





N-GENERATION

CITY**MULTI®** VRF



ABAD

1

AV



INTRODUCING THE CITY**MULTI®** N-GENERATION

Mitsubishi Electric Trane HVAC US (METUS) presents the CITY MULTI N-Generation outdoor unit, a technological advancement in a smaller package. The new generation represents the latest in a long line of innovations designed to maximize energy efficiency, improve flexibility, and increase performance without sacrificing occupant comfort. Whether you're a property owner, engineer, architect or contractor, CITY MULTI N-Generation is the ideal choice. With operating and lifecycle costs lower than you might expect, there's never been a better time to get comfortable with VRF.

MISLEISH ELECTINC



eatures and Benefits	. 4
ered Product Lineup	. 6
PECIFICATION TABLES	
Standard Efficiency	
R2-Series	7–10
Y-Series	1–13
High Efficiency	
R2-Series $\ldots \ldots 1$	4–15
Y-Series	6–21
BC Controller	
Main, Sub	2–23

WHY CHOOSE N-GENERATION FROM MITSUBISHI ELECTRIC TRANE HVAC US

METUS is an industry leader in VRF heating and cooling technology. The CITY MULTI[®] product line was introduced to the United States over 15 years ago as the first Variable Refrigerant Flow system for commercial use in the USA. Since then, we've rapidly advanced the technology to provide solutions to meet most commercial applications. Here are just a few advantages that the N-Generation brings to your next commercial project.

FEATURES:

Improved Design Flexibility

Tiered product line-up – Standard Efficiency, High Efficiency, and improved H2i[®] hyper-heating models, resulting in further application flexibility for an owner.

- With up to a 30% smaller footprint than previous outdoor units, and a unique four sided heat exchanger, the N-Generation maximizes usable space and outdoor unit placement without sacrificing performance
- Expanded vertical piping limits, up to 295 feet, increase design options within a building
- The redesigned main Branch Circuit (BC) Controller features a 14% reduction in height over previous models along with a removable drain pan which provides service access from the bottom
- Connect up to 11 sub-BC Controllers to one main BC controller to increase design possibilities
- N-Generation outdoor units require up to 13% less refrigerant charge than L-Generation systems, saving you installation time and money
- Broader range of capacities, with models from6 to 36 tons



Improved Operational Flexibility

- Increased energy efficiency with up to 27% IEER improvement over prior generations
- New four sided heat exchanger, compressor and fan blade design improve both nominal and seasonal efficiency levels
- Unique flat tube aluminum heat exchanger ensures maximum heat transfer, particularly at part-load conditions
- Improved heating performance, with flash injection technology standard on High-Efficiency models, provides comfort in any climate
- Built-in USB port allows for storage and download of up to five days of operational data directly into Maintenance tool, leading to simplified troubleshooting and maintenance

Ultra-quiet noise levels

- Improved compressor and fan designs reduce noise output, with decibel levels as low as 56.5 dB(A), a reduction from prior generations
- Sound levels further reduced with five adjustable airflow settings, with incremental capacity steps, resulting in varied system noise levels

Industry-Leading Support

- ▶ No one supports VRF technology better than Mitsubishi Electric Trane HVAC US
- Unmatched project assistance from system design through start-up and ongoing technical support
- Powerful network of distribution, installation and service professionals
- Industry-leading training programs that help you apply and get the most out of CITY MULTI[®] systems

N-Generation offers more design flexibility, along with industry leading support from METUS and your local Trane office. These are just a few of the powerful reasons to choose the new CITY MULTI N-Generation outdoor unit for your next project. Let the experts at Trane and Mitsubishi Electric Trane US LLC solve your design, comfort and efficiency challenges. For more information, visit trane.com/ductless or contact your sales representative at Trane.com/contactus.



HexiCoil™ Technology



Inverter Compressor

CITY MULTI® N-GENERATION: TIERED PRODUCT LINEUP

The CITY MULTI N-Generation features a tiered product lineup to satisfy the diverse design conditions of commercial applications. N-Generation outdoor units offer improved heating and cooling performance in virtually any application. Our product lineup includes:

Standard Efficiency

- IEER improvement of up to 17% over prior generations
- > Up to 295 feet of vertical separation between outdoor and indoor unit(s) an improvement of 131 feet
- Reduced footprint of up to 30% over prior generations
- Reduced refrigerant volume up to 36% over K-Generation and up to 13% over L-Generation

High Efficiency

- ▶ Improved heating performance providing up to 78% heating capacity down to -13° F
- Flash injection technology built-in as standard
- Up to 11% IEER improvement over N-Generation Standard Efficiency
- Larger single capacity modules: 16, 18, and 20 ton R2-Series units (Fall 2019)

H2i[®]

6

- Improved Hyper-Heating INVERTER[®] (H2i) technology delivers superior heating performance in extreme climates
- ► Introduction of 10 ton single module
- Provides continuous heating during defrost, reducing occupant comfort complaints
- ▶ Up to 85% heating capacity at -13° F and up to 70% heating capacity at -22° F

BC Controllers (for R2-Series Systems)

- Reduction in height of approximately 14% compared to previous model
- Connect up to 11 sub-BC Controllers per main BC Controller
- \blacktriangleright Increased piping distance from the main BC Controller to the furthest indoor unit
- Inclusion of service access from the bottom

SPECIFICATION TABLES



SPECIFICATIONS: 🔻

R2-SERIES (STANDARD EFFICIENCY)

TURYP**(3/	JRYP**(3/4)AN40AN										
SPECIF	ICATION		MODEL NAMES								
VOLTAGES		208V /230V	TURYP0723AN40A (N/B)	TURYP0963AN40A (N/B)	TURYP1203AN40A (N/B)	TURYP1443AN40A (N/B)	TURYP1684AN40A (N/B)				
		460V	TURYP0724AN40A (N/B)	TURYP0964AN40A (N/B)	TURYP1204AN40A (N/B)	TURYP1444AN40A (N/B)	TURYP1684AN40A (N/B)				
Power Source			3-phase 3-wire 208-230 V ±10% 60 Hz								
Tower Source				3-phase 3-wire 460 V ±10% 60 Hz							
Capacity (Nominal)	Cooling	Btu/h	72,000	96,000	120,000	144,000	168,000				
	Heating	Btu/n	24/22	33/30	43/40	52/48	61/57				
	MCA	A	11	15	18	20	28				
			40/35	50/45	70/60	80/70	100/90				
Electrical Supply	MOP	A	15	20	25	30	40				
	SCCR	Α			5						
	Recommended Fuse	А	30/30	40/40	50/50	60/60	70/70				
	Size		15	20	25	30	40				
	Type X Quantity	CEM	Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2				
Fan	AIFHOW Rate	CFM	6,000	7,400	8,300	9,550	14,850				
	External Static Pressure	2		Selectable; 0, 0.12, 0.24, 0.32 in.WG; factory set to 0 in.WG							
	Type X Quantity		Inverter scroll hermetic compressor x 1								
Compressor Operating Range			15% to 100%	15% to 100%	15% to 100%	15% to 100%	15% to 100%				
	Lubricant				MEL32						
Refrigerant Type					R410A						
External Finish				Pre-coated galvanized steel	sheet (+powder coating for -BS	type) <munsell 1="" 5y="" 8=""></munsell>					
Height Michael		In	26.174	40.7/0	/1-5/8	40.7/0	69 20 /22				
Dimensions	Denth	- 111.	50-1/4	40-7/0	29-5/32	40-7/0	00-29/32				
	Deptil		483	576	598	646	739				
Net Weight		lbs.	516	611	633	682	774				
Sound Pressure Level (Measur	ed in Anechoic Room)	dB(A)	56.5/58.0	58.5/60.0	60.0/62.0	65.0/65.5	62.5/66.5				
Sound Pressure Level (Measur	ed in Anechoic Room)	dB(A)	75.5/77.0	77.5/79.0 80.0/80.5		85.5/85.5	81.0/85.5				
Protection Devices	High Pressure		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)								
Totection Devices	Inverter Circuit (Compressor/Fan)			Over-he	eat protection, Over-current pro	tection					
Refrigerant Pipe	Liquid (High Pressure) (Brazed)	In	5/8 Brazed	3/4 Brazed	3/4 Brazed	7/8 Brazed	7/8 Brazed				
Dimensions	Gas (Low Pressure) (Brazed)		3/4 Brazed	7/8 Brazed	1-1/8 Brazed	1-1/8 Brazed	1-1/8 Brazed				
Indoor Unit Connectable	Total capacity			50	0~150% of outdoor unit capaci	У					
	Model / Quantity		P05~P96/1~18	P05~P96/1~24	P05~P96/1~30	P05~P96/1~36	P05~P96/1~42				
Guaranteed Operating	Cooling (Outdoor) *2				23~126°F (-5~52°C)						
Range *1	Heating (Outdoor) *3				-4~60°F (-20~15.5°C)						
Extended Operating Range *4	Heating (Outdoor)				-18~60°F (-28~15.5°C)						
	EER (Ducted/Non-Ducted)		13.1 / 14.7	12.8 / 14.5	12.1 / 13.2	11.0 / 12.2	10.6 / 11.0				
Efficiency Ratings *5	IEER (Ducted/Non-Ducted)		23.8 / 29.2	25.5 / 31.9	23.3 / 28.8	23.1 / 28.7	21.3 / 25.8				
	COP (Ducted/Non-Ducted)		3.76 / 4.09	3.88 / 4.14	3.61 / 4.01	3.43 / 3.84	3.30 / 3.80				
	SCHE (Ducted/Non-Ducted)		25.9 / 25.5	23.5 / 28.3	25.3 / 29.1	24.8 / 27.7	24.7 / 28.3				

NOTES

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)

Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

1. Harsh weather environments may demand performance enhancing equipment. Ask your sales representative for more details about your region.

2. For details on extended cooling operation range down to $\mbox{-}10^\circ$ F DB, see Low Ambient Kit Submittal.

3. When applying product below $-4^{\circ}F$, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.

. Unit will continue to operate in extended operating range, but capacity is not guaranteed.

