

Submittal Data: PUMY-HP42NKMU2

Air Source Heat Pump System

Job Name: Location										
Purchaser: Submitted					/:					
Submitted To: Reference:						Approval: Construction:				
Engineer: Date:						Application:				
	7	es provided for reference	purposes only	 Inverter-driven v Uses CITY MULTI 	ariable speed compre indoor units and Cor M&P series Indoor U	le refrigerant flow (VRF) zoni essor trol Network	ng technology			
Perform	ance:									
Power su	pply					1-phase 208/230 V, 60 Hz				
Indoor type					Non-Ducted Mixed Ducted					
Cooling	Capacity Rated ¹				Btu/h	42,000	42,000	42,000		
loo	Rated power consumption ¹ Current input (208/230V)				W A	3,135 15.3/13.8	3,500 17.1/15.4	3,965		
0	Current input (208/230V) Capacity Rated 47°F ¹				A Btu/h	48,000	48,000	<u>19.4/17.5</u> 48,000		
ള	Capacity Nated 47 F				Btu/h	48,000	48,000	48,000		
Heating	Capacity Max.				Btu/h	44,000	44,000	44,000		
Не		onsumption 47°	F ¹		W	3,435	3,805	4,265		
	Current input (208/230V)				А	16.8/15.2	18.6/16.8	20.8/18.8		
Breaker S	Size					40 A - When power is supplied separately				
	-					45 A - When power is supplied from the outdoor unit 8.4(8AWG) - When power is supplied separately				
Minimum	n wire size									
			Total capacity			13.3(6AWG) - When power is supplied from the outdoor unit 50 to 130% of outdoor unit capacity				
Indoor ur	nit connectable		· · · ·	-	CITY MULTI	04 - 54/12				
			Model/Quantity	3	Branch box	06 - 36/5				
Sound pressure level (measured in ane			echoic room)		dB <a>	50/54				
Dofrigoro	nt nining diama	tor	Liquid pipe		inch (mm)	3/8 (ø9.52)				
Reingera	nt piping diame	eter	Gas pipe		inch (mm)	5/8 (ø15.88)				
	Type × Quantity			m³/min	Propeller fan × 2					
_		Airflow rate	Airflow rate			110				
Fan					cfm	3,885				
	Control, Driving mechanism				1.3.47	DC control 0.074 × 2				
	Motor output			kW	0.074 × 2 Scroll hermetic compressor x 1					
	Type × Quantity Manufacture					Mitsubishi Electric Corporation				
Compress	sor	Starting method				Inverter				
		Motor output			kW	2.9				
		Lubricant				FV50S 78oz. (2.3L)				
External	finish						d Steel Sheet <munsell 3y<="" td=""><td>7.8/1.1></td></munsell>	7.8/1.1>		
External o	dimension Hx	WxD				1,338 × 1,050 × 330 (+25)				
					inch	52-11/16 × 41-11/32 × 13 (+1)				
		High pressure				High pressure switch Overcurrent detection, Overheat detection (Heat sink thermistor)				
Protectio	n devices	Inverter circuit (COMP./FAN) Compressor protection				Compressor thermo, Overcurrent detection				
		Fan motor protection				Overheating/Voltage protection				
Dofriger						R410A 10 lbs. 9 oz. (4.8kg)				
Refrigerant		Control				Linear Expansion Valve				
Net weight					lb (kg)	278 (126)				
Heat exch	<u> </u>					Cross fin and tube				
HIC circuit (HIC: Heat Inter-Changer)					oling	HIC circuit				
Operating Temperature Range					ating	D.B 23 to 115°F [D.B5 to 46°C] ^{4, 5, 6} D.B13 to 70°F [D.B25 to 21°C]				
PUMY-HP42NKN		MU2		Non-ducted	Ducted (Mid-static)	Mixed (Mid-static)	Ducted (High-static)	Mixed (High-static)		
	Energy Ratin	g	EER2	13.4	10.6	12	10.6	12		
Non-ducted / Mixed (Mid-sta			SEER2 HSPF (Region IV)	21.5 11.1	18 10	19.75 10.55	16.2 9.1	18.85 10.1		
	Mix (High static) / Du	cted (High static)	HSPF (Region V)	9.8	8.8	9.3	8.8	9.3		
OTES:						PUMY-HP42NKMU2	Capacity (Btu/hr)	СОР		
-	nditions Cooling II D.B. 95°F [D.B. 35.0°		N.B. 67 °F [D.B.26.7°C/	w.B. 19.4°C]		NEEP	-25°C / -13°F	-25°C / -13°F		
	oor : D.B. 70°F [D.	-				Non-ducted	37,800	1.4		
Dutdoor : D	0.B. 47°F/W.B. 43°F	D.B. 8.3°C/W.B. 6.1°	-			Mixed	37,800	1.44		
2 Condition		idoor : D.B. 70°F [D				Ducted	37,800	1.4		
		[D.B8.3°C/W.B9.4 CITY MULTI indoor ι	4°C] unit and branch box in	door unit		Succu	37,000	±.,		
4 D.B. 5 to 1 However, th	115°F [D.B15 to 46 his condition does n	°C], when an optiona ot apply to the indoc	al Air Outlet Guide is in or units listed in #5.	stalled.	MU, and PFFY-P06/08/1	2NRMU type indoor unit.				
		-	°C] with branch box sy							
			he indoor units specifi							



