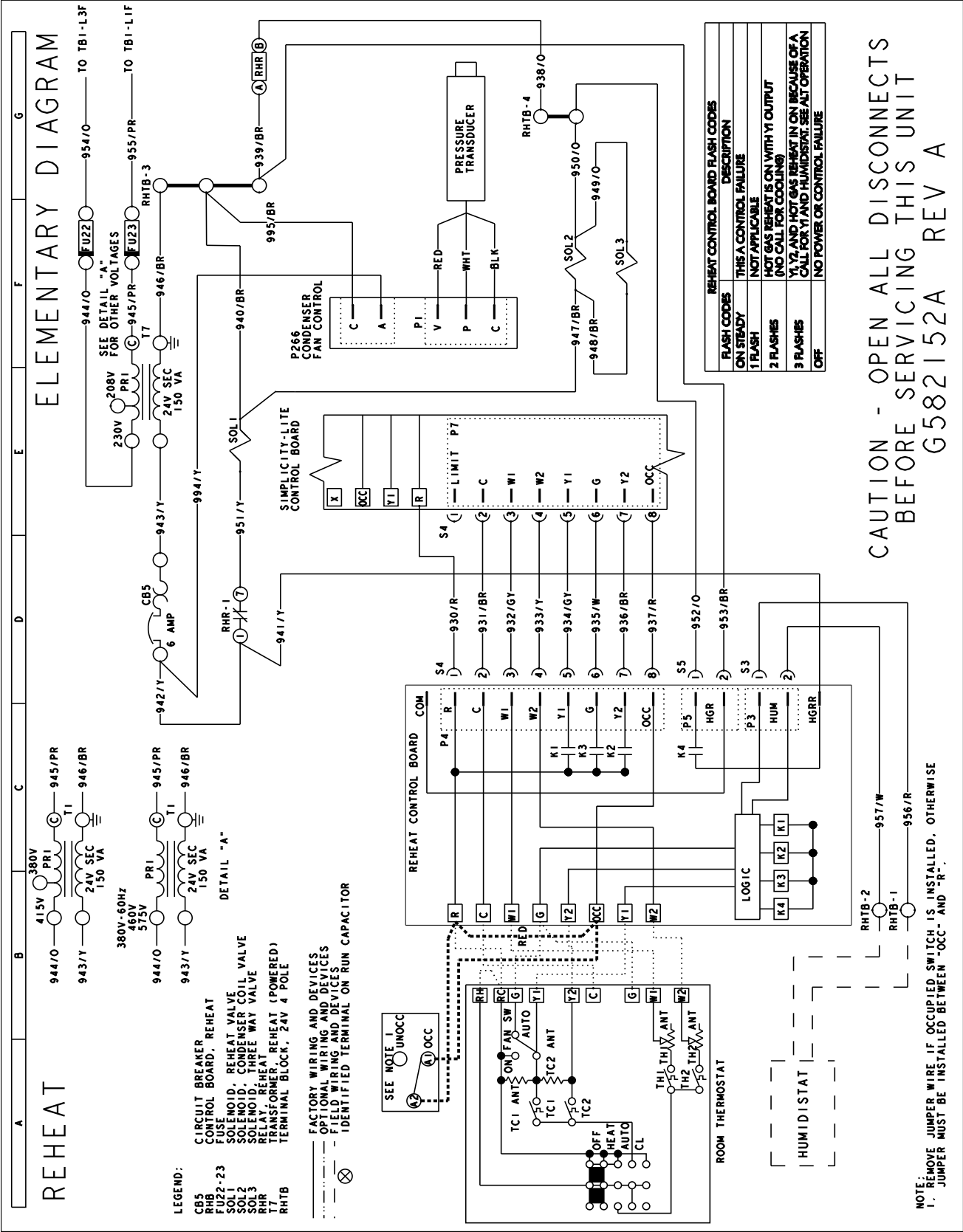
Johnson Controls Unitary Products



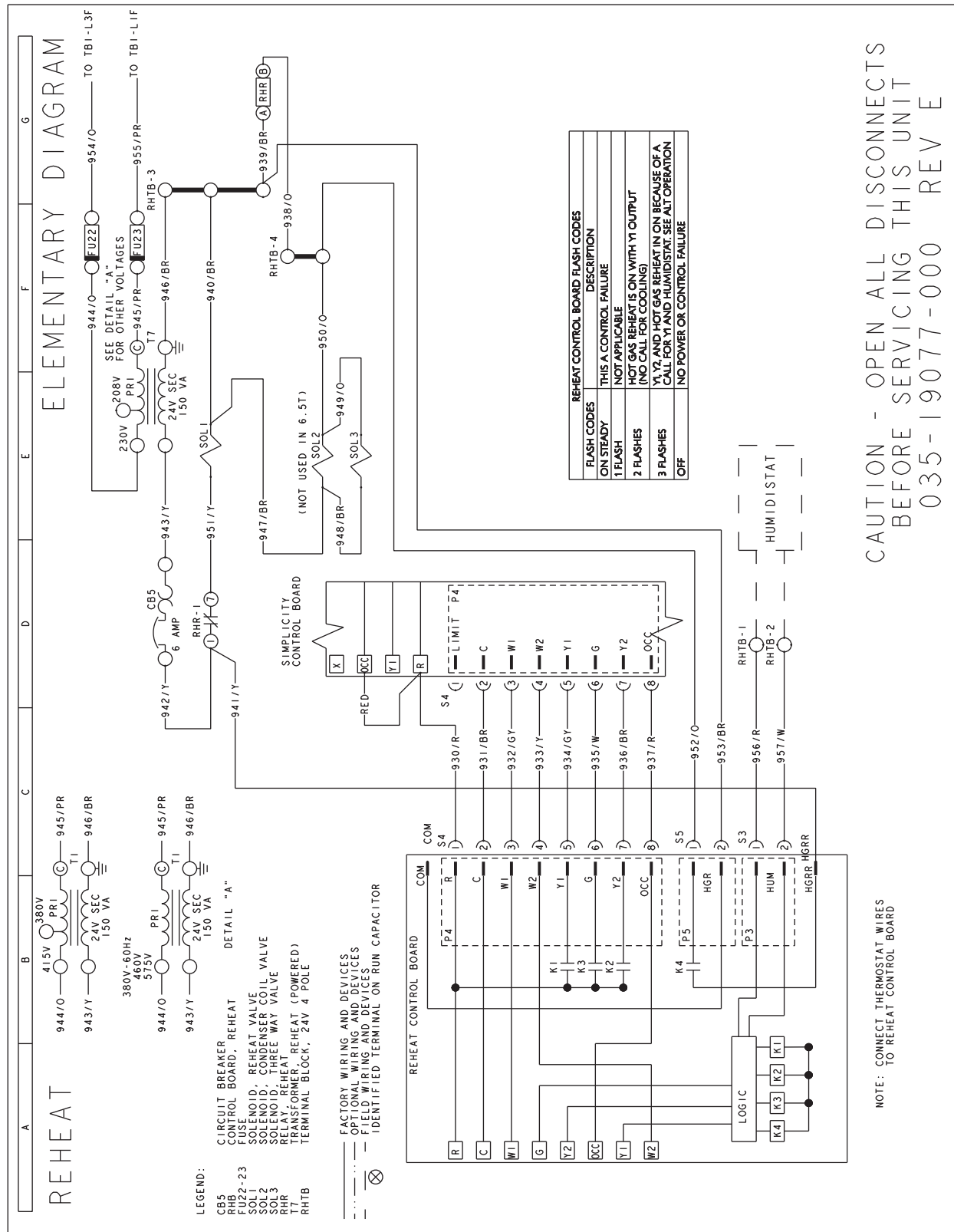
Typical ZH/ZJ/ZR150 Cooling Unit with/without Electric Heat Wiring Diagram



