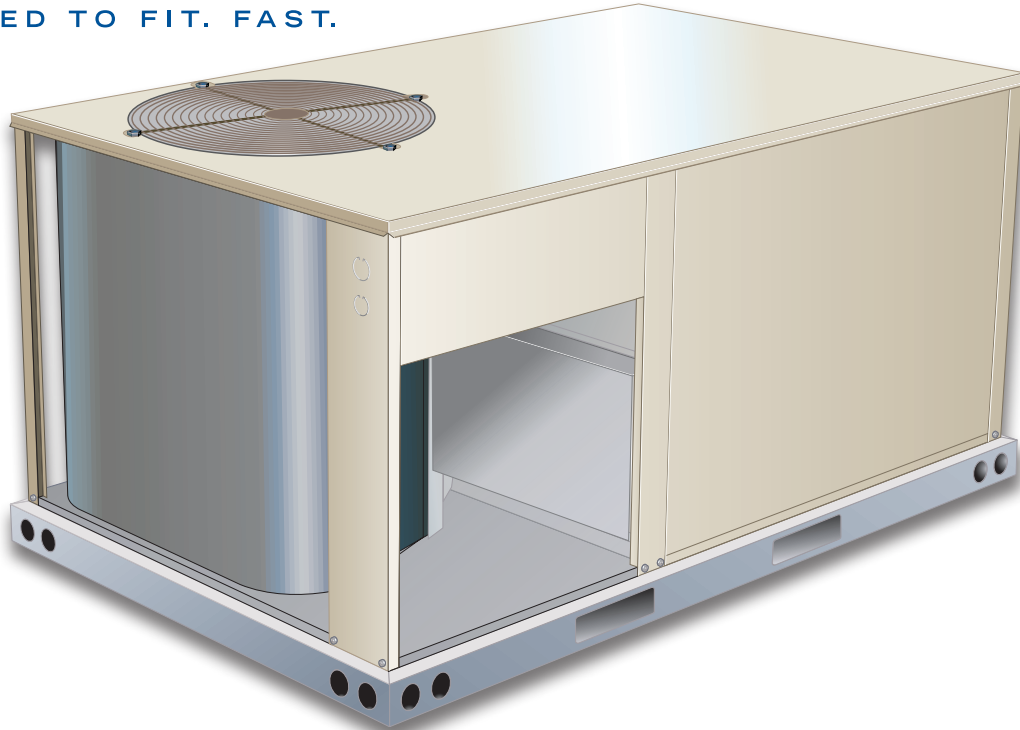


PRODUCT SPECIFICATIONS

Bulletin No. ZCB-036-074 (2/2019)

Z-SERIESTM

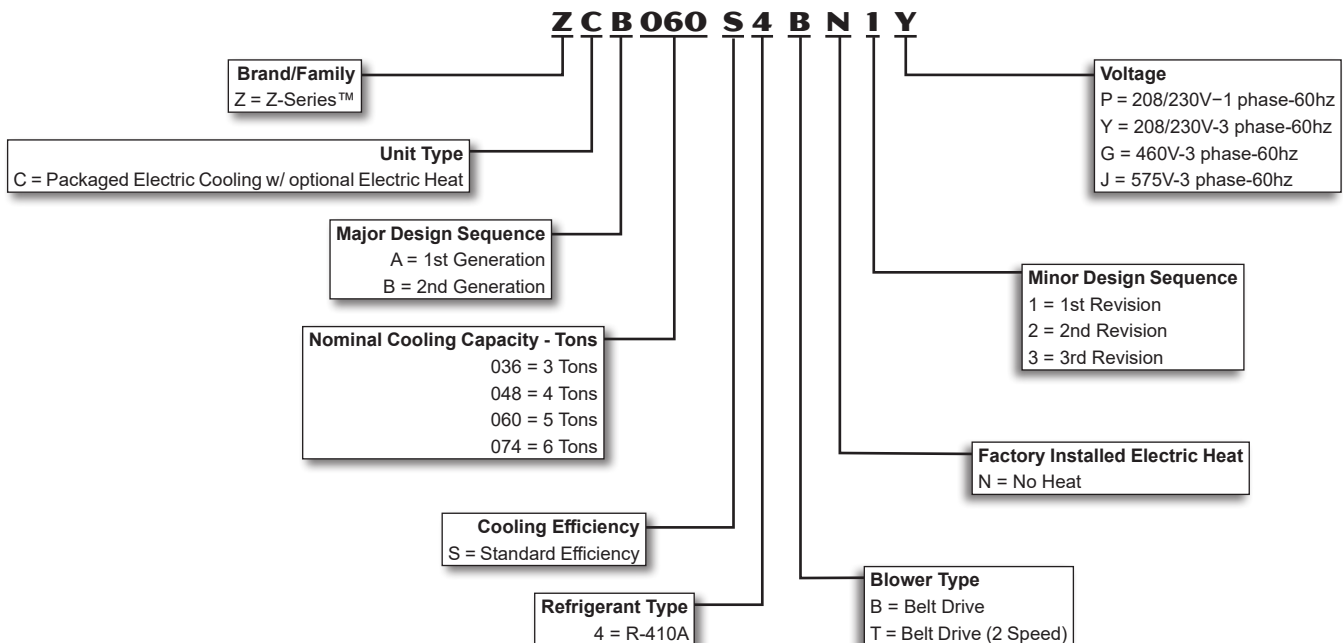
DESIGNED TO FIT. FAST.

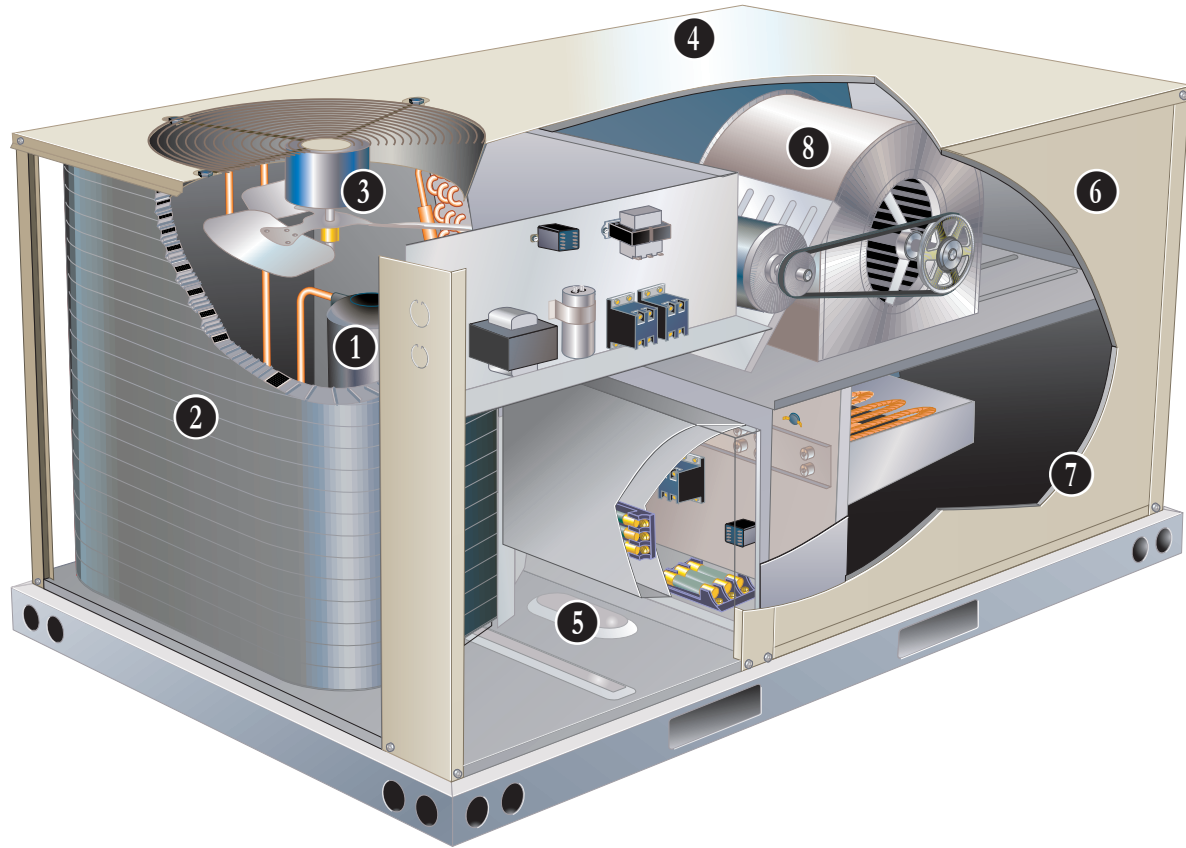


**ASHRAE 90.1
COMPLIANT**

3 to 6 Tons
Net Cooling Capacity – 34,600 to 68,000 Btuh
Optional Electric Heat - 5 to 30 kW

MODEL NUMBER IDENTIFICATION





Z-Series™ rooftop units from Allied are the new standard for cost efficient, reliable rooftop units built for long-lasting performance that can significantly improve indoor environments.

Z-Series™ rooftop units feature:

- **Quick and Easy Retrofit** - Fast installation for replacement of many existing rooftop units - fits high volume competitor's roof curbs.
- **R-410A Refrigerant** - Environmentally friendly.
- **Single Speed Scroll Compressor** - Furnished on 036 through 060 models.
- **Two-Stage Scroll Compressor** - Furnished on all 074 models. Allows rooftop units to deliver just the necessary amount of cooling needed to meet the space's demand.
- **Eco-Last™ Coil System** - Smaller, lighter condenser coil.
- **High Pressure Switch** - Protects compressor.
- **Belt Drive Blower Motor** - To maximize air performance. Two-Speed belt drive blower on ZCB074 models.
- **Downflow or Horizontal Airflow** - Easy field conversion.
- **Two Fork Lift Slots on Three Sides** - Easy to pick up and transport units from almost any angle.
- **Corrosion-Resistant Drain Pan** - Provides application flexibility, durability, improved serviceability and meets ASHRAE 62.1 requirements for drain pan slope.

FEATURES AND BENEFITS

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APPROVALS

AHRI Certified to AHRI Standard 210/240-2008 (3 - 5 ton models) and AHRI Standard 340/360-2007 (6 ton models).

CSA listed.

Units are Certified by CSA.

Components bonded for grounding to meet safety standards for servicing required by UL, ULC and National and Canadian Electrical Codes.

All models are ASHRAE 90.1 compliant.

All models meet DOE 2018 energy efficiency standards.

ISO 9001 Registered Manufacturing Quality System.

WARRANTY

Limited five years on compressors.

Limited three years on the Eco-Last™ Coil System.

Limited five years optional High Performance Economizers.

Limited one year all other covered components.

COOLING SYSTEM

Designed to maximize sensible and latent cooling performance at design conditions.

System can operate from 35°F to 125°F without any additional controls.

R-410A Refrigerant

Non-chlorine, ozone friendly, R-410A.

Unit is factory pre-charged with refrigerant. See Specifications Table.

1 Single Speed Scroll Compressor (036 through 060 Models)

Resiliently mounted on rubber grommets for quiet operation.

Scroll compressors for high performance, reliability and quiet operation.

Copeland Scroll Ultra Tech™ Two-Stage Compressor (074 Models)

Two-stage scroll compressors for increased part load efficiency, high performance, reliability and quiet operation.

Resiliently mounted on rubber grommets for quiet operation.

Compressor Crankcase Heater

Protects against refrigerant migration that can occur during low ambient operation.

Refrigerant Metering Orifice (036 to 060 Models)

Accurately meters refrigerant in system.

Refrigerant control is accomplished by exact sizing of refrigerant metering orifice.

Thermal Expansion Valve (074 Models)

Assures optimal performance throughout the application range.

Removable element head.

High Pressure Switch

Protects the compressor from overload conditions such as dirty condenser coils, blocked refrigerant flow, or loss of outdoor fan operation.

Automatic reset.

Filter/Drier

High capacity filter/drier protects the system from dirt and moisture.

FEATURES AND BENEFITS

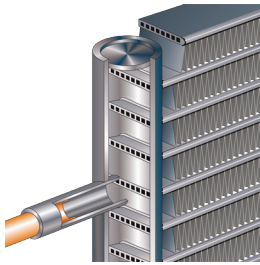
COOLING SYSTEM (continued)

2 Eco-Last™ Coil System

Condenser coil features lightweight, all aluminum brazed fin construction.

Constructed of three components:

a flat extrusion tube, fins in-between the flat extrusion tube and two refrigerant manifolds.



Eco-Last™ Coil System Features:

- Improved heat transfer performance due to high primary surface area (flat tubes) versus secondary surface (fins).
- Smaller internal volume (reduced refrigerant charge).
- High durability (all aluminum construction).
- Fewer brazed joints.
- Compact design (reduces unit weight).
- Easy maintenance/cleaning.

Mounting brackets with rubber inserts secure coil to unit providing vibration dampening and corrosion protection

Evaporator Coil

Copper tube construction, enhanced rippled-edge aluminum fins, flared shoulder tubing connections, silver soldered construction for improved heat transfer. Factory leak tested. Cross row circuiting with rifled tubing optimizes both sensible and latent cooling capacity.

Condensate Drain Pan

Plastic pan, sloped to meet drainage requirements of ASHRAE 62.1.

End drain connection.

3 Outdoor Coil Fan Motor

Thermal overload protected, totally enclosed, permanently lubricated bearings, shaft down, fan guard mount.

Outdoor Coil Fan Guard

PVC coated fan guard furnished.

Required Selections

Cooling Capacity

Specify nominal cooling capacity of the unit.

Options/Accessories

Field Installed

Condensate Drain Trap

Field installed only.

Available in copper or PVC.

Drain Pan Overflow Switch

Monitors condensate level in drain pan, shuts down unit if drain becomes clogged.

Low Ambient Kit

Cycles the outdoor fan while allowing compressor operation in the cooling cycle. This intermittent fan operation allows the system to operate without icing the evaporator coil and losing capacity. Designed for use in ambient temperatures no lower than 0°F. A crankcase heater must be installed on the compressor.

CABINET

4 Construction

Heavy-gauge steel panels and full perimeter heavy-gauge galvanized steel base rail provides structural integrity for transportation, handling, and installation.

Base rails have rigging holes. Three sides of the base rail have fork slots.

Raised edges around duct and power entry openings in the bottom of the unit provide additional protection against water entering the building.

Airflow Choice

Units are shipped in downflow (vertical) configuration, can be field converted to horizontal air flow configuration without the need of a kit.

5 Power Entry

Electrical lines can be brought through the unit base or through horizontal access knock-outs.

Optional Bottom Power Entry Kit is available.

6 Exterior Panels

Constructed of heavy-gauge, galvanized steel with a two-layer enamel paint finish.

7 Insulation

All panels adjacent to conditioned air are fully insulated with non-hygroscopic fiberglass insulation.

Access Panels

Access panels are provided for the compressor, heating, controls, blower and air filter/economizer section.

Options/Accessories

Factory Installed

Corrosion Protection

A completely flexible immersed coating with an electro-deposited dry film process. (AST ElectroFin E-Coat) Meets Mil Spec MIL-P-53084, ASTM B117 Standard Method Salt Spray Testing.

Indoor Corrosion Protection:

- Coated coil

Outdoor Corrosion Protection:

- Coated coil

Field Installed

Coil/Hail Guards

Constructed of heavy gauge steel, painted to match cabinet, helps protect outdoor coil from damage on all three sides of cabinet.

FEATURES AND BENEFITS

CONTROLS

Unit Control

All control voltage is provided via a 24V (secondary) transformer with inline fuse protection.

Heat/Cool Staging

Capable of up to 1 heat / 2 cool staging with a thermostat.

Night Setback Mode

Saves energy by closing outdoor air dampers and operating supply fan on thermostat demand only.

Smoke Detectors

NOTE - Smoke detectors are not available and must be field provided by installer.

8 BLOWER

A wide selection of supply air blower options are available to meet a variety of air flow requirements.

Motor

Overload protected, equipped with ball bearings. Belt drive motors are offered on all models and are available in several different sizes to maximize air performance.

Two-speed belt drive motor (low static/high static) is available on 074 models.