SPECIFICATIONS:

R2-SERIES (STANDARD EFFICIENCY)

IURIP [*] *(:	IURIP ^{**} (3/4)BN40AN								
SPECIFI	ICATIONS		MODEL NAMES						
		208V	TURYP1923BN40A (N/B)	TURYP2163BN40A (N/B)	TURYP2403BN40A (N/B)	TURYP2643BN40A (N/B)			
VOLTAGES		/230V	With 2 TURYP0963AN40A (N/B)	With 1 TURYP1203AN40A (N/B) and 1 TURYP0963AN40A (N/B)	With 2 TURYP1203AN40A (N/B)	With 1 TURYP1443AN40A (N/B) and 1 TURYP1203AN40A (N/B)			
		4001	TURYP1924BN40-A (N/B)	TURYP2164BN40A (N/B)	TURYP2404BN40A (N/B)	TURYP2644BN40A (N/B)			
		460 V	With 2 TURYP0964AN40A (N/B)	With 1 TURYP1204AN40A (N/B) and 1 TURYP0964AN40A (N/B)	With 2 TURYP1204AN40A (N/B)	With 1 TURYP1444AN40A (N/B) and 1 TURYP1204AN40A (N/B)			
				3-phase 3-wire 208	-230 V ±10% 60 Hz				
Power Source				3-nhase 3-wire 4	60 V +10% 60 Hz				
	Cooling	Btu/h	192.000	216.000	240.000	264.000			
Capacity (Nominal)	Heating	Btu/h	215.000	243.000	270.000	295,000			
		,	Refer to:	Refer to:	Refer to:	Refer to:			
	MCA	A	TURYP0963AN40A (N/B)	TURYP1203AN40A (N/B) TURYP0963AN40A (N/B)	TURYP1203AN40A (N/B)	TURYP1443AN40A (N/B) TURYP1203AN40A (N/B)			
Electrical Supply	MOP	Α		1011105051111011(11)15					
	SCCR	A	TURYP0964AN40A (N/B)	TURYP1204AN40A (N/B)	TURYP1204AN40A (N/B)	TURYP1444AN40A (N/B)			
	Recommended Fuse Size	A		TURYP0964AN40A (N/B)		TURYP1204AN40A (N/B)			
	Type X Quantity								
Fan	Airflow Rate CFM								
	External Static Pressure								
	Type X Quantity								
Compressor	Operating Range		7.5% to 100%	7.5% to 100%	7.5% to 100%	7.5% to 100%			
Lubricant			Refer to:	Refer to:	Refer to:	Refer to:			
Refrigerant	Туре		TURYP0963AN40A (N/B)	TURYP1203AN40A (N/B)	TURYP1203AN40A (N/B)	TURYP1443AN40A (N/B)			
External Finish				TURYP0963AN40A (N/B)		TURYP1203AN40A (N/B)			
	Height								
Dimensions	Width	In.	TURYP0964AN40A (N/B)	TURYP1204AN40A (N/B)	TURYP1204AN40A (N/B)	TURYP1444AN40A (N/B)			
	Depth	1		TURYP0964AN40A (N/B)		TURYP1204AN40A (N/B)			
Net Weight		lbs.							
Sound Pressure Level (Measured in	Anechoic Room)	dB(A)	61.5/63.0	62.5/64.5	63.0/65.0	66.5/67.5			
Sound Pressure Level (Measured in	Anechoic Room)	dB(A)	80.5/82.0	82.0/83.0 83.0/83.5		87.0/87.0			
	High Pressure			High pressure sensor, High press	igh pressure switch at 4.15 MPa (601 psi)				
Protection Devices	Inverter Circuit (Compressor/Fan)			Over-heat protection, (Over-current protection				
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	In.	7/8 Brazed	7/8 Brazed (1-1/8 Brazed for the part that exceeds 65 m)	7/8 Brazed (1-1/8 Brazed for the part that exceeds 65 m)	1-1/8 Brazed			
	Gas (Low Pressure) (Brazed)	1	1-1/8 Brazed	1-1/8 Brazed	1-3/8 Brazed	1-3/8 Brazed			
	Total capacity			50~150% of out	loor unit capacity				
Indoor Unit Connectable	Model / Quantity			P05~P9	6/1~48				
Guaranteed Operating	Cooling (Outdoor) *2			23~126°F	(-5~52°C)				
Range *1	Heating (Outdoor) *3			-4~60°F (-	20~15.5°C)				
Extended Operating Range *4	Heating (Outdoor)			-18~60°F (-	-28~15.5°C)				
	EER (Ducted/Non-Ducted)		11.9 / 13.5	11.6 / 13.0	11.2 / 11.7	10.7 / 11.3			
Efficiency Dating: *5	IEER (Ducted/Non-Ducted)		24.3 / 30.7	23.3 / 29.2	22.3 / 26.3	22.2 / 26.4			
Enciency ratings "5	COP (Ducted/Non-Ducted)		3.60 / 3.88	3.49 / 3.82	3.36 / 3.56	3.28 / 3.50			
	SCHE (Ducted/Non-Ducted)		23.0 / 28.0	22.7 / 26.9	22.9 / 26.8	22.3 / 25.7			

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)

Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

Twinning kit is required for combining multiple individual outdoor units in the field for $\rm TURYP^{**}(3/4)BN40A(N/B)$ combined systems.

1. Harsh weather environments may demand performance enhancing equipment. Ask your sales representative for more details about your region.

2. For details on extended cooling operation range down to $\rm -10^\circ$ F DB, see Low Ambient Kit Submittal.

3. When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.

4. Unit will continue to operate in extended operating range, but capacity is not guaranteed.

SPECIFICATIONS: R2-SERIES (STANDARD EFFICIENCY)

TURYP**(3	/4)BN40AN						
SPECIFI	CATIONS		MODEL NAMES				
		208V	TURYP2883BN40A (N/B)	TURYP3123BN40A (N/B)	TURYP3363BN40A (N/B)		
VOLTACES		/230V	With 2 TURYP1443AN40A (N/B)	With 1 TURYP1963AN40A (N/B) and 1 TURYP1443AN40A (N/B)	With 2 TURYP1683AN40A (N/B)		
VOLTAGES		460V	TURYP2884BN40A (N/B)	TURYP3124BN40A (N/B)	TURYP3364BN40A (N/B)		
		400 V	With 2 TURYP1444AN40A (N/B)	With 1 TURYP1684AN40A (N/B) and 1 TURYP1444AN40A (N/B)	With 2 TURYP1684AN40A (N/B)		
				3-phase 3-wire 208-230 V ±10% 60 Hz			
Power Source				3-phase 3-wire 460 V ±10% 60 Hz			
	Cooling	Btu/h	288.000	312.000	336.000		
Capacity (Nominal)	Heating	Btu/h	323,000	350,000	378,000		
	MCA	A	Refer to: With 2 TURYP1443AN40A (N/B)	Refer to: With 1 TURYP1963AN40A (N/B) and 1	Refer to: With 2 TURYP1683AN40A (N/B)		
Electrical Supply	МОР	A		TURYP1443AN40A (N/B)			
	SCCR	A	TURYP1444AN40A (N/B)	TURYP1684AN40A (N/B)	TURYP1684AN40A (N/B)		
	Recommended Fuse Size	А		TURYP1444AN40A (N/B)			
	Type X Quantity						
Fan	Airflow Rate	CFM					
External Static Pressure							
C	Type X Quantity		7.50/ +- 1000/	7.50/ +- 1000/	7.50/ +- 1000/		
Compressor	Upricant		7.5% t0 100%	7.5% t0 100%	7.5% t0 100%		
Refrigerant	Type		With 2 TURYP1443AN40A (N/B)	With 1 TURYP1963AN40A (N/B) and 1	With 2 TURYP1683AN40A (N/B)		
External Finish	-57-			TURYP1443AN40A (N/B)			
	Height						
Dimensions	Width	In.	TURYP1444AN40A (N/B)	TURYP1684AN40A (N/B)	TURYP1684AN40A (N/B)		
	Depth			TURYP1444AN40A (N/B)			
Net Weight		lbs.					
Sound Pressure Level (Measured in A	Anechoic Room)	dB(A)	68.0/68.5	67.0/69.0	65.5/69.5		
Sound Pressure Level (Measured in A	Anechoic Room)	dB(A)	88.5/88.5	87.0/88.5	84.0/88.5		
	High Pressure		High pre	essure sensor, High pressure switch at 4.15 MPa	(601 psi)		
Protection Devices	Inverter Circuit (Compressor/Fan)		Over-heat protection, Over-current protection				
Refrigerant Pine Dimensions	Liquid (High Pressure) (Brazed)	In		1-1/8 Brazed			
Terrigerene Fipe Sunctions	Gas (Low Pressure) (Brazed)		1-3/8 Brazed	1-5/8 Brazed	1-5/8 Brazed		
Indoor Unit Connectable	Total capacity			50~150% of outdoor unit capacity			
indoor onit connectable	Model / Quantity			P05~P96/2~50			
	Cooling (Outdoor) *2			23~126°F (-5~52°C)			
Guaranteed Operating Range *1	Heating (Outdoor) *3			-4~60°F (-20~15.5°C)			
Extended Operating Range *4	Heating (Outdoor)			-18~60°F (-28~15.5°C)			
	EER (Ducted/Non-Ducted)		10.2 / 10.9	10.1 / 10.2	9.9 / 9.5		
	IEER (Ducted/Non-Ducted)		22.1 / 26.4	21.4 / 24.6	20.5 / 23		
Efficiency Ratings *5	COP (Ducted/Non-Ducted)		3.20 / 3.44	3.20 / 3.36	3.2 / 3.29		
	SCHE (Ducted/Non-Ducted)		21.7 / 24.5	20.6 / 23.8	20.4 / 23.4		

NOTES:

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)

Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

Twinning kit is required for combining multiple individual outdoor units in the field for $\rm TURYP^{**}(3/4)BN40A(N/B)$ combined systems.

 Harsh weather environments may demand performance enhancing equipment. Ask your sales representative for more details about your region. 2. For details on extended cooling operation range down to -10° F DB, see Low Ambient Kit Submittal.

3. When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.

4. Unit will continue to operate in extended operating range, but capacity is not guaranteed.

SPECIFICATIONS:

Y-SERIES (STANDARD EFFICIENCY)

