





N-GENERATION

CITY**MULTI**® VRF



# 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.



# **TABLE OF CONTENTS**

Features and Benefits								4
Tiered Product Lineup								$\epsilon$
SPECIFICATION TABLES								
Standard Efficiency								
R2-Series							7-	10
Y-Series							11–	13
High Efficiency								
R2-Series							14-	15
Y-Series							16-	21
BC Controller								
Main Suh						-	77_	2:

# 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**

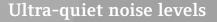
Tiered product line-up – Standard Efficiency, High Efficiency, and improved H2i\* hyper-heating models, resulting in further application flexibility for an owner.

- 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 from 6 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



- ► 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<sup>®</sup>

- ► 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
- ▶ Increased piping distance from the main BC Controller to the furthest indoor unit
- ► Inclusion of service access from the bottom

# SPECIFICATION TABLES





# TURYP\*\*(3/4)AN40AN

SPECIF					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					nase 3-wire 208-230 V ±10% 6 -phase 3-wire 460 V ±10% 60 I							
Capacity (Nominal)	Cooling	Btu/h	72,000	96,000	120,000	144,000	168,000					
Capacity (Nonlinal)	Heating	Btu/h	80,000	108,000	135,000	160,000	188,000					
	MCA	A	24/22	33/30	43/40	52/48	61/57					
	IVICA	A	11	15	18	20	28					
	MOP	A	40/35	50/45	70/60	80/70	100/90					
Electrical Supply	MIOI		15	20	25	30	40					
	SCCR	A	5									
	Recommended Fuse	A	30/30	40/40	50/50	60/60	70/70					
	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	7,400	8,300	9,550	14,850					
	External Static Pressure	5		Selectable; 0,	0.12, 0.24, 0.32 in.WG; factory	set to 0 in.WG						
C	Type X Quantity				erter scroll hermetic compressor	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	1			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							
Net Weight		lbs.	483	576	598	646	739					
Sound Pressure Level (Measur	ed in Anechoic Room)	dB(A)	516 56.5/58.0	611 58.5/60.0	633	682 65.0/65.5	774 62.5/66.5					
Sound Pressure Level (Measur		dB(A)	75.5/77.0	77.5/79.0	80.0/80.5	85.5/85.5	81.0/85.5					
	High Pressure											
Protection Devices	Inverter Circuit		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)  Over-heat protection, Over-current protection									
	(Compressor/Fan)			57CI III	,, ster carrent pro							
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)	111.	3/4 Brazed	7/8 Brazed	1-1/8 Brazed	1-1/8 Brazed	1-1/8 Brazed					
	Total capacity			50	0~150% of outdoor unit capaci	ty						
Indoor Unit Connectable	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					
	IEER		23.8 / 29.2	25.5 / 31.9	23.3 / 28.8	23.1 / 28.7	21.3 / 25.8					
Efficiency Ratings *5	(Ducted/Non-Ducted) COP (Ducted/Non-Ducted)		3.76 / 4.09	3.88 / 4.14	3.61 / 4.01	3.43 / 3.84	3.30 / 3.80					
	(Ducted/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					
	(Ducted/Non-Ducted)					, , , , , ,						

### 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.)

- 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.
- 5. Efficiency ratings are based on AHRI 1230 test method

# TURYP\*\*(3/4)BN40AN

SPECIF	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)					
VULIAGES			TURYP1924BN40-A (N/B)	TURYP2164BN40A (N/B)	TURYP2404BN40A (N/B)	TURYP2644BN40A (N/B)					
		460V	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)					
D 6				3-phase 3-wire 208	-230 V ±10% 60 Hz						
Power Source				3-phase 3-wire 460 V ±10% 60 Hz							
Capacity (Nominal)	Cooling	Btu/h	192,000	216,000	240,000	264,000					
Capacity (Nonlinal)	Heating	Btu/h	215,000	243,000	270,000	295,000					
	MCA	A	Refer to: TURYP0963AN40A (N/B)	Refer to: TURYP1203AN40A (N/B)	Refer to: TURYP1203AN40A (N/B)	Refer to: TURYP1443AN40A (N/B)					
Electrical Supply	МОР	A		TURYP0963AN40A (N/B)		TURYP1203AN40A (N/B)					
	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:					
Refrigerant	Туре		TURYP0963AN40A (N/B)	TURYP1203AN40A (N/B)	TURYP1203AN40A (N/B)	TURYP1443AN40A (N/B)					
External Finish				TURYP0963AN40A (N/B)		TURYP1203AN40A (N/B)					
Dimensions	Height	T	TUDYDOOC 4 AN 40 A (N /D)	TUDYD1204ANI40A (NI /D)	THEOLOGIAN AND A CALCED	TUDYD1444ANIAOA (AL/D)					
Dimensions	Width Depth	In.	TURYP0964AN40A (N/B)	TURYP1204AN40A (N/B) TURYP0964AN40A (N/B)	TURYP1204AN40A (N/B)	TURYP1444AN40A (N/B) TURYP1204AN40A (N/B)					
	Бериг			TOTAL OSO MAYON (IV) B)		TORTI IZO INIVIOTI (IV) B)					
Net Weight		lbs.									
Sound Pressure Level (Measured in		dB(A)	61.5/63.0	62.5/64.5	63.0/65.0	66.5/67.5					
Sound Pressure Level (Measured ir	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)						
	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)		1-1/8 Brazed	1-1/8 Brazed	1-3/8 Brazed	1-3/8 Brazed					
	Total capacity			50~150% of outo	loor unit capacity						
Indoor Unit Connectable	Model / Quantity			P05~P9	6/1~48						
Guaranteed Operating				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 Ratings *5	IEER (Ducted/Non-Ducted)		24.3 / 30.7	23.3 / 29.2	22.3 / 26.3	22.2 / 26.4					
Enrelency 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					

### MOTEC.

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor:  $80^{\circ}FD.B./67^{\circ}FW.B.$  (26.7°CD.B./19.4°CW.B.), Outdoor:  $95^{\circ}FD.B.$  (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 TURYP\*\*(3/4)BN40A(N/B) combined systems.