Supply Air Blower

Forward curved blades, blower wheel is statically and dynamically balanced.

Equipped with ball bearings and adjustable pulley (allows speed change).

Required Selections

Supply Air Blower

Order blower motor horsepower and drive kit number required when base unit is ordered, see Drive Kit Specifications Table.

INDOOR AIR QUALITY

Air Filters

Disposable 2 inch filters furnished as standard.

Options/Accessories

Field Installed

Indoor Air Quality (CO₂) Sensor

Monitors CO₂ levels adjusts economizer dampers as needed for Demand Control Ventilation.

ELECTRICAL

Marked & Color-Coded Wiring

All electrical wiring is color-coded and marked to identify which components it is connecting.

Electrical Plugs

Positive connection electrical plugs are used to connect common accessories or maintenance parts for easy removal or installation.

Required Selections

Voltage Choice

Specify when ordering base unit.

Field Installed

Electric Heat

Helix wound nichrome elements, individual element limit controls, wiring harness. See Options / Accessories tables for ordering information.

NOTE - Unit Fuse Block is required and must be ordered separately. See Electrical/Electric Heat tables for ordering information.

ECONOMIZER OPTIONS

Factory or Field Installed

Economizer (Downflow or Horizontal) (Standard and High Performance Common Features)

Outdoor Air Hood is furnished.

Economizer includes Barometric Relief Dampers with Exhaust Hood.

Barometric Relief Dampers allow relief of excess air, aluminum blade dampers prevent blow back and outdoor air infiltration during off cycle, bird screen furnished. Hood is furnished.

Single Sensible Temperature Control is furnished with the economizer

Outdoor air sensor enables Economizer if the outdoor temperature is less than the setpoint of the control.

Demand Control Ventilation (DCV) ready using optional CO₂ sensors.

NOTE - Horizontal Economizer is field installed only.

Standard Economizer Features (Not for Title 24)

Gear-driven action, return air and outdoor air dampers, plug-in connections to unit, neoprene seals, 24-volt, fully-modulating spring return motor.

Standard Economizer Control Module

The Standard Economizer Control Module can be adjusted to operate based on outdoor air temperatures.



Economizer Controls:

- Damper Minimum Position
- Can be set lower than traditional minimum air requirements resulting in cost savings.
- IAQ Sensor - Signals dampers to modulate and maintain 55°F when CO₂ is higher than the CO₂ setpoint.

- Demand Control Ventilation (DCV) LED - A steady green Demand Control Ventilation LED indicates the IAQ reading is higher than setpoint and requires more fresh air.
- Free Cool LED - A steady green LED indicates outdoor air is suitable for free cooling.

Free Cooling runs when outdoor air temperature is lower than the set temperature on the economizer control.

NOTE: The Free Cooling default setting for outdoor air temperature sensor is 55°F.

High Performance Economizer Features

Approved for California Title 24 building standards.

Low leakage dampers are Air Movement and Control Association International (AMCA) Class 1A Certified - Maximum 3 CFM per sq. ft. leakage at 1 in. w.g.

ASHRAE 90.1-2010 compliant.

Gear-driven action, high torque 24-volt fully-modulating spring return damper motor, return air and outdoor air dampers, plug-in connections to unit, nylon bearings, enhanced neoprene blade edge seals and flexible stainless steel jamb seals to minimize air leakage.

NOTE - High Performance Economizers are not approved for use with enthalpy controls in Title 24 applications.

High Performance Economizer Control Module

Module provides inputs and outputs to control economizer based on parameter settings.



Module automatically detects sensors by polling to determine which sensors are installed in system.

Module displays any alarm messages (fault detection and diagnostics) as an aid in troubleshooting.

Non-volatile memory retains parameter settings in case of power failure.

Keypad with four navigation buttons and LCD screen is furnished for setting economizer parameters.

- Menu Up/Exit (↑) button returns to the main menu.
- Arrow Up (▲) button moves to the previous or next parameter within the selected menu.
- Arrow Down (▼) button moves to the next parameter within the selected menu.
- Select (enter) (↵) button confirms parameter selection.

Main Menu Structure:

- STATUS (economizer and system operation status)
- SETPOINTS (settings for various setpoint parameters)
- SYSTEM SETUP (settings/information about the system)
- ADVANCED SETUP (freeze protection, CO₂ settings, stage 3 delay and additional calibration settings)
- CHECKOUT (damper positions)
- ALARMS (output signal that can be configured for remote alarm monitoring)

NOTE - The Free Cooling setpoint for Title 24 applications must be set based on the Climate Zone where the system is installed. See Section 140.4 "Prescriptive Requirements for Space Conditioning Systems" of the California Energy Commission's 2013 Building Energy Efficiency Standards.

Refer to Installation Instructions for complete setup information and menu parameters available.

Field Installed

Single Enthalpy Temperature Control (Not for Title 24)

Outdoor air enthalpy sensor enables Economizer if the outdoor enthalpy is less than the setpoint of the control.

OPTIONS / ACCESSORIES

EXHAUST OPTIONS

Field Installed

Power Exhaust Fan - Downflow or Horizontal

Installs external to unit for applications with Economizer option. Provides exhaust air pressure relief. Interlocked to run when supply air blower is operating, fan runs when outdoor air dampers are 50% open (adjustable), motor is overload protected.

Fan is 12 in. diameter with 5 fan blades. 1/2 hp motor.

OUTDOOR AIR OPTIONS

Field Installed

Outdoor Air Dampers - Downflow

Single blade damper, 0 to 25% (fixed) outdoor air adjustable, installs in unit.

Automatic model features fully modulating spring return damper motor with plug-in connection.

Manual model features a slide damper. Maximum mixed air temperature in cooling mode: 100°F.

ROOF CURBS

Hybrid Roof Curbs, Downflow

Nailer strip furnished, mates to unit, US National Roofing Contractors Approved, shipped knocked down.

Roof curb can be assembled using interlocking tabs to fasten corners together. No tools required.

Curb can also be fastened together with furnished hardware.

Available in 8, 14, 18, and 24 inch heights.

Adaptor Curbs (not shown)

Curbs are regionally sourced. Dimensions will vary based upon the source. Contact your local sales representative for a detailed cut sheet with applicable dimensions.

CEILING DIFFUSERS

Ceiling Diffusers (Flush and Step-Down)

Diffuser face and grilles with white powder coat finish, insulated (UL listed duct liner), diffuser box with collars for duct connection, fixed blades (flush diffusers) and double deflection blades (step-down diffusers), provisions for suspending, internally sealed (prevents recirculation), removable return air grille, adapts to T-bar ceiling grids or plaster ceilings.

Transitions (Supply and Return)

NOTE - Ceiling Diffuser Transitions are not furnished and must be field fabricated.

OPTIONS / ACCESSORIES

Item			Catalog No.	Unit Model No.			
				ZCB 036	ZCB 048	ZCB 060	ZCB 074
COOLING SYSTEM							
Condensate Drain Trap	PVC - C1TRAP20AD2	76W26	X	X	X	X	
	Copper - C1TRAP10AD2	76W27	X	X	X	X	
Drain Pan Overflow Switch	Z1SNSR90A1	99W59	X	X	X	X	
Low Ambient Kit	Z1SNSR33A-1	99W67	X	X	X	X	
BLOWER - SUPPLY AIR							
Motors	Belt Drive - 0.75 hp (208/230V-1ph) Standard Efficiency	Factory	O	O	O		
	Belt Drive - 1 hp (208/230V, 460V, 575V-3ph) Standard Efficiency	Factory	O	O	O		
	Belt Drive - 1.5 hp (208/230V-1ph or 3 ph, 460V, 575V-3ph) Standard Efficiency	Factory	O	O	O	³ O	
	Belt Drive - 2 hp (208/230V, 460V, 575V-3ph) Standard Efficiency	Factory				³ O	
	Belt Drive - 2 hp (208/230V, 460V, 575V-3ph) (2 Speed)	Factory				⁴ O	
Drive Kits See Blower Data Tables for selection	Kit #ZA01 - 678-1035 rpm	Factory	O				
	Kit #ZA02 - 803-1226 rpm	Factory		O			
	Kit #ZA03 - 906-1383 rpm	Factory			O		
	Kit #ZA04 - 964-1471 rpm	Factory	O				
	¹ Kit #ZA05 -1098-1490 rpm	Factory		O			
	¹ Kit #ZA06 - 1262-1634 rpm	Factory			O		
	Kit #ZAA02 - 632-875 rpm	Factory				O	
	Kit #ZAA03 - 798-1105 rpm	Factory				O	
² Kit #ZAA04 - 921-1226 rpm	Factory				O		
CABINET							
Coil/Hail Guards	Z1GARD52A-1	12X19	X	X			
	Z1GARD52AT1	12X20			X	X	
Corrosion Protection		Factory	O	O	O	O	
ELECTRICAL							
Voltage 60 hz	208/230V - 1 phase	Factory	O	O	O		
	208/230V - 3 phase	Factory	O	O	O	O	
	460V - 3 phase	Factory	O	O	O	O	
	575V - 3 phase	Factory	O	O	O	O	
Bottom Power Entry Kit	Z1PEKT01A-1	98W08	X	X	X	X	

¹ 1.5 hp blower motor is required with the ZA05 and ZA06 drive kits.

² 2 hp blower motor is required with the ZAA04 drive kit.

³ 074S4B models only.

⁴ 074S4T models only.

NOTE - The catalog and model numbers that appear here are for ordering field installed accessories only.

OX - Field Installed or Configure to Order (factory installed)

O - Configure to Order (Factory Installed)

X - Field Installed.

OPTIONS / ACCESSORIES

Item		Catalog No.	Unit Model No.			
			ZCB 036	ZCB 048	ZCB 060	ZCB 074
ELECTRIC HEAT						
5 kW	208/230V-1ph - Z1EH0050AN1P	98W96	X	X	X	
	208/230V-3ph - Z1EH0050AN1Y	99W01	X	X	X	
	460V-3ph - Z1EH0050AN1G	99W06	X	X	X	
	575V-3ph - Z1EH0050AN1J	99W11	X	X	X	
7.5 kW	208/230V-1ph - Z1EH0075AN1P	98W97	X	X	X	
	208/230V-3ph - Z1EH0075AN1Y	99W02	X	X	X	X
	460V-3ph - Z1EH0075AN1G	99W07	X	X	X	X
	575V-3ph - Z1EH0075AN1J	99W12	X	X	X	X
10 kW	208/230V-1ph - Z1EH0100AN1P	98W98	X	X	X	
	208/230V-3ph - Z1EH0100AN1Y	99W03	X	X	X	X
	460V-3ph - Z1EH0100AN1G	99W08	X	X	X	X
	575V-3ph - Z1EH0100AN1J	99W13	X	X	X	X
15 kW	208/230V-1ph - Z1EH0150AN1P	98W99	X	X	X	
	208/230V-3ph - Z1EH0150AN1Y	99W04	X	X	X	X
	460V-3ph - Z1EH0150AN1G	99W09	X	X	X	X
	575V-3ph - Z1EH0150AN1J	99W14	X	X	X	X
22.5 kW	208/230V-1ph - Z1EH0225AN1P	99W00		X	X	
	208/230V-3ph - Z1EH0225AN1Y	99W05		X	X	X
	460V-3ph - Z1EH0225AN1G	99W10		X	X	X
	575V-3ph - Z1EH0225AN1J	99W15		X	X	X
30 kW	208/230V-3ph - Z1EH0300AN1Y	13U01				X
	460V-3ph - Z1EH0300AN1G	13U02				X
	575V-3ph - Z1EH0300AN1J	13U03				X

ELECTRIC HEAT ACCESSORIES

Unit Fuse Block (required) - See Electrical/Electric Heat Tables for Selection	X	X	X	X
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NOTE - The catalog and model numbers that appear here are for ordering field installed accessories only.

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O - Configure to Order (Factory Installed)

X - Field Installed.

OPTIONS / ACCESSORIES

Item		Catalog No.	Unit Model No.			
			ZCB 036	ZCB 048	ZCB 060	ZCB 074
ECONOMIZER						
Standard Economizer With Outdoor Air Hood (Not for Title 24)						
Standard Economizer (Downflow) Includes Barometric Relief Dampers and Exhaust Hood	Z1ECON30A-2	14D94	OX	OX	OX	OX
Standard Economizer (Horizontal) Includes Barometric Relief Dampers and Exhaust Hood	Z1ECON16A-2	14D92	X	X	X	X
Standard Economizer Controls (Not for Title 24)						
Single Enthalpy Control	C1SNSR64FF1	53W64	X	X	X	X
High Performance Economizer With Outdoor Air Hood (Approved for California Title 24 Building Standards / AMCA Class 1A Certified)						
High Performance Economizer (Downflow) Includes Barometric Relief Dampers and Exhaust Hood	Z1ECON32A-2	14D95	OX	OX	OX	OX
High Performance Economizer (Horizontal) Includes Barometric Relief Dampers and Exhaust Hood	Z1ECON33A-2	14D93	X	X	X	X
High Performance Economizer Controls (Not for Title 24)						
Single Enthalpy Control	C1SNSR61FF1	11G21	X	X	X	X
OUTDOOR AIR						
Outdoor Air Dampers With Outdoor Air Hood						
Motorized	Z1DAMP21A-2	15D19	X	X	X	X
Manual	Z1DAMP11A-2	15D20	X	X	X	X
POWER EXHAUST FAN						
Standard Static (Downflow)	208/230V-1 or 3ph - Z1PWRE10A-1P	21E01	X	X	X	X
	460V-3ph - Z1PWRE10A-1G	23E01	X	X	X	X
Standard Static (Horizontal)	208/230V-1 or 3ph - Z1PWRE15A-1P	24E01	X	X	X	X
	460V-3ph - Z1PWRE15A-1G	28E01	X	X	X	X
575V Transformer Kit	575V-3ph - Z1TRFM20A-1J	59E02	X	X	X	X
INDOOR AIR QUALITY						
Indoor Air Quality (Co ₂) Sensors						
Sensor - Wall-mount, off-white plastic cover with LCD display	C0SNSR50AE1L	77N39	X	X	X	X
Sensor - Wall-mount, black plastic case, no display, rated for plenum mounting	C0SNSR53AE1L	87N54	X	X	X	X
CO ₂ Sensor Duct Mounting Kit - for downflow applications	C0MISC19AE1	85L43	X	X	X	X
Aspiration Box - for duct mounting non-plenum rated CO ₂ sensor (77N39)	C0MISC16AE1	90N43	X	X	X	X
ROOF CURBS						
Hybrid Roof Curbs, Downflow						
8 in. height	Z1CURB70A-1	11F76	X	X	X	X
14 in. height	Z1CURB71A-1	11F77	X	X	X	X
18 in. height	Z1CURB72A-1	11F78	X	X	X	X
24 in. height	Z1CURB73A-1	11F79	X	X	X	X
CEILING DIFFUSERS						
Step-Down - Order one	RTD9-65S	13K60	X	X	X	
	RTD11-95S	13K61				X
Flush - Order one	FD9-65S	13K55	X	X	X	
	FD11-95S	13K56				X

NOTE - Ceiling Diffuser Transitions are not furnished and must be field fabricated.

NOTE - Order 575V Transformer Kit with 208/230V Power Exhaust Fan for 575V applications.

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O - Configure to Order (Factory Installed)

X - Field Installed.