TUHYP**(3/4)AN40AN

SDECIEIC					MODEL NAME						
SPECIFIC	.AIIUNS										
		208V /230V	TUHYP0723AN40A (N/B)	TUHYP0963AN40A (N/B)	TUHYP1203AN40A (N/B)	TUHYP1443AN40A (N/B)	TUHYP1683AN40A (N/B)				
VOLTAGES		460V	TUHYP0724AN40A (N/B)	TUHYP0964AN40A (N/B)	TUHYP1204AN40A (N/B)	TUHYP1444AN40A(N/B)	TUHYP1684AN40A (N/B)				
Douron Courses				3-р	hase 3-wire 208-230 V ±10% 60) Hz					
Fower Source				3-phase 3-wire 460 V ±10% 60 Hz							
Canacity (Nominal)	Cooling	Btu/h	72,000	96,000	120,000	144,000	168,000				
	Heating	Btu/h	80,000	108,000	135,000	160,000	188,000				
	MCA	А	24/22	33/31	41/38	49/45	59/54				
			11	15	19	22	27				
	MOP	А	40/35	50/45	60/60	80/70	90/90				
Electrical Supply			15	20	30	35	45				
	SCCR	A	5	5	5	5	5				
	Recommended	А	30/30	40/40	50/50	60/60	70/70				
	Fuse Size		15	20	25	30	40				
	Type X Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2				
Fan	Airflow Rate	CFM	6,000	6,700	7,750	9,200	10,600				
	External Static Pre	ssure		Selectable; 0, 0.12, 0.24, 0.32 in.WG; factory set to 0 in.WG							
	Type X Quantity			Inv	verter scroll hermetic compressor	x 1					
Compressor Operating Range			15% to 100%	15% to 100%	15% to 100%	15% to 100%	15% to 100%				
Lubricant					MEL32						
Refrigerant	Туре				R410A						
External Finish			F	Pre-coated galvanized steel sheet	(+powder coating for -BS type) <	MUNSELL 3Y 7.8/1.1 or similar	>				
	Height				71-10/16		·				
Dimensions	Width	In	36-4/16	48-14/16	48-14/16	48-14/16	68-15/16				
Dimensions	Depth		29-3/1	29-3/16	29-3/16	29-3/16	29-3/16				
	Depui		479	569	594	640	713				
Net Weight		lbs.	512	605	629	675	748				
Sound Pressure Level (Measured in Anechoic Roor	m)	dB(A)	55.0/57.5	56.5/58.5	60.0/62.0 62.5/65.0		60.5/64.5				
Sound Pressure Level (Measured in Anechoic Room	n)	dB(A)	74.0/76.5	75.5/77.5 80.0/81.0		83.0/84.0	79.0/83.5				
	High Pressure		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)								
Protection Devices	Inverter Circuit (Compressor/Fan)		Over-current protection								
Refrigerant Pipe	Liquid (High Pressure) (Brazed)	Ŀ	3/8 Brazed	3/8 Brazed (1/2 Brazed, the farthest pipe length >= 90 m)	3/8 Brazed (1/2 Brazed, the farthest pipe length >= 40 m)	1/2 Brazed	5/8 Brazed				
Dimensions	Gas (Low Pressure) (Brazed)	- 111.	7/8 Brazed	7/8 Brazed	1-1/8 Brazed	1-1/8 Brazed	1-1/8 Brazed				
Indoor Unit Connectable	Total capacity			5	60~130% of outdoor unit capacit	У					
	Model / Quantity		P05~P72/1~15	P05~P96/1~20	P05~P96/1~26	P05~P96/1~31	P05~P96/1~36				
Guaranteed Operating Cooling (Outdoor) *2		*2			23~126°F (-5~52°C)						
Range *1 Heating (Outdoor) *3		*3			-4~60°F (-20~15.5°C)						
Extended Operating Range *4	Heating (Outdoor)				-18~60°F (-28~15.5°C)						
	EER (Ducted/ Non-Ducted)		13.1 / 13.5	13.4 / 14.6	12.3 / 13.3	12.2 / 12.6	11.2 / 11.7				
Efficiency Ratings *5	IEER (Ducted/ Non-Ducted)		24.8 / 31.5	26.2 / 32.6	23.6 / 28.8	23.2 / 29.6	23.4 / 29.8				
	COP (Ducted/ Non-Ducted)		3.97 / 4.34	3.98 / 4.34	3.70 / 4.05	3.57 / 3.90	3.59 / 4.02				

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)

Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

1. Harsh weather environments may demand performance enhancing equipment. Ask your sales representative for more details about your region.

2. For details on extended cooling operation range down to ${\rm -10^\circ}\,{\rm F}\,{\rm DB},$ see Low Ambient Kit Submittal.

3. When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.

4. Unit will continue to operate in extended operating range, but capacity is not guaranteed.

SPECIFICATIONS: 🔻

Y-SERIES (STANDARD EFFICIENCY)

TUHYP*	TUHYP**(3/4)BN40AN									
SPECIFIC.	ATIONS				MODEL NAMES					
			TUHYP1923BN40A (N/B)	TUHYP2163BN40A (N/B)	TUHYP2403BN40A (N/B)	TUHYP2643BN40A (N/B)	TUHYP2883BN40A (N/B)			
		208V /230V	With 2 TUHYP0963AN40A (N/B)	With 1 TUHYP1203AN40A (N/B) and 1 TUHYP0963AN40A (N/B)	With 2 TUHYP1203AN40A N/B)	With 2 TUHYP0963AN40A (N/B) and 1 TUHYP0723AN40A (N/B)	With TUHYP1203AN40A (N/B) and TUHYP0963AN40A (N/B) and TUHYP0723AN40A (N/B)			
VOLTAGES		TUHYP1924BN40A (N/B)	TUHYP2164BN40A (N/B)	TUHYP2404BN40A (N/B)	TUHYP2644BN40A (N/B)	TUHYP2884BN40A (N/B)				
40		460V	With 2 TUHYP0964AN40A (N/B)	With 1 TUHYP1204AN40A (N/B) and 1 TUHYP0964AN40A (N/B)	With 2 TUHYP1204AN40A (N/B)	With 2 TUHYP0964AN40A (N/B) and 1 TUHYP0724AN40A (N/B)	With TUHYP1204AN40A (N/B) and TUHYP0964AN40A (N/B) and TUHYP0724AN40A (N/B)			
Power Source				3-	phase 3-wire 208-230 V ±10% 60	Hz				
				[3-phase 3-wire 460 V ±10% 60 Hz					
Capacity (Nominal)	Cooling	Btu/h	192,000	216,000	240,000	264,000	288,000			
(Nominal)	Heating	Btu/h	216,000	243,000	270,000	296,000 Refer to:	323,000			
	MCA MOP	A	With 2 TUHYP0963AN40A (N/B)	With 1 TUHYP1203AN40A (N/B) and 1 TUHYP0963AN40A (N/B)	With 2 TUHYP1203AN40A N/B)	With 2 TUHYP0963AN40A (N/B) and 1 TUHYP0723AN40A (N/B)	With TUHYP1203AN40A (N/B) and TUHYP0963AN40A (N/B)			
Electrical Supply	SCCD		ΤΙΙΗΥΡΟ964ΔΝ4ΟΔ (N/B)	ΤΠΗΥΡΙ 204 ΔΝ40Δ (N/B)	ΤΙΙΗΥΡΙ 204 ΔΝ40Δ (N/B)	ΤΠΗΥΡΟ964ΔΝ4ΟΔ (Ν/Β)	and TUHYP0723AN40A (N/B)			
	Recom- mended Fuse Size	A	1011110504AN40A (N/B)	TUHYP0964AN40A (N/B)	101111 1204AIV40A (IV/D)	TUHYP0724AN40A (N/B)	TUHYP0964AN40A (N/B) TUHYP0724AN40A (N/B)			
	Type X Qua	ntity								
Fan Airflow Rate		CFM								
	External Sta	itic								
Type X Quantit		ntity								
Compressor	Operating R	ange	7.5% to 100%	7.5% to 100%	7.5% to 100%	5% to 100%	5% to 100%			
Refrigerant	Lubricant Type		Refer to: With 2 TUHYP0963AN40A (N/B)	Refer to: With 1 TUHYP1203AN40A (N/B)	Refer to: With 2 TUHYP1203AN40A N/B)	Refer to: With 2 TUHYP0963AN40A (N/B)	Refer to: With TUHYP1203AN40A (N/B)			
External Finish	51			and 1 TUHYP0963AN40A (N/B)		and 1 TUHYP0723AN40A (N/B)	and TUHYP0963AN40A (N/B)			
Dimensions	Height Width Depth	In.	TUHYP0964AN40A (N/B)	TUHYP1204AN40A (N/B) TUHYP0964AN40A (N/B)	TUHYP1204AN40A (N/B)	TUHYP0964AN40A (N/B) TUHYP0724AN40A (N/B)	and TUHYP0723AN40A (N/B) TUHYP1204AN40A (N/B) TUHYP0964AN40A (N/B)			
Net Weight		lbs.	-				TUHYP0724AN40A (N/B)			
Sound Pressure Level (Measured in Anechoi	c Room)	dB(A)	60.0/62.0	62.0/64.0 63.5/65.5		61.0/63.0	62.5/65.0			
Sound Pressure Level (Measured in Anechoi	c Room)	dB(A)	79.0/81.0	81.5/83.0 83.5/84.5		80.0/82.0	82.5/84.0			
	High Pressu	re	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)							
Protection Devices	Inverter Circ (Compresso	cuit r/Fan)			Over-current protection					
Refrigerant Pipe	Liquid (High Pressure) (Brazed)	In.	5/8 Brazed	5/8 Brazed	5/8 Brazed	3/4 Brazed	3/4 Brazed			
Dimensions	Gas (Low Pressure) (Brazed)		1-1/8 Brazed	1-1/8 Brazed	1-1/8 Brazed	1-3/8 Brazed	1-3/8 Brazed			
Indoor Unit Con-	Total capacit	ty			50~130% of outdoor unit capacity					
nectable	Model / Qua	antity	P05~P96/1~41	P05~P96/2~46	P05~P96/2~50	P05~P96/2~50	P05~P96/2~50			
Guaranteed Operating Range *1	*2 Heating (Ou	itdoor)			23~126°F (-5~52°C) -4~60°F (-20~15.5°C)					
Extended Operating Range *4	^3 Heating (Ou	itdoor)			-18~60°F (-28~15.5°C)					
ige i	EER (Ducted	1/ 1)	12.4 / 13.6	11.9 / 13.0	11.4 / 11.8	12.2 / 12.6	11.9 / 12.2			
Efficiency Ratings *5	IEER (Ducte Non-Ducted	ed/ l)	25.0 / 31.3	23.8 / 29.5	22.6 / 26.3	24.3 / 29.3	23.5 / 28.3			
	COP (Ducted/ Non-Ducted)		3.70/ 4.06	3.57 / 3.93	3.45 / 3.59	3.66 / 3.84	3.58 / 3.78			

NOTES:

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)

Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

Twinning kit is required for combining multiple individual outdoor units in the field for TUHYP**(3/4)BN40A(N/B) combined systems.

 Harsh weather environments may demand performance enhancing equipment. Ask your sales representative for more details about your region. 2. For details on extended cooling operation range down to ${\rm -10^\circ}\,{\rm F}\,{\rm DB},$ see Low Ambient Kit Submittal.

3. When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.

4. Unit will continue to operate in extended operating range, but capacity is not guaranteed.

SPECIFICATIONS: 🔻 Y-SERIES (STANDARD EFFICIENCY)