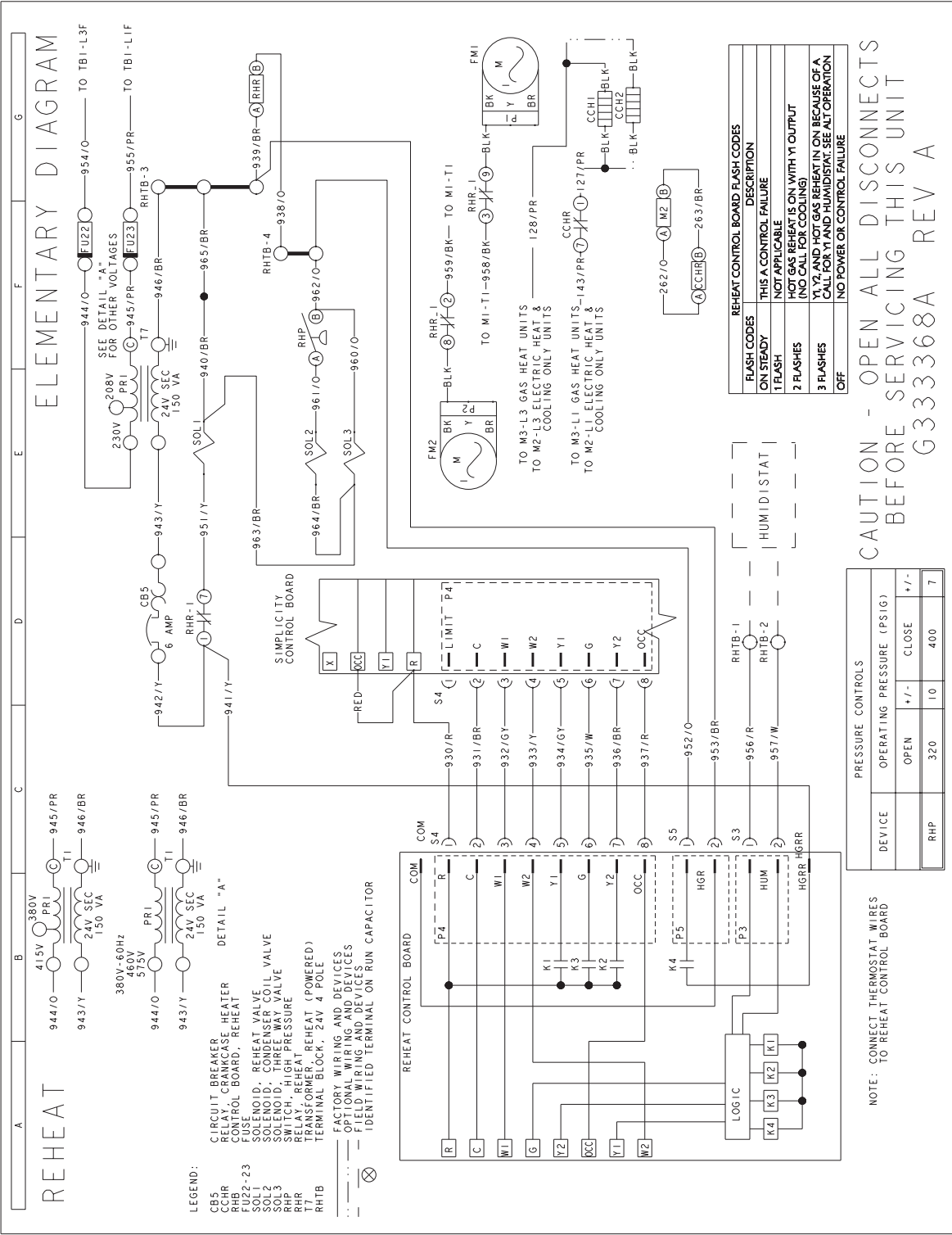
Typical ZR037-061 Reheat Wiring Diagram



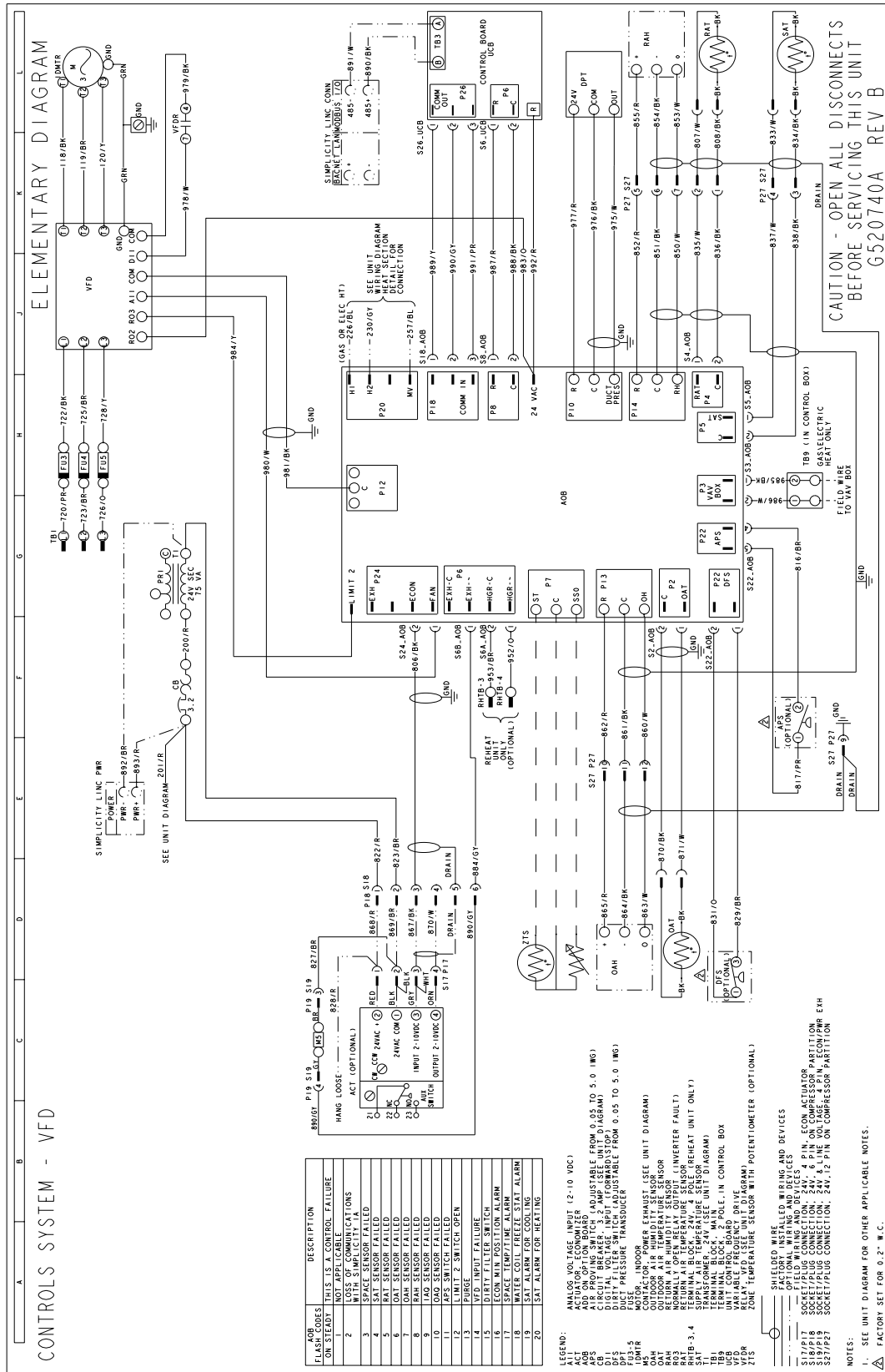
Typical ZR078-120 Reheat Wiring Diagram



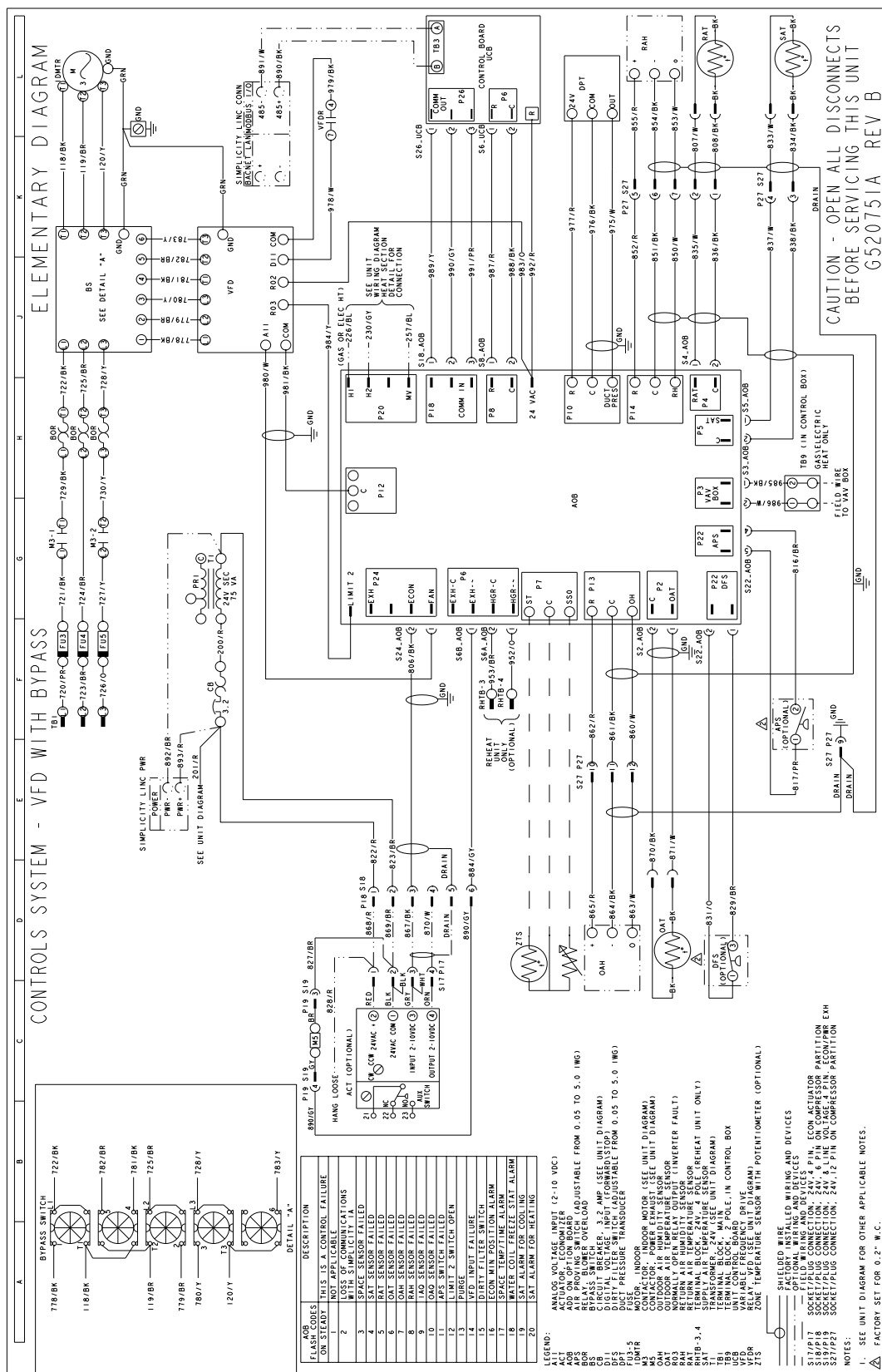
Typical ZR150 Reheat Wiring Diagram



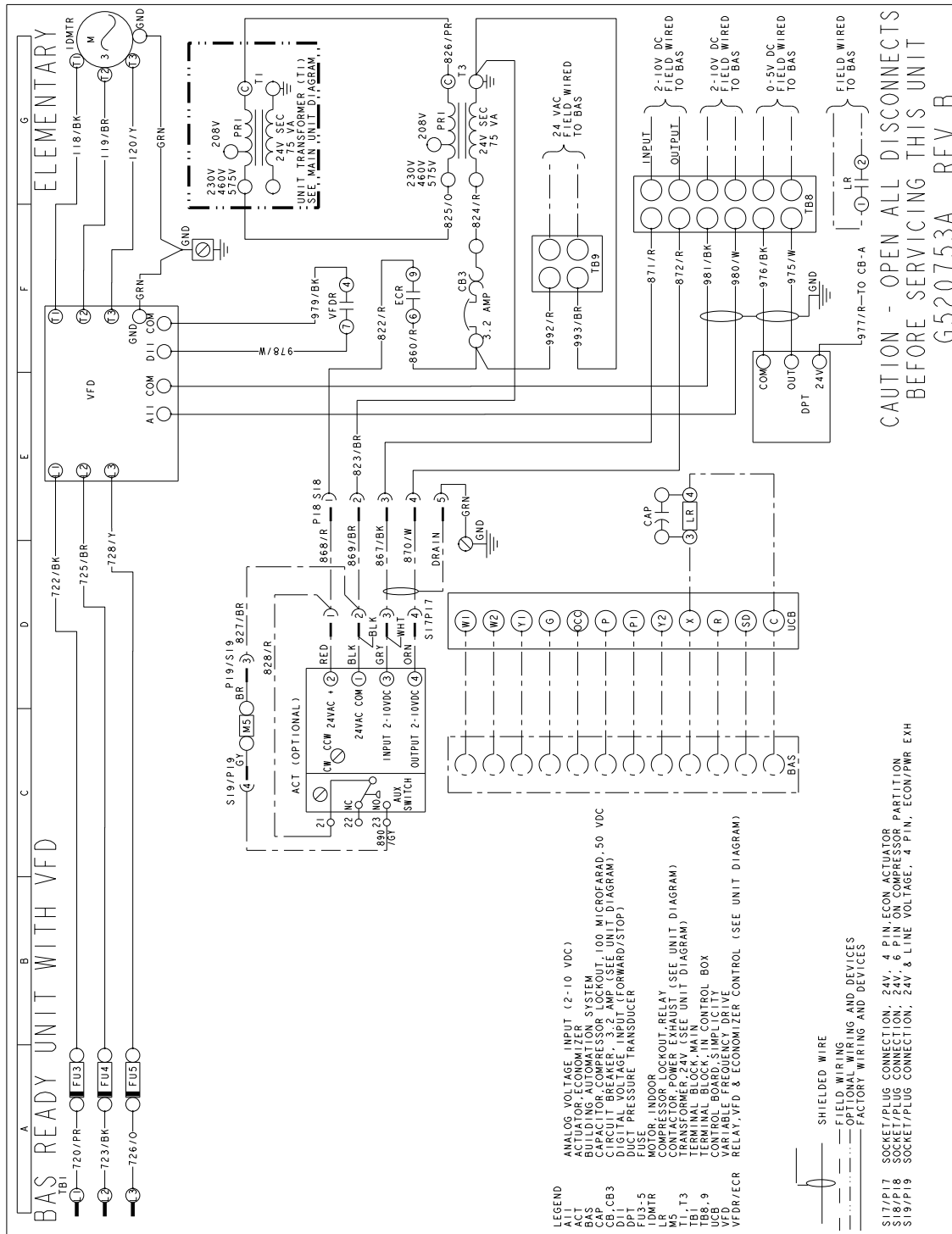
Typical ZH/ZJ078-150 Factory Installed VFD (Option)