SPECIFICATIONS

General Data		Nominal Tonnage	3 Ton	4 Ton	5 Ton
		Model No.	ZCB036S4B	ZCB048S4B	ZCB060S4B
		Efficiency Type	Standard	Standard	Standard
		Blower Type	Single Speed Belt Drive	Single Speed Belt Drive	Single Speed Belt Drive
Cooling Performance	Gross Cooling Capacity - Btuh		36,200	46,700	58,300
	¹ Net Cooling Capacity - Btuh		35,000	45,500	57,000
	AHRI Rated Air Flow - cfm		1190	1380	1725
	² Sound Rating Number (SRN) (dBA)		78	80	78
	Total Unit Power - kW		3.0	4.1	5.1
	¹ SEER (Btuh/Watt)		14.00	14.00	14.00
		¹ EER (Btuh/Watt)	11.70	11.00	11.00
AHRI Reference No.	208/230V-1 ph		N/A	N/A	N/A
	208/230V-3 ph		N/A	N/A	N/A
	460V-3 ph		N/A	N/A	N/A
	575V-3 ph		N/A	N/A	N/A
Refrigerant	Type		R-410A	R-410A	R-410A
	Charge Furnished		5 lbs. 2 oz.	5 lbs. 4 oz.	7 lbs. 5 oz.
Electric Heat Available - page 27			5, 7.5, 10, 15 kW	5, 7.5, 10, 15, 22.5 kW	
Compressor Type (one per unit)			Scroll	Scroll	Scroll
Outdoor Coil	Net face area - sq. ft.		15.2	15.2	19.9
	Number of rows		1	1	1
	Fins / inch		23	23	23
Outdoor Coil Fan	Motor HP		(1) 1/4	(1) 1/4	(1) 1/4
	Motor rpm		825	825	825
	Total motor watts		315	315	315
	Diameter (No.) - in.		(1) 22	(1) 22	(1) 22
	Number of blades		4	4	4
	Total air volume - cfm		3700	3700	3700
Indoor Coil	Net face area - sq. ft.		8.4	8.4	10.8
	Tube diameter - in.		3/8	3/8	3/8
	Number of rows		3	3	3
	Fins per inch		14	14	14
	Drain Connection (no. and size) - in.		(1) 1 NPT	(1) 1 NPT	(1) 1 NPT
	Expansion device type		Fixed Orifice	Fixed Orifice	Fixed Orifice
³ Indoor Blower & Drive Selection	Nominal Motor HP		⁴ 0.75 hp, ⁵ 1 hp, 1.5 hp	⁴ 0.75 hp, ⁵ 1 hp, 1.5 hp	⁴ 0.75 hp, ⁵ 1 hp, 1.5 hp
	Maximum Usable Motor HP		0.86 hp, 1.15 hp, 1.7 hp	0.86 hp, 1.15 hp, 1.7 hp	0.86 hp, 1.15 hp, 1.7 hp
	Available Drive Kits		Kit #ZA01 678-1035 rpm Kit #ZA04 964-1471 rpm	Kit #ZA02 803-1226 rpm ⁶ Kit #ZA05 1098-1490 rpm	Kit #ZA03 906-1383 rpm ⁶ Kit #ZA06 1262-1634 rpm
	Wheel nominal diameter x width - in.		10 x 10	10 x 10	10 x 10
Filters	Type		Disposable		
	Number and size - in.		(4) 14 x 20 x 2		(2) 16 x 20 x 2 (2) 20 x 20 x 2
Electrical Characteristics - 60 Hz			208/230V 1 phase 208/230V, 460V & 575V 3 phase	208/230V, 1 phase 208/230V 460V & 575V 3 phase	208/230V, 1 phase 208/230V 460V & 575V 3 phase

NOTE - Net capacity includes evaporator blower motor heat deduction. Gross capacity does not include evaporator blower motor heat deduction.

¹ AHRI Certified to AHRI Standard 210/240: 95°F outdoor air temperature and 80°F db/67°F wb entering evaporator air; minimum external duct static pressure.

² Sound Rating Number (SRN) rated in accordance with test conditions included in ANSI/AHRI Standard 270-2008.

³ Using total air volume and system static pressure requirements determine from blower performance tables rpm and motor hp required. Maximum usable hp of motors furnished are shown. In Canada, nominal motor hp is also maximum usable motor hp output. If motors of comparable hp are used, be sure to keep within the service factor limitations outlined on the motor nameplate.

⁴ 0.75 hp motor is only available for 208/230V-1ph applications.

⁵ 1 hp blower motor is not available for 208/230V-1ph applications.

⁶ 1.5 hp motor is required with the ZA05 and ZA06 drive kits.

SPECIFICATIONS

General Data		Nominal Tonnage	6 Ton	6 Ton
		Model No.	ZCB074S4B	ZCB074S4T
		Efficiency Type	Standard	Standard
		Blower Type	Single Speed Belt Drive	Two Speed Belt Drive
Cooling Performance	Gross Cooling Capacity - Btuh		68,500	68,500
	¹ Net Cooling Capacity - Btuh		67,000	67,000
	AHRI Rated Air Flow - cfm		2200	2200
	² Sound Rating Number (SRN) (dBA)		84	84
	Total Unit Power - kW		6.0	6.0
	¹ IEER (Btuh/Watt)		12.90	15.00
		¹ EER (Btuh/Watt)	11.20	11.20
AHRI Reference No.			N/A	N/A
Refrigerant	Type		R-410A	R-410A
	Charge Furnished		7 lbs. 3 oz.	7 lbs. 3 oz.
Electric Heat Available - page 27			7.5, 15, 22.5, 30 kW	7.5, 15, 22.5, 30 kW
Compressor Type (one per unit)			Two-Stage Scroll	Two-Stage Scroll
Outdoor Coil	Net face area - sq. ft.		19.9	19.9
	Number of rows		1	1
	Fins / inch		23	23
Outdoor Coil Fan	Motor HP		(1) 1/3	(1) 1/3
	Motor rpm		1075	1075
	Total motor watts		365	365
	Diameter (No.) - in.		(1) 24	(1) 22
	Number of blades		3	3
	Total air volume - cfm		4270	4270
Indoor Coil	Net face area - sq. ft.		10.8	10.8
	Tube diameter - in.		3/8	3/8
	Number of rows		3	3
	Fins per inch		14	14
	Drain Connection (no. and size) - in.		(1) 1 NPT	(1) 1 NPT
	Expansion device type		Balance Port TXV, removable head	Balance Port TXV, removable head
³ Indoor Blower & Drive Selection	Nominal Motor HP		2 hp	2 hp
	Maximum Usable Motor HP		2.3 hp	2.3 hp
	Available Drive Kits		Kit #ZAA02 632-875 rpm	Kit #ZAA02 632-875 rpm
			Kit #ZAA03 798-1105 rpm	Kit #ZAA03 798-1105 rpm
			Kit #ZAA04 921-1228 rpm	Kit #ZAA04 921-1228 rpm
	Wheel nominal diameter x width - in.		15 x 9	15 x 9
Filters	Type		Disposable	Disposable
	Number and size - in.		(2) 16 x 20 x 2 (2) 20 x 20 x 2	(2) 16 x 20 x 2 (2) 20 x 20 x 2
Electrical Characteristics - 60 Hz			208/230V 460V & 575V 3 phase	208/230V 460V & 575V 3 phase

NOTE - Net capacity includes evaporator blower motor heat deduction. Gross capacity does not include evaporator blower motor heat deduction.

¹ AHRI Certified to AHRI Standard 340/360: 95°F outdoor air temperature and 80°F db/67°F wb entering evaporator air; minimum external duct static pressure.

² Sound Rating Number (SRN) rated in accordance with test conditions included in ANSI/AHRI Standard 270-2008.

³ Using total air volume and system static pressure requirements determine from blower performance tables rpm and motor hp required. Maximum usable hp of motors furnished are shown. In Canada, nominal motor hp is also maximum usable motor hp output. If motors of comparable hp are used, be sure to keep within the service factor limitations outlined on the motor nameplate.

RATINGS

NOTE – For Temperatures and Capacities not shown in tables, see bulletin – Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

3 TON STANDARD EFFICIENCY ZCB036S4

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		85°F					95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb		
cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	
63°F	960	34.5	2.06	0.70	0.84	0.99	32.4	2.31	0.71	0.86	1.00	30.2	2.60	0.73	0.90	1.00	27.7	2.94	0.75	0.94	1.00
	1200	36.3	2.07	0.75	0.93	1.00	34.2	2.32	0.77	0.96	1.00	31.8	2.61	0.79	0.99	1.00	29.3	2.94	0.83	1.00	1.00
	1440	37.8	2.07	0.80	1.00	1.00	35.6	2.33	0.83	1.00	1.00	33.5	2.62	0.86	1.00	1.00	30.9	2.95	0.91	1.00	1.00
67°F	960	36.7	2.07	0.55	0.67	0.80	34.5	2.32	0.56	0.69	0.83	32.1	2.61	0.57	0.71	0.86	29.5	2.95	0.58	0.73	0.90
	1200	38.6	2.08	0.58	0.73	0.89	36.2	2.33	0.59	0.75	0.92	33.6	2.62	0.60	0.77	0.95	30.8	2.95	0.62	0.81	1.00
	1440	39.9	2.09	0.61	0.78	0.97	37.4	2.34	0.63	0.81	0.99	34.7	2.63	0.65	0.84	1.00	31.8	2.96	0.66	0.89	1.00
71°F	960	38.7	2.08	0.42	0.54	0.65	36.5	2.33	0.41	0.54	0.67	34.0	2.62	0.41	0.55	0.69	31.3	2.95	0.42	0.57	0.71
	1200	40.7	2.09	0.43	0.57	0.71	38.3	2.35	0.43	0.58	0.73	35.6	2.63	0.43	0.59	0.75	32.7	2.96	0.44	0.61	0.78
	1440	42.1	2.10	0.45	0.60	0.76	39.6	2.35	0.44	0.61	0.78	36.9	2.64	0.45	0.64	0.82	33.7	2.97	0.46	0.65	0.86

4 TON STANDARD EFFICIENCY ZCB048S4

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		85°F					95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb		
cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	
63°F	1280	45.2	2.93	0.72	0.85	0.99	43.8	3.30	0.74	0.88	1.00	42.3	3.74	0.76	0.91	1.00	40.6	4.25	0.79	0.95	1.00
	1600	47.0	2.94	0.76	0.94	1.00	45.4	3.32	0.79	0.97	1.00	43.7	3.76	0.82	1.00	1.00	42.1	4.27	0.85	1.00	1.00
	1920	48.3	2.96	0.82	1.00	1.00	46.8	3.34	0.85	1.00	1.00	45.3	3.78	0.88	1.00	1.00	43.6	4.30	0.92	1.00	1.00
67°F	1280	47.3	2.95	0.58	0.69	0.82	45.7	3.33	0.59	0.71	0.84	44.1	3.76	0.61	0.74	0.88	42.4	4.28	0.63	0.76	0.92
	1600	49.2	2.97	0.60	0.74	0.90	47.4	3.35	0.62	0.76	0.93	45.6	3.79	0.64	0.79	0.97	43.6	4.30	0.66	0.83	1.00
	1920	50.4	2.98	0.63	0.79	0.98	48.5	3.36	0.65	0.82	1.00	46.6	3.8	0.67	0.86	1.00	44.3	4.32	0.70	0.90	1.00
71°F	1280	49.2	2.97	0.45	0.56	0.67	47.6	3.35	0.45	0.57	0.69	45.8	3.79	0.47	0.59	0.71	44.0	4.31	0.49	0.62	0.74
	1600	51.2	2.99	0.45	0.59	0.72	49.4	3.38	0.47	0.61	0.74	47.5	3.82	0.48	0.63	0.77	45.2	4.34	0.50	0.65	0.80
	1920	52.7	3.01	0.46	0.62	0.77	50.6	3.39	0.48	0.64	0.80	48.6	3.84	0.50	0.66	0.83	46.3	4.36	0.52	0.69	0.88

5 TON STANDARD EFFICIENCY ZCB060S4

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		85°F					95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb		
	cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F
63°F	1600	58.1	3.63	0.74	0.88	0.99	53.4	4.08	0.74	0.89	1.00	48.4	4.61	0.75	0.91	1.00	43.0	5.23	0.76	0.94	1.00
	2000	61.8	3.65	0.80	0.95	1.00	56.8	4.10	0.81	0.97	1.00	51.6	4.64	0.82	0.99	1.00	46.1	5.27	0.84	1.00	1.00
	2400	64.8	3.66	0.85	1.00	1.00	59.9	4.12	0.86	1.00	1.00	54.9	4.67	0.89	1.00	1.00	49.7	5.32	0.91	1.00	1.00
67°F	1600	62.7	3.65	0.57	0.72	0.85	57.8	4.11	0.56	0.72	0.86	52.6	4.65	0.55	0.73	0.88	47.0	5.28	0.54	0.74	0.91
	2000	66.6	3.67	0.61	0.78	0.92	61.4	4.14	0.61	0.79	0.94	55.8	4.68	0.60	0.81	0.96	49.6	5.31	0.60	0.83	0.99
	2400	69.3	3.69	0.65	0.83	0.98	63.7	4.16	0.65	0.85	1.00	58.0	4.71	0.66	0.87	1.00	51.7	5.35	0.66	0.90	1.00
71°F	1600	67.2	3.67	0.42	0.56	0.70	62.1	4.14	0.40	0.55	0.70	56.8	4.69	0.38	0.55	0.71	50.8	5.33	0.35	0.54	0.72
	2000	71.2	3.70	0.43	0.60	0.76	65.9	4.17	0.42	0.60	0.77	60.0	4.72	0.40	0.60	0.79	53.8	5.37	0.39	0.60	0.81
	2400	74.3	3.72	0.45	0.64	0.82	68.4	4.19	0.44	0.65	0.83	62.4	4.75	0.43	0.65	0.85	56.0	5.40	0.42	0.66	0.88

RATINGS

NOTE – For Temperatures and Capacities not shown in tables, see bulletin – Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

6 TON STANDARD EFFICIENCY ZCB074S4B (1ST STAGE)

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		65°F					75°F					85°F					95°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb		
cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	
63°F	1920	60.9	2.27	0.77	0.93	1.00	57.4	2.59	0.78	0.96	1.00	53.8	2.96	0.79	0.98	1.00	49.9	3.37	0.80	1.00	1.00
	2400	64.5	2.26	0.83	1.00	1.00	61.3	2.58	0.84	1.00	1.00	57.8	2.95	0.86	1.00	1.00	54.1	3.37	0.89	1.00	1.00
	2880	68.3	2.25	0.90	1.00	1.00	64.8	2.58	0.92	1.00	1.00	61.1	2.95	0.95	1.00	1.00	57.2	3.37	0.98	1.00	1.00
67°F	1920	65.5	2.26	0.59	0.74	0.90	61.9	2.58	0.59	0.75	0.92	58.0	2.95	0.60	0.76	0.94	53.8	3.37	0.60	0.78	0.97
	2400	68.7	2.25	0.63	0.81	0.99	64.8	2.58	0.64	0.82	1.00	60.7	2.95	0.64	0.84	1.00	56.3	3.37	0.65	0.86	1.00
	2880	71.0	2.24	0.67	0.87	1.00	66.9	2.57	0.68	0.89	1.00	62.7	2.94	0.69	0.92	1.00	58.1	3.37	0.70	0.95	1.00
71°F	1920	69.9	2.25	0.44	0.58	0.72	66.1	2.57	0.43	0.58	0.73	62.2	2.95	0.43	0.59	0.74	57.9	3.37	0.42	0.59	0.76
	2400	73.4	2.24	0.45	0.62	0.78	69.3	2.56	0.45	0.63	0.80	65.2	2.94	0.44	0.64	0.81	60.7	3.36	0.44	0.65	0.84
	2880	75.9	2.23	0.47	0.67	0.84	71.7	2.56	0.47	0.67	0.86	67.3	2.93	0.46	0.68	0.89	62.4	3.36	0.47	0.69	0.92

6 TON STANDARD EFFICIENCY ZCB074S4B (2ND STAGE)

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		85°F					95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb		
	cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F
63°F	1920	66.9	4.14	0.71	0.87	1.00	62.5	4.68	0.72	0.89	1.00	57.7	5.29	0.74	0.92	1.00	52.6	5.99	0.76	0.96	1.00
	2400	70.5	4.18	0.77	0.96	1.00	65.7	4.71	0.79	0.98	1.00	61.0	5.33	0.81	1.00	1.00	56.1	6.03	0.84	1.00	1.00
	2880	73.4	4.21	0.83	1.00	1.00	69.1	4.75	0.85	1.00	1.00	64.5	5.37	0.88	1.00	1.00	59.4	6.07	0.92	1.00	1.00
67°F	1920	71.5	4.19	0.55	0.69	0.83	66.9	4.72	0.55	0.70	0.85	61.8	5.34	0.56	0.72	0.88	56.6	6.04	0.56	0.73	0.92
	2400	75.3	4.23	0.59	0.75	0.92	70.3	4.76	0.59	0.77	0.95	64.9	5.37	0.60	0.79	0.98	59.5	6.07	0.61	0.82	1.00
	2880	77.9	4.26	0.62	0.81	0.99	72.6	4.79	0.63	0.83	1.00	67.0	5.40	0.64	0.86	1.00	61.3	6.09	0.66	0.90	1.00
71°F	1920	75.8	4.23	0.41	0.54	0.67	71.2	4.77	0.41	0.54	0.68	66.0	5.38	0.40	0.55	0.69	60.5	6.08	0.39	0.55	0.71
	2400	79.8	4.28	0.43	0.58	0.73	74.6	4.82	0.42	0.59	0.74	69.4	5.43	0.41	0.59	0.76	63.6	6.13	0.41	0.61	0.79
	2880	82.7	4.32	0.44	0.62	0.79	77.4	4.85	0.44	0.63	0.81	71.6	5.46	0.44	0.64	0.84	65.7	6.16	0.44	0.66	0.87