TUHYP**(3/4)BN40AN

SPECIFICA	TIONS		MODEL NAMES			
		208V	TUHYP3123BN40A (N/B)	TUHYP3363BN40A (N/B)	TUHYP3603BN40A (N/B)	
VOLTAGES		/230V	With 2 TUHYP1203AN40A (N/B) and 1 TUHYP0723AN40A (N/B)	With 2 TUHYP1203AN40A (N/B) and 1 TUHYP0963AN40A (N/B)	With 3 TUHYP1203AN40A (N/B)	
			TUHYP3124BN40A (N/B)	TUHYP3364BN40A (N/B)	TUHYP3604BN40A (N/B)	
		460V	With 2 TUHYP1204AN40A (N/B) and 1 TUHYP0724AN40A (N/B)	With 2 TUHYP1204AN40A (N/B) and 1 TUHYP0964AN40A (N/B)	With 3 TUHYP1204AN40A (N/B)	
				3-phase 3-wire 208-230 V ±10% 60 Hz		
Power Source				3-phase 3-wire 460 V ±10% 60 Hz		
Canacity (Nominal)	Cooling	Btu/h	312,000	336,000	360,000	
Capacity (Nominal)	Heating	Btu/h	350,000	378,000	405,000	
	MCA	A	Refer to:	Refer to:	Refer to:	
	MOP	А	with 2 IUHYP1203AN40A (N/B) and 1 TUHYP0723AN40A (N/B)	and 1 TUHYP0963AN40A (N/B)	With 3 TUHYP1203AN40A (N/B)	
Electrical Supply	SCCR	A	With 2 TUHYP1204AN40A (N/B)	With 2 TUHYP1204AN40A (N/B)	With 3 TUHYP1204AN40A (N/B)	
	Recommended Fuse Size	А	and 1 TUHYP0724AN40A (N/B)	and 1 TUHYP0964AN40A (N/B)		
	Type X Quantity					
Fan	Airflow Rate	CFM				
External Static Pre						
	Type X Quantity					
Compressor	Operating Range		5% to 100%	5% to 100%	5% to 100%	
Lubricant						
Refrigerant Type			Refer to:	Refer to:	Refer to:	
External Finish			and 1 TUHYP0723AN40A (N/B)	and 1 TUHYP0963AN40A (N/B)	With 3 TUHYP1203AN40A (N/B)	
	Height					
Dimensions	Width	In.	With 2 TUHYP1204AN40A (N/B)	With 2 TUHYP1204AN40A (N/B)	With 3 TUHYP1204AN40A (N/B)	
	Depth		and I TOHTP0724AN40A (N/B)			
Net Weight		lbs.				
Sound Pressure Level (Measured in Anecl	hoic Room)	dB(A)	64.0/66.0	64.0/66.0	65.0/67.0	
Sound Pressure Level (Measured in Anecl	hoic Room)	dB(A)	84.0/85.0	84.0/85.0	85.0/86.0	
	High Pressure		High pres	ssure sensor, High pressure switch at 4.15 MPa	a (601 psi)	
Protection Devices	Inverter Circuit (Compressor/Fan)	-		Over-current protection		
Defriguent Direction	Liquid (High Pressure) (Brazed)	Tra		3/4 Brazed		
Kemgerant Pipe Dimensions	Gas (Low Pressure) (Brazed)	111.	1-3/8 Brazed	1-5/8 Brazed	1-5/8 Brazed	
	Total capacity			50~130% of outdoor unit capacity		
Indoor Unit Connectable	Model / Quantity			P05~P96/2~50		
Guaranteed Operating	Cooling (Outdoor) *2			23~126°F (-5~52°C)		
Range *1 Heating (Outdoor) *3				-4~60°F (-20~15.5°C)		
Extended Operating Range *4	Heating (Outdoor)			-18~60°F (-28~15.5°C)		
	EER (Ducted/Non-Ducted)		11.6 / 11.7	11.7 / 11.8	11.3 / 11.5	
Efficiency Ratings *5	IEER (Ducted/ Non-Ducted)		22.7 / 26.7	23.2 / 26.6	22.4 / 25.7	
J	COP (Ducted / Non-Ducted)		3 50 / 3 63	3 50 / 3 57	3 42 / 3 51	

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)

Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

Twinning kit is required for combining multiple individual outdoor units in the field for $TUHYP^*(3/4)BN40A(N/B)$ combined systems.

1. Harsh weather environments may demand performance enhancing equipment. Ask your sales representative for more details about your region.

2. For details on extended cooling operation range down to -10° F DB, see Low Ambient Kit Submittal.

3. When applying product below -4°F; consult your design engineer for cold climate application best practices, including the use of a backup source for heating.

SPECIFICATIONS: Y-SERIES (STANDARD EFFICIENCY)

TUHYP**(3/4)BN40AN

SPECIFICA	TIONS		MODEL NAMES			
		208V	TUHYP3843BN40A (N/B)	TUHYP4083BN40A (N/B)	TUHYP4323BN40A (N/B)	
VOLTAGES		/230V	With 1 TUHYP1443AN40A (N/B) and 2 TUHYP1203AN40A (N/B)	With 2 TUHYP1443AN40A (N/B) and 1 TUHYP1203AN40A (N/B)	With 3 TUHYP1443AN40A (N/B)	
			TUHYP3844BN40A (N/B)	TUHYP4084BN40A (N/B)	TUHYP4324BN40A (N/B)	
		460V	With 1 TUHYP1444AN40A (N/B) and 2 TUHYP1204AN40A (N/B)	With 2 TUHYP1444AN40A (N/B) and 1 TUHYP1204AN40A (N/B)	With 3 TUHYP1444AN40A (N/B)	
D C				3-phase 3-wire 208-230 V ±10% 60 Hz		
Power Source				3-phase 3-wire 460 V ±10% 60 Hz		
	Cooling	Btu/h	384,000	408,000	432,000	
Capacity (Nominal)	Heating	Btu/h	430,000	455,000	480,000	
	MCA	А	Refer to:	Refer to:	Refer to:	
	MOP	А	with 1 IUHYP1443AN40A (N/B) and 2 TUHYP1203AN40A (N/B)	with 2 TUHYP1443AN40A (N/B) and 1 TUHYP1203AN40A (N/B)	With 3 TUHYP1443AN40A (N/B)	
Electrical Supply	SCCR	А	With 1 TUHYP1444AN40A (N/B) and 2	With 2 TUHYP1444AN40A (N/B) and 1	With 3 TUHYP1444AN40A (N/B)	
	Recommended Fuse Size	A	TUHYP1204AN40A (N/B)	TUHYP1204AN40A (N/B)		
	Type X Quantity					
Fan	Airflow Rate	CFM				
External Static Pres						
	Type X Quantity					
Compressor	Operating Range		5% to 100%	5% to 100%	5% to 100%	
Lubricant			_			
Refrigerant Type			Refer to: With 1 TUHYP1443AN40A (N/B)	Refer to: With 2 TUHYP1443AN40A (N/B)	Refer to:	
External Finish			and 2 TUHYP1203AN40A (N/B)	and 1 TUHYP1203AN40A (N/B)	With 3 TUHYP1443AN40A (N/B)	
	Height					
Dimensions	Width	In.	With 1 TUHYP1444AN40A (N/B) and 2 TUHYP1204AN40A (N/B)	With 2 TUHYP1444AN40A (N/B) and 1 TUHYP1204AN40A (N/B)	With 3 TUHYP1444AN40A (N/B)	
	Depth					
Net Weight		lbs.				
Sound Pressure Level (Measured in Anech	noic Room)	dB(A)	66.0/68.5	67.0/69.0	67.5/70.0	
Sound Pressure Level (Measured in Anech	noic Room)	dB(A)	86.5/87.5	87.0/88.0	88.0/89.0	
	High Pressure		High pres	ssure sensor, High pressure switch at 4.15 MP	a (601 psi)	
Protection Devices	Inverter Circuit (Compressor/Fan)			Over-current protection		
Pofrigarant Dino Dimonsions	Liquid (High Pressure) (Brazed)	In		3/4 Brazed		
Kenigerant ripe Dimensions	Gas (Low Pressure) (Brazed)	111.		1-5/8 Brazed		
	Total capacity			50~130% of outdoor unit capacity		
Indoor Unit Connectable	Model / Quantity		P05~P96/2~50	P05~P96/3~50	P05~P96/3~50	
	Cooling (Outdoor) *2			23~126°F (-5~52°C)		
Guaranteed Operating Range *1 Heating (Outdoor) *3				-4~60°F (-20~15.5°C)		
Extended Operating Range *4	Heating (Outdoor)			-18~60°F (-28~15.5°C)		
	EER (Ducted/Non-Ducted)		11.3 / 11.2	11.3 / 10.9	11.3 / 10.7	
Efficiency Ratings *5	IEER (Ducted/Non-Ducted)	22.3 / 25.8	22.2 / 25.8	22.1 / 25.9	
	COP (Ducted/Non-Ducted)		3 39 / 3 45	3 35 / 3 38	3 31 / 3 32	

NOTES:

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)

Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

Twinning kit is required for combining multiple individual outdoor units in the field for $\rm TUHYP^{**}(3/4)BN40A(N/B)$ combined systems.

 Harsh weather environments may demand performance enhancing equipment. Ask your sales representative for more details about your region. 2. For details on extended cooling operation range down to $\mbox{-}10^\circ$ F DB, see Low Ambient Kit Submittal.

3. When applying product below $-4^{\circ}F$, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.

4. Unit will continue to operate in extended operating range, but capacity is not guaranteed.

SPECIFICATIONS: 🔻 R2-SERIES (HIGH EFFICIENCY)

TURYE**(3/4)AN40AN

SPECIF	TICATIONS		MODEL NAMES								
VOLTACES		208V /230V	TURYE0723AN40A (N/B)	TURYE0963AN40A (N/B)	TURYE1203AN40A (N/B)	TURYE1443AN40A (N/B)	TURYE1684AN40A (N/B)				
VULIAGES		460V	TURYE0724AN40A (N/B)	TURYE0964AN40A (N/B)	TURYE1204AN40A (N/B)	TURYE1444AN40A (N/B)	TURYE1684AN40A (N/B)				
				3-pł	nase 3-wire 208-230 V ±10% 6	0 Hz					
Power Source			3-phase 3-wire 460 V +10% 60 Hz								
	Cooling	Btu /h	72.000	96.000	120.000	144.000	168.000				
Capacity (Nominal)	Heating	Btu/h	80.000	108.000	135.000	160.000	188,000				
			23/21	31/29	41/38	49/45	57/53				
	MCA	A	10	14	19	22	26				
	MOD		35/30	45/45	60/60	80/70	90/80				
Electrical Supply	MOP	A	15	20	30	35	40				
	SCCR	Α	5	5	5	5	5				
	Recommended Fuse	Δ	35/30	45/45	60/60	60/60	70/70				
	Size		15	20	30	35	40				
	Type X Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2				
Fan	Airflow Rate	CFM	6,000	7,400	8,300	9,550	14,850				
	External Static Pressure	2		Selectable; 0,	0.12, 0.24, 0.32 in.WG; factory	set to 0 in.WG					
	Type X Quantity			Inve	erter scroll hermetic compressor	x 1	1				
Compressor	Operating Range		15% to 100%	15% to 100%	15% to 100%	15% to 100%	15% to 100%				
	Lubricant			MEL32							
Refrigerant	Type R410A										
External Finish				Pre-coated galvanized steel	sheet (+powder coating for -BS	type) <munsell 1="" 5y="" 8=""></munsell>					
	Height				71-5/8						
Dimensions Width		In.	36-1/4	48-7/8	48-7/8	48-7/8	68-29/32				
	Depth				29-5/32						
		11	519	613	622	680	777				
Net weight		IDS.	552	649	657	715	807				
Sound Pressure Level (Measu Anechoic Room)	red in	dB(A)	56.5/58.0	58.5/60.0	60.0/62.0	65.0/65.5	62.5/66.5				
Sound Pressure Level (Measu Anechoic Room)	red in	dB(A)	75.5/77.0	75.5/77.0 77.5/79.0 80.0/80.5 85.5/85.5 81.0/85			81.0/85.5				
	High Pressure			High pressure set	nsor, High pressure switch at 4.	15 MPa (601 psi)					
Protection Devices	Inverter Circuit (Compressor/Fan)			Over-h	eat protection, Over-current pro	otection					
Refrigerant Pine Dimensions	Liquid (High Pressure) (Brazed)	In	5/8 Brazed	3/4 Brazed	3/4 Brazed	7/8 Brazed	7/8 Brazed				
nenigerant ripe Dimensions	Gas (Low Pressure) (Brazed)		3/4 Brazed	7/8 Brazed	1-1/8 Brazed	1-1/8 Brazed	1-1/8 Brazed				
Indoor Unit Connectable	Total capacity			5	0~150% of outdoor unit capacit	ty					
	Model / Quantity		P05~P96/1~18	P05~P96/1~24	P05~P96/1~30	P05~P96/1~36	P05~P96/1~42				
Guaranteed Operating	Cooling (Outdoor) *2				23~126°F (-5~52°C)						
Range *1	Heating (Outdoor) *3		-13F-60°F (-25~15.5°C)								
Extended Operating Range	Heating (Outdoor)				-25~60°F (-31.5~15.5°C)						
-	EER (Ducted/ Non-Ducted)		13.4 / 15.4	13.7 / 15.1	12.6 / 13.8	11.7 / 12.9	11.2 / 11.9				
	IEER (Ducted/		24.5 / 31.2	26.5 / 33.1	25.0 / 30.1	24.1 / 29.7	23.4 / 28.0				
Efficiency Ratings *5	COP (Ducted/		3.81 / 4.37	3.94 / 4.26	3.71 / 4.04	3.49 / 3.86	3.30 / 3.80				
	Non-Ducted) SCHE (Ducted/ Non-Ducted)		25.9 / 25.5	23.5 / 28.3	25.3 / 29.1	24.8 / 27.7	24.7 / 28.3				

NOTES:

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)

Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

Harsh weather environments may demand performance enhancing equipment. Ask your sales representative for more details about your region.