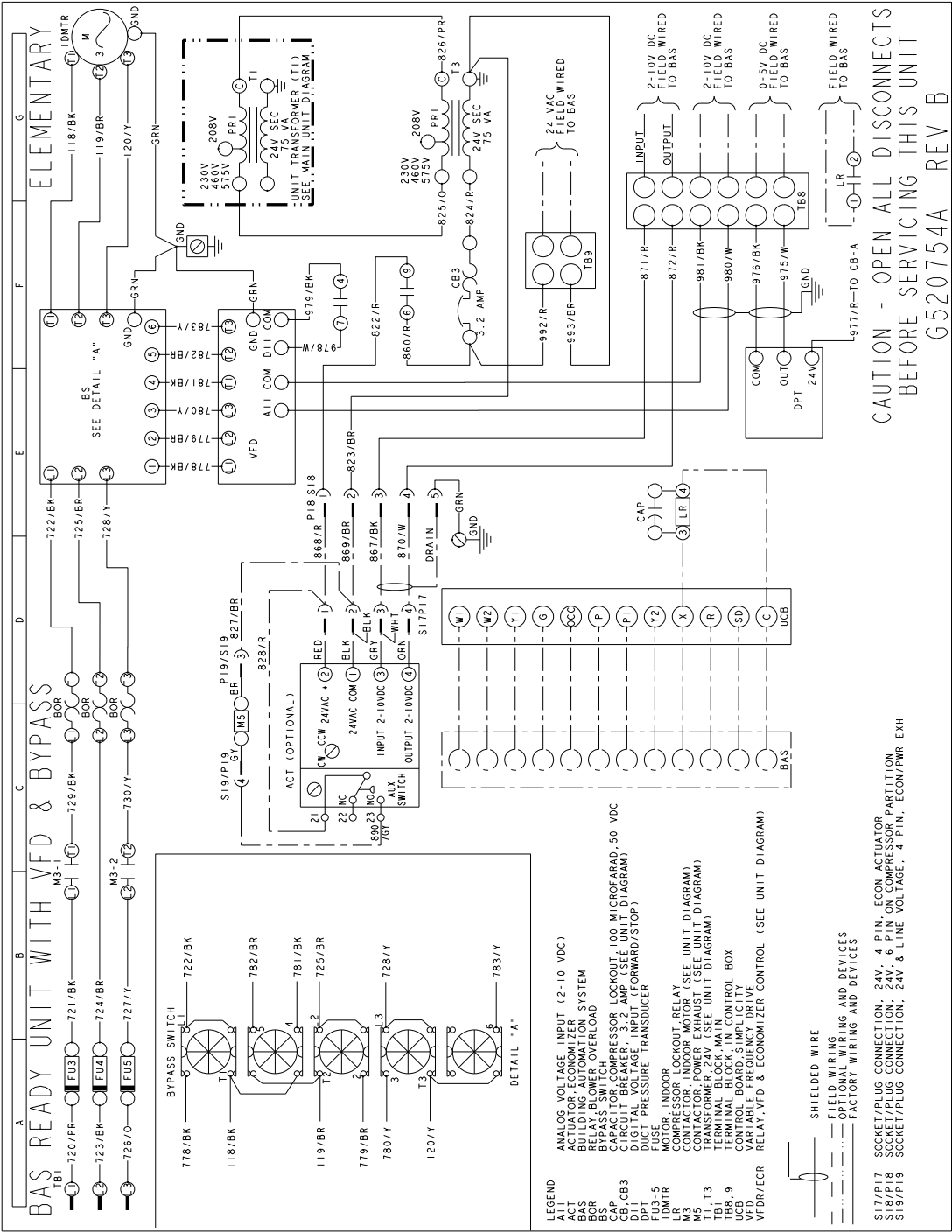
Typical ZH/ZJ078-150 Factory Installed VFD with Manual Bypass (Option)



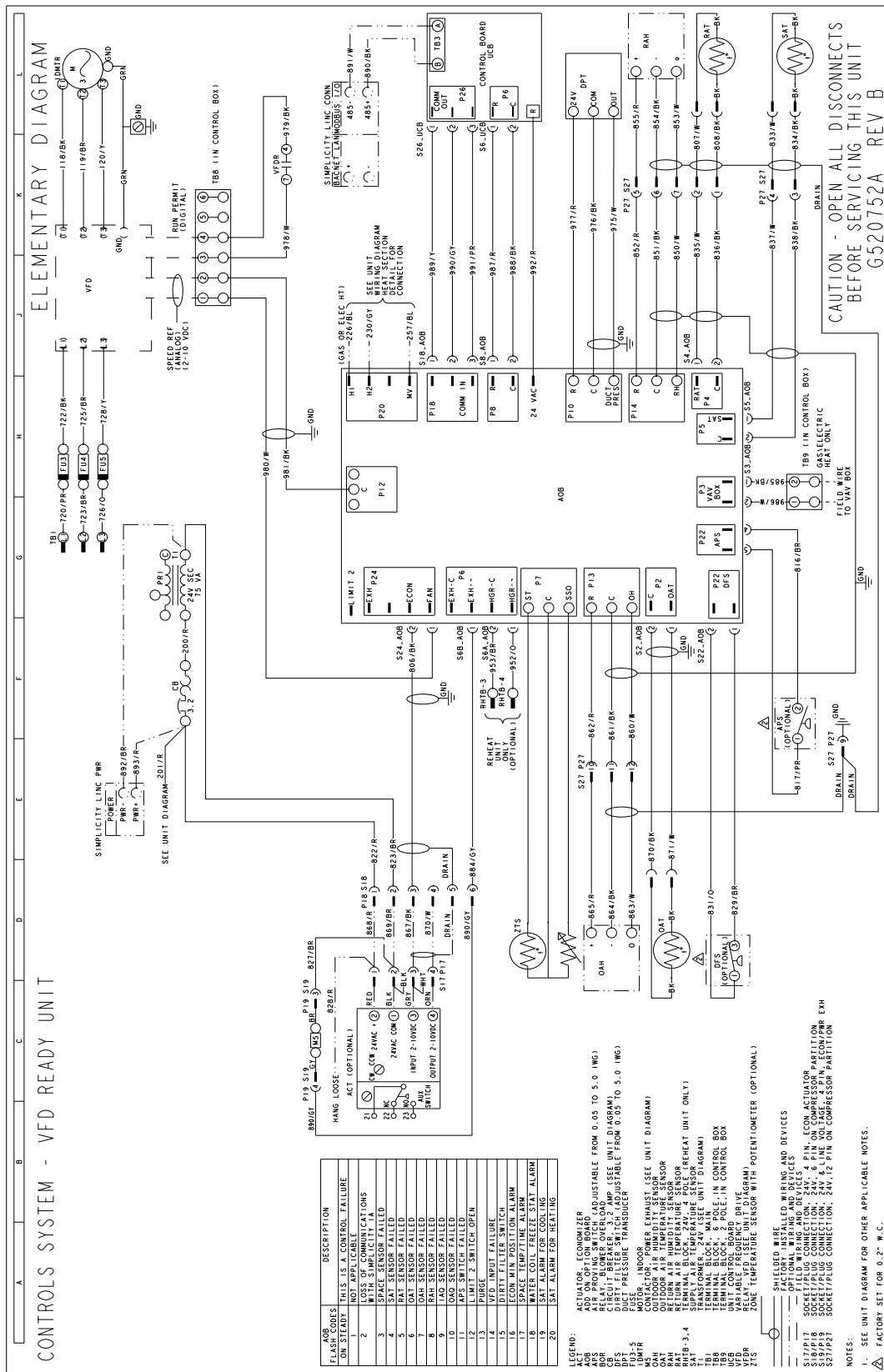
Typical ZH/ZJ078-150 BAS Ready Unit with Factory Installed VFD (Option)



Typical ZH/ZJ078-150 BAS Ready Unit with Factory Installed VFD and Manual Bypass (Option)