- 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.
- Efficiency ratings are based on AHRI 1230 test method

### TURYP\*\*(3/4)BN40AN TURYP2883BN40A (N/B) TURYP3123BN40A (N/B) TURYP3363BN40A (N/B) 208V /230V With 2 TURYP1683AN40A (N/B) and 1 TURYP1443AN40A (N/B) VOLTAGES TURYP2884BN40A (N/B) TURYP3124BN40A (N/B) TURYP3364BN40A (N/B) 460V With 1 TURYP1684AN40A (N/B) and 1 TURYP1444AN40A (N/B) With 2 TURYP1444AN40A (N/B) With 2 TURYP1684AN40A (N/B) 3-phase 3-wire 208-230 V $\pm 10\%$ 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 Refer to: Refer to: Refer to: MCA Α With 2 TURYP1443AN40A (N/B) With 2 TURYP1683AN40A (N/B) With 1 TURYP1963AN40A (N/B) and 1 TURYP1443AN40A (N/B) MOP Α Electrical Supply TURYP1444AN40A (N/B) TURYP1684AN40A (N/B) TURYP1684AN40A (N/B) SCCR Α TURYP1444AN40A (N/B) Recommended Fuse Size Α Type X Quantity Airflow Rate CFM Fan External Static Pressure Type X Quantity Operating Range 7.5% to 100% 7.5% to 100% 7.5% to 100% Compressor Lubricant Refer to: Refer to: Refrigerant Type With 2 TURYP1443AN40A (N/B) With 1 TURYP1963AN40A (N/B) and 1 With 2 TURYP1683AN40A (N/B) External Finish TURYP1443AN40A (N/B) Height Width TURYP1444AN40A (N/B) TURYP1684AN40A (N/B) TURYP1684AN40A (N/B) Dimensions In. TURYP1444AN40A (N/B) Depth Net Weight lbs. Sound Pressure Level (Measured in Anechoic Room) dB(A) 68.0/68.5 67.0/69.0 65.5/69.5 Sound Pressure Level (Measured in Anechoic Room) dB(A) 88.5/88.5 84.0/88.5 87.0/88.5 High Pressure High pressure sensor, High pressure switch at 4.15 MPa (601 psi) Protection Devices Inverter Circuit Over-heat protection, Over-current protection (Compressor/Fan) Liquid (High 1-1/8 Brazed Pressure) (Brazed) Refrigerant Pipe Dimensions In Gas (Low Pressure) (Brazed) 1-3/8 Brazed 1-5/8 Brazed 1-5/8 Brazed 50~150% of outdoor unit capacity Total capacity Indoor Unit 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) 102/109 101/102 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.I (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  $TURYP^{**}(3/4)BN40A(N/B)$  combined systems.

- 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.
- 5. Efficiency ratings are based on AHRI 1230 test method

# TUHYP\*\*(3/4)AN40AN

SPECIFIC	ATIONS				MODEL NAME						
VOLTAGES		208V /230V	TUHYP0723AN40A (N/B)	TUHYP0963AN40A (N/B)	TUHYP1203AN40A (N/B)	TUHYP1443AN40A (N/B)	TUHYP1683AN40A (N/B)				
TOEMIGES		460V	7 TUHYP0724AN40A (N/B) TUHYP0964AN40A (N/B) TUHYP1204AN40A (N/B) TUHYP1444AN40A(N/B)		TUHYP1444AN40A(N/B)	TUHYP1684AN40A (N/B)					
Power Source				3-р	hase 3-wire 208-230 V ±10% 60	) Hz					
Tower source				3	-phase 3-wire 460 V ±10% 60 H	ÍZ					
Capacity (Nominal)	Cooling	Btu/h	72,000	96,000	120,000	144,000	168,000				
Cupacity (Hominal)	Heating	Btu/h	80,000	108,000	135,000	160,000	188,000				
	MCA	A	24/22	33/31	41/38	49/45	59/54				
			11	15	19	22	27				
	MOP	A	40/35 15	50/45	60/60 30	80/70 35	90/90 45				
Electrical Supply	SCCR	A	5	5	5	5	5				
		A									
	Recommended Fuse Size	Α	30/30	40/40	50/50	60/60	70/70				
			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 s	set to 0 in.WG					
	Type X Quantity			Inv	erter scroll hermetic compressor	x 1					
Compressor	Operating Range		15% to 100%								
	Lubricant				MEL32						
Refrigerant	Туре				R410A						
External Finish			P	re-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				
	Depth		29-3/1	29-3/16	29-3/16	29-3/16	29-3/16				
NI-+ IAI-:-b-		11	479	569	594	640	713				
Net Weight		lbs.	512	605	629	675	748				
Sound Pressure Level (Measured in Anechoic Roon	n)	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 Roon	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 se	ensor, High pressure switch at 4.1	5 MPa (601 psi)					
Protection Devices	Inverter Circuit (Compressor/Fan)				Over-current protection						
Refrigerant Pipe	Liquid (High Pressure) (Brazed)		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)	In.	7/8 Brazed	7/8 Brazed	1-1/8 Brazed	1-1/8 Brazed	1-1/8 Brazed				
Indoor Unit Connectable	Total capacity			5	0-130% of outdoor unit capacity	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				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				

### 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.)

- 2. For details on extended cooling operation range down to -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.
- 5. Efficiency ratings are based on AHRI 1230 test method