2. For details on extended cooling operation range down to $\mbox{-}10^\circ$ F DB, see Low Ambient Kit Submittal.

3. When applying product below $-4^{\circ}F$, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.

SPECIFICATIONS: **R2-SERIES** (HIGH EFFICIENCY)

TURYE**(3	/4)BN40AN					
SPECIF	ICATIONS			MODEL	NAMES	
			TURYE1923BN40A (N/B)	TURYE2163BN40A (N/B)	TURYE2403BN40A (N/B)	TURYE2643BN40A (N/B)
		208V /230V	With 2 TURYE0963AN40A (N/B)	With 1 TURYE1203AN40A (N/B) and 1 TURYE0963AN40A (N/B)	With 2 TURYE1203AN40A (N/B)	With 1 TURYE1443AN40A (N/B) and 1 TURYE1203AN40A (N/B)
VOLTAGES		460V	TURYE1924BN40A (N/B)	TURYE2164BN40A (N/B)	TURYE2404BN40A (N/B)	TURYE2644BN40A (N/B)
		400 V	With 2 TURYE0964AN40A (N/B)	With 1 TURYE1204AN40A (N/B) and 1 TURYE0964AN40A (N/B)	With 2 TURYE1204AN40A (N/B)	With 1 TURYE1444AN40A (N/B) and 1 TURYE1204AN40A (N/B)
Power Source				3-phase 3-wire 208-	-230 V ±10% 60 Hz	
rower source				3-phase 3-wire 46	50 V ±10% 60 Hz	
	Cooling	Btu/h	192,000	216,000	240,000	264,000
Capacity (Nominal)	Heating	Btu/h	215,000	243,000	270,000	295,000
	MCA	А	Refer to: With 2 TURYE0963AN40A (N/B)	Refer to: With 1 TURYE1203AN40A (N/B)	Refer to: With 2 TURYE1203AN40A (N/B)	Refer to: With 1 TURYE1443AN40A (N/B)
Electrical Supply	МОР	А		and 1 TURYE0963AN40A (N/B)		and 1 TURYE1203AN40A (N/B)
	SCCR	А	With 2 TURYE0964AN40A (N/B)	With 1 TURYE1204AN40A (N/B)	With 2 TURYE1204AN40A (N/B)	With 1 TURYE1444AN40A (N/B)
	Recommended Fuse Size	А		and 1 TURYE0964AN40A (N/B)		and 1 TURYE1204AN40A (N/B)
Type X Quantity		Type X Quantity				
Fan Airflow Rate External Static Pressure		CFM				
	Type X Quantity					
Compressor Operating Range			7.5% to 100%	7.5% to 100%	7.5% to 100%	7.5% to 100%
	Lubricant		Refer to:	Refer to:	Refer to:	Refer to:
Refrigerant	Туре		With 2 TURYE0963AN40A (N/B)	With 1 TURYE1203AN40A (N/B)	With 2 TURYE1203AN40A (N/B)	With 1 TURYE1443AN40A (N/B)
External Finish				and 1 TURYE0963AN40A (N/B)		and 1 TURYE1203AN40A (N/B)
	Height					
Dimensions	Width	In.	With 2 TURYE0964AN40A (N/B)	With I TURYE1204AN40A (N/B)	With 2 TURYE1204AN40A (N/B)	With I TURYE1444AN40A (N/B)
	Deptn			and I TURYE0964AN40A (N/B)		and I TURYEI204AN40A (N/B)
Net Weight		lbs.				
Sound Pressure Level (Measured in	n Anechoic Room)	dB(A)	61.5/63.0	62.5/64.5	63.0/65.0	66.5/67.5
Sound Pressure Level (Measured ir	n Anechoic Room)	dB(A)	80.5/82.0	82.0/83.0	83.0/83.5	87.0/87.0
Protection Devices	High Pressure			High pressure sensor, High press	ure switch at 4.15 MPa (601 psi)	
Fiotection Devices	Inverter Circuit (Compressor/F	an)		Over-heat protection, C	Over-current protection	
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	In.	7/8 Brazed	7/8 Brazed (1-1/8 Brazed for the part that exceeds 65 m)	7/8 Brazed (1-1/8 Brazed for the part that exceeds 65 m)	1-1/8 Brazed
	Gas (Low Pressure) (Brazed)		1-1/8 Brazed	1-1/8 Brazed	1-3/8 Brazed	1-3/8 Brazed
Indoor Unit Connectable	Total capacity			50~150% of outc	oor unit capacity	
indoor onit connectable	Model / Quantity		P05~P96/1~48	P05~P96/2~50	P05~P96/2~50	P05~P96/2~50
Guaranteed Operating	Cooling (Outdoor) *2			23~126°F	(-5~52°C)	
Kange * I	Heating (Outdoor) *3			-13F~60°F (-25~15.5°C)	
Extended Operating Range *4	Heating (Outdoor)			-25~60°F (-3	1.5~15.5°C)	
	EER (Ducted/Non-Ducted)		12.7 / 14.1	12.2 / 13.5	11.7 / 12.2	11.3 / 11.9
Efficiency Ratings *5	IEER (Ducted/Non-Ducted)		25.3 / 31.8	24.6 / 30.4	23.9 / 27.4	23.5 / 27.4
-	COP (Ducted/Non-Ducted)		3.66 / 3.99	3.56 / 3.89	3.46 / 3.58	3.36 / 3.53
	SCITE (Ducted/10011-Ducted)	_	23.0 / 20.0	22.7 / 20.9	22.7 / 20.0	22.3 / 23.1

NOTES:

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)

Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

Twinning kit is required for combining multiple individual outdoor units in the field for TURYE**(3/4)BN40A(N/B) combined systems.

1. Harsh weather environments may demand performance enhancing equipment. Ask your sales representative for more details about your region. 2. For details on extended cooling operation range down to $\mbox{-}10^\circ$ F DB, see Low Ambient Kit Submittal.

3. When applying product below $-4^{\circ}F$, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.

4. Unit will continue to operate in extended operating range, but capacity is not guaranteed.



TURYE**(3/4)BN40AN

	IFICATIONS		MODEL NAMES				
		20037	TURYE2883BN40A (N/B)	TURYE3123BN40A (N/B)	TURYE3363BN40A (N/B)		
NOTTOF		208V /230V	With 2 TURYE1443AN40A (N/B)	With 1 TURYE1683AN40A (N/B) and 1 TURYE1443AN40A (N/B)	With 2 TURYE1683AN40A (N/B)		
VULIAGES			TURYE2884BN40A (N/B)	TURYE3124BN40A (N/B)	TURYE3364BN40A (N/B)		
		460V	With 2 TURYE1444AN40A (N/B)	With 1 TURYE1684AN40A (N/B) and 1 TURYE1444AN40A (N/B)	with 2 TURYE1684AN40A (N/B)		
			3-phase 3-wire 208-230 V ±10% 60 Hz				
Power Source			3-phase 3-wire 460 V ±10% 60 Hz				
Cooling		Btu/h	288,000	312,000	336,000		
Capacity (Nominal)	Heating	Btu/h	323,000	350,000	378,000		
	MCA	А	Refer to:	Refer to:	Refer to:		
	MOP	Α	With 2 TURYE1443AN40A (N/B)	With 1 TURYE1683AN40A (N/B) and 1 TURYE1443AN40A (N/B)	With 2 TURYE1683AN40A (N/B)		
Electrical Supply	SCCR	Α	With 2 TURYE1444AN40A (N/B)	With 1 TURYE1684AN40A (N/B)	with 2 TURYE1684AN40A (N/B)		
	Recommended Fuse Size	A		and 1 TURYE1444AN40A (N/B)			
F au	Type X Quantity	CEM					
Fan	Airnow Rate	CFM					
External Static Pressure							
Compressor Operating Page			7.5% to 100%	7 5% to 100%	7.5% to 100%		
compressor	Lubricant		7.3% t0 100%	7.3% to 100%	7.5% t0 100%		
Pofrigorant Tuno		With 2 TURVE1443 AN40 A (N/B)	With 1 TURYE16834 N404 (N/B)	With 2 TURVE16834N404 (N/B)			
External Einich			and 1 TURYE1443AN40A (N/B)				
External Timon	Height						
Dimensions	Width	In.	With 2 TURYE1444AN40A (N/B)	With 1 TURYE1684AN40A (N/B)	with 2 TURYE1684AN40A (N/B)		
	Denth			and 1 TURYE1444AN40A (N/B)			
Net Weight		lbs.					
Sound Pressure Level (Measured in Ane	choic Room)	dB(A)	68.0/68.5	67.0/69.0	65.5/69.5		
Sound Pressure Level (Measured in Ane	choic Room)	dB(A)	88.5/88.5	87.0/88.5	84.0/88.5		
	High Pressure		High pres	sure sensor. High pressure switch at 4.15 MI	Pa (601 psi)		
Protection Devices	Inverter Circuit (Compressor/Fan)		8-1	Over-heat protection, Over-current protection)n		
	Liquid (High Pressure) (Brazed)			1-1/8 Brazed			
Refrigerant Pipe Dimensions	Gas (Low Pressure) (Brazed)	In.	1-3/8 Brazed	1-5/8 Brazed	1-5/8 Brazed		
	Total capacity			50~150% of outdoor unit capacity	1		
Indoor Unit Connectable Model / Quantity				P05~P96/2~50			
Guaranteed Operating Cooling (Outdoor) *2			23~126°F (-5~52°C)				
Range *1	ge *1 Heating (Outdoor) *3			-13F~60°F (-25~15.5°C)			
Extended Operating Range *4	Heating (Outdoor)			-25~60°F (-31.5~15.5°C)			
	EER (Ducted/Non-Ducted)		10.9 / 11.5	10.7 / 10.9	10.5 / 10.3		
	IEER (Ducted/Non-Ducted)		23.1 / 27.4	22.8 / 26.1	22.5 / 24.9		
Enciency Ratings *5	COP (Ducted/Non-Ducted)		3.26 / 3.46	3.24 / 3.37	3.22 / 3.29		
	SCHE (Ducted/Non-Ducted)		21.7 / 24.5	20.6 / 23.8	20.4 / 23.4		

NOTES:

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)

Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

Twinning kit is required for combining multiple individual outdoor units in the field for $\rm TURYE^{**}(3/4)BN40A(N/B)$ combined systems.