6 TON STANDARD EFFICIENCY ZCB074S4T (1ST STAGE)

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		65°F					75°F					85°F					95°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb		
cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	
63°F	1200	50.3	2.24	0.67	0.79	0.92	47.3	2.56	0.67	0.80	0.94	44.2	2.91	0.67	0.82	0.96	40.7	3.32	0.68	0.83	0.99
	1600	55.0	2.24	0.73	0.88	1.00	51.6	2.55	0.74	0.90	1.00	48.1	2.91	0.74	0.92	1.00	44.3	3.32	0.76	0.95	1.00
	2000	58.1	2.23	0.79	0.97	1.00	54.6	2.55	0.80	0.99	1.00	51.0	2.91	0.81	1.00	1.00	47.5	3.32	0.84	1.00	1.00
67°F	1200	54.1	2.24	0.53	0.65	0.76	51.0	2.56	0.53	0.65	0.77	47.7	2.91	0.52	0.65	0.78	44.1	3.32	0.52	0.65	0.79
	1600	59.0	2.23	0.57	0.70	0.84	55.6	2.55	0.57	0.71	0.86	51.9	2.91	0.56	0.72	0.88	48.0	3.32	0.57	0.73	0.91
	2000	62.4	2.22	0.60	0.76	0.93	58.7	2.54	0.61	0.77	0.95	54.8	2.91	0.61	0.79	0.97	50.7	3.32	0.61	0.81	1.00
71°F	1200	57.8	2.23	0.41	0.52	0.62	54.6	2.55	0.40	0.52	0.62	51.2	2.91	0.39	0.51	0.63	47.5	3.32	0.37	0.51	0.63
	1600	63.1	2.22	0.43	0.55	0.68	59.5	2.54	0.42	0.56	0.69	55.7	2.91	0.41	0.56	0.70	51.8	3.32	0.40	0.56	0.71
	2000	66.6	2.21	0.44	0.59	0.74	62.9	2.54	0.44	0.60	0.75	58.8	2.90	0.43	0.60	0.76	54.5	3.31	0.43	0.60	0.78

6 TON STANDARD EFFICIENCY ZCB074S4T (2ND STAGE)

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		85°F					95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb		
cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	
63°F	1920	66.9	4.13	0.71	0.87	1.00	62.5	4.66	0.72	0.89	1.00	57.7	5.27	0.74	0.92	1.00	52.7	5.97	0.76	0.96	1.00
	2400	70.5	4.16	0.77	0.96	1.00	65.7	4.70	0.79	0.98	1.00	60.9	5.30	0.81	1.00	1.00	56.1	6.01	0.84	1.00	1.00
	2880	73.4	4.19	0.83	1.00	1.00	69.1	4.73	0.85	1.00	1.00	64.5	5.35	0.89	1.00	1.00	59.4	6.05	0.92	1.00	1.00
67°F	1920	71.5	4.17	0.55	0.69	0.83	66.9	4.71	0.56	0.70	0.85	61.8	5.32	0.56	0.72	0.88	56.7	6.01	0.56	0.73	0.92
	2400	75.2	4.21	0.59	0.75	0.92	70.3	4.75	0.59	0.77	0.95	64.9	5.35	0.60	0.79	0.98	59.5	6.05	0.61	0.82	1.00
	2880	78.0	4.24	0.63	0.81	0.99	72.6	4.78	0.63	0.83	1.00	67.0	5.38	0.64	0.86	1.00	61.3	6.07	0.66	0.90	1.00
71°F	1920	75.8	4.22	0.41	0.54	0.67	71.2	4.76	0.41	0.55	0.68	66.0	5.36	0.40	0.55	0.69	60.5	6.06	0.38	0.55	0.71
	2400	79.8	4.26	0.43	0.58	0.73	74.6	4.80	0.42	0.59	0.74	69.4	5.41	0.41	0.60	0.76	63.5	6.10	0.41	0.61	0.79
	2880	82.8	4.30	0.44	0.62	0.79	77.4	4.84	0.44	0.63	0.81	71.6	5.44	0.44	0.64	0.84	65.7	6.14	0.44	0.66	0.88

BLOWER DATA - ZCB036**BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE.**

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (heat section, economizer, wet coil, etc.).

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See page 20 for blower motors and drives and wet coil and options/accessory air resistance data.

DOWNFLOW

Air Volume cfm	External Static - in. w.g.															
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
900	562	0.16	629	0.18	699	0.19	771	0.20	840	0.22	904	0.24	962	0.26	1015	0.29
1000	586	0.18	654	0.20	725	0.21	796	0.23	864	0.25	927	0.27	983	0.30	1034	0.33
1100	612	0.20	681	0.22	752	0.24	823	0.26	890	0.28	950	0.31	1004	0.34	1054	0.37
1200	641	0.23	711	0.25	783	0.27	852	0.29	917	0.32	975	0.35	1027	0.39	1074	0.42
1300	673	0.25	744	0.28	815	0.30	882	0.33	944	0.36	1000	0.40	1050	0.44	1096	0.48
1400	709	0.29	779	0.32	849	0.34	914	0.37	973	0.41	1026	0.45	1074	0.49	1118	0.53
1500	747	0.33	816	0.36	883	0.39	945	0.42	1001	0.46	1052	0.51	1098	0.55	1141	0.59

Air Volume cfm	External Static - in. w.g.															
	0.90		1.00		1.10		1.20		1.30		1.40		1.50		1.60	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
900	1065	0.32	1112	0.35	1158	0.38	1202	0.41	1243	0.44	1284	0.48	1323	0.52	1364	0.55
1000	1082	0.36	1128	0.39	1173	0.42	1216	0.45	1257	0.49	1297	0.53	1336	0.57	1375	0.60
1100	1100	0.40	1145	0.44	1189	0.47	1231	0.51	1272	0.54	1311	0.58	1349	0.62	1388	0.66
1200	1119	0.45	1163	0.49	1206	0.52	1247	0.56	1287	0.60	1326	0.64	1364	0.68	1402	0.72
1300	1139	0.51	1182	0.55	1224	0.58	1265	0.62	1304	0.66	1342	0.71	1379	0.75	1416	0.79
1400	1160	0.57	1202	0.61	1243	0.65	1283	0.69	1322	0.73	1359	0.78	1396	0.82	1432	0.87
1500	1182	0.64	1223	0.68	1263	0.72	1303	0.76	1341	0.81	1378	0.85	1414	0.90	1449	0.94

HORIZONTAL

Air Volume cfm	External Static - in. w.g.															
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
900	580	0.14	649	0.17	721	0.19	794	0.22	868	0.24	938	0.27	998	0.30	1045	0.33
1000	612	0.17	681	0.19	752	0.22	825	0.25	897	0.27	963	0.30	1017	0.33	1061	0.37
1100	647	0.20	717	0.23	788	0.26	858	0.28	926	0.31	986	0.34	1036	0.38	1077	0.41
1200	687	0.23	757	0.26	826	0.29	893	0.32	955	0.35	1008	0.39	1054	0.42	1095	0.46
1300	730	0.27	798	0.30	864	0.33	926	0.37	982	0.40	1030	0.44	1073	0.47	1116	0.51
1400	775	0.31	840	0.34	902	0.38	959	0.42	1009	0.46	1054	0.50	1096	0.53	1140	0.56
1500	820	0.36	881	0.40	939	0.44	993	0.49	1039	0.53	1082	0.56	1124	0.59	1168	0.62

Air Volume cfm	External Static - in. w.g.															
	0.90		1.00		1.10		1.20		1.30		1.40		1.50		1.60	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
900	1091	0.36	1140	0.38	1188	0.40	1232	0.43	1272	0.46	1309	0.49	1346	0.53	1383	0.57
1000	1105	0.40	1154	0.42	1201	0.45	1245	0.47	1284	0.50	1321	0.54	1357	0.58	1394	0.62
1100	1121	0.44	1169	0.47	1216	0.49	1259	0.52	1298	0.56	1335	0.60	1370	0.64	1406	0.69
1200	1139	0.49	1187	0.52	1234	0.54	1276	0.58	1314	0.62	1350	0.66	1385	0.71	1421	0.75
1300	1161	0.54	1208	0.57	1254	0.60	1295	0.64	1332	0.69	1366	0.73	1401	0.78	1436	0.83
1400	1185	0.59	1232	0.63	1276	0.67	1315	0.71	1351	0.76	1384	0.81	1419	0.86	1454	0.90
1500	1212	0.66	1257	0.70	1299	0.74	1337	0.79	1371	0.84	1404	0.89	1438	0.94	1473	0.99

BLOWER DATA - ZCBO48

BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (heat section, economizer, wet coil, etc.).

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See page 20 for blower motors and drives and wet coil and options/accessory air resistance data.

DOWNFLOW

Air Volume cfm	External Static - in. w.g.															
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	641	0.23	711	0.25	783	0.27	852	0.29	917	0.32	975	0.35	1027	0.39	1074	0.42
1300	673	0.25	744	0.28	815	0.30	882	0.33	944	0.36	1000	0.40	1050	0.44	1096	0.48
1400	709	0.29	779	0.32	849	0.34	914	0.37	973	0.41	1026	0.45	1074	0.49	1118	0.53
1500	747	0.33	816	0.36	883	0.39	945	0.42	1001	0.46	1052	0.51	1098	0.55	1141	0.59
1600	787	0.38	854	0.41	918	0.44	976	0.48	1030	0.52	1078	0.56	1123	0.61	1164	0.66
1700	827	0.43	892	0.46	952	0.49	1007	0.53	1058	0.58	1105	0.63	1148	0.68	1189	0.73
1800	868	0.48	929	0.52	986	0.55	1038	0.59	1087	0.64	1132	0.69	1174	0.75	1214	0.80
1900	907	0.54	966	0.58	1019	0.62	1069	0.66	1116	0.71	1160	0.77	1200	0.82	1240	0.88
2000	946	0.60	1001	0.65	1053	0.69	1101	0.74	1146	0.79	1188	0.85	1228	0.91	1267	0.98

Air Volume cfm	External Static - in. w.g.															
	0.90		1.00		1.10		1.20		1.30		1.40		1.50		1.60	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	1119	0.45	1163	0.49	1206	0.52	1247	0.56	1287	0.60	1326	0.64	1364	0.68	1402	0.72
1300	1139	0.51	1182	0.55	1224	0.58	1265	0.62	1304	0.66	1342	0.71	1379	0.75	1416	0.79
1400	1160	0.57	1202	0.61	1243	0.65	1283	0.69	1322	0.73	1359	0.78	1396	0.82	1432	0.87
1500	1182	0.64	1223	0.68	1263	0.72	1303	0.76	1341	0.81	1378	0.85	1414	0.9	1449	0.94
1600	1205	0.70	1245	0.75	1284	0.79	1323	0.84	1361	0.88	1397	0.93	1432	0.98	1467	1.03
1700	1228	0.78	1268	0.82	1307	0.87	1345	0.92	1382	0.97	1417	1.02	1452	1.07	1486	1.11
1800	1253	0.85	1292	0.91	1331	0.96	1368	1.01	1404	1.06	1439	1.11	1473	1.16	1506	1.21
1900	1279	0.94	1317	1.00	1355	1.05	1392	1.10	1427	1.16	1461	1.21	1494	1.26	1527	1.31
2000	1305	1.04	1343	1.10	1380	1.15	1416	1.21	1450	1.26	1484	1.32	1516	1.37	1549	1.42

HORIZONTAL

Air Volume cfm	External Static - in. w.g.															
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	687	0.23	757	0.26	826	0.29	893	0.32	955	0.35	1008	0.39	1054	0.42	1095	0.46
1300	730	0.27	798	0.30	864	0.33	926	0.37	982	0.40	1030	0.44	1073	0.47	1116	0.51
1400	775	0.31	840	0.34	902	0.38	959	0.42	1009	0.46	1054	0.50	1096	0.53	1140	0.56
1500	820	0.36	881	0.40	939	0.44	993	0.49	1039	0.53	1082	0.56	1124	0.59	1168	0.62
1600	864	0.42	921	0.46	976	0.51	1027	0.56	1072	0.6	1113	0.63	1155	0.66	1198	0.69
1700	907	0.48	961	0.53	1013	0.58	1061	0.63	1105	0.67	1146	0.70	1187	0.73	1230	0.77
1800	948	0.56	999	0.61	1049	0.66	1096	0.71	1139	0.75	1180	0.78	1221	0.82	1262	0.86
1900	987	0.64	1037	0.69	1086	0.74	1132	0.79	1174	0.83	1214	0.86	1255	0.90	1295	0.95
2000	1028	0.73	1076	0.78	1123	0.83	1168	0.87	1210	0.91	1250	0.96	1289	1.00	1328	1.06

Air Volume cfm	External Static - in. w.g.															
	0.90		1.00		1.10		1.20		1.30		1.40		1.50		1.60	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	1139	0.49	1187	0.52	1234	0.54	1276	0.58	1314	0.62	1350	0.66	1385	0.71	1421	0.75
1300	1161	0.54	1208	0.57	1254	0.60	1295	0.64	1332	0.69	1366	0.73	1401	0.78	1436	0.83
1400	1185	0.59	1232	0.63	1276	0.67	1315	0.71	1351	0.76	1384	0.81	1419	0.86	1454	0.90
1500	1212	0.66	1257	0.70	1299	0.74	1337	0.79	1371	0.84	1404	0.89	1438	0.94	1473	0.99
1600	1242	0.73	1284	0.77	1324	0.82	1360	0.88	1394	0.93	1426	0.99	1460	1.04	1495	1.08
1700	1272	0.81	1312	0.86	1350	0.92	1385	0.98	1418	1.04	1451	1.09	1485	1.14	1519	1.19
1800	1302	0.90	1341	0.96	1377	1.02	1411	1.08	1444	1.15	1477	1.20	1510	1.25	1544	1.30
1900	1334	1.01	1371	1.07	1406	1.13	1439	1.20	1471	1.26	1504	1.32	1537	1.37	1571	1.41
2000	1365	1.12	1401	1.19	1435	1.25	1468	1.32	1500	1.38	1532	1.44	1565	1.49	1598	1.53

BLOWER DATA - ZCB060**BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE.**

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (heat section, economizer, wet coil, etc.).

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See page 20 for blower motors and drives and wet coil and options/accessory air resistance data.