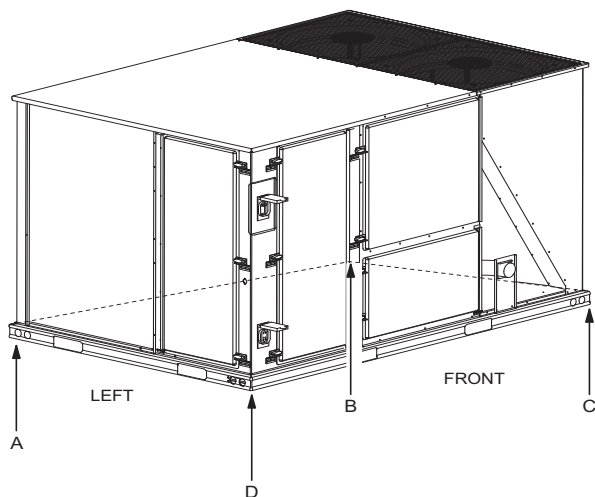
Typical ZH/ZJ078-150 VFD Ready Unit (Option)



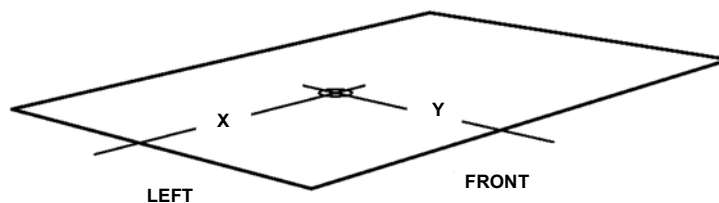
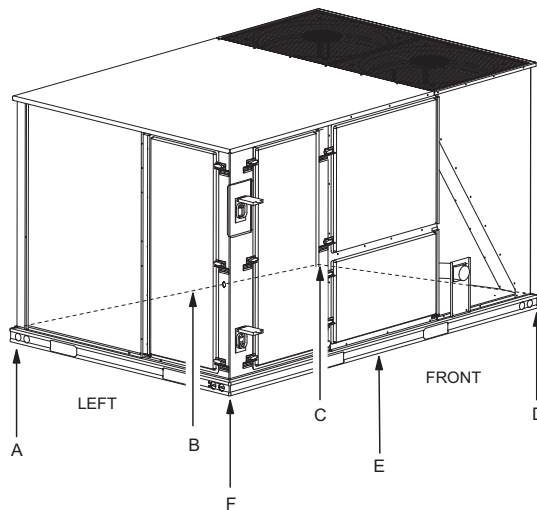
Weights and Dimensions

ZH/ZJ037-150 Unit Weights

Unit 4 Point Load Weight



Unit 6 Point Load Weight

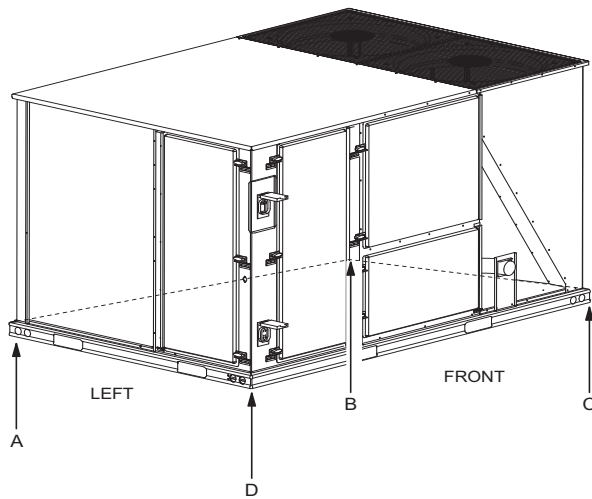


Size (Tons)	Model	Weight (lbs.)		Center of Gravity		4 Point Load Location (lbs.)				6 Point Load Location (lbs.)					
		Shipping	Operating	X	Y	A	B	C	D	A	B	C	D	E	F
037 (3)	ZH	728	723	40	26	175	143	182	223	121	105	92	117	134	154
049 (4)	ZH	768	763	40	26	185	151	192	235	128	111	97	124	141	162
061 (5)	ZH	869	864	40	26	210	171	217	266	145	126	110	140	160	184
078 (6.5)	ZH	915	910	38	24	212	158	230	309	149	121	100	147	177	217
090 (7.5)	ZH	915	910	38	24	212	158	230	309	149	121	100	147	177	217
102 (8.5)	ZH	1052	1047	38	24	244	182	265	356	171	139	116	169	203	249
120 (10)	ZH	1095	1090	38	24	254	189	276	371	178	145	120	176	211	260
150 (12.5)	ZH	1285	1280	48	24	240	281	410	350	156	173	192	280	252	227
037 (3)	ZJ	745	740	40	26	180	147	186	228	124	108	95	120	137	157
049 (4)	ZJ	780	775	40	24	174	142	207	253	120	104	91	133	152	175
061 (5)	ZJ	775	770	40	24	172	141	205	251	119	103	91	132	151	174
078 (6.5)	ZJ	1035	1030	39	25	245	191	260	333	170	144	122	167	195	232
090 (7.5)	ZJ	1055	1050	39	25	250	195	265	340	174	146	125	170	199	236
102 (8.5)	ZJ	1065	1060	38	24	247	184	268	360	173	141	117	171	206	253
120 (10)	ZJ	1075	1070	39	24	245	191	278	357	170	143	122	178	209	248
150 (12.5)	ZJ	1285	1280	48	24	240	281	410	350	156	173	192	280	252	227

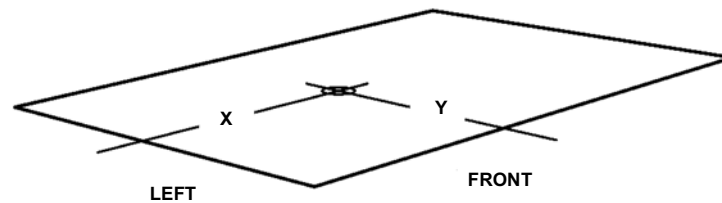
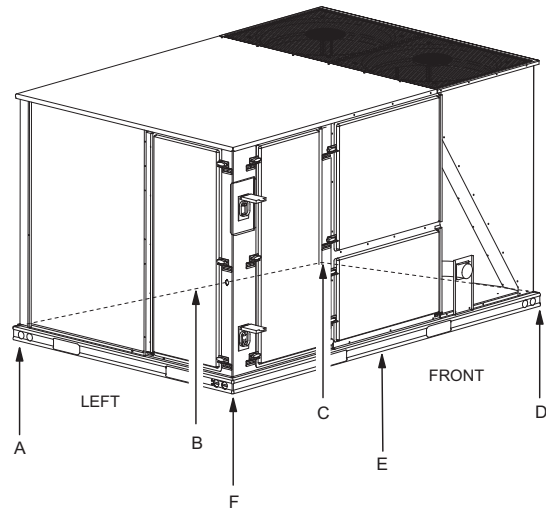
Weights and Dimensions

ZR037-150 Unit Weights

Unit 4 Point Load Weight



Unit 6 Point Load Weight



Size (Tons)	Model	Weight (lbs.)		Center of Gravity		4 Point Load Location (lbs.)				6 Point Load Location (lbs.)					
		Shipping	Operating	X	Y	A	B	C	D	A	B	C	D	E	F
037 (3)	ZR	872	867	40.3	25.5	205	170	223	269	141	124	110	144	163	185
049 (4)	ZR	885	880	40.9	25.1	202	172	232	273	139	124	112	151	168	187
061 (5)	ZR	872	867	41	25	198	169	230	269	136	122	110	150	166	184
078 (6.5)	ZR	962	957	38	23	214	159	249	335	150	122	101	159	191	234
090 (7.5)	ZR	970	965	38	23	216	161	251	337	151	123	102	160	193	236
102 (8.5)	ZR	1205	1200	38	25.5	297	221	291	390	208	170	141	185	223	274
120 (10)	ZR	1205	1200	38	25.5	297	221	291	390	208	170	141	185	223	274
150 (12.5)	ZR	1470	1465	51	25.5	270	363	477	355	172	207	254	334	272	226

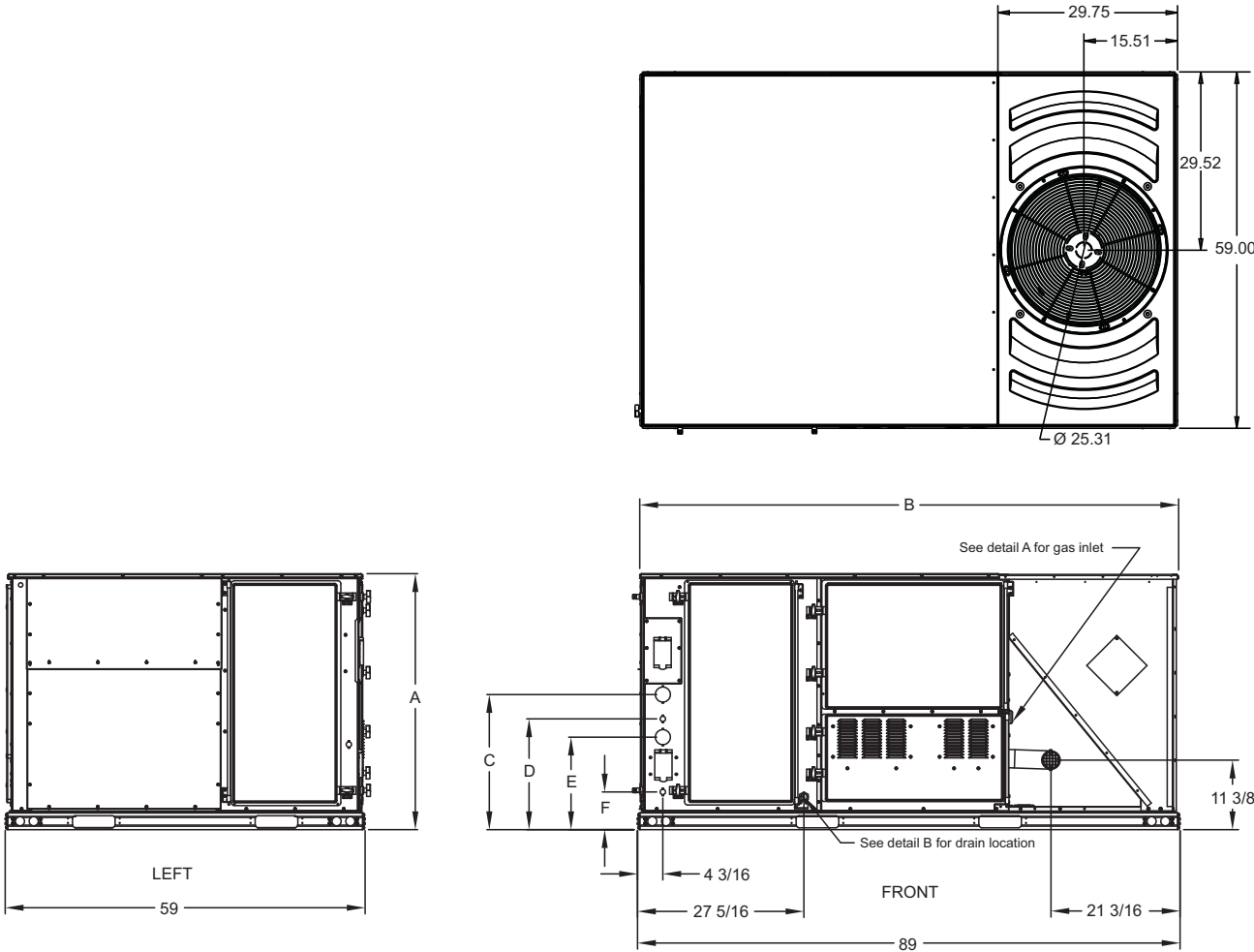
ZH/ZJ/ZR037-150 Unit Accessory Weights

Unit Accessory	Weight (lbs.)	
	Shipping	Operating
Economizer	90	85
Power Exhaust	40	35
Electric Heat ¹	49	49
Gas Heat ²	110	110
Variable Frequency Drive ³	30	30

