Mitsubishi PUHY-EP120TNU/YNU-A1 NONDUCTED-VRF-OU,!- Name Mitsubishi PUHY-EP120TNU/YNU-A1 DUCTED-VRF-OU,!- Name Mitsubishi PUHY-EP120TNU/YNU-A1 NONDUCTED-HIGHHEAT-VRF-OU,!- Name Mitsubishi PUHY-EP120TNU/YNU-A1 DUCTED-HIGHHEAT-VRF-OU,!- Name



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

CITYMULTI® 10-TOI	N PUHY-EP120TNU-A1	MITSUBSH ELECTRO HEATNO & ARCONDITIONS
Job Name:		
System Reference:		Date:
208/230V OUTDOOR VRF HEAT PUMP SYSTEM	UNIT OPTION Standard Model	PUHY-EP120TNU-A
	ACCESSORIES	for details see Big Foot Stands submitta
		for details see Pipe Accessories Submitte
		for details see Pipe Accessories Submitt
Amer	Low Ambient Kit	for details see Low Ambient Kit Submitt
	_	
	■ Panel Heater Kit	for details see Panel Heater Kit Submit

Specifications			System
	Unit Type		PUHY-EP120TNU-A1
Cooling Capacity (Nominal)		BTU/H	120,000
Heating Capacity (Nominal)		BTU/H	135,000
Guaranteed Operating Range	Cooling	°F [°C]	23~126 [-5.0~52.0]
	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 48-7/8 x 29-3/16 [1,818 x 1,240 x 740]
Net Weight		Lbs. [kg]	633 [287]
External Finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) [MUNSELL 3Y 7.8/1.1 or similar]
Electrical Power Requirements	Voltage, Phase, Hertz, Pow	er Tolerance	208/230V, 3-phase, 60 Hz, ±10%
Minimum Circuit Ampacity		A	55.0/49.0
Maximum Overcurrent Protection		A	90/80
Recommended Fuse Size		A	60/50
Recommended Minimum Wire Size		AWG [mm]	4/6 [21.2/13.3]
SCCR		kA	5
Refrigerant Piping Diameter	Liquid (High Pressure)	In. [mm]	3/8 [9.52] Brazed (Pipe Size Dependent on Piping Length)
	Gas (Low Pressure)	In. [mm]	1-1/8 [28.58] Brazed
Max. Total Refrigerant Line Length		Ft.	3,280 [1,000]
Max. Refrigerant Line Length (Between ODU & IDU)		Ft.	541 [165]
Max. Control Wiring Length		Ft.	1,640 [500]
Indoor Unit Connectable	Total Capacity		50.0~130.0% of outdoor unit capacity
Indoor Unit Connectable	Model/Quantity		P04~P96/1.0~30.0
Sound Pressure Levels		dB(A)	59.5/61.5
Sound Power Levels		dB(A)	79.5/81.0
FAN'	Type x Quantity		Propeller fan x 2
	Fan Motor Output	kW	0.46+0.46
	Airflow Rate	CFM	7,750
	External Static Pressure	In. WG	Selectable; 0.90, 0.12, 0.24, 0.32, ln. WG; factory set to 0 ln. 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 21.0 lbs + 9.0 oz [9.8 kg]
Protection Devices	High Pressure Protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter Circuit (Comp./Fan)	Over-current protection
AHRI Ratings (Ducted/Non-ducted)	EER	10.7/10.9
	IEER	21.9/24.8
	COP	3.8/4.21

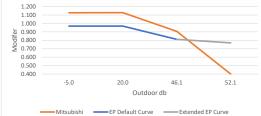
NOTES: NOTMORPHISM CONTROL OF THE CO

Hearth wealther anvisorments may demand performance enhancing equipment. Ask your Missubish Bedefor representative for more details about you or region.

For details on extended cooling operation range down to - (1)* F. DB, see Low Ambient Kri. Submittal "Privan applying product below "4". 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 exhanced operating range, but capacity is not guaranteed."

Specifications are subject to change without notice.





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