Mitsubishi PUHY-EP72TNU/YNU-A1 NONDUCTED-VRF-OU,!- Name Mitsubishi PUHY-EP72TNU/YNU-A1 DUCTED-VRF-OU,!- Name Mitsubishi PUHY-EP72TNU/YNU-A1 NONDUCTED-HIGHHEAT-VRF-OU,!- Name Mitsubishi PUHY-EP72TNU/YNU-A1 DUCTED-HIGHHEAT-VRF-OU,!- Name



	Energy Modeling Assumptions and Comments	Applicable Field
1	Coefficient of Performance is calculated assuming either Ducted or Non-Ducted indoor units, as specified in the !- Name	I- Gross Rated Cooling COP {W/W}
2	Outdoor unit is installed in location above indoor units (this affects cooling operating outdoor temperature range). If the outdoor unit will be installed below the indoor units, adjust the fields: 1- Minimum Outdoor Temperature in Cooling Mode {C} = 0°C 1- Maximum Outdoor Temperature in Cooling Mode {C} = 43°C	I- Maximum Outdoor Temperature in Cooling Mode {C}
3	Standard performance mode: Dip switch toggle is off (it will not allow for high heating performance mode). For high heating performance, see !- Name with HIGHHEAT	I- Heating Capacity Ratio Modifier Function of Low Temperature Curve Name I- Heating Energy Input Ratio Modifier Function of Low Temperature Curve Name
4	EPLUS Default is 1: IT DOES NOT ACCOUNT FOR OPERATIONAL INEFFICIENCIES BELOW MINIUM PLR (COMPRESSOR CYCLING)! No information from Mitsubishi on this.	I- Cooling Part-Load Fraction Correlation Curve Name
5	EPLUS Default is 1: IT DOES NOT ACCOUNT FOR OPERATIONAL INEFFICIENCIES BELOW MINIUM PLR (COMPRESSOR CYCLING)! No information from Mitsubishi on this.	I- Heating Part-Load Fraction Correlation Curve Name
6	No waste heat recovery	!- Heat Pump Waste Heat Recovery
7	30 meters. Adjust this parameter to suit your project conditions	I- Equivalent Piping Length used for Piping Correction Factor in Cooling Mode {m}
8	10 meters: This is not used	I- Vertical Height used for Piping Correction Factor {m}
9	No published derate for height between IDU and ODU, used EPLUS default 0	!- Piping Correction Factor for Height in Cooling Mode Coefficient {1/m}
10	Mitsubishi docs do not indicate any crank case heater. There is an optional drain pan heater thoughthis is currently only for Evaporative condensers	I- Crankcase Heater Power per Compressor {W}
11	Mitsubishi docs do not indicate any dependence on indoor wetbulb temperature	!- Defrost Energy Input Ratio Modifier Function of Temperature Curve Name
12	Default (null value) for this field will use the weatherfile outdoor conditions. If condenser is located up high, another file may be necessary.	I- Condenser Inlet Node
13	No heat recovery for this model	- Minimum Outdoor Temperature in Heat Recovery Mode {C} - Maximum Outdoor Temperature in Heat Recovery Mode {C} - Heat Recovery Cooling Capacity Modifier Curve Name - Initial Heat Recovery Cooling Capacity Fraction {W/W} - Heat Recovery Cooling Energy Modifier Curve Name - Initial Heat Recovery Cooling Energy Fraction {W/W} - Heat Recovery Cooling Energy Fraction {W/W} - Heat Recovery Cooling Energy Time Constant {hr} - Heat Recovery Heating Capacity Modifier Curve Name - Initial Heat Recovery Heating Capacity Fraction {W/W} - Heat Recovery Heating Energy Modifier Curve Name - Initial Heat Recovery Heating Energy Modifier Curve Name - Heat Recovery Heating Energy Modifier Curve Name - Heat Recovery Heating Energy Modifier Curve Name - Heat Recovery Heating Energy Fraction {W/W} - Heat Recovery Heating Energy Fraction {W/W} - Heat Recovery Heating Energy Time Constant {hr}