# SPECIFICATIONS: ▼ Y-SERIES (STANDARD EFFICIENCY)

# TUHYP\*\*(3/4)BN40AN

SPECIFIC	FICATIONS MODEL NAMES												
31 LCII IC	AHONS												
		2227	TUHYP1923BN40A (N/B)	TUHYP2163BN40A (N/B)	TUHYP2403BN40A (N/B)	TUHYP2643BN40A (N/B)	TUHYP2883BN40A (N/B)						
MALTA CEC		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	VOLIAGES		TUHYP1924BN40A (N/B)	TUHYP2164BN40A (N/B)	TUHYP2404BN40A (N/B)	TUHYP2644BN40A (N/B)	TUHYP2884BN40A (N/B)						
460V		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									
	<u> </u>				3-phase 3-wire 460 V ±10% 60 Hz								
Capacity (Nominal)	Cooling	Btu/h	192,000	216,000	240,000	264,000	288,000						
(Nonminar)	Heating	Btu/h	216,000 Refer to:	243,000 Refer to:	270,000	296,000 Refer to:	323,000 Refer to:						
	MCA	A	With 2 TUHYP0963AN40A (N/B)	With 1 TUHYP1203AN40A (N/B)	Refer to: With 2 TUHYP1203AN40A N/B)	With 2 TUHYP0963AN40A (N/B)	With TUHYP1203AN40A (N/B)						
Electrical Supply	MOP	A		and 1 TUHYP0963AN40A (N/B)		and 1 TUHYP0723AN40A (N/B)	and TUHYP0963AN40A (N/B) and TUHYP0723AN40A (N/B)						
	SCCR	A	TUHYP0964AN40A (N/B)	TUHYP1204AN40A (N/B)	TUHYP1204AN40A (N/B)	TUHYP0964AN40A (N/B)	TUHYP1204AN40A (N/B)						
	Recom- mended Fuse Size	A		TUHYP0964AN40A (N/B)		TUHYP0724AN40A (N/B)	TUHYP0964AN40A (N/B) TUHYP0724AN40A (N/B)						
	Type X Qua	ntity											
Fan	Airflow Rate	CFM											
	External Sta Pressure	tic											
_	Type X Qua												
Compressor	Operating R Lubricant		7.5% to 100% Refer to:	7.5% to 100% Refer to:	7.5% to 100% Refer to:	5% to 100% Refer to:	5% to 100% Refer to:						
Refrigerant	Туре		With 2 TUHYP0963AN40A (N/B)	With 1 TUHYP1203AN40A (N/B)	With 2 TUHYP1203AN40A N/B)	With 2 TUHYP0963AN40A (N/B)	With TUHYP1203AN40A (N/B)						
External Finish	Height			and 1 TUHYP0963AN40A (N/B)		and 1 TUHYP0723AN40A (N/B)	and TUHYP0963AN40A (N/B) and TUHYP0723AN40A (N/B)						
Dimensions	Width Depth	In.	TUHYP0964AN40A (N/B)	TUHYP1204AN40A (N/B) TUHYP0964AN40A (N/B)	TUHYP1204AN40A (N/B)	TUHYP0964AN40A (N/B) TUHYP0724AN40A (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						
Destruction D	High Pressu			High pressure s	sensor, High pressure switch at 4.15	5 MPa (601 psi)							
Protection Devices	Inverter Circ (Compresso				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 capaci	ty			50~130% of outdoor unit capacity								
nectable	Model / Qu		P05~P96/1~41	P05~P96/2~46	P05~P96/2~50	P05~P96/2~50	P05~P96/2~50						
Guaranteed *2					23~126°F (-5~52°C)								
Operating Range *1	Heating (Ou *3				-4~60°F (-20~15.5°C)								
Extended Operating Range *4 Heating (Outdoor)					-18~60°F (-28~15.5°C)								
_	EER (Ducted	l)	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	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:  $80^{\circ}FD.B./67^{\circ}FW.B.$  (26.7°CD.B./19.4°CW.B.), Outdoor:  $95^{\circ}FD.B.$  (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.
- 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.
- 5. Efficiency ratings are based on AHRI 1230 test method

# 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	
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	A	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)
Electrical Supply	SCCR	A	With 2 TUHYP1204AN40A (N/B)	With 2 TUHYP1204AN40A (N/B)	With 3 TUHYP1204AN40A (N/B)
	Recommended Fuse Size	A	and 1 TUHYP0724AN40A (N/B)	and 1 TUHYP0964AN40A (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%
	Lubricant				
Refrigerant	Туре		Refer to: With 2 TUHYP1203AN40A (N/B)	Refer to: With 2 TUHYP1203AN40A (N/B)	Refer to:
External Finish		1	and 1 TUHYP0723AN40A (N/B)	and 1 TUHYP0963AN40A (N/B)	With 3 TUHYP1203AN40A (N/B)
	Height				
Dimensions	Width	In.	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)
N . N/ . 1 .	Depth	.,,			
Net Weight		lbs.			
Sound Pressure Level (Measured in Anec	hoic Room)	dB(A)	64.0/66.0	64.0/66.0	65.0/67.0
Sound Pressure Level (Measured in Anec	hoic Room)	dB(A)	84.0/85.0	84.0/85.0	85.0/86.0
	High Pressure		High pre-	ssure sensor, High pressure switch at 4.15 MP	a (601 psi)
Protection Devices	Inverter Circuit (Compressor/Fan)			Over-current protection	
Defricance Directions	Liquid (High Pressure) (Brazed)	T		3/4 Brazed	
Refrigerant Pipe Dimensions	Gas (Low Pressure) (Brazed)	In.	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	Cuaranteed 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
,	COP (Ducted/ Non-Ducted)		3.50 / 3.63	3.50 / 3.57	3.42 / 3.51
	COI (Ducteu/ Noil-Ducteu)		3.30 / 3.03	5.50 / 5.5/	3.72 / 3.31

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

Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor:  $70^{\circ}$ FD.B. (21.1°CD.B.), Outdoor:  $47^{\circ}$ FD.B./ $43^{\circ}$ 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.