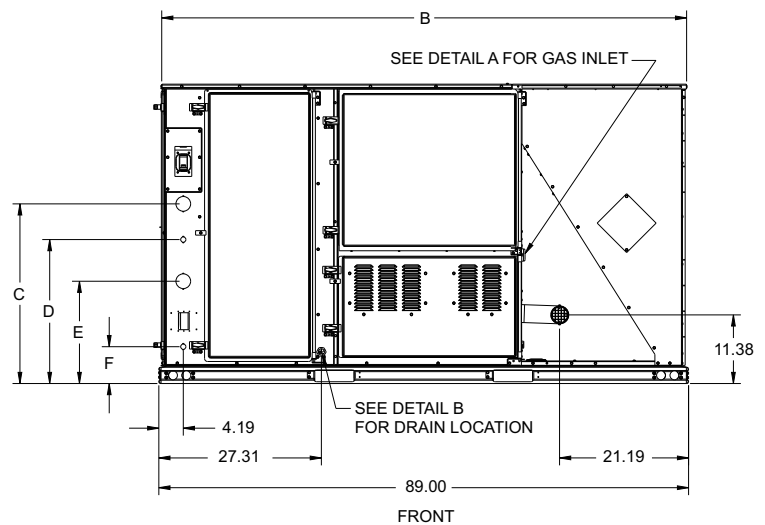
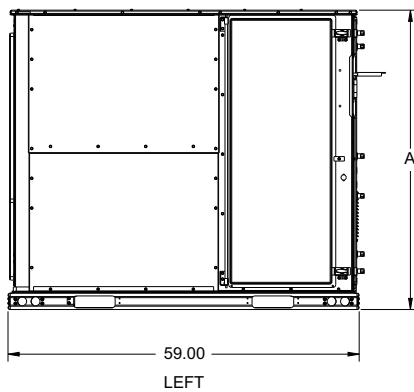
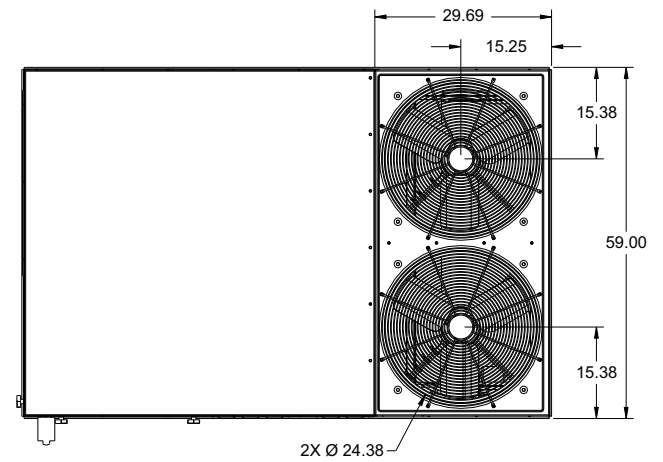
- 1. Weight given is for the maximum heater size available (54KW).
- 2. Weight given is for the maximum number of tube heat exchangers available (8 tube).
- 3. Weight includes mounting hardware, controls and manual bypass option (6-1/2 to 12-1/2 ton only).

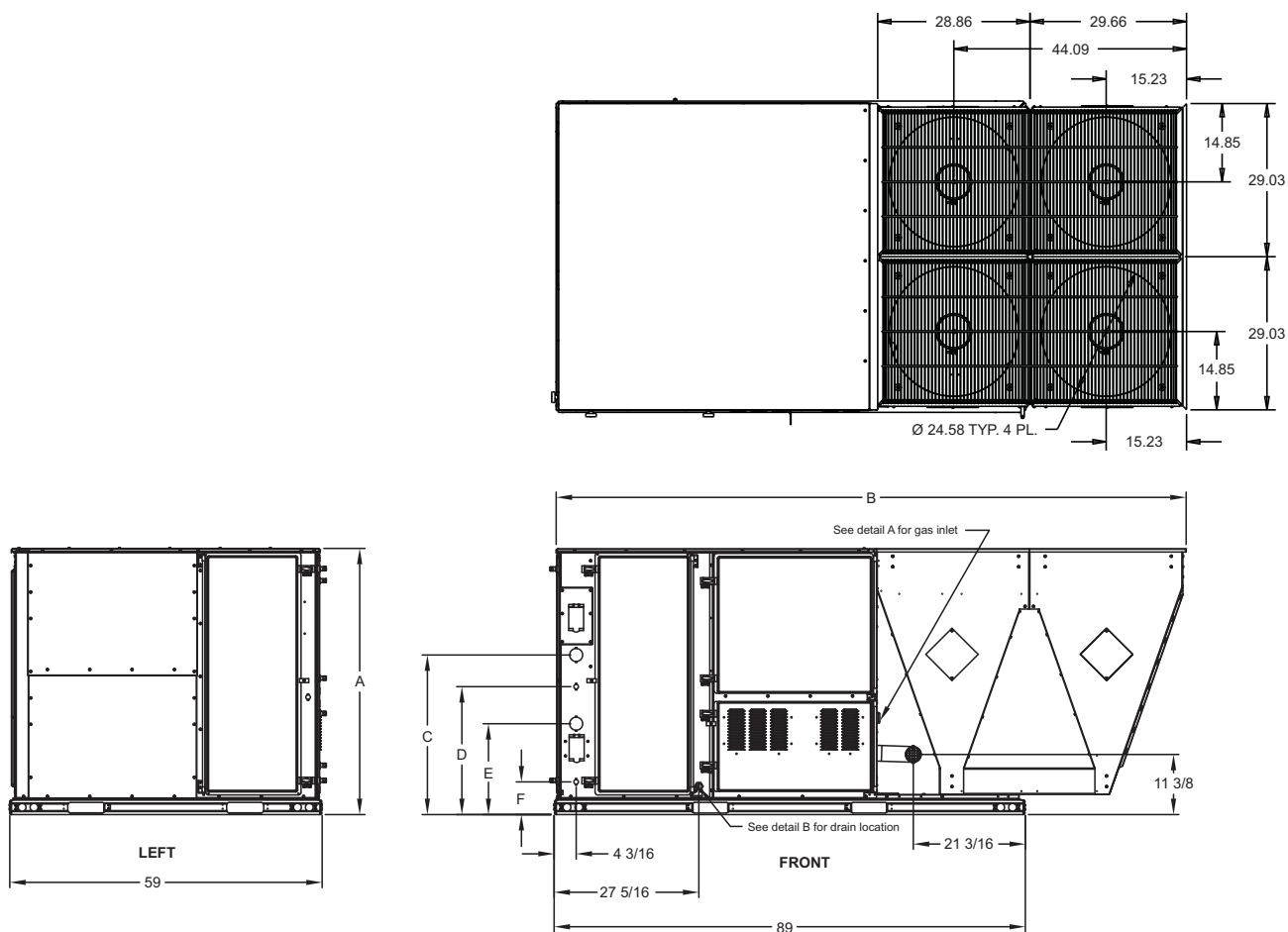
ZH/ZJ/ZR037-150 Unit Dimensions

ZH/ZJ037-049 and ZR037



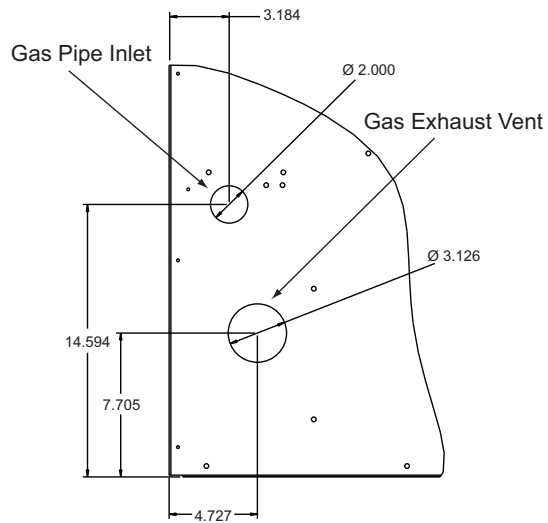
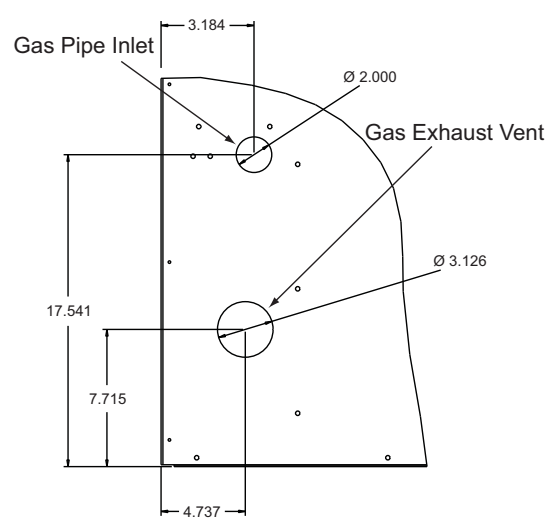
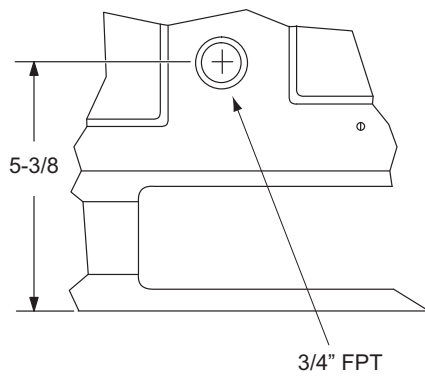
ZH/ZJ 061, ZR049 - 061 and ZH/ZJ/ZR078 thru 120