 For details on extended cooling operation range down to -10° F DB, see Low Ambient Kit Submittal.

3. When applying product below ${\rm -4^oF}$ consult your design engineer for cold climate application best practices, including the use of a backup source for heating.

- Unit will continue to operate in extended operating range, but capacity is not guaranteed.
- 5. Efficiency ratings are based on AHRI 1230 test method

1. Harsh weather environments may demand performance enhancing equipment. Ask your sales representative for more details about your region.

TUHYE(3/4)AN40AN

SPECII	FICATIONS		MODEL NAMES			
VOLTAGES		208V /230V	TUHYE0723AN40A (N/B)	TUHYE0963AN40A (N/B)	TUHYE1203AN40A (N/B)	
		460V	TUHYE0724AN40A (N/B)	TUHYE0964AN40A (N/B)	TUHYE1204AN40A (N/B)	
				3-phase 3-wire 208-230 V ±10% 60 Hz		
Power Source				3-phase 3-wire 460 V ±10% 60 Hz		
Cooling		Btu/h	72,000	96,000	120,000	
Capacity (Nominal)	Heating	Btu/h	80,000	108,000	135,000	
			23/21	31/29	40/37	
	MCA	A	10	14	18	
			35/30	45/40	60/50	
Electrical Supply	MOP	A	15	20	25	
	SCCR	Α	5	5	5	
			35/30	45/40	60/50	
	Recommended Fuse Size	A	15	20	25	
	Type X Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	
Fan	Airflow Rate	CFM	6.000	6.700	7.750	
i uli	External Static Pressure		Selectable; 0, 0.12, 0.24, 0.32 in.WG; factory set to 0 in.WG			
Type X Quantity				Inverter scroll hermetic compressor x 1		
Compressor Operating Range			15% to 100%	15% to 100%	15% to 100%	
	Lubricant			MEL32	I	
Refrigerant Type			R410A			
External Finish	I		Pre-coated galvanized steel	sheet (+powder coating for -BS type) <mun< td=""><td>ISELL 3Y 7.8/1.1 or similar></td></mun<>	ISELL 3Y 7.8/1.1 or similar>	
	Height			71-5/8		
Dimensions	Width	In.	36-1/4	48-7/8	48-7/8	
	Depth		29-3/16			
	1		512	622	633	
Net Weight		lbs.	545	657	668	
Sound Pressure Level (Measured in Anec	hoic Room)	dB(A)	55.0/57.0	56.0/58.5	59.5/61.5	
Sound Pressure Level (Measured in Anec	hoic Room)	dB(A)	74.0/76.0	75.0/77.5	79.5/80.5	
	High Pressure		High press	ure sensor, High pressure switch at 4.15 MP	la (601 psi)	
Protection Devices	Inverter Circuit (Compressor/Fan)			Over-current protection		
Defeigement Ding Dimensions	Liquid (High Pressure) (Brazed)	In	3/8 Brazed	3/8 Brazed (1/2 Brazed, the farthest pipe length >= 90 m)	3/8 Brazed (1/2 Brazed, the farthest pipe length >= 40 m)	
Kenngerant Pipe Dimensions	Gas (Low Pressure) (Brazed)		7/8 Brazed	7/8 Brazed	1-1/8 Brazed	
Indoor Unit Connectable	Total capacity			50~130% of outdoor unit capacity		
Indoor Onit Connectable	door Unit Connectable Model / Quantity		P05~P72/1~15	P05~P96/1~20	P05~P96/1~26	
Guarantood Operating Bange *1	Cooling (Outdoor) *2			23~126°F (-5~52°C)		
Guaranteeu Operatilig Kalige 1	Heating (Outdoor) *3			-13F~60°F (-25~15.5°C)		
Extended Operating Range *4	Heating (Outdoor)			-25~60°F (-31.5~15.5°C)		
	EER (Ducted/Non-Ducted)		13.5 / 15.5	14.1 / 15.3	13.3 / 14.3	
Efficiency Ratings *5	IEER (Ducted/Non-Ducted)		25.3 / 32.5	26.7 / 34.0	25.4 / 30.8	
	COP (Ducted/Non-Ducted)		4.05 / 4.57	4.04 / 4.39	3.80 / 4.21	

NOTES:

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)

Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

1. Harsh weather environments may demand performance enhancing equipment. Ask your sales representative for more details about your region.

2. For details on extended cooling operation range down to -10° F DB, see Low Ambient Kit Submittal.

3. When applying product below $-4^{\circ}F$, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.

4. Unit will continue to operate in extended operating range, but capacity is not guaranteed.



TUHYE**(3/4)AN40AN

SPECIFICATIONS			MODEL NAMES					
VOLTAGES		208V /230V	TUHYE1443AN40A (N/B)	TUHYE1683AN40A (N/B)	TUHYE1923AN40A (N/B)			
		460V	TUHYE1444AN40A (N/B)	TUHYE1684AN40A (N/B)	TUHYE1924AN40A (N/B)			
			3-phase 3-wire 208-230 V ±10% 60 Hz					
Power Source				3-phase 3-wire 460 V $\pm 10\%$ 60 Hz				
	Cooling	Btu/h	144,000	168,000	192,000			
Capacity (Nominal)	Heating	Btu/h	160,000	188,000	215,000			
			47/44	56/51	68/62			
	MCA	A	21	25	31			
			70/70	90/80	110/100			
Electrical Supply	MOP	A	35	40	40			
	SCCR	A	5	5	5			
	Pacammandad Euca Siza		60/60	70/70	70/70			
	Recommended Fuse Size	A	35	40	40			
	Type X Quantity			Propeller fan x 2				
Fan	Airflow Rate	CFM	9,200	10,600	12,700			
	External Static Pressure		Selectable; 0, 0.12, 0.24, 0.32 in.WG; factory set to 0 in.WG					
	Type X Quantity			Inverter scroll hermetic compressor x 1				
Compressor	Operating Range		15% to 100%	15% to 100%	15% to 100%			
Lubricant				MEL32				
Refrigerant	Туре			R410A				
External Finish		1	Pre-coated galvanized steel	sheet (+powder coating for -BS type) <mun< td=""><td>ISELL 3Y 7.8/1.1 or similar></td></mun<>	ISELL 3Y 7.8/1.1 or similar>			
	Height			71-5/8				
Dimensions	Width	In.	48-7/8	68-15/16	68-15/16			
	Depth		29-3/16					
Net Weight		lbs.	680	757	757			
• 	o		715	788	788			
Sound Pressure Level (Measured in Anec	hoic Room)	dB(A)	62.0/64.5	60.0/61.5	61.5/63.5			
Sound Pressure Level (Measured in Anec	hoic Room)	dB(A)	82.5/83.5	78.5/80.5	80.0/82.5			
Protection Devices	High Pressure		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)					
	Inverter Circuit (Compressor/Fan)			Over-current protection	1			
Refrigerant Pine Dimensions	Liquid (High Pressure) (Brazed)	In.	1/2 Brazed	5/8 Brazed	5/8 Brazed			
0	Gas (Low Pressure) (Brazed)		1-1/8 Brazed	1-1/8 Brazed	1-1/8 Brazed			
Indoor Unit Connectable	Total capacity		50~130% of outdoor unit capacity					
indoor onit connectable	Model / Quantity		P05~P96/1~31	P05~P96/1~36	P05~P96/1~41			
Guaranteed Operating Range *1	Cooling (Outdoor) *2			23~126°F (-5~52°C)				
	Heating (Outdoor) *3			-13F~60°F (-25~15.5°C)				
Extended Operating Range *4	Heating (Outdoor)			-25~60°F (-31.5~15.5°C)				
			12.4 / 13.4	11.7 / 12.4	10.7 / 11.7			
Efficiency Ratings *5	IEER (Ducted/Non-Ducted)		24.6 / 30.4	24.0 / 31.2	23.1 / 30.0			
	COP (Ducted/Non-Ducted)		3.68 / 4.01	3.61 / 4.11	3.51 / 4.04			

NOTES:

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)

Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

1. Harsh weather environments may demand performance enhancing equipment. Ask your sales representative for more details about your region.

2. For details on extended cooling operation range down to -10° F DB, see Low Ambient Kit Submittal.

3. When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.

4. Unit will continue to operate in extended operating range, but capacity is not guaranteed.

SPECIFICATIONS: **V**-SERIES (HIGH EFFICIENCY)