- 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.
- 5. Efficiency ratings are based on AHRI 1230 test method

# 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)
		460V	TUHYP3844BN40A (N/B) With 1 TUHYP1444AN40A (N/B) and 2	TUHYP4084BN40A (N/B) With 2 TUHYP1444AN40A (N/B) and 1	TUHYP4324BN40A (N/B) With 3 TUHYP1444AN40A (N/B)
			TUHYP1204AN40A (N/B)	TUHYP1204AN40A (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	384,000	408,000	432,000
Capacity (Nominal)	Heating	Btu/h	430,000	455,000	480,000
	MCA		Refer to:	Refer to:	Defeator
	MOP	A	With 1 TUHYP1443AN40A (N/B) and 2 TUHYP1203AN40A (N/B)	With 2 TUHYP1443AN40A (N/B) and 1 TUHYP1203AN40A (N/B)	Refer to: With 3 TUHYP1443AN40A (N/B)
Electrical Supply	SCCR	A	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 Pressure				
	Type X Quantity				
Compressor	Operating Range		5% to 100%	5% to 100%	5% to 100%
	Lubricant				
Refrigerant	Type			Refer to:	Refer to:
External Finish			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)
	Height				
Dimensions	Width	In.	With 1 TUHYP1444AN40A (N/B) and 2	With 2 TUHYP1444AN40A (N/B) and 1	With 3 TUHYP1444AN40A (N/B)
	Depth		TUHYP1204AN40A (N/B)	TUHYP1204AN40A (N/B)	
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	
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	In.		3/4 Brazed	
renigerate ripe Simensons	Gas (Low Pressure) (Brazed)			1-5/8 Brazed	
Indoor Unit Connectable	Total capacity			50~130% of outdoor unit capacity	I
	Model / Quantity		P05~P96/2~50	P05~P96/3~50	P05~P96/3~50
Cuarantood Operating Panca *1	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	-			-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:  $80^{\circ}FD.B./67^{\circ}FW.B.$  (26.7°CD.B./19.4°CW.B.), Outdoor:  $95^{\circ}FD.B.$  (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.

- 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.
- 5. Efficiency ratings are based on AHRI 1230 test method



# TURYE\*\*(3/4)AN40AN

SPECIF	ICATIONS				MODEL NAMES						
		208V /230V	TURYE0723AN40A (N/B)	TURYE0963AN40A (N/B)	TURYE1203AN40A (N/B)	TURYE1443AN40A (N/B)	TURYE1684AN40A (N/B)				
VOLTAGES		460V	TURYE0724AN40A (N/B)	TURYE0964AN40A (N/B)	TURYE1204AN40A (N/B)	TURYE1444AN40A (N/B)	TURYE1684AN40A (N/B)				
				3-nh	nase 3-wire 208-230 V ±10% 6	0 Hz					
Power Source					-phase 3-wire 460 V ±10% 60 I						
	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				
	MOP	A	35/30	45/45	60/60	80/70	90/80				
Electrical Supply	MOP	A	15	20	30	35	40				
	SCCR	A	5	5	5	5	5				
	Recommended Fuse	A	35/30	45/45	60/60	60/60	70/70				
	Size		15	20	30	35	40				
	Type X Quantity	1	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	j.		Selectable; 0,	0.12, 0.24, 0.32 in.WG; factory	set to 0 in.WG					
	Type X Quantity				erter scroll hermetic compressor						
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						
Net Weight		lbs.	519	613	622	680	777				
ivet weight		103.	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	77.5/79.0	80.0/80.5	85.5/85.5	81.0/85.5				
	High Pressure		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)								
Protection Devices	Inverter Circuit (Compressor/Fan)		Over-heat protection, Over-current protection								
D. (	Liquid (High Pressure) (Brazed)		5/8 Brazed	3/4 Brazed	3/4 Brazed	7/8 Brazed	7/8 Brazed				
Refrigerant Pipe Dimensions	Gas (Low Pressure) (Brazed)	In.	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 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				
P	IEER (Ducted/ Non-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/ Non-Ducted)		3.81 / 4.37	3.94 / 4.26	3.71 / 4.04	3.49 / 3.86	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:  $80^{\circ}FD.B./67^{\circ}FW.B.$  (26.7°CD.B./19.4°CW.B.), Outdoor:  $95^{\circ}FD.B.$  (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.)

- 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.
- 5. Efficiency ratings are based on AHRI 1230 test method

# TURYE\*\*(3/4)BN40AN

	or ations			Moder	NAMEC	MODEL NAMES							
SPECIF	FICATIONS			MODEL	INAMES								
			TURYE1923BN40A (N/B)	TURYE2163BN40A (N/B)	TURYE2403BN40A (N/B)	TURYE2643BN40A (N/B)							
MONTACEC		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)							
		100 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								
Tower source				3-phase 3-wire 4	60 V ±10% 60 Hz								
Capacity (Nominal)	Cooling	Btu/h	192,000	216,000	240,000	264,000							
Capacity (Nonlinal)	Heating	Btu/h	215,000	243,000	270,000	295,000							
	MCA	A	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	A		and 1 TURYE0963AN40A (N/B)		and 1 TURYE1203AN40A (N/B)							
	SCCR	A	With 2 TURYE0964AN40A (N/B)	With 1 TURYE1204AN40A (N/B)	With 2 TURYE1204AN40A (N/B)	With 1 TURYE1444AN40A (N/B)							
	Recommended Fuse Size	A		and 1 TURYE0964AN40A (N/B)		and 1 TURYE1204AN40A (N/B)							
	Type X Quantity												
Fan	Airflow Rate CFM												
	External Static Pressure												
	Type X Quantity												
Compressor	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	Type		With 2 TURYE0963AN40A (N/B)	With 1 TURYE1203AN40A (N/B)	With 2 TURYE1203AN40A (N/B)	With 1 TURYE1443AN40A (N/B)							
External Finish	Holesht			and 1 TURYE0963AN40A (N/B)		and 1 TURYE1203AN40A (N/B)							
Dimensions	Height Width	In.	With 2 TURYE0964AN40A (N/B)	With 1 TURYE1204AN40A (N/B)	With 2 TURYE1204AN40A (N/B)	With 1 TURYE1444AN40A (N/B)							
Dimensions	Depth	111.	With 2 TORTEODOTAINTOA (IV) D)	and 1 TURYE0964AN40A (N/B)	With 2 TORTE 120 PARTON (IV/ B)	and 1 TURYE1204AN40A (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 in	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	sure switch at 4.15 MPa (601 psi)								
1 rotection bevices	Inverter Circuit (Compressor/F	an)		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)		1-1/8 Brazed	1-1/8 Brazed	1-3/8 Brazed	1-3/8 Brazed							
Indoor Unit Connectable	Total capacity			50~150% of out	door unit capacity								
macor omit connectable	Model / Quantity		P05~P96/1~48	P05~P96/2~50	P05~P96/2~50	P05~P96/2~50							
Guaranteed Operating					(-5~52°C)								
Range *1	Francisco Constitution			-13F~60°F (	[-25~15.5°C)								
Range *4	Extended Operating Range *4  Heating (Outdoor)			-25~60°F (-31.5~15.5°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							
	SCHE (Ducted/Non-Ducted)		23.0 / 28.0	22.7 / 26.9	22.9 / 26.8	22.3 / 25.7							