ZH/ZJ/ZR037-150 Unit Physical Dimensions

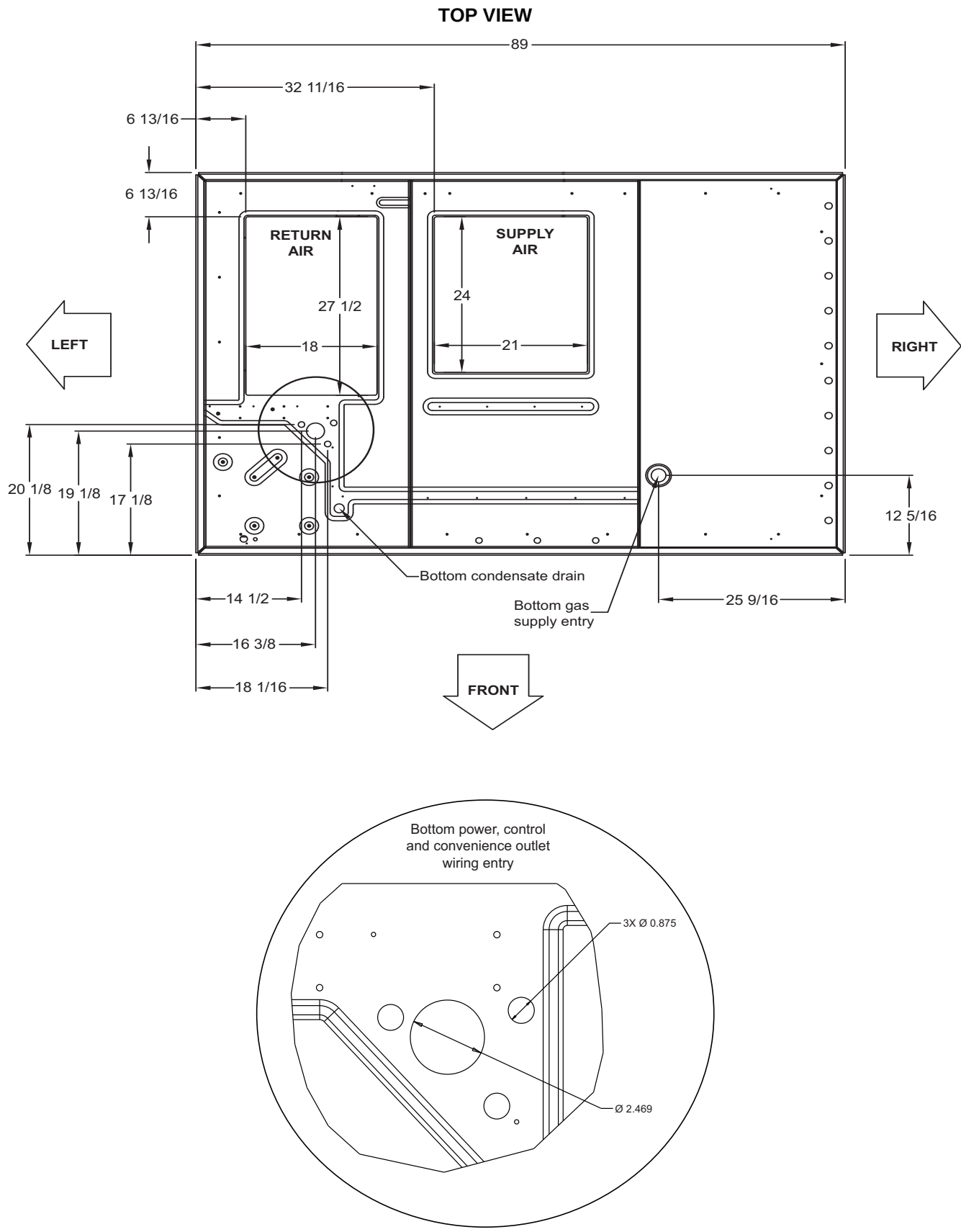
Unit Model Number	Dimension (in.)					
	A	B	C	D	E	F
ZH037, 049, 061, 078, 090	42	89	22 1/8	18 3/16	15 3/16	6 3/16
ZH102, 120	50 3/4	89	30 3/16	24 3/16	17 3/16	6 3/16
ZH150	50 3/4	119 1/2	30 3/16	24 3/16	17 3/16	6 3/16
ZJ037, 049, 061	42	89	22 1/8	18 3/16	15 3/16	6 3/16
ZJ078, 090, 102, 120	50 3/4	89	30 3/16	24 3/16	17 3/16	6 3/16
ZJ150	50 3/4	119 1/2	30 3/16	24 3/16	17 3/16	6 3/16
ZR037, 049, 061	42	89	22 1/8	18 3/16	15 3/16	6 3/16
ZR078, 090	42	89	22 1/8	18 3/16	15 3/16	6 3/16
ZR102, 120	50 3/4	89	30 3/16	24 3/16	17 3/16	6 3/16
ZR150	50 3/4	119 1/2	30 3/16	24 3/16	17 3/16	6 3/16

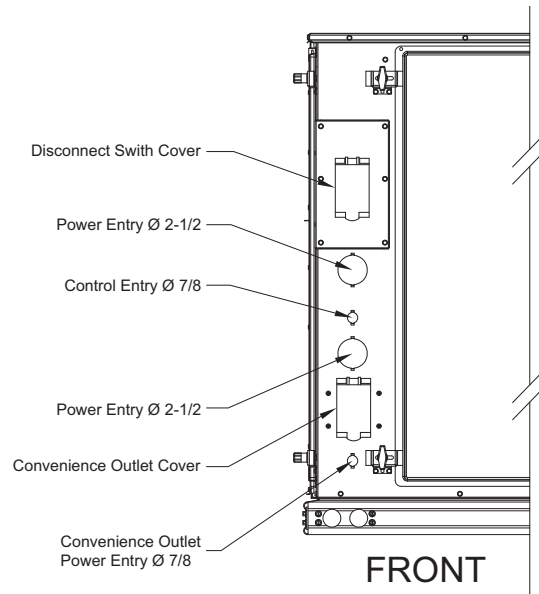
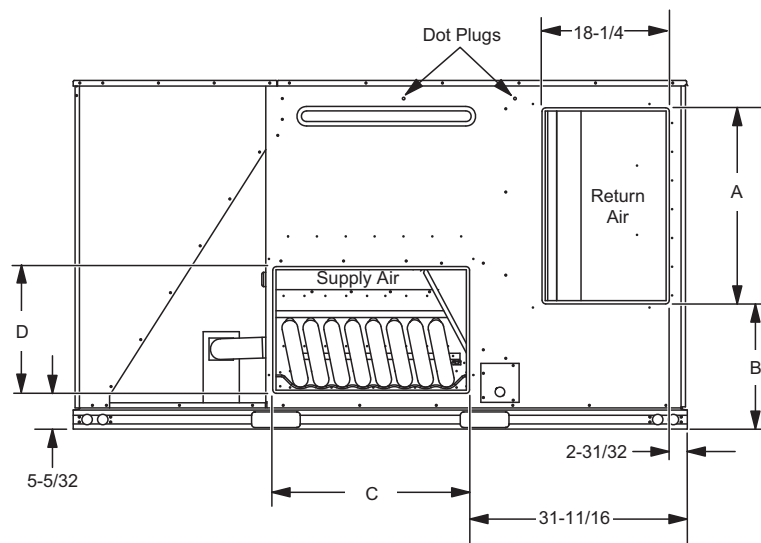
Detail A**42" CABINET****50 3/4" CABINET****Detail B****ZH/ZJ/ZR037-150 Unit Clearances**

Direction	Distance (in.)	Direction	Distance (in.)
Top ¹	72	Right	12
Front	36	Left	36
Rear	36	Bottom ²	0

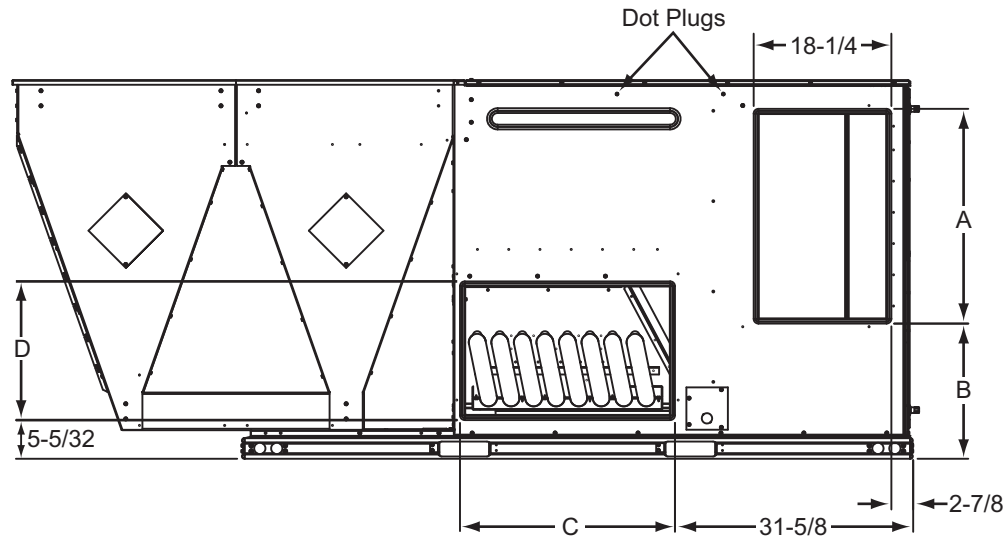
1. Units must be installed outdoors. Over hanging structure or shrubs should not obscure condenser air discharge outlet.
2. Units may be installed on combustible floors made from wood or class A, B or C roof covering materials.

