

Submittal Data: PUMY-P60NKMU4

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Air Source Heat Pump System

Job Name:			Location:					
			Submitted By:					
			Reference:					
				Date:	Арріо	Application:		
		provided for reference p		 Single-phase Out Inverter-driven V Uses CITY MULT Compatible with Optional base particular 	variable speed compru I indoor units and Coru M&P series Indoor U an heater (Part # liste	le refrigerant flow (VRF) zon essor ntrol Network Inits with Branch Box	ning technology	
Perforr	mance:							
Power s							1-phase 208/230 V, 60 H	Z
Indoor t						Non-Ducted	Mixed	Ducted
ing	Capacity Rated				Btu/h	60,000	60,000	60,000
Cooling	Rated power consumption ¹ Current input (208/230V)				W A	4,515 21.9/19.8	5,045 24.5/22.2	5,660 27.5/24.9
0	Capacity Rated				Btu/h	66,000	66,000	66,000
മ	Capacity Max.				Btu/h	65,000	65,000	65,000
Heating	Capacity Max.	5°F			Btu/h	46,500	46,500	46,500
He	Rated power co		°F ¹		W	4,720	5,160	5,690
	Current input (208/230V)				A	22.9/20.7 40 A - Wł	25.1/22.7 nen power is supplied sepa	27.7/25.0
Breaker size Minimum wire size						50 A - When power is supplied from the outdoor unit 8.4(8AWG) - When power is supplied separately 13.3(6AWG) - When power is supplied from the outdoor unit		
Indoor u	unit connectable		Total capacity		CITY MULTI	50 to 130% of outdoor unit capacity 04 - 72 /12		
			Model/Quantity ³		Branch box	06 - 36 / 8		
Sound p	ressure level (me	easured in anec			dB <a>	58/59		
Refriger	ant piping diame	ter	Liquid pipe		inch (mm)	3/8 (Ø9.52)		
-		Type x Quant	Gas pipe		inch (mm)	3/4 (ø19.05) Propeller fan × 2		
			be × Quantity			138		
Fan		Airflow rate			m³/min cfm	4,879		
		Control, Drivi	ng mechanism			DC control		
		Motor output			kW	0.200 × 2		
		Type × Quant				Scroll hermetic compressor x 1 Mitsubishi Electric Corporation		
Compre	ssor	Manufacture Starting meth				Inverter		
compre	5501	Motor output			kW	3.9		
		Lubricant				FVC68D 78oz. (2.3L)		
External	finish					Galvaniz	ed Steel Sheet < Munsell 3	-
External dimension HxWxD					mm	1,338 × 1,050 × 330 (+25) 52-11/16 × 41-11/32 × 13 (+1)		
High press		High pressure	protection		inch	High pressure switch		
Protection devices			it (COMP./FAN)			Overcurrent detection, Overheat detection (Heat sink thermistor)		
		Compressor protection				Compressor thermo, Overcurrent detection		
		Fan motor pro				Overheating/Voltage protection		
Refrigerant Type × or Control			original charge			R410A 11 lbs. 4 oz. (5.1kg) Linear Expansion Valve		
Net weight				lb (kg) 300 (136)				
Heat exchanger					- \ 3/	Cross fin and tube		
HIC circuit (HIC: Heat Inter-Changer)						HIC circuit		
Operating Temperature Range				(Cooling) (Heating)		D.B 23 to 115°F [D.B5 to 46°C] ^{4, 5, 6} D.B13 to 70°F [D.B25 to 21°C]		
					ER2	D.E 13.3	11.95	10.6
AHRI Ratings				SEER2		20	18.5	17
Non-Ducted/ Mixed/ Ducted			HSPF2 (Region IV / V)		10.5 / 8.65	9.75 / 8.05	9.00 / 7.45	
Outdoor : Heating Ind Outdoor : 2 Conditio Outdoor : 3 It cannot 4 D.B. 5 to However, 5 50 to 11 6 When th 7 For - 40°	: D.B. $95^{\circ}F$ [D.B. $35.0^{\circ}C$ door : D.B. $70^{\circ}F$ [D.B. $34.3^{\circ}F$] D.B. $47^{\circ}F/W.B. 43^{\circ}F [D.B.D.B. 17^{\circ}F/W.B. 43^{\circ}F]to be connected mixedb 115^{\circ}F [D.B. -15 to 46this condition does no5^{\circ}F (10 to 46^{\circ}C) D.B.: 1the temperature is belcC cooling ONLY operation$	C] 3. 21.1°C] D.B. 8.3°C/W.B. 6.1' door : D.B. 70°F [I D.B8.3°C/W.B9. CITY MULTI indoor °C], when an option ot apply to the indo When connecting PI w D.B. 50°F [D.B. 11 tion a low ambient I	D.B. 21.1°C] 4°C] unit and branch box in al Air Outlet Guide is in or units listed in #5. KFY-P04/06/08/12NLM0 0°C] with branch box sy kit is required along wit	door unit. stalled. U, PFFY-P06/08/12NE stem, noise could pot h a front wind deflect	tentially occur. tor. Heating operation is			
8 For Low-	Ambient Cooling oper	ation, dip switch SV	V 3 #1 must be switche	d to the ON position i	n the indoor unit to disa	ble heating mode.		
4 D.B. 5 to However, 5 50 to 11 6 When th 7 For - 40°(8 For Low-/	0 115°F [D.B15 to 46 this condition does no 5°F (10 to 46°C) D.B.: 1 ne temperature is belo C cooling ONLY operat Ambient Cooling oper	°C], when an option ot apply to the indo When connecting PH ww D.B. 50°F [D.B. 16 tion a low ambient H ation, dip switch SV	al Air Outlet Guide is ir or units listed in #5. KFY-P04/06/08/12NLM 0°C] with branch box sy kit is required along wit	stalled. U, PFFY-P06/08/12NE stem, noise could pot h a front wind deflect d to the ON position i	tentially occur. tor. Heating operation is	not permitted.		



