MITSUBISHI ELECTRIC
COOLING & HEATING

CITYMULTI®

PURY-HP**T/Y(S)KMU

PRODUCT GUIDE

H2i™ R2-SERIES VRF HEAT RECOVERY

Product Overview

The Hyper-Heating INVERTER (H2i) R2-Series simultaneously cools and heats different zones within a building to provide energy saving heat recovery operation. Our 2-pipe H2i R2-Series gives you the flexibility to fit the specific needs of any building and provides reliable cold-climate heating performance.

- Innovative flash injection technology for tremendous heating capacity at lower outdoor temperatures.
- Built-in base pan heater to prevent ice in drain pan (T models).
- 2-pipe, air-source, simultaneous cooling and heating.
- INVERTER-driven compressor.
- Connects to CITY MULTI® indoor units.
- Connectable capacity of 50% to 150%.
- Controlled via CITY MULTI® Controls Network.
- Provides up to 100% of rated heating capacity at 0° F outdoor ambient.
- Provides up to 85% heating capacity at -13° F outdoor ambient.

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PURY-HPT/Y(S)KMU** Outdoor Unit

Model Name		208/230V	PURY-HP72TKMU-A-H	PURY-HP96TKMU-A-H	PURY-HP144TSKMU-A-H *2 With 2 PURY-HP72YKMU-A *3	PURY-HP192TSKMU-A-H *2 With 2 PURY-HP96TKMU-A-H *3
		460V	PURY-HP72YKMU-A	PURY-HP96YKMU-A	PURY-HP144YSKMU-A *2 With 2 PURY-HP72YKMU-A *3	PURY-HP192YSKMU-A *2 With 2 PURY-HP96YKMU-A *3
Electrical Power Requirements	Voltage, Phase, Hertz		208 / 230V, 3-phase, 60Hz 460V, 3-phase, 60Hz			
Nominal Cooling	Capacity *1	Btu/h	72,000	96,000	144,000	192,000
	Power Input *3	kW	5.08	7.66	10.85	15.86
	Current *3	A	15.6 / 14.1 7	23.6 / 21.3 10.6	33.4 / 30.2 15.1	48.9 / 44.2 22.1
Nominal Heating	Capacity *1	Btu/h	80,000	108,000	160,000	215,000
	Power Input *3	kW	6.26	8.88	13.16	18.52
	Current *3	A	19.3 / 17.4 8.7	27.3 / 24.7 12.3	40.5 / 36.7 18.3	57.1 / 51.6 25.8
Electrical Supply	MCA	A	44 / 40 26	60 / 54 32	Refer to: PURY-HP72TKMU-A-H PURY-HP72YKMU-A	Refer to: PURY-HP72TKMU-A-H PURY-HP72YKMU-A
	Recommended Fuse/Breaker Size	A	50 30	65 35		
	Maximum Fuse Size	A	60 30	80 35		
Fan	Type x Quantity		Propeller Fan x 1			
	Airflow Rate	CFM	6,200			
Compressor	Operating Range	Cooling	30% to 100%	23% to 100%	15% to 100%;	12% to 100%;
		Heating	15% to 100%	13% to 100%	7% to 100%	6% to 100%
	Type x Quantity		Inverter-driven Scroll Hermetic x 1		Refer to: PURY-HP72TKMU-A-H PURY-HP72YKMU-A	Refer to: PURY-HP72TKMU-A-H PURY-HP72YKMU-A
	Lubricant		MEL32			
Refrigerant	Type		R410A			
External Finish			Pre-coated galvanized steel sheet			
Dimensions	Height	In.	64-31/32			
	Weight		48-1/16			
	Depth		29-5/32			
Net Weight		Lbs.	552 574	552 576		
Sound Pressure Levels		dB(A)	58		61	
Protection Devices	High-pressure		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit (COMP./FAN)		Over-current protection			
	Fan motor		Thermal switch			
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	In.	5/8	3/4	7/8	
	Gas (Low Pressure) (Brazed)		3/4	7/8	1-1/8	
Indoor Unit Connectable	Total Capacity		50 to 150% of Outdoor Unit Capacity			
	Model / Quantity *4		P06 to P96 / 1 to 18	P06 to P96 / 1 to 24	P06 ~ P96 / 1 to 36	P06 ~ P96 / 1 to 48
Operating Temperature Range	Cooling (Outdoor) **		23 ~ 115° F (-5 ~ +46° C) D.B.			
	Heating (Outdoor)		-13 ~ +60° F (-25 ~ +15.5° C) W.B.			
Efficiency Ratings	EER (Ducted/Non-Ducted) *5		12.9 / 13.0	11.4 / 12.5	12.5 / 12.6	11.1 / 12.1
	IEER (Ducted/Non-Ducted) *5		17.2 / 18.4	16.5 / 17.1	16.7 / 17.9	16.1 / 16.6
	COP (Ducted/Non-Ducted) *5		3.61 / 3.55	3.46 / 3.44	3.47 / 3.41	3.32 / 3.31
	SCHE *2 (Ducted/Non-Ducted) *5		22.7 / 22.6	17.4 / 22.0	22.1 / 22.0	16.9 / 21.4

Notes:

*1 Rating Conditions:
Cooling | Indoor: 80˚ F (27˚ C) D.B. / 67˚ F (19˚ C) W.B.; Outdoor: 95˚ F (35˚ C) D.B.
Heating | Indoor: 70˚ F (21˚ C) D.B.; Outdoor: 47˚ F (8˚ C) D.B. / 43˚ F (6˚ C) W.B.

*2 Twinning Kit is required for combining two individual outdoor units in the field for PURY-HP-T(Y)SKMU combined systems.

*3 Each individual outdoor unit requires a separate electrical connection. Refer to electrical data for each individual outdoor unit.

*4 Maximum connectable no. of branch pipes is 48.

*5 Efficiency values based on AHRI 1230 test method.

** Low Ambient Kit is required for extended ambient cooling operation range down to -10° F DB .

Notes: In systems with considerably long piping runs, the outdoor units may exhibit slightly louder than normal sound pressure levels when in heating mode.

The outdoor twinning kit (low pressure) should be connected to the low pressure side of the outdoor unit. If the connected units are different capacities, the outdoor twinning kit (low pressure) should be installed in the unit with the largest capacity.

Specifications are subject to change without notice.

LIMITED WARRANTY | Seven-year compressor and one year parts. See our website for details on specific additional application installation coverage.

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