ZH/ZJ/ZR037-150 Unit Bottom Duct Openings



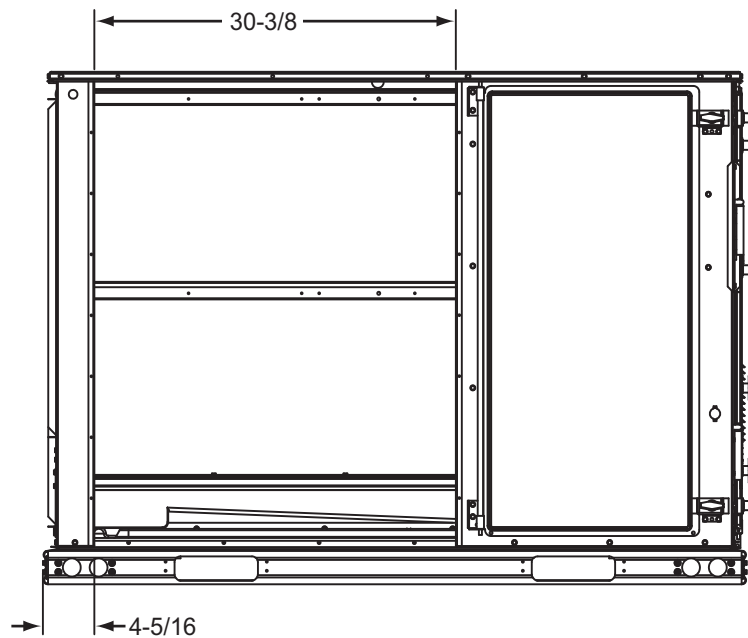
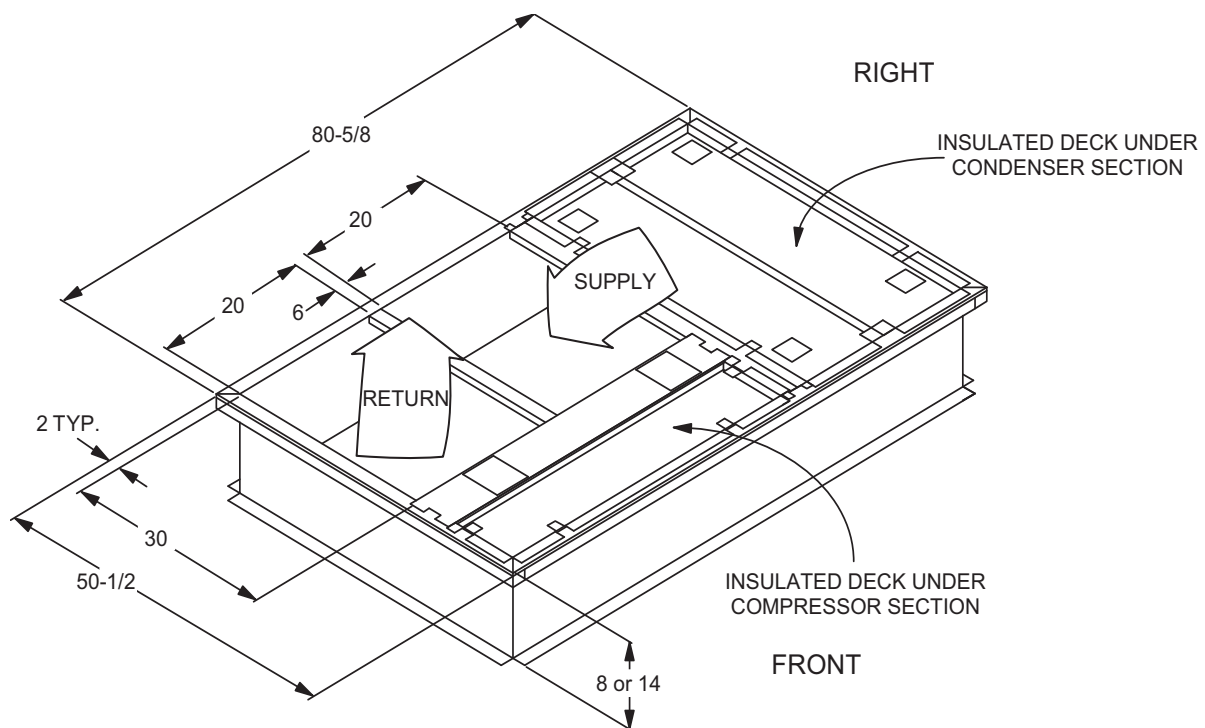
ZH/ZJ/ZR037-150 Unit Electrical Entry**ZH/ZJ/ZR037-120 Unit Side Duct Openings**

ZH/ZJ/ZR150 Unit Side Duct Openings

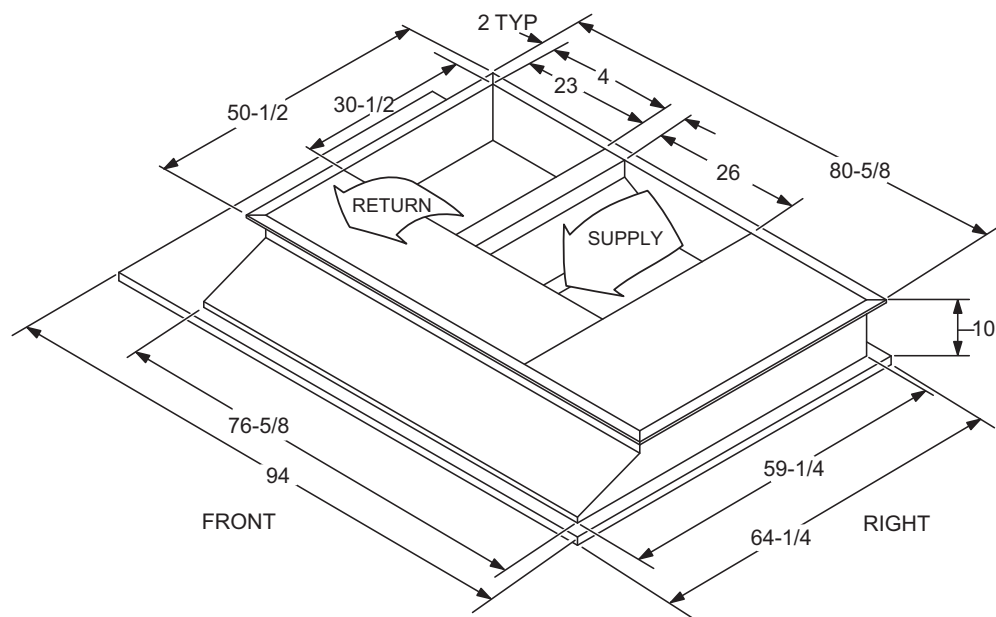


ZH/ZJ/ZR037-150 Side Duct Dimensions

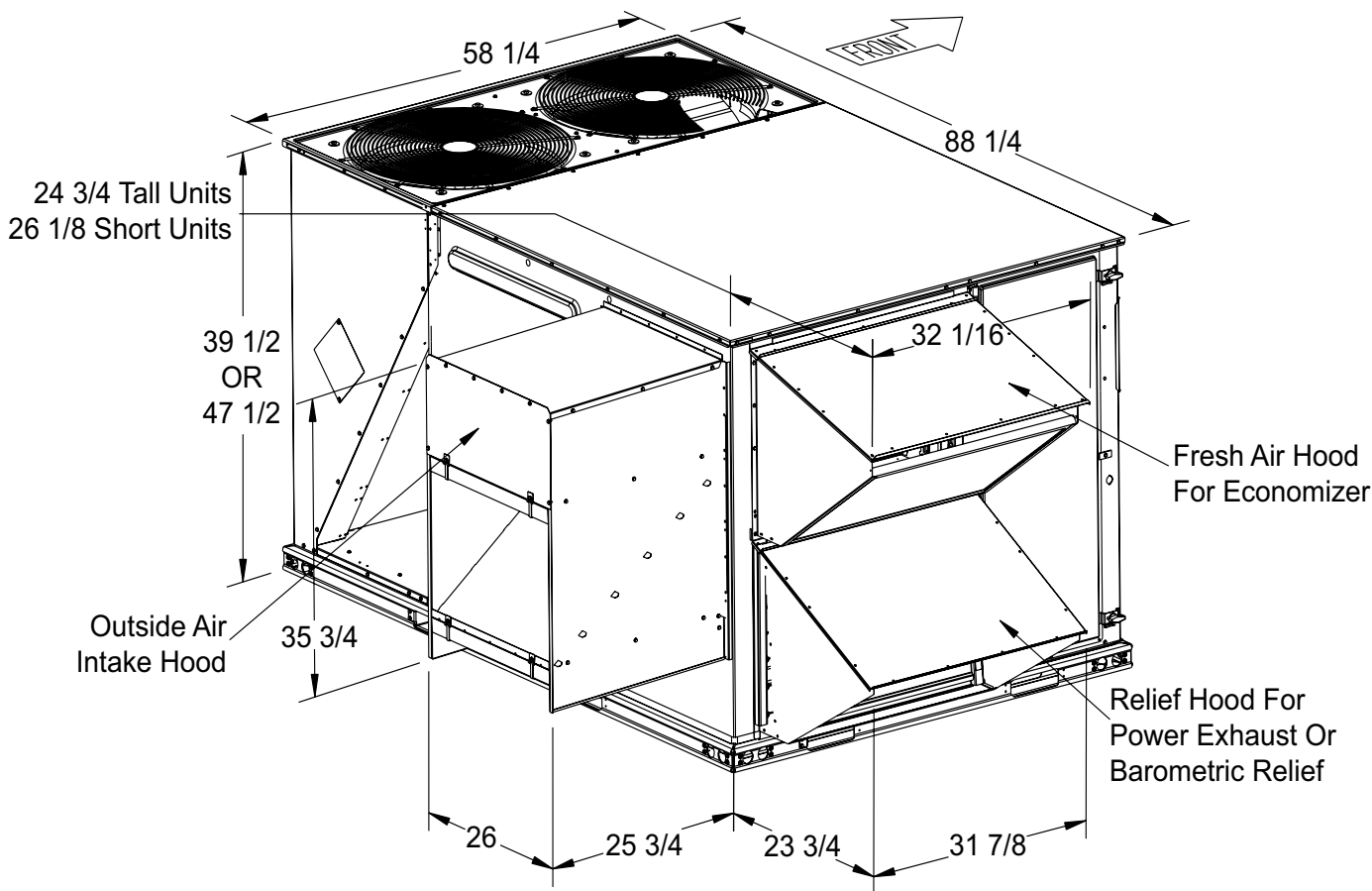
Unit Model Number	Dimension (in.)			
	A	B	C	D
ZH037, 049, 061, 078, 090	27 3/4	12 1/16	27 1/2	16
ZH102, 120	28 1/4	18 1/16	28 1/4	18 1/4
ZH150	28 1/4	18 1/16	28 1/4	18 1/4
ZJ037, 049, 061	27 3/4	12 1/16	27 1/2	16
ZJ078, 090, 102, 120	28 1/4	18 1/16	28 1/4	18 1/4
ZJ150	28 1/4	18 1/16	28 1/4	18 1/4
ZR037, 049, 061	27 3/4	12 1/16	27 1/2	16
ZR078, 090	27 3/4	12 1/16	27 1/2	16
ZR102, 120	28 1/4	18 1/16	28 1/4	18 1/4
ZR150	28 1/4	18 1/16	28 1/4	18 1/4