TUHYE**(3/4)BN40AN

SPECIF	ICATIONS		MODEL NAMES						
		20017	TUHYE1923BN40A (N/B)	TUHYE2163BN40A (N/B)	TUHYE2403BN40A (N/B)	TUHYE2643BN40A (N/B)			
VOLTAGES		/230V	With 2 TUHYE0963AN40A (N/B)	With 1 TUHYE1203AN40A (N/B) and 1 TUHYE0963AN40A (N/B)	With 2 TUHYE1203AN40A (N/B)	With 2 TUHYE0963AN40A (N/B) and 1 TUHYE0723AN40A (N/B)			
			TUHYE1924BN40A (N/B)	TUHYE2164BN40A (N/B)	TUHYE2404BN40A (N/B)	TUHYE2644BN40A (N/B)			
		460V	With 2 TUHYE0964AN40A (N/B)	With 1 TUHYE1204AN40A (N/B) and 1 TUHYE0964AN40A (N/B)	With 2 TUHYE1204AN40A (N/B)	With 2 TUHYE0964AN40A (N/B) and 1 TUHYE0724AN40A (N/B)			
Power Source			3-phase 3-wire 208-230 V ±10% 60 Hz						
				3-phase 3-wire 460 V ±10% 60 Hz					
Canacity (Nominal)	Cooling	Btu/h	192,000	216,000	240,000	264,000			
cupacity (rioninia)	Heating	Btu/h	216,000	243,000	270,000	296,000			
	MCA	A	Refer to: With 2 TUHYE0963AN40A (N/B)	Refer to: With 1 TUHYE1203AN40A (N/B)	Refer to: With 2 TUHYE1203AN40A (N/B)	Refer to: With 2 TUHYE0963AN40A (N/B)			
Electrical Supply	МОР	A		and 1 TUHYE0963AN40A (N/B)		and 1 TUHYE0723AN40A (N/B)			
	SCCR	А	With 2 TUHYE0964AN40A (N/B)	With 1 TUHYE1204AN40A (N/B)	With 2 TUHYE1204AN40A (N/B)	With 2 TUHYE0964AN40A (N/B)			
	Recommended Fuse Size	А		and 1 TUHYE0964AN40A (N/B)		and 1 TUHYE0724AN40A (N/B)			
	Type X Quantity								
Fan	Airflow Rate	CFM							
	External Static Pressure								
	Type X Quantity								
Compressor	Operating Range		7.5% to 100%	7.5% to 100%	7.5% to 100%	5% to 100%			
D (1)	Lubricant		Refer to:	Refer to:	Keler to:	Refer to:			
Retrigerant Type			With 2 TUHYE0963AN40A (N/B)	With I TUHYE1203AN40A (N/B)	With 2 TUHYE1203AN40A (N/B)	With 2 TUHYE0963AN40A (N/B)			
External Finish				and I TUHYE0963AN40A (N/B)		and I TUHYE0/23AN40A (N/B)			
Dimensions	Width	In	With 2 THEVE09644N404 (N/B)	With 1 TUHYE1204AN40A (N/B) and 1 TUHYE0964AN40A (N/B)	With 2 TUHYE1204AN40A (N/B)	With 2 TUHYE0964AN40A (N/B) and 1 TUHYE0724AN40A (N/B)			
Dimensions	Denth		WILL 2 TOTT LODO-AIV-OA (IV) D)						
Net Weight		lbs.							
Sound Pressure Level (Measured in	n Anechoic Room)	dB(A)	59.5/62.0	61.5/63.5 63.0/65.0		60.5/63.0			
Sound Pressure Level (Measured ir	n Anechoic Room)	dB(A)	78.5/81.0 81.0/82.5		83.0/84.0	79.5/82.0			
Protection Devices	High Pressure			High pressure sensor, High press	ure switch at 4.15 MPa (601 psi)				
	Inverter Circuit (Compressor/	Fan)		Over-curren	at protection				
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	In.	5/8 Brazed	5/8 Brazed	5/8 Brazed	3/4 Brazed			
	Gas (Low Pressure) (Brazed)		1-1/8 Brazed	1-1/8 Brazed	1-1/8 Brazed	1-3/8 Brazed			
	Total capacity			50~130% of out	loor unit capacity				
Indoor Unit Connectable	Model / Quantity		P05~P96/1~41	P05-P96/2-46 P05-P96/2-50 P05-P96/2-50					
Guaranteed Operating	Cooling (Outdoor) *2			23~126°F	(-5~52°C)				
Range *1	Heating (Outdoor) *3			-13F~60°F (-25~15.5°C)				
Extended Operating Range *4	Heating (Outdoor)			-25~60°F (-3	31.5~15.5°C)				
	EER (Ducted/Non-Ducted)		13.0 / 14.3	12.7 / 13.8	12.3 / 12.5	12.7 / 13.4			
Efficiency Ratings *5	IEER (Ducted/Non-Ducted)		25.3 / 32.6	24.8 / 31.1	24.2 / 27.7	24.6 / 30.0			
	COP (Ducted/Non-Ducted)		3.75 / 4.11	3.65 / 4.03	3.54 / 3.73	3.72 / 3.94			

NOTES

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)

Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

Twinning kit is required for combining multiple individual outdoor units in the field for TUHYE**(3/4)BN40A(N/B) combined systems.

1. Harsh weather environments may demand performance enhancing equipment. Ask your sales representative for more details about your region. 2. For details on extended cooling operation range down to $\rm -10^\circ$ F DB, see Low Ambient Kit Submittal.

3. When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.

4. Unit will continue to operate in extended operating range, but capacity is not guaranteed



TUHYE**(3/4)BN	40AN
----------------	-------------

SPECIF	ICATIONS		MODEL NAMES							
			TUHYE2883BN40A (N/B)	TUHYE3123BN40A (N/B)	TUHYE3363BN40A (N/B)	TUHYE3603BN40A (N/B)				
VOLTAGE		208V /230V	With TUHYE1203AN40A (N/B) and TUHYE0963AN40A (N/B) and TUHYE0723AN40A (N/B)	With 2 TUHYE1203AN40A (N/B) and 1 TUHYE0723AN40A (N/B)	With 2 TUHYE1203AN40A (N/B) and 1 TUHYE0963AN40A (N/B)	With 3 TUHYE1203AN40A (N/B)				
VOLINGLS			TUHYE2884BN40A (N/B)	TUHYE3124BN40A (N/B)	TUHYE3364BN40A (N/B)	TUHYE3604BN40A (N/B)				
		460V	With TUHYE1204AN40A (N/B) and TUHYE0964AN40A (N/B) and TUHYE0724AN40A (N/B)	With 2 TUHYE1204AN40A (N/B) and 1 TUHYE0724AN40A (N/B)	With 2 TUHYE1204AN40A (N/B) and 1 TUHYE0964AN40A (N/B)	With 3 TUHYE1204AN40A (N/B)				
				3-phase 3-wire 208-230 V ±10% 60 Hz						
Power Source				3-phase 3-wire 460 V ±10% 60 Hz						
	Cooling	Btu/h	288,000	312,000	336,000	360,000				
Capacity (Nominal)	Heating	Btu/h	323,000	350,000	378,000	405,000				
	MCA	A	Refer to: With TUHYE1203AN40A (N/B)	Refer to: With 2 TUHYE1203AN40A (N/B)	Refer to: With 2 TUHYE1203AN40A (N/B)	Refer to: With 3 TUHYE1203AN40A (N/B)				
Electrical Supply	МОР	A	and TUHYE0963AN40A (N/B) and TUHYE0723AN40A (N/B)	and 1 TUHYE0/23AN40A (N/B)	and 1 TUHYE0963AN40A (N/B)					
	SCCR	А	With TUHYE1204AN40A (N/B)	With 2 TUHYE1204AN40A (N/B)	With 2 TUHYE1204AN40A (N/B)	With 3 TUHYE1204AN40A (N/B)				
	Recommended Fuse Size	Α	and TUHYE0964AN40A (N/B) and TUHYE0724AN40A (N/B)	and 1 TUHYE0724AN40A (N/B)	and 1 TUHYE0964AN40A (N/B)					
	Type X Quantity									
Fan	Airflow Rate	CFM								
	External Static Pressure									
	Type X Quantity									
Compressor	Operating Range		5% to 100%	5% to 100%	5% to 100%	5% to 100%				
- 4	Lubricant		Refer to:	Refer to:	Refer to:	Refer to:				
Refrigerant Type			With TUHYE1203AN40A (N/B)	With 2 TUHYE1203AN40A (N/B)	With 2 TUHYE1203AN40A (N/B) and 1 TUHYE0963AN40A (N/B)	With 3 TUHYEI203AN40A (N/B)				
External Finish			and TUHYE0723AN40A (N/B)	and 1 10111E0/25AN40A (N/D)						
Dimonsions	Height	In		With 2 TUHYE1204AN40A (N/B) and 1 TUHYE0724AN40A (N/B)	With 2 TUHYE1204AN40A (N/B) and 1 TUHYE0964AN40A (N/B)	MGth 2 THUNELOOAANAOA (NL/D)				
Dimensions	Dopth	- 111.	and TUHYE0964AN40A (N/B)			WIUI 5 TUH FETZU4AIN40A (IN/ B)				
Net Weight	Берш	lhs	and TUHYE0724AN40A (N/B)							
Sound Pressure Level (Measured in	n Anechoic Room)	dB(A)	62.5/64.5	63.5/65.5	63.5/65.5	64.5/66.5				
Sound Pressure Level (Measured in	n Anechoic Room)	dB(A)	82.0/83.5	83.5/84.5	83.5/84.5	84.5/85.5				
	High Pressure	I	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)							
Protection Devices	Inverter Circuit (Compressor/	Fan)	Over-current protection							
Refrigerant Dine Dimonsions	Liquid (High Pressure) (Brazed)	In		3/4 E	Brazed					
Kenigerant ripe Dimensions	Gas (Low Pressure) (Brazed)	111.	1-3/8 Brazed	1-3/8 Brazed	1-5/8 Brazed	1-5/8 Brazed				
	Total capacity			50~130% of outo	loor unit capacity					
Indoor Unit Connectable	Model / Quantity			P05~P9	6/2~50					
Guaranteed Operating	Cooling (Outdoor) *2		23–126°F (-5–52°C)							
Range *1	Heating (Outdoor) *3		-13F~60°F (-25~15.5°C)							
Extended Operating Range *4	Heating (Outdoor)			-25~60°F (-3	31.5~15.5°C)	1				
	EER (Ducted/Non-Ducted)		12.4 / 13.2	12.2 / 12.6	12.4 / 12.3	12.2 / 12.1				
Efficiency Ratings *5	IEER (Ducted/Non-Ducted)		24.2 / 29.3	23.9 / 27.7	24.3 / 27.6	24.0 / 26.9				
	COP (Ducted/Non-Ducted)		3.65 / 3.91	3.58 / 3.78	3.58 / 3.68	3.51 / 3.65				

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)

Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

Twinning kit is required for combining multiple individual outdoor units in the field for TUHYE $^{**}(3/4)BN40A(N/B)$ combined systems.

1. Harsh weather environments may demand performance enhancing equipment. Ask your sales representative for more details about your region.