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Heating and Cooling

Piping		
Liquid Pipe Size O.D. (Flared)	In.[mm]	3/8 [9.52]
Gas Pipe Size O.D. (Flared)	In.[mm]	3/4 [19.05]
Total Piping Length when using Branch Box	Ft. [m]	492 [150]
Total Piping Length without Branch Box	Ft. [m]	492 [150]
Maximum Height Difference ^{*A} , ODU above IDU	Ft. [m]	164 [50]
Maximum Height Difference ^{*A} , ODU below IDU	Ft. [m]	131 [40]
Maximum Height Difference ^{*A} , between branch boxes	Ft. [m]	49 [15]
Maximum Height Difference between IDU and IDU withoutbranch box	Ft. [m]	49 [15]
Maximum Piping Length between ODU and Branch Box	Ft. [m]	180 [55]
Farthest Piping Length from ODU to IDU with Branch Box	Ft. [m]	262 [80]
Farthest Piping Length from ODU to IDU without Branch Box	Ft. [m]	262 [80]
Farthest Piping Length after Branch Box	Ft. [m]	82 [25]
Total Piping Length between Branch Boxes and IDU	Ft. [m]	311 [95]
Maximum Number of Bends for IDU	Ft. [m]	15
A Branch box should be placed within the level between the outdoor unit and indoor units.	· · · ·	