DOWNFLOW

Air Volume cfm	External Static - in. w.g.															
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1600	764	0.46	823	0.51	882	0.56	940	0.60	997	0.65	1048	0.69	1094	0.72	1140	0.75
1700	806	0.53	863	0.58	919	0.62	975	0.67	1028	0.71	1075	0.75	1119	0.78	1164	0.81
1800	849	0.60	903	0.65	957	0.69	1010	0.74	1058	0.78	1102	0.82	1145	0.85	1189	0.88
1900	892	0.68	944	0.72	995	0.77	1045	0.82	1089	0.86	1131	0.89	1174	0.92	1217	0.95
2000	935	0.76	984	0.81	1033	0.86	1079	0.91	1122	0.95	1163	0.97	1204	1.00	1247	1.03
2100	977	0.85	1024	0.90	1070	0.95	1114	1.00	1155	1.03	1196	1.06	1237	1.09	1278	1.12
2200	1018	0.95	1063	0.99	1107	1.04	1149	1.09	1190	1.12	1230	1.15	1270	1.18	1310	1.22
2300	1057	1.04	1100	1.09	1143	1.14	1185	1.18	1225	1.22	1264	1.25	1303	1.29	1342	1.33
2400	1096	1.14	1137	1.18	1179	1.23	1220	1.27	1260	1.31	1299	1.35	1337	1.40	1375	1.45

Air Volume cfm	External Static - in. w.g.															
	0.90		1.00		1.10		1.20		1.30		1.40		1.50		1.60	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1600	1185	0.79	1229	0.81	1271	0.84	1313	0.86	1354	0.90	1393	0.94	1431	0.98	1468	1.03
1700	1208	0.84	1252	0.87	1294	0.90	1335	0.94	1375	0.98	1413	1.02	1449	1.07	1485	1.12
1800	1233	0.91	1276	0.94	1318	0.98	1358	1.02	1397	1.06	1434	1.11	1469	1.16	1504	1.21
1900	1261	0.98	1303	1.02	1343	1.06	1382	1.11	1420	1.16	1455	1.21	1490	1.26	1525	1.31
2000	1289	1.07	1330	1.11	1370	1.16	1407	1.21	1444	1.27	1478	1.32	1513	1.37	1547	1.42
2100	1319	1.16	1359	1.21	1397	1.27	1433	1.32	1468	1.38	1502	1.44	1536	1.49	1570	1.53
2200	1350	1.27	1388	1.32	1424	1.38	1459	1.45	1494	1.51	1527	1.56	1561	1.61	1594	1.65
2300	1380	1.38	1417	1.45	1452	1.51	1486	1.58	1520	1.63	1553	1.68	1587	1.73	1620	1.78
2400	1411	1.51	1446	1.58	1480	1.65	1514	1.71	1547	1.77	1580	1.81	1614	1.86	1648	1.90

HORIZONTAL

Air Volume cfm	External Static - in. w.g.															
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1600	752	0.40	818	0.45	882	0.50	943	0.55	999	0.59	1050	0.62	1097	0.66	1142	0.69
1700	792	0.46	855	0.52	917	0.56	975	0.61	1028	0.64	1077	0.68	1123	0.72	1166	0.75
1800	832	0.53	894	0.58	952	0.63	1007	0.67	1058	0.70	1105	0.74	1149	0.78	1192	0.82
1900	873	0.60	932	0.65	988	0.69	1040	0.73	1088	0.77	1134	0.81	1177	0.85	1219	0.90
2000	914	0.67	970	0.72	1023	0.76	1073	0.80	1120	0.85	1163	0.89	1205	0.94	1246	0.99
2100	955	0.74	1009	0.79	1059	0.84	1107	0.89	1152	0.93	1194	0.98	1235	1.03	1275	1.09
2200	995	0.83	1047	0.88	1095	0.93	1141	0.98	1184	1.03	1225	1.08	1265	1.14	1304	1.20
2300	1036	0.92	1085	0.97	1132	1.02	1175	1.08	1217	1.13	1257	1.19	1296	1.26	1334	1.32
2400	1077	1.01	1124	1.07	1168	1.13	1210	1.19	1251	1.25	1290	1.32	1328	1.39	1365	1.46

Air Volume cfm	External Static - in. w.g.															
	0.90		1.00		1.10		1.20		1.30		1.40		1.50		1.60	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1600	1185	0.72	1228	0.75	1270	0.79	1310	0.83	1349	0.88	1387	0.93	1423	0.98	1459	1.03
1700	1209	0.78	1251	0.82	1292	0.87	1331	0.92	1370	0.97	1407	1.02	1443	1.07	1478	1.12
1800	1234	0.86	1275	0.91	1315	0.96	1354	1.01	1391	1.06	1428	1.11	1463	1.17	1498	1.22
1900	1260	0.95	1300	1.00	1340	1.05	1377	1.11	1414	1.16	1450	1.22	1485	1.27	1519	1.32
2000	1287	1.04	1326	1.10	1365	1.16	1402	1.21	1437	1.27	1472	1.33	1507	1.38	1541	1.43
2100	1314	1.15	1353	1.21	1391	1.27	1427	1.33	1462	1.39	1496	1.44	1530	1.50	1564	1.55
2200	1343	1.26	1381	1.33	1417	1.39	1453	1.45	1487	1.51	1521	1.56	1555	1.62	1589	1.67
2300	1372	1.39	1409	1.45	1445	1.52	1480	1.58	1513	1.64	1547	1.69	1580	1.75	1614	1.80
2400	1402	1.52	1438	1.59	1473	1.65	1507	1.71	1541	1.77	1574	1.83	1607	1.88	1641	1.93

BLOWER DATA - ZCB074

BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (heat section, economizer, wet coil, etc.).

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See page 20 for blower motors and drives and wet coil and options/accessory air resistance data.

DOWNFLOW

Air Volume cfm	External Static - in. w.g.															
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1900	578	0.44	610	0.49	643	0.54	678	0.60	714	0.65	749	0.70	785	0.76	819	0.82
2000	600	0.50	632	0.56	665	0.61	699	0.66	734	0.71	769	0.77	803	0.83	837	0.90
2100	623	0.57	655	0.62	688	0.68	721	0.73	755	0.79	789	0.84	822	0.91	854	0.98
2200	647	0.65	678	0.70	711	0.75	743	0.81	776	0.86	809	0.93	841	1.00	872	1.06
2300	671	0.73	702	0.78	734	0.83	766	0.89	798	0.95	829	1.02	860	1.09	890	1.16
2400	696	0.81	726	0.87	757	0.92	788	0.98	819	1.04	850	1.11	880	1.19	909	1.26
2500	720	0.90	750	0.95	780	1.01	811	1.07	841	1.14	871	1.22	900	1.30	929	1.37
2600	745	0.99	774	1.05	804	1.11	834	1.17	864	1.25	893	1.33	921	1.41	949	1.49
2700	770	1.09	799	1.15	828	1.21	858	1.28	887	1.36	916	1.44	943	1.53	969	1.61
2800	795	1.19	824	1.25	853	1.33	882	1.40	911	1.48	939	1.56	965	1.65	990	1.73
2900	820	1.30	849	1.37	878	1.45	907	1.53	935	1.61	962	1.70	988	1.78	1012	1.86

Air Volume cfm	External Static - in. w.g.															
	0.90		1.00		1.10		1.20		1.30		1.40		1.50		1.60	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1900	853	0.88	885	0.94	915	0.99	944	1.05	971	1.11	996	1.17	1021	1.23	1045	1.29
2000	869	0.96	899	1.01	929	1.07	957	1.13	984	1.19	1009	1.25	1033	1.31	1058	1.38
2100	885	1.04	915	1.10	944	1.15	971	1.22	997	1.28	1022	1.34	1046	1.40	1070	1.46
2200	902	1.13	931	1.19	959	1.24	986	1.31	1012	1.37	1036	1.43	1060	1.50	1084	1.56
2300	920	1.23	948	1.29	975	1.35	1001	1.41	1027	1.47	1051	1.53	1075	1.60	1098	1.66
2400	938	1.33	965	1.39	992	1.45	1017	1.52	1042	1.58	1066	1.64	1090	1.70	1113	1.77
2500	956	1.44	983	1.51	1009	1.57	1034	1.63	1059	1.69	1082	1.75	1105	1.82	1128	1.88
2600	975	1.56	1001	1.63	1026	1.69	1051	1.75	1075	1.81	1098	1.87	1121	1.93	1143	2.00
2700	995	1.68	1020	1.75	1044	1.81	1069	1.87	1092	1.93	1114	1.99	1136	2.06	1158	2.13
2800	1015	1.81	1039	1.87	1063	1.94	1086	2.00	1109	2.06	1131	2.12	1152	2.19	1174	2.26
2900	1035	1.94	1058	2.00	1081	2.07	1104	2.13	1126	2.19	1147	2.26	1168	2.33	1189	2.40

HORIZONTAL

Air Volume cfm	External Static - in. w.g.															
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1900	581	0.44	618	0.49	655	0.54	692	0.59	729	0.64	765	0.69	800	0.75	833	0.80
2000	602	0.50	639	0.55	676	0.61	713	0.66	749	0.71	784	0.76	818	0.82	850	0.88
2100	625	0.57	661	0.62	698	0.67	735	0.73	770	0.78	804	0.84	837	0.90	868	0.96
2200	648	0.64	685	0.69	721	0.75	757	0.80	791	0.86	824	0.92	856	0.98	886	1.05
2300	673	0.71	709	0.77	745	0.83	780	0.88	813	0.94	845	1.01	876	1.08	905	1.15
2400	699	0.79	734	0.85	769	0.91	803	0.97	835	1.04	866	1.11	896	1.18	924	1.25
2500	725	0.88	759	0.94	793	1.00	826	1.07	857	1.14	887	1.21	916	1.28	944	1.36
2600	752	0.97	785	1.04	818	1.10	850	1.17	880	1.25	909	1.32	937	1.40	964	1.48
2700	779	1.07	811	1.14	843	1.21	873	1.29	902	1.37	931	1.44	958	1.52	984	1.60
2800	805	1.18	837	1.26	868	1.33	897	1.41	925	1.49	952	1.57	979	1.66	1004	1.74
2900	832	1.30	863	1.38	892	1.46	921	1.54	948	1.63	974	1.71	1000	1.80	1024	1.88

Air Volume cfm	External Static - in. w.g.															
	0.90		1.00		1.10		1.20		1.30		1.40		1.50		1.60	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1900	864	0.87	895	0.93	924	0.99	953	1.06	980	1.12	1007	1.18	1032	1.25	1056	1.31
2000	881	0.95	911	1.01	940	1.08	967	1.14	994	1.21	1020	1.27	1044	1.34	1068	1.40
2100	898	1.03	927	1.10	955	1.17	982	1.23	1008	1.30	1033	1.37	1057	1.43	1080	1.50
2200	916	1.12	944	1.19	971	1.26	998	1.33	1023	1.40	1047	1.47	1071	1.54	1093	1.60
2300	934	1.22	961	1.29	988	1.36	1014	1.43	1038	1.50	1062	1.58	1085	1.65	1107	1.71
2400	952	1.32	979	1.40	1005	1.47	1030	1.54	1054	1.62	1077	1.69	1099	1.76	1121	1.83
2500	971	1.43	997	1.51	1022	1.59	1046	1.66	1069	1.74	1092	1.81	1114	1.88	1135	1.95
2600	990	1.55	1015	1.63	1039	1.71	1063	1.79	1086	1.86	1108	1.94	1129	2.01	1150	2.07
2700	1009	1.68	1034	1.76	1057	1.84	1080	1.92	1102	1.99	1124	2.07	1145	2.14	1166	2.21
2800	1028	1.82	1052	1.9	1075	1.98	1097	2.06	1119	2.13	1140	2.21	1161	2.28	1182	2.34
2900	1048	1.96	1071	2.04	1093	2.12	1115	2.20	1136	2.28	1157	2.35	1177	2.42	1198	2.48

BLOWER DATA

BELT DRIVE KIT SPECIFICATIONS - ZCB036-060

Model No.	Motor HP		No. of Speeds	Drive Kits and RPM Range					
	Nominal	Maximum		ZA01	ZA02	ZA03	ZA04	³ ZA05	³ ZA06
ZCB036	¹ 0.75	0.86	1	678 - 1035	---	---	964 - 1471	---	---
	² 1	1.15	1	678 - 1035	---	---	964 - 1471	---	---
	¹ 1.5	1.7	1	678 - 1035	---	---	964 - 1471	---	---
ZCB048	¹ 0.75	0.86	1	---	803 - 1226	---	---	---	---
	² 1	1.15	1	---	803 - 1226	---	---	---	---
	¹ 1.5	1.7	1	---	803 - 1226	---	---	1098 - 1490	---
ZCB060	¹ 0.75	0.86	1	---	---	906 - 1383	---	---	---
	² 1	1.15	1	---	---	906 - 1383	---	---	---
	¹ 1.5	1.7	1	---	---	906 - 1383	---	---	1262 - 1634

BELT DRIVE KIT SPECIFICATIONS - ZCB074

Model No.	Motor HP		No. of Speeds	Drive Kits and RPM Range		
	Nominal	Maximum		ZAA02	ZAA03	⁴ ZAA04
ZCB074S4B	1.5	1.7	1	632 - 875	798 - 1105	---
	2	2.3	1	632 - 875	798 - 1105	921 - 1228
ZCB074S4T	2	2.3	2	632 - 875	798 - 1105	921 - 1228

NOTE - Using total air volume and system static pressure requirements determine from blower performance tables rpm and motor hp required. Maximum usable hp of motors furnished are shown. In Canada, nominal motor hp is also maximum usable motor hp. If motors of comparable hp are used, be sure to keep within the service factor limitations outlined on the motor nameplate.

¹ 0.75 and 1.5 hp motors are only available for 208/230V-1ph applications.

² 1 hp blower motor is not available for 208/230V-1ph applications.

³ 1.5 hp blower motor is required with the ZA05 and ZA06 drive kits.

⁴ 2 hp blower motor is required with the ZAA04 drive kit.

POWER EXHAUST FAN PERFORMANCE

Return Air System Static Pressure - in. w.g.	Air Volume Exhausted cfm
0.00	1865
0.05	1785
0.10	1710
0.15	1630
0.20	1545
0.25	1450
0.30	1350
0.35	1240

BLOWER DATA

OPTIONS / ACCESSORIES AIR RESISTANCE - in. w.g.

Air Volume cfm	Wet Indoor Coil		Electric Heat	Economizer	
	ZCB036, ZCB048	ZCB060, ZCB074		Downflow	Horizontal
900	0.01	---	0.05	0.03	0.04
1000	0.02	---	0.06	0.03	0.05
1100	0.02	---	0.08	0.04	0.05
1200	0.02	---	0.09	0.05	0.06
1300	0.03	---	0.12	0.05	0.07
1400	0.03	---	0.17	0.06	0.08
1500	0.04	---	0.22	0.07	0.08
1600	0.04	0.03	0.26	0.08	0.09
1700	0.05	0.03	0.30	0.09	0.10
1800	0.05	0.03	0.33	0.10	0.11
1900	0.06	0.04	0.33	0.11	0.12
2000	0.06	0.04	0.31	0.12	0.13
2100	---	0.05	0.27	0.13	0.14
2200	---	0.05	0.29	0.14	0.15
2300	---	0.05	0.31	0.15	0.16
2400	---	0.06	0.32	0.16	0.18
2500	---	0.06	0.34	0.18	0.19
2600	---	0.07	0.38	0.19	0.20
2700	---	0.07	0.42	0.20	0.21
2800	---	0.07	0.45	0.22	0.23
2900	---	0.08	0.49	0.23	0.24

BLOWER DATA

CEILING DIFFUSERS AIR RESISTANCE (in. w.g.)

Air Volume cfm	RTD9-65S Step-Down Diffuser			FD9-65S Flush Diffuser	RTD11-95S Step-Down Diffuser			FD11-95S Flush Diffuser
	2 Ends Open	1 Side & 2 Ends Open	All Ends & Sides Open		2 Ends Open	1 Side & 2 Ends Open	All Ends & Sides Open	
800	0.15	0.13	0.11	0.11	---	---	---	---
1000	0.19	0.16	0.14	0.14	---	---	---	---
1200	0.25	0.20	0.17	0.17	---	---	---	---
1400	0.33	0.26	0.20	0.20	---	---	---	---
1600	0.43	0.32	0.20	0.24	---	---	---	---
1800	0.56	0.40	0.30	0.30	0.13	0.11	0.09	0.09
2000	0.73	0.50	0.36	0.36	0.15	0.13	0.11	0.10
2200	0.95	0.63	0.44	0.44	0.18	0.15	0.12	0.12
2400	---	----	---	---	0.21	0.18	0.15	0.14
2600	---	----	---	---	0.24	0.21	0.18	0.17
2800	---	----	---	---	0.27	0.24	0.21	0.20
3000	---	----	---	---	0.32	0.29	0.25	0.25
3200	---	----	---	---	0.41	0.37	0.32	0.31
3400	---	----	---	---	0.50	0.45	0.39	0.37
3600	---	----	---	---	0.61	0.54	0.48	0.44

CEILING DIFFUSER AIR THROW DATA

Air Volume - cfm	¹ Effective Throw - ft.	
Model No.	RTD9-65S	FD9-65S
800	10 - 17	14 - 18
1000	10 - 17	15 - 20
1200	11 - 18	16 - 22
1400	12 - 19	17 - 24
1600	12 - 20	18 - 25
1800	13 - 21	20 - 28
2000	14 - 23	21 - 29
2200	16 - 25	22 - 30
Model No.	RTD11-95S	FD11-95S
2600	24 - 29	19 - 24
2800	25 - 30	20 - 28
3000	27 - 33	21 - 29
3200	28 - 35	22 - 29
3400	30 - 37	22 - 30
3600	25 - 33	22 - 24

¹ Effective throw based on terminal velocities of 75 ft. per minute.