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Heating and Cooling

Piping				
iquid Pipe Size O.D. (Flared)		In.[mm]	3/8 [9.52]	
Gas Pipe Size O.D. (Flared)		In.[mm]	5/8 [15.88]	
otal Piping Length when using Branch Box		Ft. [m]	492 [150]	
otal Piping Length without Branch Box		Ft. [m]	984 [300]	
/laximum Height Difference ^{*A} , ODU above IDU		Ft. [m]	164 [50]	
/laximum Height Difference ^{*A} , ODU below IDU		Ft. [m]	131 [40]	
/laximum Height Difference ^{*A} , between branch boxe		Ft. [m]	49 [15]	
laximum Height Difference between IDU and IDU wi		Ft. [m]	49 [15]	
laximum Piping Length between ODU and Branch Bo		Ft. [m]	180 [55]	
arthest Piping Length from ODU to IDU with Branch		Ft. [m]	262 [80]	
arthest Piping Length from ODU to IDU without Brar	nch Box	Ft. [m]	492 [150]	
arthest Piping Length after Branch Box		Ft. [m]	82 [25]	
otal Piping Length between Branch Boxes and IDU		Ft. [m]	311 [95]	
Aaximum Number of Bends for IDU		Ft. [m]	15	
A Branch box should be placed within the level between the outdoor unit and indo The outdoor unit is lower: 131ft [40m] or less (98ft [30,] or less if PKFY-P04/06/0	8/12NLMU, PFFY-P06/08/12NEMU, and PFF	,		
Optional Accessories	D	escription	Model No.	
		rt Branch Box	PAC-MKA32BC	
Dread b Davi	3 Po	rt Branch Box	PAC-MKA33BC	
Branch Box	5 Po	rt Branch Box	PAC-MKA52BC	
	5 Po	rt Branch Box	PAC-MKA53BC	
Branch Joint		T-Branch	CMY-Y62-G-E	
		4 Branch	CMY-Y64-G-E	
Header		8 Branch	CMY-Y68-G-E	
Centralized Drain Pan		ral Drain Pan	PAC-SH97DP-E	
Control/Service Tool		ince Tool Interface	PAC-USCMS-MN-1	
control/service rool		ed Connection	MSDD-50BR-E	
Distribution pipe		e Connection	MSDD-50BR-E MSDD-50AR-E	
Drain Socket		rain Socket	PAC-SG60DS-E	
Brain Socket		cor: 1/2" x 3/8"	MAC-A455JP-E	
		or: 1/2" x 5/8"	MAC-A455JF-E	
Port Adapter		cor: 3/8" x 1/2"	MAC-A450F-E MAC-A454JP-E	
		or: 3/8" x 5/8"	PAC-SG76RJ-E	
Snow/Wind Guard	Audpt	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	
			1	

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.

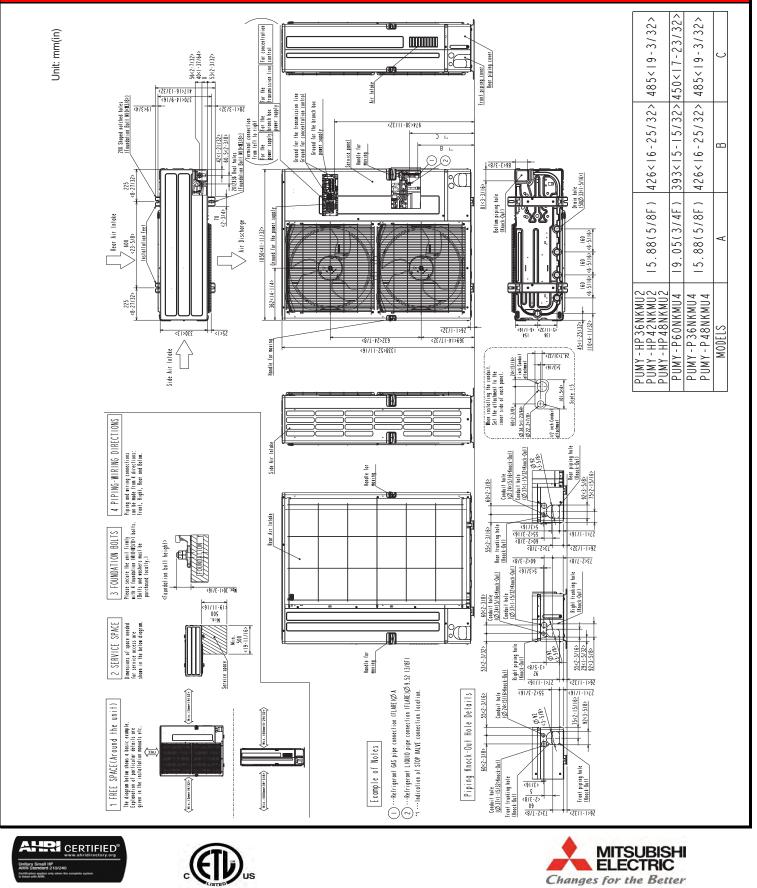
"Should this document be altered or changed without MESCA's permission, it becomes null and void. MESCA assumes no responsibility for any consequences in such cases" All electrical work shall comply with National (CEC) and local codes and regulations.

Notes:



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Outdoor Unit Outline and Dimensions:



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Intertek

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Specifications are subject to change without notice. Form No. SB_PUMY-HP42NKMU2_202404