otional Accessories	Description	Model No.	
	3 Port Branch Box	РАС-МКА32ВС	
Branch Box	3 Port Branch Box	РАС-МКАЗЗВС	
Branch Box	5 Port Branch Box	PAC-MKA52BC	
	5 Port Branch Box	PAC-MKA53BC	
Branch Joint	T-Branch	CMY-Y62-G-E	
Header	4 Branch	CMY-Y64-G-E	
Tieddel	8 Branch	CMY-Y68-G-E	
Centralized Drain Pan	Central Drain Pan	PAC-SH97DP-E	
Control/Service Tool	Maintenance Tool Interface	PAC-USCMS-MN-1	
Distribution pipe	Brazed Connection	MSDD-50BR-E	
Distribution pipe	Flare Connection	MSDD-50AR-E	
Drain Socket	Drain Socket	PAC-SG60DS-E	
Optional Defrost Heater	Optional Defrost Heater	PAC-SJ20BH-E	
	Adaptor: 1/2" x 3/8"	MAC-A455JP-E	
Port Adapter	Adaptor: 1/2" x 5/8"	MAC-A456JP-E	
Port Adapter	Adaptor: 3/8" x 1/2"	MAC-A454JP-E	
	Adaptor: 3/8" x 5/8"	PAC-SG76RJ-E	
Snow/Wind Guard	Front	CM-S-FR-NKMU (two pieces are required)	
Snow/Wind Guard	Rear	SG-1-RE	
Snow/Wind Guard	Side	SG-1-SD	
Snow/Wind Guard	Blocker	CM-S-BLK-NKMU	

Note: Mitsubishi Electric (MESCA) supports the use of only MESCA supplied and approved Snow Guard / Wind Deflectors / Windscreens and accessories for proper functioning of the unit(s). Use of non-MESCA supported Snow Guard / Wind Deflectors / Windscreens and accessories will affect warranty coverage.

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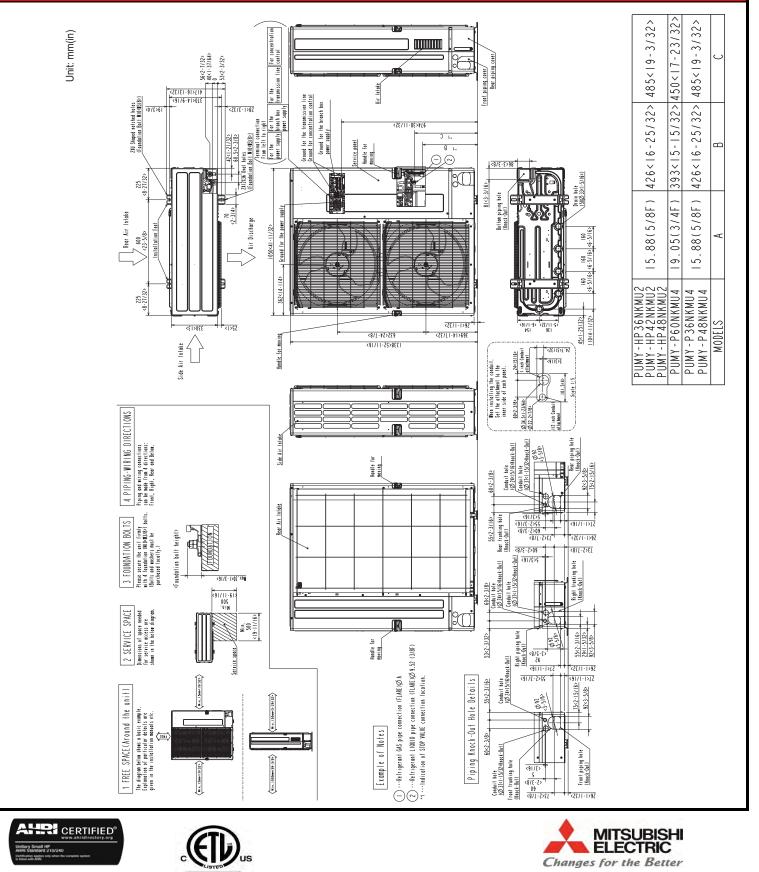
All electrical work shall comply with National (CEC) and local codes and regulations.

Notes:



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Outdoor Unit Outline and Dimensions:



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Specifications are subject to change without notice.

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