ELECTRICAL/ELECTRIC HEAT DATA

3 TON

ZCB036S4

¹ Voltage - 60hz		208/230V - 1 Ph		208/230V - 3 Ph		460V - 3 Ph		575V - 3 Ph	
Compressor	Rated Load Amps	15.3		8.7		4		3.6	
	Locked Rotor Amps	70		70		31		27	
Outdoor Fan Motor	Full Load Amps	1.7		1.7		0.9		0.7	
Power Exhaust (1) 0.5 HP	Full Load Amps	1.5		1.5		0.6		0.6	
Indoor Blower Motor	Horsepower	0.75	1.5	1	1.5	1	1.5	1	1.5
	Full Load Amps	7.6	11	4.6	6.6	2.1	3	1.7	2.4
² Maximum Overcurrent Protection	Unit Only	40	45	25	25	15	15	15	15
	With (1) 0.5 HP Power Exhaust	45	45	25	25	15	15	15	15
³ Minimum Circuit Ampacity	Unit Only	29	32	18	20	8	9	7	8
	With (1) 0.5 HP Power Exhaust	30	34	19	21	9	10	8	9

ELECTRIC HEAT DATA

Electric Heat Voltage			208	240	208	240	208	240	208	240	480	480	600	600
² Maximum Overcurrent Protection	Unit+ Electric Heat	5 kW	40	40	45	45	25	25	25	25	15	15	15	15
		7.5 kW	45	50	50	60	30	30	30	35	15	20	15	15
		10 kW	60	70	60	70	35	40	35	40	20	20	15	20
		15 kW	80	90	90	100	45	60	50	60	30	30	25	25
³ Minimum Circuit Ampacity	Unit+ Electric Heat	5 kW	33	36	37	40	19	21	22	24	11	12	9	10
		7.5 kW	44	49	48	53	26	29	28	31	14	16	12	13
		10 kW	55	62	59	66	32	36	35	39	18	19	15	16
		15 kW	78	88	82	92	45	51	48	54	26	27	21	22
² Maximum Overcurrent Protection	Unit+ Electric Heat and (1) 0.5 HP Power Exhaust	5 kW	45	45	45	45	25	25	25	30	15	15	15	15
		7.5 kW	50	60	50	60	30	35	30	35	15	20	15	15
		10 kW	60	70	70	70	35	40	40	45	20	20	15	20
		15 kW	80	90	90	100	50	60	50	60	30	30	25	25
³ Minimum Circuit Ampacity	Unit+ Electric Heat and (1) 0.5 HP Power Exhaust	5 kW	34	38	39	42	21	23	24	26	11	13	9	10
		7.5 kW	46	51	50	55	28	31	30	33	15	16	12	13
		10 kW	57	64	61	68	34	38	37	41	19	20	15	16
		15 kW	80	90	84	94	47	53	50	56	26	28	21	22

ELECTRIC HEAT ACCESSORIES

Unit Fuse Block	Unit Only	10A26	10A26	10A27	10A27	10A29	10A29
	Unit + Power Exhaust	10A26	10A26	10A27	10A27	10A29	10A29

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

¹ Extremes of operating range are plus and minus 10% of line voltage.

² HACR type breaker or fuse.

³ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

ELECTRICAL/ELECTRIC HEAT DATA**4 TON****ZCB048S4**

¹ Voltage - 60hz		208/230V - 1 Ph		208/230V - 3 Ph		460V - 3 Ph		575V - 3 Ph	
Compressor	Rated Load Amps	20		11		5.5		4.7	
	Locked Rotor Amps	99		86		37		34	
Outdoor Fan Motor	Full Load Amps	1.7		1.7		0.9		0.7	
Power Exhaust (1) 0.5 HP	Full Load Amps	1.5		1.5		0.6		0.6	
Indoor Blower Motor	Horsepower	0.75	1.5	1	1.5	1	1.5	1	1.5
	Full Load Amps	7.6	11	4.6	6.6	2.1	3	1.7	2.4
² Maximum Overcurrent Protection	Unit Only	50	50	30	30	15	15	15	15
	With (1) 0.5 HP Power Exhaust	50	50	30	30	15	15	15	15
³ Minimum Circuit Ampacity	Unit Only	35	38	21	23	10	11	9	9
	With (1) 0.5 HP Power Exhaust	36	40	22	24	11	12	9	10

ELECTRIC HEAT DATA

Electric Heat Voltage			208	240	208	240	208	240	208	240	480	480	600	600
² Maximum Overcurrent Protection	Unit+ Electric Heat	5 kW	50	50	50	50	30	30	30	30	15	15	15	15
		7.5 kW	50	50	50	60	30	30	30	35	15	20	15	15
		10 kW	60	70	60	70	35	40	35	40	20	20	15	20
		15 kW	80	90	90	100	45	60	50	60	30	30	25	25
		22 kW	125	150	125	150	70	80	70	80	40	40	30	35
³ Minimum Circuit Ampacity	Unit+ Electric Heat	5 kW	35	36	38	40	21	21	23	24	11	12	9	10
		7.5 kW	44	49	48	53	26	29	28	31	14	16	12	13
		10 kW	55	62	59	66	32	36	35	39	18	19	15	16
		15 kW	78	88	82	92	45	51	48	54	26	27	21	22
		22 kW	112	127	116	131	65	74	67	76	37	38	30	31
² Maximum Overcurrent Protection	Unit+ Electric Heat and (1) 0.5 HP Power Exhaust	5 kW	50	50	50	50	30	30	30	30	15	15	15	15
		7.5 kW	50	60	50	60	30	35	30	35	15	20	15	15
		10 kW	60	70	70	70	35	40	40	45	20	20	15	20
		15 kW	80	90	90	100	50	60	50	60	30	30	25	25
		22 kW	125	150	125	150	70	80	70	80	40	40	30	35
³ Minimum Circuit Ampacity	Unit+ Electric Heat and (1) 0.5 HP Power Exhaust	5 kW	36	38	40	42	22	23	24	26	11	13	9	10
		7.5 kW	46	51	50	55	28	31	30	33	15	16	12	13
		10 kW	57	64	61	68	34	38	37	41	19	20	15	16
		15 kW	80	90	84	94	47	53	50	56	26	28	21	22
		22 kW	113	129	118	133	67	76	69	78	38	39	30	31

ELECTRIC HEAT ACCESSORIES

Unit Fuse Block	Unit Only	10A26	10A26	10A27	10A27	10A29	10A29
	Unit + Power Exhaust	10A26	10A26	10A27	10A27	10A29	10A29

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

¹ Extremes of operating range are plus and minus 10% of line voltage.² HACR type breaker or fuse.³ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

ELECTRICAL/ELECTRIC HEAT DATA

5 TON

ZCB060S4

¹ Voltage - 60hz		208/230V - 1 Ph		208/230V - 3 Ph		460V - 3 Ph		575V - 3 Ph	
Compressor	Rated Load Amps	22.1		13.5		8		5	
	Locked Rotor Amps	125		109		59		40	
Outdoor Fan Motor	Full Load Amps	1.7		1.7		0.9		0.7	
Power Exhaust (1) 0.5 HP	Full Load Amps	1.5		1.5		0.6		0.6	
Indoor Blower Motor	Horsepower	0.75	1.5	1	1.5	1	1.5	1	1.5
	Full Load Amps	7.6	11	4.6	6.6	2.1	3	1.7	2.4
² Maximum Overcurrent Protection	Unit Only	50	60	35	35	20	20	15	15
	With (1) 0.5 HP Power Exhaust	60	60	35	40	20	20	15	15
³ Minimum Circuit Ampacity	Unit Only	37	41	24	26	13	14	9	10
	With (1) 0.5 HP Power Exhaust	39	42	25	27	14	15	10	10

ELECTRIC HEAT DATA

Electric Heat Voltage			208	240	208	240	208	240	208	240	480	480	600	600
² Maximum Overcurrent Protection	Unit+ Electric Heat	5 kW	50	50	60	60	35	35	35	35	20	20	15	15
		7.5 kW	50	50	60	60	35	35	35	35	20	20	15	15
		10 kW	60	70	60	70	35	40	35	40	20	20	15	20
		15 kW	80	90	90	100	45	60	50	60	30	30	25	25
		22 kW	125	150	125	150	70	80	70	80	40	40	30	35
³ Minimum Circuit Ampacity	Unit+ Electric Heat	5 kW	37	37	41	41	24	24	26	26	13	14	9	10
		7.5 kW	44	49	48	53	26	29	28	31	14	16	12	13
		10 kW	55	62	59	66	32	36	35	39	18	19	15	16
		15 kW	78	88	82	92	45	51	48	54	26	27	21	22
		22 kW	112	127	116	131	65	74	67	76	37	38	30	31
² Maximum Overcurrent Protection	Unit+ Electric Heat and (1) 0.5 HP Power Exhaust	5 kW	60	60	60	60	35	35	40	40	20	20	15	15
		7.5 kW	60	60	60	60	35	35	40	40	20	20	15	15
		10 kW	60	70	70	70	35	40	40	45	20	20	15	20
		15 kW	80	90	90	100	50	60	50	60	30	30	25	25
		22 kW	125	150	125	150	70	80	70	80	40	40	30	35
³ Minimum Circuit Ampacity	Unit+ Electric Heat and (1) 0.5 HP Power Exhaust	5 kW	39	39	42	42	25	25	27	27	14	15	10	10
		7.5 kW	46	51	50	55	28	31	30	33	15	16	12	13
		10 kW	57	64	61	68	34	38	37	41	19	20	15	16
		15 kW	80	90	84	94	47	53	50	56	26	28	21	22
		22 kW	113	129	118	133	67	76	69	78	38	39	30	31

ELECTRIC HEAT ACCESSORIES

Unit Fuse Block	Unit Only	10A26	10A26	10A28	10A28	10A29	10A29
	Unit + Power Exhaust	10A26	10A26	10A28	10A28	10A29	10A29

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

¹ Extremes of operating range are plus and minus 10% of line voltage.² HACR type breaker or fuse.³ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

ELECTRICAL/ELECTRIC HEAT DATA**6 TON****ZCB074S4B**

¹ Voltage - 60hz		208/230V - 3 Ph	460V - 3 Ph	575V - 3 Ph
Compressor	Rated Load Amps	17.6	8.5	6.3
	Locked Rotor Amps	136	66.1	55.3
Outdoor Fan Motors	Full Load Amps	1.7	1	0.9
Power Exhaust (1) 0.5 HP	Full Load Amps	1.5	0.6	0.6
Indoor Blower Motor	Horsepower	2	2	2
	Full Load Amps	7.5	3.4	2.7
² Maximum Overcurrent Protection	Unit Only	45	20	15
	with (1) 0.5 HP Power Exhaust	50	20	15
³ Minimum Circuit Ampacity	Unit Only	32	16	12
	with (1) 0.5 HP Power Exhaust	33	16	13

ELECTRIC HEAT DATA

Electric Heat Voltage			208V	240V	480V	600V
² Maximum Overcurrent Protection	Unit + Electric Heat	7.5 kW	45	45	20	15
		10 kW	45	45	20	20
		15 kW	50	60	30	25
		22.5 kW	70	80	40	35
		30 kW	90	100	50	40
³ Minimum Circuit Ampacity	Unit + Electric Heat	7.5 kW	32	32	16	13
		10 kW	36	40	20	16
		15 kW	49	55	27	22
		22.5 kW	69	78	39	31
		30 kW	88	100	50	40
² Maximum Overcurrent Protection	Unit+ Electric Heat and (1) 0.5 HP Power Exhaust	7.5 kW	50	50	20	15
		10 kW	50	50	25	20
		15 kW	60	60	30	25
		22.5 kW	70	80	40	35
		30 kW	90	110	60	45
³ Minimum Circuit Ampacity	Unit+ Electric Heat and (1) 0.5 HP Power Exhaust	7.5 kW	33	34	17	14
		10 kW	38	42	21	17
		15 kW	51	57	28	23
		22.5 kW	70	79	39	32
		30 kW	90	102	51	41

ELECTRICAL ACCESSORIES

Unit Fuse Block	Unit Only	10A28	10A28	10A29	10A29
	Unit + Power Exhaust	10A28	10A28	10A29	10A29

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

¹ Extremes of operating range are plus and minus 10% of line voltage.² HACR type breaker or fuse.³ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

ELECTRICAL/ELECTRIC HEAT DATA**6 TON****ZCB074S4T**

¹ Voltage - 60hz		208/230V - 3 Ph	460V - 3 Ph	575V - 3 Ph
Compressor	Rated Load Amps	17.6	8.5	6.3
	Locked Rotor Amps	136	66.1	55.3
Outdoor Fan Motors	Full Load Amps	1.7	1	0.9
Power Exhaust (1) 0.5 HP	Full Load Amps	2.4	1.3	1
Indoor Blower Motor	Horsepower	2	2	2
	Full Load Amps	7.5	3.4	2.7
² Maximum Overcurrent Protection	Unit Only	45	20	15
	with (1) 0.5 HP Power Exhaust	50	20	15
³ Minimum Circuit Ampacity	Unit Only	32	16	12
	with (1) 0.5 HP Power Exhaust	34	17	13

ELECTRIC HEAT DATA

Electric Heat Voltage			208V	240V	480V	600V
² Maximum Overcurrent Protection	Unit + Electric Heat	7.5 kW	45	45	20	15
		10 kW	45	45	20	20
		15 kW	50	60	30	25
		22.5 kW	70	80	40	35
		30 kW	90	100	50	40
³ Minimum Circuit Ampacity	Unit + Electric Heat	7.5 kW	32	32	16	13
		10 kW	36	40	20	16
		15 kW	49	55	27	22
		22.5 kW	69	78	39	31
		30 kW	88	100	50	40
² Maximum Overcurrent Protection	Unit+ Electric Heat and (1) 0.5 HP Power Exhaust	7.5 kW	50	50	20	15
		10 kW	50	50	25	20
		15 kW	60	60	30	25
		22.5 kW	80	90	40	35
		30 kW	100	110	60	45
³ Minimum Circuit Ampacity	Unit+ Electric Heat and (1) 0.5 HP Power Exhaust	7.5 kW	34	35	18	14
		10 kW	39	43	21	17
		15 kW	52	58	29	23
		22.5 kW	72	81	40	32
		30 kW	91	103	51	41

ELECTRICAL ACCESSORIES

Unit Fuse Block	Unit Only	10A28	10A28	10A29	10A29
	Unit + Power Exhaust	10A28	10A28	10A29	10A29

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

¹ Extremes of operating range are plus and minus 10% of line voltage.² HACR type breaker or fuse.³ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