### 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.

- 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.
- 5. Efficiency ratings are based on AHRI 1230 test method

# TURYE\*\*(3/4)BN40AN

SPEC	IFICATIONS			MODEL NAMES		
		208V	TURYE2883BN40A (N/B)	TURYE3123BN40A (N/B)	TURYE3363BN40A (N/B)	
VOLTAGES		/230V	With 2 TURYE1443AN40A (N/B)	With 1 TURYE1683AN40A (N/B) and 1 TURYE1443AN40A (N/B)	With 2 TURYE1683AN40A (N/B)	
VOLIAGES			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)	
D C				3-phase 3-wire 208-230 V ±10% 60 Hz		
Power Source				3-phase 3-wire 460 V ±10% 60 Hz		
Consider (Manageral)	Cooling	Btu/h	288,000	312,000	336,000	
Capacity (Nominal)	Heating	Btu/h	323,000	350,000	378,000	
	MCA	A	Refer to:	Refer to:	Refer to:	
	MOP	A	With 2 TURYE1443AN40A (N/B)	With 1 TURYE1683AN40A (N/B) and 1 TURYE1443AN40A (N/B)	With 2 TURYE1683AN40A (N/B)	
Electrical Supply	SCCR	A	With 2 TURYE1444AN40A (N/B)	With 1 TURYE1684AN40A (N/B)	with 2 TURYE1684AN40A (N/B)	
	Recommended Fuse Size	A	Will 2 Total ETTT MAYOUT (14, B)	and 1 TURYE1444AN40A (N/B)	with 2 TORTETOO DEVIOR (17, D)	
	Type X Quantity					
Fan	Airflow Rate	CFM				
1 411	External Static Pressure	CITY				
Type X Quantity						
Compressor Operating Range		-	7.5% to 100%	7.5% to 100%	7.5% to 100%	
	Lubricant		Refer to:	Refer to:	Refer to:	
Refrigerant	Туре		With 2 TURYE1443AN40A (N/B)	With 1 TURYE1683AN40A (N/B)	With 2 TURYE1683AN40A (N/B)	
External Finish				and 1 TURYE1443AN40A (N/B)		
	Height					
Dimensions	Width	In.	With 2 TURYE1444AN40A (N/B)	With 1 TURYE1684AN40A (N/B)	with 2 TURYE1684AN40A (N/B)	
	Depth			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	
Protection Devices	High Pressure		High pres	sure sensor, High pressure switch at 4.15 MI	Pa (601 psi)	
Protection Devices	Inverter Circuit (Compressor/Fan)			Over-heat protection, Over-current protection	on	
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	In.		1-1/8 Brazed		
Reingerant Fipe Diniensions	Gas (Low Pressure) (Brazed)	111.	1-3/8 Brazed	1-5/8 Brazed	1-5/8 Brazed	
Indoor Unit Connectable	Total capacity			50~150% of outdoor unit capacity		
muoor omit connectable	Model / Quantity			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 (-31.5~15.5°C)		
	EER (Ducted/Non-Ducted)		10.9 / 11.5	10.7 / 10.9	10.5 / 10.3	
Efficiency Ratings *5	IEER (Ducted/Non-Ducted)		23.1 / 27.4	22.8 / 26.1	22.5 / 24.9	
·	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:  $80^{\circ}FD.B./67^{\circ}FW.B.$  (26.7°CD.B./19.4°CW.B.), Outdoor:  $95^{\circ}FD.B.$  (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.

- 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
- 5. Efficiency ratings are based on AHRI 1230 test method

# 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)			
Power Source				3-phase 3-wire 208-230 V ±10% 60 Hz				
Power Source				3-phase 3-wire 460 V ±10% 60 Hz				
Canacity (Naminal)	Cooling	Btu/h	72,000	96,000	120,000			
Capacity (Nominal)	Heating	Btu/h	80,000	108,000	135,000			
	MCA	A	23/21	31/29	40/37			
	WICA	Α	10	14	18			
	MOP	A	35/30	45/40	60/50			
Electrical Supply	WIGI	11	15	20	25			
	SCCR	A	5	5	5			
	Recommended Fuse Size	A	35/30	45/40	60/50			
			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			
	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			Pre-coated galvanized steel	sheet (+powder coating for -BS type) <mun< td=""><td>ISELL 3Y 7.8/1.1 or similar&gt;</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				
Net Weight		lbs.	512	622	633			
rect weight		103.	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			
Protection Devices	High Pressure		High press	ure sensor, High pressure switch at 4.15 MP	'a (601 psi)			
Troccion Devices	Inverter Circuit (Compressor/Fan)			Over-current protection				
Refrigerant Pipe 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)			
Reingerant Pipe Dimensions	Gas (Low Pressure) (Brazed)	In.	7/8 Brazed	7/8 Brazed	1-1/8 Brazed			
Indoor Unit Connectable	Total capacity			50-130% of outdoor unit capacity				
major omi connectable	Model / Quantity		P05~P72/1~15	P05~P96/1~20	P05~P96/1~26			
Guaranteed Operating Range *1	Cooling (Outdoor) *2			23~126°F (-5~52°C)				
camuniced operating name 1	Guaranteed Operating Range *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			

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:  $70^{\circ}$ FD.B. (21.1°CD.B.), Outdoor:  $47^{\circ}$ FD.B./ $43^{\circ}$ FW.B. (8.3°CD.B./6.1°CW.B.)