CITY MULTI ® 6-TOI	YMULTI® 6-TON PUHY-EP72TNU-A1	
Job Name:		
System Reference:		Date:
08/230V OUTDOOR VRF HEAT PUMP SYSTEM	UNIT OPTION Standard Model	PUHY-EP72TNU-A
2222	ACCESSORIES Big Foot Stand	for details see Big Foot Stands submittal
	■ Header Kit	for details see Pipe Accessories Submitta
· (0000 ·	☐ Joint Kit	for details see Pipe Accessories Submitta
A.mer	Low Ambient Kit	for details see Low Ambient Kit Submitta
, and the second second	☐ Panel Heater Kit	for details see Panel Heater Kit Submitta
	Snow/Hail Guards Kit	for details see Snow/Hail Guards Kit Submitta

	Specifications	System	
	Unit Type		PUHY-EP72TNU-A1
Cooling Capacity (Nominal)		BTU/H	72,000
Heating Capacity (Nominal)		BTU/H	80,000
2	Cooling	°F [°C]	23~126 [-5.0~52.0]
Guaranteed Operating Range	Heating	°F [°C]	-13~60 [-25.0~15.5]
Extended Operating Range	Heating	°F [°C]	-27.4-60 [-33.0-15.5]
External Dimensions (H x W x D)		In. [mm]	71-5/8 x 36-1/4 x 29-3/16 [1,818 x 920 x 740]
Net Weight		Lbs. [kg]	512 [232]
External Finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) [MUNSELL 31 7.8/1.1 or similar]
Electrical Power Requirements	Voltage, Phase, Hertz, Powe	r Tolerance	208/230V, 3-phase, 60 Hz, ±10%
Minimum Circuit Ampacity		A	32.0/29.0
Maximum Overcurrent Protection		A	50/45
Recommended Fuse Size		A	35/30
Recommended Minimum Wire Size		AWG [mm]	8/10 [8.4/5.3]
SCCR		kA	5
Refrigerant Piping Diameter	Liquid (High Pressure)	In. [mm]	3/8 (9.52) Brazed
Reingerant Piping Diameter	Gas (Low Pressure)	In. [mm]	7/8 [22.2] Brazed
Max. Total Refrigerant Line Length		Ft.	3,280 [1,000]
Max. Refrigerant Line Length (Between ODU & ID	IU)	Ft.	541 [165]
Max. Control Wiring Length		Ft.	1,640 [500]
Indoor Unit Connectable	Total Capacity		50.0~130.0% of outdoor unit capacity
ndoor Unit Connectable	Model/Quantity		P04~P72/1.0~18.0
Sound Pressure Levels		dB(A)	55.0/57.0
Sound Power Levels		dB(A)	74.5/76.0
	Type x Quantity		Propeller fan x 1
	Fan Motor Output	kW	0.92
FAN!	Airflow Rate	CFM	6,000
	External Static Pressure	In. WG	Selectable; 0.00, 0.12, 0.24, 0.32, In. WG; factory set to 0 in. WG
Compressor Operating Range			15.0% to 100.0%

Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1
Refrigerant	Type x Original Charge	R410A x 14.0 lbs + 5.0 oz [6.5 kg]
tection Devices	High Pressure Protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
Protection Devices	Inverter Circuit (Comp./Fan)	Over-current protection
	EER	12.2/13.7
AHRI Ratings (Ducted/Non-ducted)	IEER	22.2/27.1
	COP	4.05/4.57

NOTES: Normal cooling conditions (Test conditions are based on AHRI 1230-2023) Indoor: 80°FD B.167°FWB. (28.7°CD B.1/8 47°CW S.), Outdoor: 95°FD B. (35°CD B.) Normal hashing conditions (Test conditions are based on AHRI 1230-2023) Indoor: 70°FD B. (21.1°CD B.), Outdoor: 47°FD B.43°FWB. (8.3°CD B/B.1°CW B.)

'Harsh weather environments may demand performance enhancing equipment. Ask your Mitsublish Electric representative for more details about your region "Fer details on extended cooling operation range dwan to 10" F.DB, see Low Ambient Kit Submittal "Ambien applying product below 4"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 are subject to change without notice.

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