ELECTRIC HEAT CAPACITIES

Input Voltage	5 kW			7.5 kW			10 kW		
	No of Stages	kW input	Btuh Output	No of Stages	kW input	Btuh Output	No of Stages	kW input	Btuh Output
208	1	3.8	12,800	1	5.6	19,200	1	7.5	25,600
220	1	4.2	14,300	1	6.3	21,500	1	8.4	28,700
230	1	4.6	15,700	1	6.9	23,500	1	9.2	31,400
240	1	5.0	17,100	1	7.5	25,600	1	10.0	34,200
440	1	4.2	14,300	1	6.3	21,500	1	8.4	28,700
460	1	4.6	15,700	1	6.9	23,500	1	9.2	31,400
480	1	5.0	17,100	1	7.5	25,600	1	10.0	34,200
550	1	4.2	14,300	1	6.3	21,500	1	8.4	28,700
575	1	4.6	15,700	1	6.9	23,500	1	9.2	31,400
600	1	5.0	17,100	1	7.5	25,600	1	10.0	34,200
Input Voltage	15 kW			22.5 kW			30 kW		
	No of Stages	kW input	Btuh Output	No of Stages	kW input	Btuh Output	No of Stages	kW input	Btuh Output
208	1	11.2	38,400	1	16.9	57,700	1	22.5	76,800
220	1	12.6	43,000	1	18.9	64,500	1	25.2	86,000
230	1	13.8	47,000	1	20.7	70,700	1	27.5	93,900
240	1	15.0	51,200	1	22.5	76,800	1	30.0	102,400
440	1	12.6	43,000	1	18.9	64,500	1	25.2	86,000
460	1	13.8	47,000	1	20.7	70,700	1	27.5	93,900
480	1	15.0	51,200	1	22.5	76,800	1	30.0	102,400
550	1	12.6	43,000	1	18.9	64,500	1	25.2	86,000
575	1	13.8	47,000	1	20.7	70,700	1	27.5	93,900
600	1	15.0	51,200	1	22.5	76,800	1	30.0	102,400

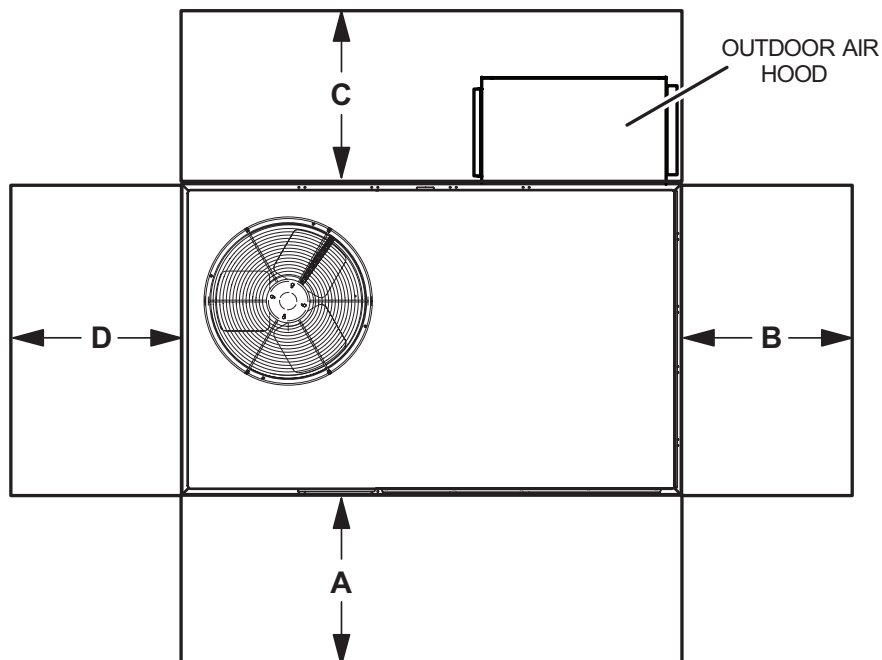
OUTDOOR SOUND DATA

Unit Model No.	Octave Band Linear Sound Power Levels dB, re 10 ⁻¹² Watts - Center Frequency - Hz							¹ Sound Rating Number (SRN) (dBA)
	125	250	500	1000	2000	4000	8000	
ZCB036	66	70	73	72	70	67	60	78
ZCB048	68	71	75	74	71	68	63	80
ZCB060	64	68	72	73	69	67	63	78
ZCB074	73	76	80	78	73	68	66	84

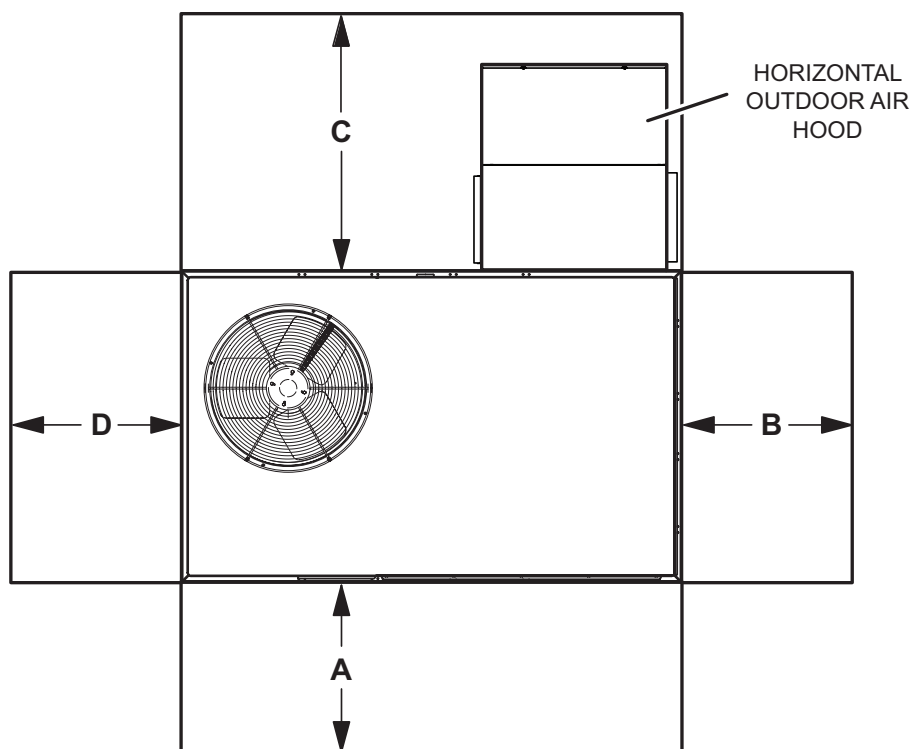
¹ Sound Rating Number according to ANSI/AHRI Standard 270-2008. "SRN" is the overall A-Weighted Sound Power Level, (LWA), dB (100 Hz to 10,000 Hz).

UNIT CLEARANCES - INCHES (MM)

UNIT WITH DOWNFLOW ECONOMIZER



UNIT WITH HORIZONTAL ECONOMIZER



¹ Unit Clearance	A		B		C Downflow		C Horizontal		D		Top Clearance
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	
Service Clearance	36	914	36	914	36	914	60	1524	36	914	Unobstructed
Minimum Operation Clearance	36	914	36	914	36	914	60	1524	36	914	

NOTE - Entire perimeter of unit base requires support when elevated above the mounting surface.

¹ Service Clearance - Required for removal of serviceable parts.

Minimum Operation Clearance - Required clearance for proper unit operation.

OPTIONAL CONVENTIONAL TEMPERATURE CONTROL SYSTEMS

Item		Model No.	Catalog No.
7-DAY PROGRAMMABLE THERMOSTAT - BACNET COMPATIBLE WITH REHEAT FUNCTION			
 • For units with or without ¹ Dehumidification Option • BTL listed MS/TP ensures compatibility with any BACnet system • Built-in control programs for conventional and heat pump applications • Conventional systems up to 3-stage heat and 3-stage cool • Heat pumps with 1 or 2 compressors and up to 2-stage auxiliary heat • On-board temperature and humidity sensor • Multiple configurable inputs and outputs enable advanced control strategies • Set-up Wizard enables rapid system configuration • No special tools required for installation or commissioning • Seven-day (2, 4 or 6 event) occupancy scheduling per day • Backlit 5-inch LCD touchscreen		---	Y8241
	¹ BACnet Thermostat (Y8241) will control units with and without dehumidification. If there is a mix of units equipped with and without dehumidification on the same site, this thermostat can be used for all units if desired.		
BACnet Controls (no reheat capability)	BACnet® Module (factory or field installed)	K0CTRL31A-2	16X70
	BACnet® Room Sensor with Display (field installed)	K0SNSR01FF1	97W23
	BACnet® Room Sensor without Display (field installed)	K0SNSR00FF1	97W24
Optional Accessories	Plenum Cable (RJ45/CAT5 75 ft.)	K0MISC00FF1	97W25

WEIGHT DATA

Model Number	Net				Shipping			
	Base		Max.		Base		Max.	
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg
ZCB036S	474	215	544	247	479	217	549	249
ZCB048S	483	219	553	251	488	221	558	253
ZCB060S	568	258	640	290	573	260	645	293
ZCB074S	568	258	621	282	573	260	626	284

Base Unit - The unit with NO OPTIONS.

Max. Unit - The unit with ALL OPTIONS Installed. (Economizer, etc.)

OPTIONS / ACCESSORIES

			Shipping Weights	
			lbs.	kg
ECONOMIZER				
Economizer, Includes Outdoor Air Hood and Barometric Relief Dampers with Hood	Downflow		75	34
	Horizontal		102	46
OUTDOOR AIR				
Outdoor Air Dampers				
Motorized			39	18
Manual			29	13
POWER EXHAUST				
Standard Static	Downflow		54	24
	Horizontal		41	19
ELECTRIC HEAT				
		5 kW	25	11
		7.5 kW	26	12
		10 kW	27	12
		15 kW	27	12
		22.5 kW	29	13
		30 kW	30	14
ROOF CURBS				
Hybrid Roof Curbs, Downflow				
8 in. height		Z1CURB70A-1	63	29
14 in. height		Z1CURB71A-1	83	38
18 in. height		Z1CURB72A-1	93	42
24 in. height		Z1CURB73A-1	113	51
CEILING DIFFUSERS				
Step-Down	RTD9-65S		80	36
	RTD11-95S		118	54
Flush	FD9-65S		80	36
	FD11-95S		118	54

DIMENSIONS - UNIT - INCHES (MM)

Model No.	CORNER WEIGHTS																CENTER OF GRAVITY							
	AA				BB				CC				DD				EE				FF			
	Base		Max.		Base		Max.		Base		Max.		Base		Max.		Base		Max.		Base		Max.	
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	in.	mm	in.	mm	in.	mm	in.	mm
036	117	53	134	61	112	51	129	59	120	54	138	63	125	57	143	65	38.75	984	36.75	933	22.75	578	24.5	622
048	119	54	136	62	115	52	131	59	122	55	140	64	127	58	145	66	38.75	984	36.75	933	22.75	578	24.5	622
060	156	71	176	80	140	64	158	72	129	59	145	66	143	65	161	73	40	1016	38	965	24.5	622	26	660
074	136	62	149	68	136	62	149	68	148	67	162	73	148	67	162	73	38	965	36	914	22.5	572	24	610

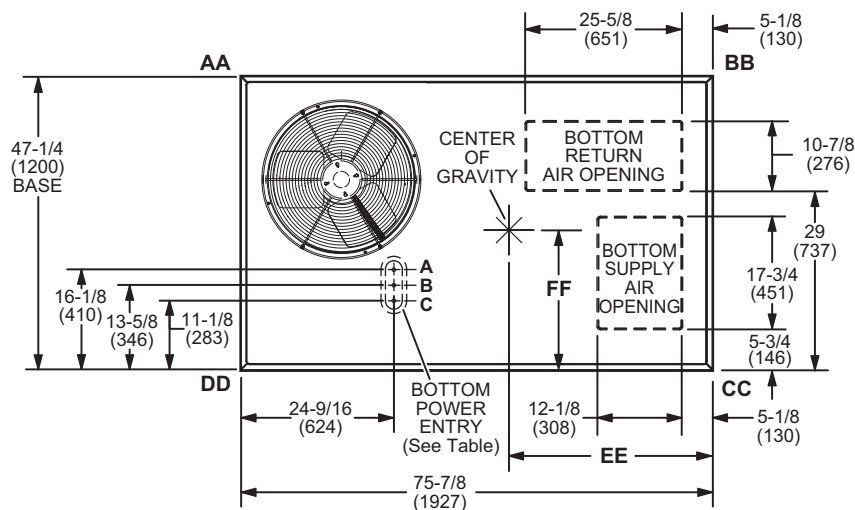
Base Unit - The unit with NO OPTIONS.

Max. Unit - The unit with ALL OPTIONS Installed. (Economizer, largest blower motor, etc.).

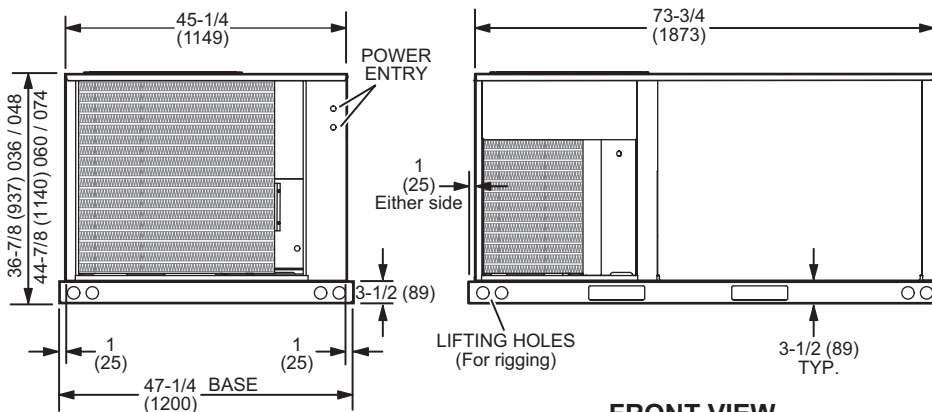
BOTTOM POWER ENTRY

Holes required for Optional Bottom Power Entry Kit

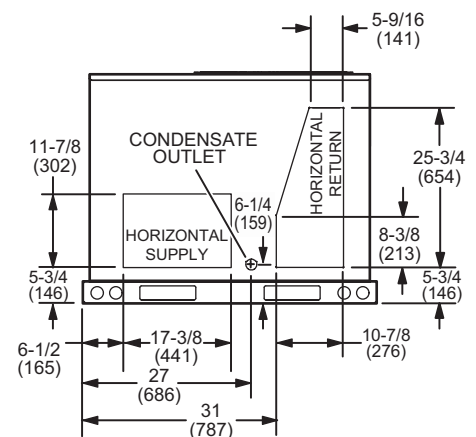
	Threaded Conduit Fittings (Provided in Kit)	Wire Use	Hole Diameter Required in Unit Base (Max.)
A	1/2	ACC	7/8 (23)
B	1/2	24V	7/8 (23)
C	3/4	POWER	1-1/8 (29)



TOP VIEW (Base)



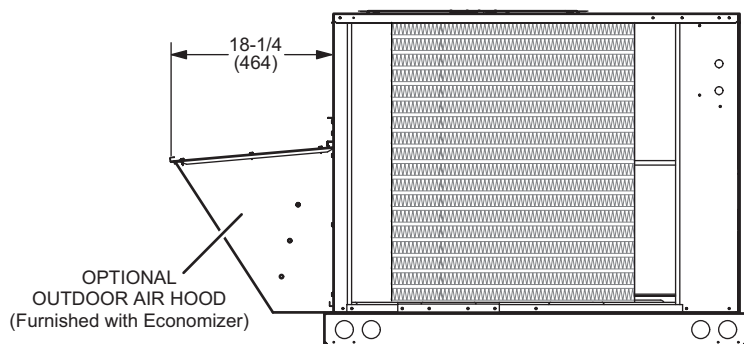
FRONT VIEW



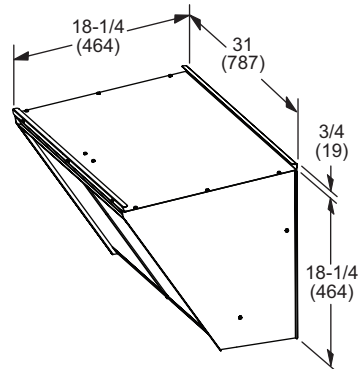
END VIEW

DIMENSIONS - ACCESSORIES - INCHES (MM)

OUTDOOR AIR HOOD DETAIL FOR OPTIONAL ECONOMIZER (Downflow Applications)