- 2. For details on extended cooling operation range down to -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.



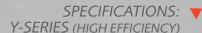
TUHYE**(3	3/4)AN40AN		A					
SPECIF	FICATIONS			MODEL NAMES				
VOLTAGES		208V /230V	TUHYE1443AN40A (N/B)	TUHYE1683AN40A (N/B)	TUHYE1923AN40A (N/B)			
VOLINGES		460V	TUHYE1444AN40A (N/B)	TUHYE1684AN40A (N/B)	TUHYE1924AN40A (N/B)			
D. C.				3-phase 3-wire 208-230 V ±10% 60 Hz				
Power Source				3-phase 3-wire 460 V ±10% 60 Hz				
Consiste (Naminal)	Cooling	Btu/h	144,000	168,000	192,000			
Capacity (Nominal)	Heating	Btu/h	160,000	188,000	215,000			
	MGA		47/44	56/51	68/62			
	MCA	A	21	25	31			
	MOD		70/70	90/80	110/100			
Electrical Supply	MOP	A	35	40	40			
	SCCR	A	5	5	5			
	D 115 C	,	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		Selectal	ble; 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			Pre-coated galvanized steel	sheet (+powder coating for -BS type) <mun< td=""><td>ISELL 3Y 7.8/1.1 or similar&gt;</td></mun<>	ISELL 3Y 7.8/1.1 or similar>			
	Height In.		71-5/8					
Dimensions			48-7/8	68-15/16	68-15/16			
	Depth		29-3/16					
Net Weight		lbs.	680	757	757			
Net Weight		103.	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			
Durkastian Davissa	High Pressure		High press	ure sensor, High pressure switch at 4.15 MF	Pa (601 psi)			
Protection Devices	Inverter Circuit (Compressor/Fan)			Over-current protection				
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	In.	1/2 Brazed	5/8 Brazed	5/8 Brazed			
Reingerant ripe Dimensions	Gas (Low Pressure) (Brazed)	111.	1-1/8 Brazed	1-1/8 Brazed	1-1/8 Brazed			
Total capacity				50~130% of outdoor unit capacity				
Indoor Unit 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)				
Guaranteed Operating Nange "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)		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:  $80^{\circ}FD.B./67^{\circ}FW.B.$  (26.7°CD.B./19.4°CW.B.), Outdoor:  $95^{\circ}FD.B.$  (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.)

- 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.
- $4. \ \ Unit will continue to operate in extended operating range, but capacity is not guaranteed.$
- 5. Efficiency ratings are based on AHRI 1230 test method



### TUHYE\*\*(3/4)BN40AN MODEL NAMES TUHYE1923BN40A (N/B) TUHYE2163BN40A (N/B) TUHYE2403BN40A (N/B) TUHYE2643BN40A (N/B) 208V /230V and 1 TUHYE0723AN40A (N/B) VOLTAGES TUHYE1924BN40A (N/B) TUHYE2164BN40A (N/B) TUHYE2404BN40A (N/B) TUHYE2644BN40A (N/B) With 1 TUHYE1204AN40A (N/B) 460V With 2 TUHYE0964AN40A (N/B) With 2 TUHYE0964AN40A (N/B) With 2 TUHYE1204AN40A (N/B) and 1 TUHYE0964AN40A (N/B) and 1 TUHYE0724AN40A (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 192,000 216,000 264,000 Capacity (Nominal) Heating Btu/h 216,000 243.000 270,000 296,000 Refer to: Refer to: Refer to: Refer to: MCA Α With 2 TUHYE0963AN40A (N/B) With 1 TUHYE1203AN40A (N/B) With 2 TUHYE1203AN40A (N/B) With 2 TUHYE0963AN40A (N/B) and 1 TUHYE0963AN40A (N/B) and 1 TUHYE0723AN40A (N/B) Electrical Supply MOP Α With 1 TUHYE1204AN40A (N/B) With 2 TUHYE0964AN40A (N/B) With 2 TUHYE1204AN40A (N/B) With 2 TUHYE0964AN40A (N/B) SCCR Α and 1 TUHYE0964AN40A (N/B) and 1 TUHYE0724AN40A (N/B) Recommended Fuse Size Α Type X Quantity Fan Airflow Rate CFM External Static Pressure Type X Quantity Operating Range 7.5% to 100% 7.5% to 100% 7.5% to 100% 5% to 100% Compressor Lubricant Refer to: Refer to Refer to: Refer to: Refrigerant Type With 2 TUHYE0963AN40A (N/B) With 1 TUHYE1203AN40A (N/B) With 2 TUHYE1203AN40A (N/B) With 2 TUHYE0963 AN40 A (N/B) and 1 TUHYE0963AN40A (N/B) and 1 TUHYE0723AN40A (N/B) External Finish Height With 2 TUHYE0964AN40A (N/B) With 1 TUHYE1204AN40A (N/B) With 2 TUHYE1204AN40A (N/B) With 2 TUHYE0964AN40A (N/B) Dimensions Width In. and 1 TUHYE0964AN40A (N/B) and 1 TUHYE0724AN40A (N/B) Depth lbs. Net Weight Sound Pressure Level (Measured in Anechoic Room) dB(A) 59.5/62.0 61.5/63.5 60.5/63.0 63.0/65.0 Sound Pressure Level (Measured in Anechoic Room) dB(A) 78.5/81.0 81.0/82.5 79.5/82.0 83.0/84.0 High Pressure High pressure sensor, High pressure switch at 4.15 MPa (601 psi) Protection Devices Inverter Circuit (Compressor/Fan) Over-current protection Liquid (High Refrigerant Pipe Dimensions 5/8 Brazed 5/8 Brazed 5/8 Brazed 3/4 Brazed Pressure) (Brazed) In. Gas (Low 1-1/8 Brazed 1-1/8 Brazed 1-1/8 Brazed 1-3/8 Brazed Pressure) (Brazed) Total capacity 50~130% of outdoor unit capacity Indoor Unit Connectable P05~P96/2~46 P05~P96/1~41 P05~P96/2~50 Model / Quantity P05~P96/2~50 Cooling (Outdoor) \*2 23~126°F (-5~52°C) Guaranteed Operating

13.0 / 14.3

25.3 / 32.6

3.75 / 4.11

### NOTES

Range \*1

Extended Operating Range \*4

Efficiency Ratings \*5

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.)