ZH/ZJ/ZR037-150 Unit Left Duct Opening**ZH/ZJ/ZR037-150 Unit Accessory Dimensions****ZH/ZJ/ZR037-150 Roof Curb**

ZH/ZJ/ZR037-150 Transition Roof Curb



ZH/ZJ/ZR037-150 Economizer Assembly



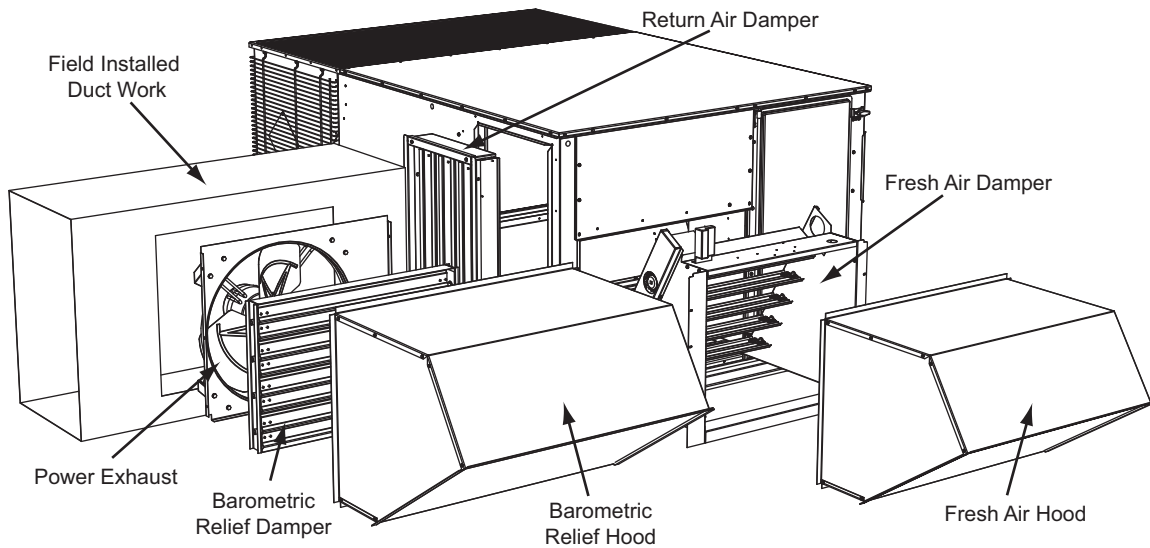
Economizer Options

Economizer Usage

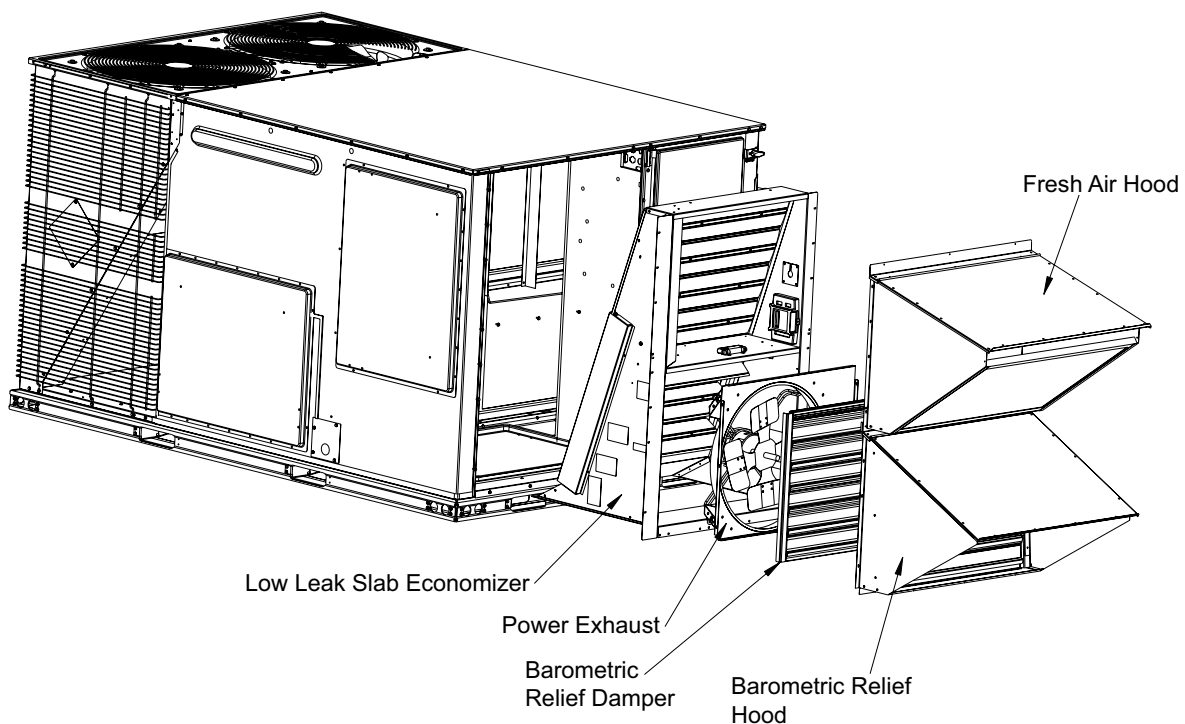
Application	Cabinet Height	Description	Model
Side Return	All	Horizontal economizer without barometric relief	2EE04706024 ¹
ERV or End Return	42"	Slab Economizer, 42" tall cabinet	2EE04707524 ²
	50"	Slab Economizer, 50" tall cabinet	2EE04708324 ²

1. Barometric relief must be ordered separately and installed in duct work.
2. Barometric relief or fresh air hood not included. Must be ordered separately.

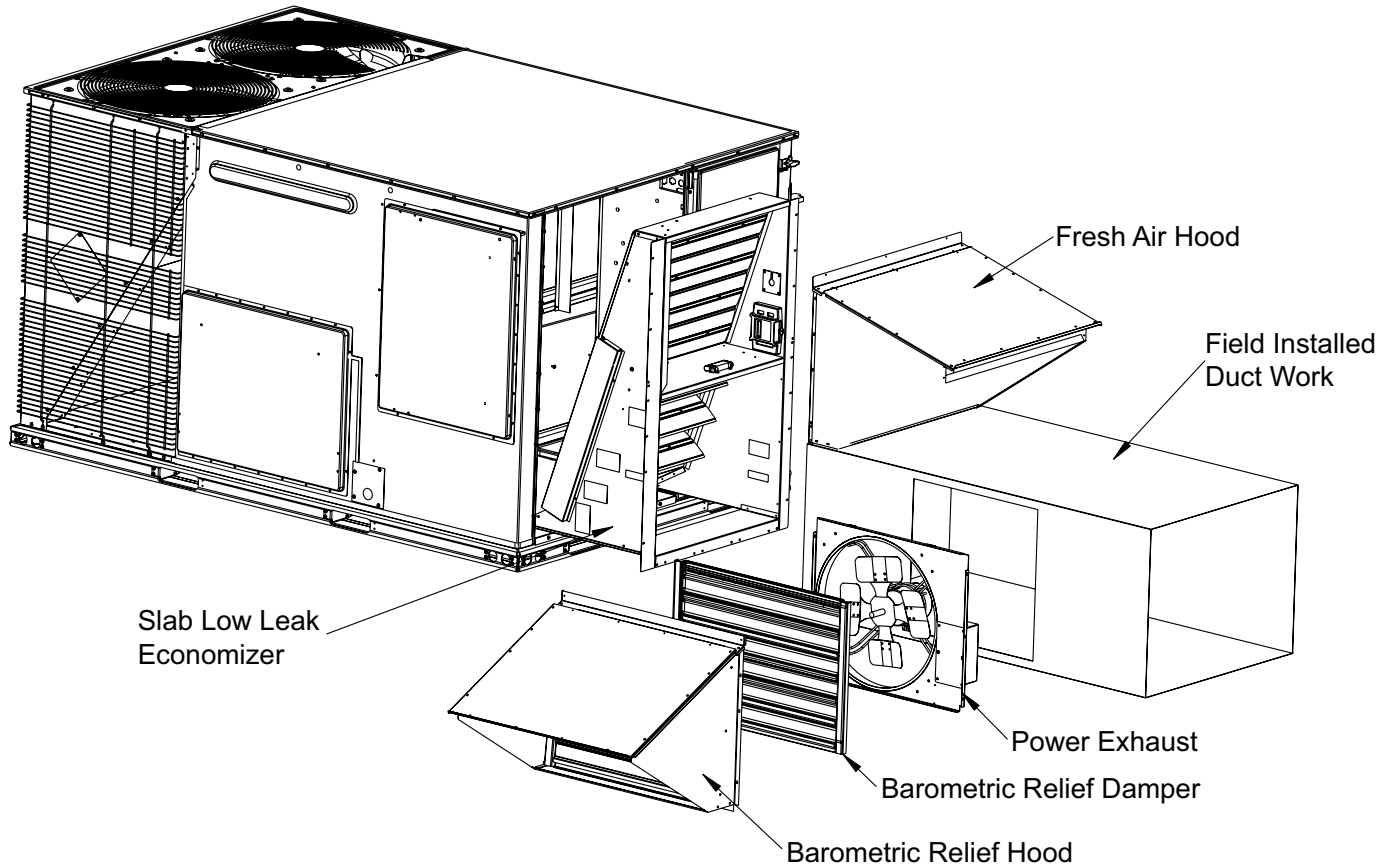
Field Installed Horizontal Economizer W/Power Exhaust



Slab Economizer Downflow W/Power Exhaust



Slab Economizer End Return W/Power Exhaust



Subject to change without notice. Printed in U.S.A.
Copyright © 2014 by Johnson Controls, Inc. All rights reserved.

528150-YTG-T-0514
Supersedes: 528150-YTG-S-0414

York International Corporation
5005 York Drive
Norman, OK 73069