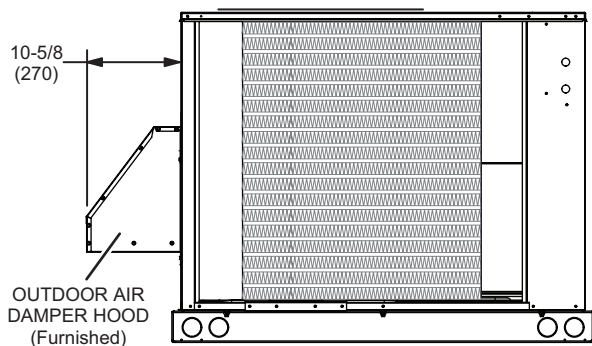


SIDE VIEW



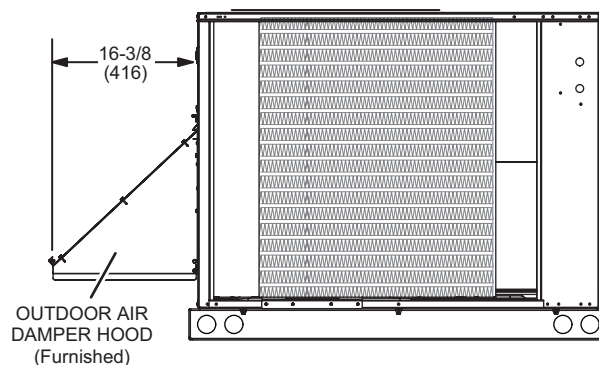
OUTDOOR AIR DAMPER HOOD DETAIL (Downflow or Horizontal Applications)

MANUAL OUTDOOR AIR HOOD

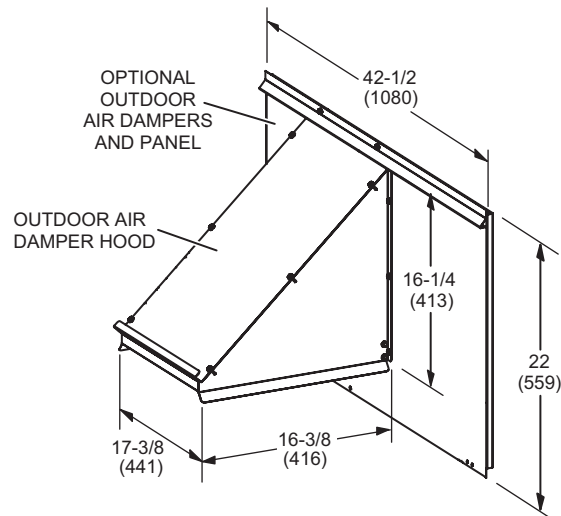
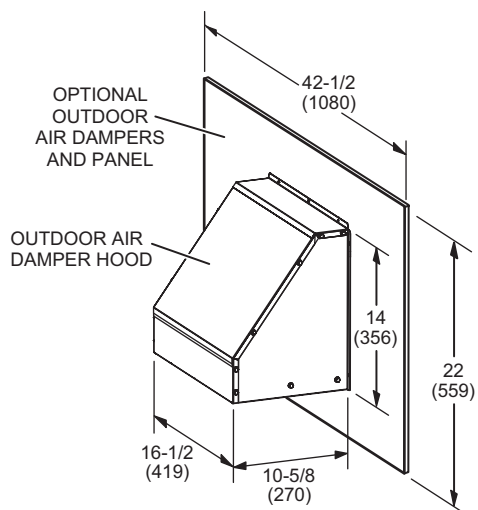


END VIEW

MOTORIZED OUTDOOR AIR HOOD

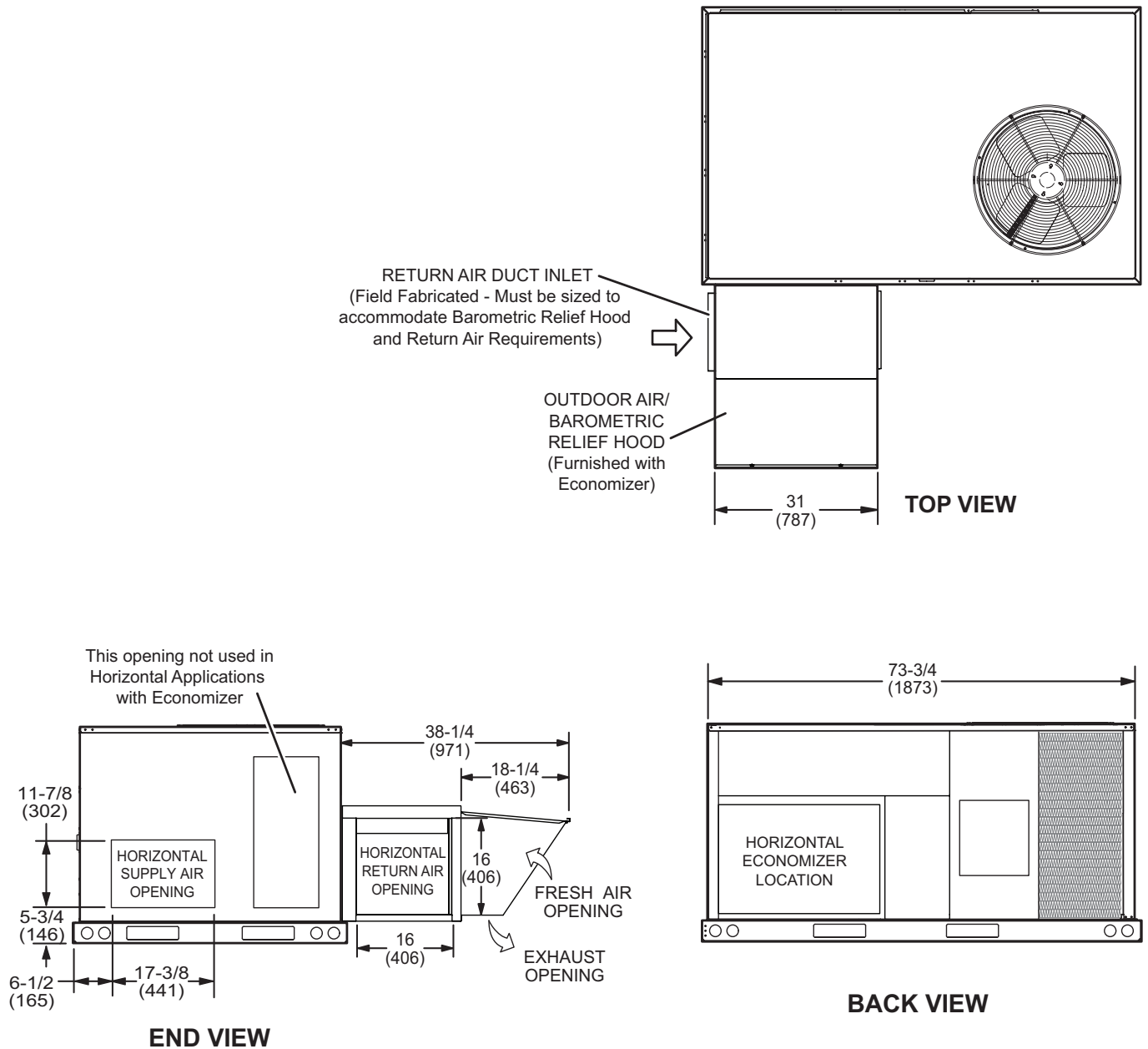


END VIEW



DIMENSIONS - ACCESSORIES - INCHES (MM)

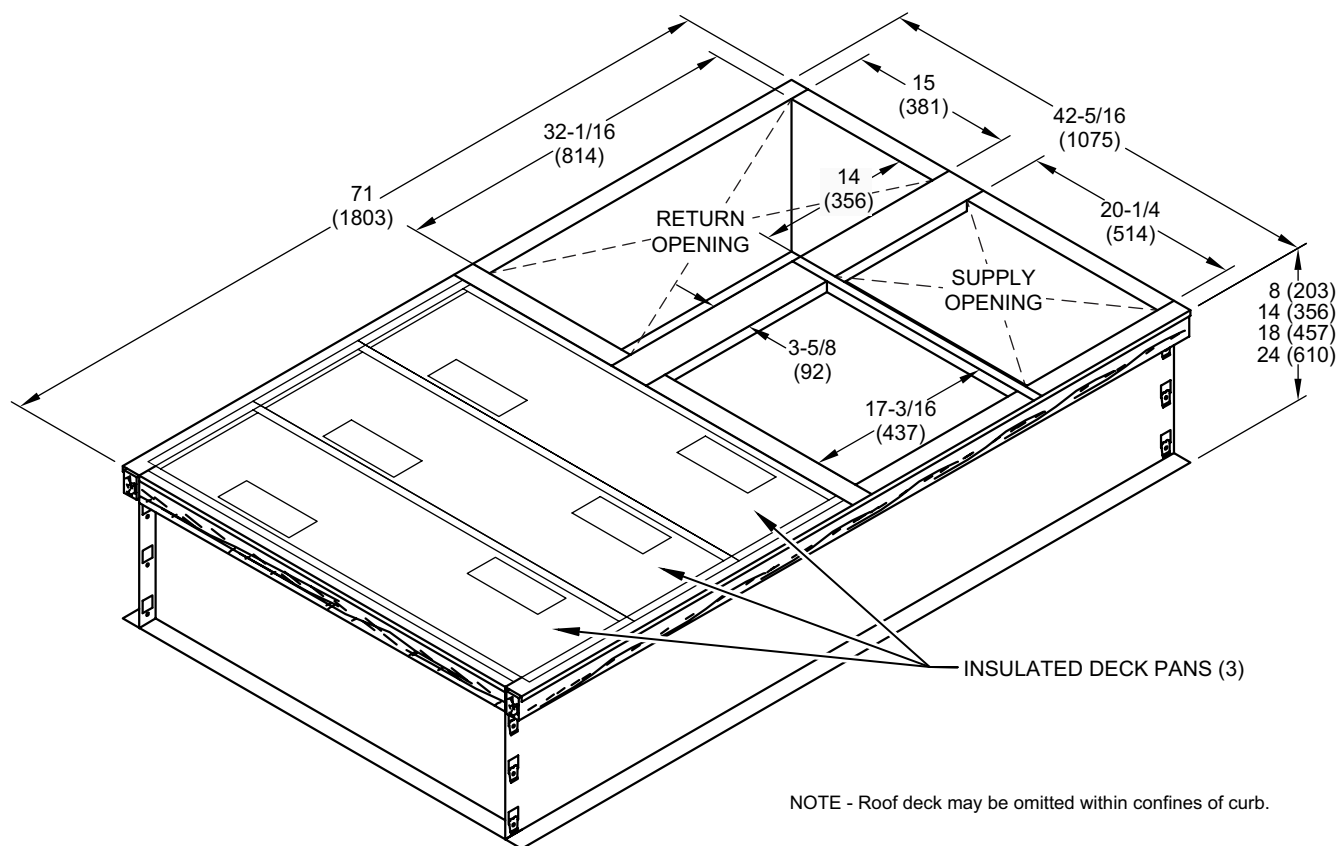
OUTDOOR AIR HOOD DETAIL WITH OPTIONAL ECONOMIZER AND BAROMETRIC RELIEF DAMPERS (Horizontal Applications)



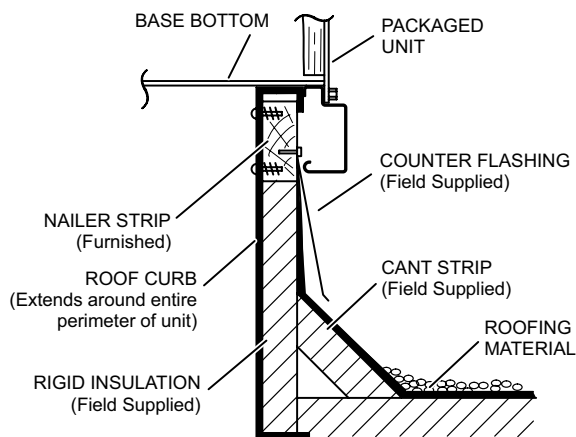
Note - Return Air Duct and Transition must be supported.

DIMENSIONS - ACCESSORIES - INCHES (MM)

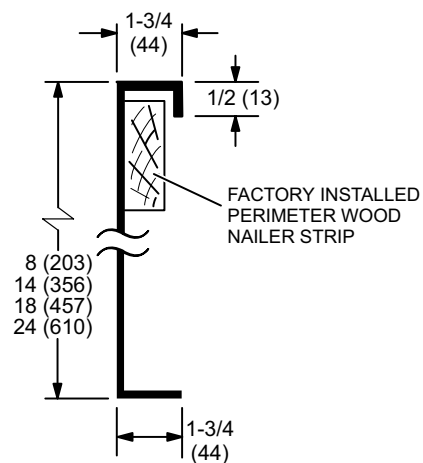
HYBRID ROOF CURBS - DOUBLE DUCT OPENING



TYPICAL FLASHING DETAIL FOR ROOF CURB



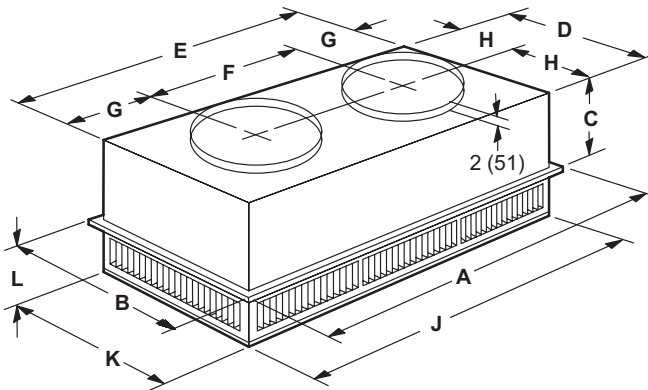
DETAIL ROOF CURB



DIMENSIONS - ACCESSORIES - INCHES (MM)

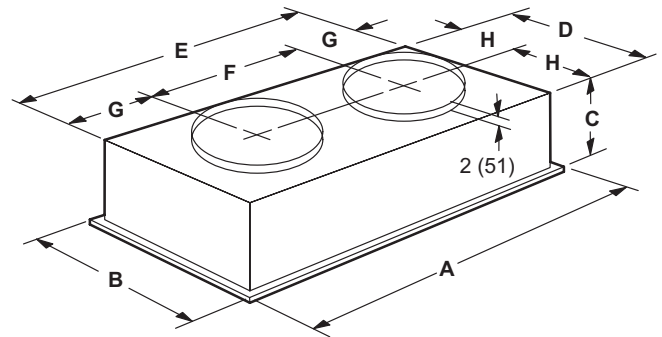
COMBINATION CEILING SUPPLY AND RETURN DIFFUSERS

STEP-DOWN CEILING DIFFUSER



Model Number		RTD9-65S	RTD11-95S
A	in.	47-5/8	47-5/8
	mm	1159	1159
B	in.	23-5/8	29-5/8
	mm	600	752
C	in.	11-3/8	14-3/8
	mm	289	365
D	in.	21-1/2	27-1/2
	mm	546	699
E	in.	45-1/2	45-1/2
	mm	1156	1158
F	in.	22-1/2	22-1/2
	mm	572	572
G	in.	11-1/2	11-1/2
	mm	292	292
H	in.	10-3/4	13-3/4
	mm	273	349
J	in.	45-1/2	45-1/2
	mm	1156	1156
K	in.	21-1/2	27-1/2
	mm	546	699
L	in.	7-1/8	8-1/8
	mm	181	206
Duct Size	in.	18 round	20 round
	mm	457 round	508 round

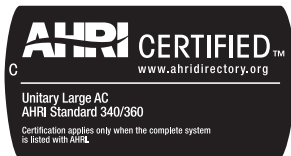
FLUSH CEILING DIFFUSER



Model Number		FD9-65S	FD11-95S
A	in.	47-5/8	47-5/8
	mm	1159	1159
B	in.	23-5/8	29-5/8
	mm	600	752
C	in.	13-1/2	16-5/8
	mm	343	422
D	in.	21	27
	mm	533	686
E	in.	45	45
	mm	1143	1143
F	in.	22-1/2	22-1/2
	mm	572	572
G	in.	11-1/4	11-1/4
	mm	286	286
H	in.	10-1/2	13-1/2
	mm	267	343
Duct Size	in.	18 round	20 round
	mm	457 round	508 round

REVISIONS

Section	Description
Ratings	Updated for 048, 060 and 074T models.



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