Heating (Outdoor) \*3

EER (Ducted/Non-Ducted)

IEER (Ducted/Non-Ducted)

COP (Ducted/Non-Ducted)

Heating (Outdoor)

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.

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.

-13F~60°F (-25~15.5°C)

-25~60°F (-31.5~15.5°C)

12.7 / 13.8

24.8 / 31.1

3.65 / 4.03

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.

12.3 / 12.5

24.2 / 27.7

3.54 / 3.73

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

12.7 / 13.4

24.6 / 30.0

3.72 / 3.94

# TUHYE\*\*(3/4)BN40AN

SPECIFICATIONS			MODEL NAMES						
		208V	TUHYE2883BN40A (N/B)	TUHYE3123BN40A (N/B)	TUHYE3363BN40A (N/B)	TUHYE3603BN40A (N/B)			
VOLTAGES			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)			
VOLIAGES			TUHYE2884BN40A (N/B)	TUHYE3124BN40A (N/B)	TUHYE3364BN40A (N/B)	TUHYE3604BN40A (N/B)			
460'			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)			
D 6			3-phase 3-wire 208-230 V ±10% 60 Hz						
Power Source			3-phase 3-wire 460 V ±10% 60 Hz						
Capacity (Nominal)	Cooling	Btu/h	288,000	312,000	336,000	360,000			
Capacity (Nonlinal)	Heating	Btu/h	323,000	350,000	378,000	405,000			
	MCA	A	Refer to: With TUHYE1203AN40A (N/B)	With 2 TUHYE1203AN40A (N/B)	Refer to: With 2 TUHYE1203AN40A (N/B)	Refer to: With 3 TUHYE1203AN40A (N/B)			
Electrical Supply	MOP	A	and TUHYE0963AN40A (N/B) and TUHYE0723AN40A (N/B)	and 1 TUHYE0723AN40A (N/B)	and 1 TUHYE0963AN40A (N/B)				
	SCCR	A	With TUHYE1204AN40A (N/B)	With 2 TUHYE1204AN40A (N/B)	With 2 TUHYE1204AN40A (N/B) and 1 TUHYE0964AN40A (N/B)	With 3 TUHYE1204AN40A (N/B)			
	Recommended Fuse Size	A	and TUHYE0964AN40A (N/B) and TUHYE0724AN40A (N/B)	and 1 TUHYE0724AN40A (N/B)					
	Type X Quantity		and rollicov 24AN40A (N/ b)						
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%			
D.C.	Lubricant		Refer to:		Refer to: With 2 TUHYE1203AN40A (N/B) and 1 TUHYE0963AN40A (N/B)	Refer to: With 3 TUHYE1203AN40A (N/B)			
Refrigerant External Finish	Type		With TUHYE1203AN40A (N/B) and TUHYE0963AN40A (N/B)						
External Philish	Height		and TUHYE0723AN40A (N/B)	and Trofffeov 25/fit fort (tt/ b)	and Trofff20305/fiviori(iv, B)				
Dimensions	Width	In.	With TUHYE1204AN40A (N/B) and TUHYE0964AN40A (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)			
Sincisions .	Depth								
Net Weight	1	lbs.	and TUHYE0724AN40A (N/B)						
Sound Pressure Level (Measured i	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 i	n Anechoic Room)	dB(A)	82.0/83.5	83.5/84.5	84.5/85.5				
D	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 Dimensions	Liquid (High Pressure) (Brazed)	In.	3/4 Brazed						
	Gas (Low Pressure) (Brazed)	111.	1-3/8 Brazed	1-3/8 Brazed	1-5/8 Brazed	1-5/8 Brazed			
Indoor Unit Cort-1-	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		-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)		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)	COP (Ducted/Non-Ducted)		3.58 / 3.78	3.58 / 3.68	3.51 / 3.65			

### 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:  $70^{\circ}$ FD.B. (21.1°CD.B.), Outdoor:  $47^{\circ}$ FD.B./ $43^{\circ}$ 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.

- 2. For details on extended cooling operation range down to -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
- 5. Efficiency ratings are based on AHRI 1230 test method