2. For details on extended cooling operation range down to -10° F DB, see Low Ambient Kit Submittal.

3. When applying product below $-4^{\circ}F$, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.



TUHYE**(3/4)BN40AN

SPECIFICATIONS			MODEL NAMES			
			TUHYE3843BN40A (N/B)	TUHYE4083BN40A (N/B)	TUHYE4323BN40A (N/B)	
208V /230V VOLTAGES		208V /230V	With 1 TUHYE1443AN40A (N/B) and 2 TUHYE1203AN40A (N/B)	With 2 TUHYE1443AN40A (N/B) and 1 TUHYE1203AN40A (N/B)	With 3 TUHYE1443AN40 (N/B)	
			TUHYE3844BN40A (N/B)	TUHYE4084BN40A (N/B)	TUHYE4324BN40A (N/B)	
		460V	With 1 TUHYE1444AN40A (N/B) and 2 TUHYE1204AN40A (N/B)	With 2 TUHYE1444AN40A (N/B) and 1 TUHYE1204AN40A (N/B)	With 3 TUHYE1444AN40A (N/B)	
Dower Source				3-phase 3-wire 208-230 V ±10% 60 Hz		
rower source				3-phase 3-wire 460 V ±10% 60 Hz		
Canacity (Nominal)	Cooling	Btu/h	384,000	408,000	432,000	
cupacity (noninia)	Heating	Btu/h	430,000	455,000	480,000	
	MCA	A	Refer to: With 1 TUHYE1443AN40A (N/B)	Refer to: With 2 TUHYE1443AN40A (N/B)	Refer to: With 3 TUHYE1443AN40 (N/B)	
Electrical Supply	MOP	A	and 2 TUHYEI203AN40A (N/B)	and I IUHYEI203AN40A (N/B)		
	SCCR	A	With 1 TUHYE1444AN40A (N/B) and 2 TUHYE1204AN40A (N/B)	With 2 TUHYE1444AN40A (N/B) and 1 TUHYE1204AN40A (N/B)	With 3 TUHYE1444AN40A (N/B)	
	Recommended Fuse Size	A				
_	Type X Quantity					
Fan	Airflow Rate CFM					
	External Static Pressure					
~	Type X Quantity		50(+ 1000(50(+ 1000(50/ 1 1000/	
Compressor	Operating Range		5% to 100%	5% to 100%	5% to 100%	
Refrigerant	Type		With 1 THEYE14434N404 (N/B)	With 2 TIIHYE1443 Δ N40 Δ (N/B)	Keier to:	
Evternal Einich		and 2 TUHYE1203AN40A (N/B)	and 1 TUHYE1203AN40A (N/B)			
	Height					
Dimensions	Width	In	With 1 TUHYE1444AN40A (N/B)	With 2 TUHYE1444AN40A (N/B)	With 3 TUHYE1444AN40A (N/B)	
	Depth		and 2 TUHYE1204AN40A (N/B)	and 1 TUHYE1204AN40A (N/B)		
Net Weight		lbs.				
Sound Pressure Level (Measured in Anec	hoic Room)	dB(A)	65.5/68.0	66.5/68.5	67.0/69.5	
Sound Pressure Level (Measured in Anec	hoic Room)	dB(A)	86.0/87.0	86.5/87.5	87.5/88.5	
	High Pressure	1	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
Protection Devices	Inverter Circuit (Compressor/Fan)		Over-current protection			
Refrigerant Dine Dimensions	Liquid (High Pressure) (Brazed)	In		3/4 Brazed		
Reingerant ripe Dimensions	Gas (Low Pressure) (Brazed)		1-5/8 Brazed			
Indoor Unit Connectable	Total capacity			50~130% of outdoor unit capacity		
	Model / Quantity		P05~P96/2~50	P05~P96/3~50	P05~P96/3~50	
Guaranteed Operating Range *1	Cooling (Outdoor) *2			23~126°F (-5~52°C)		
	Heating (Outdoor) *3			-13F~60°F (-25~15.5°C)		
Extended Operating Range *4	Heating (Outdoor)			-25~60°F (-31.5~15.5°C)		
	EER (Ducted/Non-Ducted)		11.9 / 11.8	11.7 / 11.4	11.4 / 11.1	
Efficiency Ratings *5	IEER (Ducted/Non-Ducted)		23.8 / 26.6	23.5 / 26.3	23.3 / 25.9	
	COP (Ducted/Non-Ducted)		3.48 / 3.57	3.45 / 3.49	3.41 / 3.41	

NOTES

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)

Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

Twinning kit is required for combining multiple individual outdoor units in the field for TUHYE**(3/4)BN40A(N/B) combined systems.

1. Harsh weather environments may demand performance enhancing equipment. Ask your sales representative for more details about your region.

2. For details on extended cooling operation range down to $\mbox{-}10^\circ$ F DB, see Low Ambient Kit Submittal.

3. When applying product below $-4^{\circ}F$, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.

Unit will continue to operate in extended operating range, but capacity is not guaranteed.

TCMBG**SJ11N4 (Single BC)

		MODEL NAMES								
	SPECIFICATIO	NS	TCMBG0104SJ11N4	TCMBG0106SJ11N4	TCMBG0108SJ11N4	TCMBG1012SJ11N4	TCMBG1016SJ11N4			
Number of Branches			4	6	8	12	16			
	Power Sour	ce			208 / 230V, 1 phase, 60Hz					
Power Input	Cooling	kW	0.061 / 0.078	0.091 / 0.118	0.122 / 0.157	0.182 / 0.235	0.243 / 0.314			
(208/230V) Heating	Heating	kW	0.030 / 0.039	0.046 / 0.059	0.061 / 0.078	0.091 / 0.118	0.122 / 0.157			
Current	Cooling	А	0.30 / 0.35	0.44 / 0.52	0.59 / 0.69	0.88 / 1.03	1.17 / 1.37			
(208/230V)	Heating	А	0.15 / 0.18	0.22 / 0.26	0.30 / 0.35	0.44 / 0.52	0.59 / 0.69			
	External Fini	ish	Gal	vanized steel plate (Lower pa	art drain pan: Pre-coated galv	anized sheets + powder coat	ing)			
	Height			9-7/8						
Dimensions	Dimensions Width	In.	23-1/2	23-1/2	23-1/2	35-7/8	44-11/16			
	Depth		15-11/16	15-11/16	15-11/16	21-1/2	21-1/2			
Net	Weight	Lbs.	58	64	73	109	131			
Refrigerant Pipe	To Indoor Unit	Liquid Pipe (In.)	3/8							
Dimensions	to indoor offic	Gas Pipe (In.)	5/8							
Connectable Outdo Heat Source Unit O	oor/ Capacity	Btu/h	72,000 to 120,000							
Indoor unit Capaci to One Branch	ty Connectable	,	54,000							
Drain Pipe			3/4 NPT							
Sound Power Le	evel (Measured in	Rated Operation dB(A)			59					
Anecho	oic Room)	Defrost dB(A)			71					
Sound Pressure I	Level (Measured in	Rated Operation dB(A)			40					
Anecho	oic Room)	Defrost dB(A)		53						

Total Downstream Capacity (Nominal cooling) (Btu/h)	Liquid (High Pressure)	Gas (Low Pressure)	Liquid Pipe
Less than 72,000	5/8 (Brazed)	3/4 (Brazed)	3/8 (Brazed)
Between 73,000 and 108,000	3/4 (Brazed)	7/8 (Brazed)	3/8 (Brazed)
Between 109,000 and 126,000	3/4 (Brazed)	1-1/8 (Brazed)	1/2 (Brazed)
Between 127,000 and 144,000	7/8 (Brazed)	1-1/8 (Brazed)	1/2 (Brazed)
Between 145,000 and 216,000	7/8 (Brazed)	1-1/8 (Brazed)	5/8 (Brazed)
Between 217,000 and 234,000	1-1/8 (Brazed)	1-1/8 (Brazed)	5/8 (Brazed)
Between 235,000 and 288,000	1-1/8 (Brazed)	1-3/8 (Brazed)	3/4 (Brazed)
Between 289,000 and 360,000	1-1/8 (Brazed)	1-5/8 (Brazed)	3/4 (Brazed)
Greater than 361,000	1-3/8 (Brazed)	1-5/8 (Brazed)	3/4 (Brazed)

TCMBM**(JA/KA)11N4 (Main BC)

OPPOTECATIONS			MODEL NAMES				
SPECIFICATIONS			TCMBM0108JA11N4	TCMBM1012JA11N4	TCMBM1016JA11N4	TCMBM1016KA11N4	
Number of Branches		8	12	16	16		
Power Source				208 / 230V, 1	l phase, 60Hz		
Power Input	Cooling	kW	0.137 / 0.176	0.198 / 0.255	0.258 / 0.333	0.258 / 0.333	
(208/230V)	Heating	kW	0.076 / 0.098	0.106 / 0.137	0.137 / 0.176	0.137 / 0.176	
Current	Cooling	А	0.66 / 0.77	0.95 / 0.11	1.25 / 1.45	1.25 / 1.45	
(208/230V)	Heating	А	0.37 / 0.43	0.52 / 0.60	0.66 / 0.77	0.66 / 0.77	
External Finish		Galvanized steel p	late (Lower part drain pan: F	Pre-coated galvanized sheets	+ powder coating)		
	Height		9-7/8				
Dimensions	Width	In.	35-7/8	44-11/16	44-11/16	44-11/16	
	Depth		21-1/2				
Net Weight		Lbs.	106	133	150	153	
Refrigerant Pine Dimensions	To Indoor Unit	Liquid Pipe (In.)	3/8				
		Gas Pipe (In.)	5/8				
Connectable Outdoor / Heat Source Unit Capacity		Btu/h	72,000 to 336,000 72,000 to			72,000 to 432,000	
Max. Connected Capacity to Sub BC Controllers		Dtu /b	126,000				
Indoor unit Capacity Connectable to One Branch		Btu/II	54,000				
Drain Pipe			3/4	NPT			
Cound Dourse Lovel (Macquired in Anachaic Doom)		Rated Operation dB(A)	68			66	
Sound Power Level (Measured in Anechoic Room)		Defrost dB(A)	74			73	
Sound Process Lovel (Measured in Anachoic Poom)		Rated Operation dB(A)		50		48	
Sound Fressdie Level (Weasured III Affection Room)		Defrost dB(A)		56		55	

TCMBS**KB11N4 (Sub BC)

SDECIEICATIONS			MODEL NAMES			
SPECIFICATIONS			TCMBS0104KB11N4	TCMBS0108KB11N4		
Number of Branches			4	8		
Power Source			208 / 230V, 1	phase, 60Hz		
Power Input	Cooling	kW	0.061 / 0.078	0.122 / 0.157		
(208/230V)	Heating	kW	0.030 / 0.039	0.061 / 0.078		
Current	Cooling	А	0.30 / 0.35	0.59 / 0.69		
(208/230V)	Heating	А	0.15 / 0.18	0.30 / 0.35		
External Finish			Galvanized steel plate (Lower part drain pan: P	re-coated galvanized sheets + powder coating)		
	Height	In.	9-7/8			
Dimensions	Width	In.	23-	1/2		
	Depth	In.	15-11/16			
Net Weight		Lbs.	51	69		
Refrigerant Pipe Dimensions	To Indoor	Liquid Pipe (In.)	3/8			
	Unit	Gas Pipe (In.)	5/8			
Maximum Connectable Sub BC Controllers			1	1		
Max. Connected Capacity for All Branches		Day (h	126,000			
Indoor unit Capacity Connectable to One Branch		Btu/n	54,000			
Drain Pipe			3/4 NPT			
Sound Dower Lovel (Measured in Anochoic Poom)		Rated Operation dB(A)	59			
Sound Fower Level (measured in Anechoic Robin)		Defrost dB(A)	71			
Sound Process Level (Measured in Anechoic Room)		Rated Operation dB(A)	4	0		
Sound Tressdie Level (Wedsured III Anechoic Roolli)		Defrost dB(A)	5	3		

WANT TO KNOW MORE ABOUT VRF TECHNOLOGY

When was the last time you found a building technology that improves occupant comfort without increasing costs or complexity? Variable Refrigerant Flow is the HVAC technology that helps keep building occupants comfortable while delivering benefits conventional HVAC technologies cannot.

Conventional HVAC systems condition air or water at a central location and waste energy pushing it through a building where cooling or heating is required. With VRF, small diameter piping delivers conditioned refrigerant directly to the space requiring conditioning, improving energy efficiency and increasing the temperature precision. Since each area or zone can be controlled individually, occupants can control personal comfort without impacting surrounding zones.



TRANE.COM/DUCTLESS

© 2019 Mitsubishi Electric Trane HVAC US. All rights reserved.

Mitsubishi Electric, Lossnay, and the three-diamond logo are trademarks of Mitsubishi Electric Corporation. CITY MULTI, kumo cloud and H2i are registered trademarks of Mitsubishi Electric US, Inc. Trane is a registered trademark of Ingersoll-Rand plc. All other product names mentioned herein are trademarks or registered trademarks of their respective owners.

ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the United States Environmental Protection Agency.

Use of the AHRI CertifiedTM mark indicates a manufacturer's participation in the certification program. For verification of certification for individual products, go to www.ahridirectory.org.

Specifications shown in this brochure are subject to change without notice. See complete warranty for terms, conditions and limitations. A copy is available from Mitsubishi Electric Trane HVAC US LLC.