# TUHYE\*\*(3/4)BN40AN

SPECIFICATIONS			MODEL NAMES				
208V /230V VOLTAGES			TUHYE3843BN40A (N/B) TUHYE4083BN40A (N/B)		TUHYE4323BN40A (N/B)		
			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)		
Power Source			3-phase 3-wire 208-230 V ±10% 60 Hz				
Power Source			3-phase 3-wire 460 V ±10% 60 Hz				
Canacity (Naminal)	Cooling	Btu/h	384,000	408,000	432,000		
Capacity (Nominal)	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 TUHYE1203AN40A (N/B)	and 1 TUHYE1203AN40A (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						
Compressor	Operating Range		5% to 100%	5% to 100%	5% to 100%		
		-	Refer to: With 2 TUHYE1443AN40A (N/B)	Refer to: With 3 TUHYE1443AN40 (N/B)			
Refrigerant Type		With 1 TUHYE1443AN40A (N/B) and 2 TUHYE1203AN40A (N/B)	and 1 TUHYE1203AN40A (N/B)				
External Finish	Height						
Dimensions	Width	In.	With 1 TUHYE1444AN40A (N/B)	With 2 TUHYE1444AN40A (N/B) and 1 TUHYE1204AN40A (N/B)	With 3 TUHYE1444AN40A (N/B)		
Dimensions	Depth	- 111.	and 2 TUHYE1204AN40A (N/B)				
Net Weight	Бериі	lbs.					
_	Sound Pressure Level (Measured in Anechoic 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		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				
Protection Devices	Inverter Circuit (Compressor/Fan)		Over-current protection				
	Liquid (High Pressure) (Brazed)		3/4 Brazed				
Refrigerant Pipe Dimensions	Gas (Low Pressure) (Brazed)	In.	1-5/8 Brazed				
Indoor Unit Connectable Total capacity  Model / Quantity			50~130% of outdoor unit capacity				
			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:  $80^{\circ}FD.B./67^{\circ}FWB.$  (26.7°CD.B./19.4°CW.B.), Outdoor:  $95^{\circ}FD.B.$  (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.

- 2. For details on extended cooling operation range down to -10° F DB, see Low Ambient Kit Submittal.
- 3. When applying product below  $-4^\circ F_s$  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.
- 5. Efficiency ratings are based on AHRI 1230 test method



SPECIFICATIONS		MODEL NAMES							
		TCMBG0104SJ11N4	TCMBG0106SJ11N4	TCMBG0108SJ11N4	TCMBG1012SJ11N4	TCMBG1016SJ11N4			
Number of Branches		4	6	8	12	16			
	Power Source	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		
(208/23ÔV)	Heating	kW	0.030 / 0.039	0.046 / 0.059	0.061 / 0.078	0.091 / 0.118	0.122 / 0.157		
Current	Cooling	A	0.30 / 0.35	0.44 / 0.52	0.59 / 0.69	0.88 / 1.03	1.17 / 1.37		
(208/230V)	Heating	A	0.15 / 0.18	0.22 / 0.26	0.30 / 0.35	0.44 / 0.52	0.59 / 0.69		
External Finish		Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)							
	Height		9-7/8						
Dimensions	Width	In.	23-1/2	23-1/2	23-1/2	35-7/8	44-11/16		
Depth	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	10 Indoor Unit	Gas Pipe (In.)			5/8				
Connectable Outdoor/ Heat Source Unit Capacity		Btu/h	72,000 to 120,000 54,000						
Indoor unit Capacity Connectable to One Branch		2.5, 1.							
Drain Pipe		3/4 NPT							
Sound Power Level (Measured in		Rated Operation dB(A)	59						
Anechoic Room)	oic Room)	Defrost dB(A)	71						
Sound Pressure	Level (Measured in	Rated Operation dB(A)	<u> </u>		40				
Anechoic 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)

000000000000000000000000000000000000000			MODEL NAMES				
SPECIFICATIONS	TCMBM0108JA11N4	TCMBM1012JA11N4	TCMBM1016JA11N4	TCMBM1016KA11N4			
Number of Branches			8	12	16	16	
Power Source				208 / 230V, 1 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	A	0.66 / 0.77	0.95 / 0.11	1.25 / 1.45	1.25 / 1.45	
(208/230V)	Heating	A	0.37 / 0.43	0.52 / 0.60	0.66 / 0.77	0.66 / 0.77	
External Finish			Galvanized steel plate (Lower part drain pan: 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 Pipe Dimensions	To Indoor Unit	Liquid Pipe (In.)	3/8				
renigerant i pe Diniensions	10 midoor ome	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	Max. Connected Capacity to Sub BC Controllers			126,000			
Indoor unit Capacity Connectable to One Branch	Btu/h	54,000					
Drain Pipe		3/4 NPT					
Sound Power Level (Measured in Anechoic Room)		Rated Operation dB(A)	68		66		
		Defrost dB(A)	74			73	
Sound Pressure Level (Measured in Anechoic Room)		Rated Operation dB(A)	50		48		
		Defrost dB(A)		56		55	

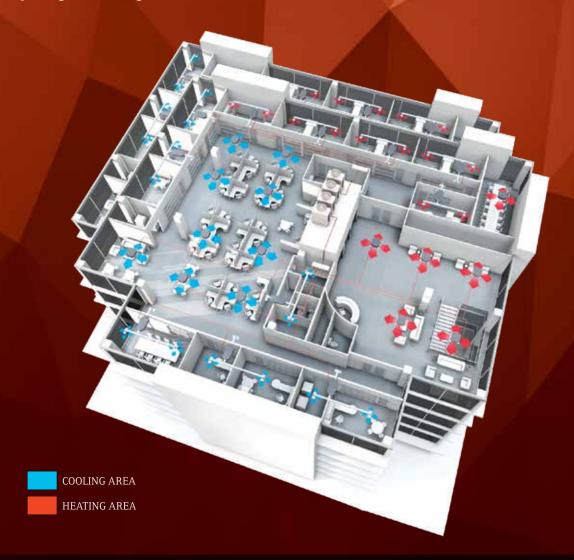
# TCMBS\*\*KB11N4 (Sub BC)

SPECIFICATIONS			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	A	0.30 / 0.35	0.59 / 0.69		
(208/230V)	Heating	A	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 Unit	Liquid Pipe (In.)	3/8			
	UIII	Gas Pipe (In.)	5/8			
Maximum Connectable Sub BC Controllers			11			
Max. Connected Capacity for All Branches		Btu/h	126,000			
Indoor unit Capacity Connectable to One Branch		btu/II	54,000			
Drain Pipe			3/4 NPT			
Sound Power Level (Measured in Anechoic Room)		Rated Operation dB(A)	59			
Sound Fower Lever (weasured in Amedicic robbin)		Defrost dB(A)	71			
Sound Pressure Level (Measured in Anechoic Room)		Rated Operation dB(A)	40			
		Defrost dB(A)	53			
				22		

### 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 Certified™ 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.