	MITSUB ELECTR	SISHI RIC		Submit	tal Data: P	PUMY-HP42NKI	MU2		
Heating and Cooling				Air Source Heat Pump System					
Job Na	ame:			Location:					
Purcha	aser:			Submitted By:					
Submi	itted To:			Reference: Approval: Construction:					
Engine	eer:			Date:	ate: Application:				
	Imag	ges provided for reference pi		• Inverter-driven va • Uses CITY MULTI	variable speed compo I indoor units and Co I M&P series Indoor I		ing technology		
Perforr	mance:								
Power s							1-phase 208/230 V, 60 Hz		
Indoor to		. 1			2: //	Non-Ducted	Mixed	Ducted	
Cooling	Capacity Rate				Btu/h	42,000	42,000	42,000	
8	Rated power of Current input	2008/230\/)			W A	3,135 15.3/13.8	3,500 17.1/15.4	3,965 19.4/17.5	
	Capacity Rate	ed 47°F 1			Btu/h	48,000	48,000	48,000	
ng	Capacity Max.	. 17°F ²			Btu/h	48,000	48,000	48,000	
Heating	Capacity Max.	. 5°F			Btu/h	44,000	44,000	44,000	
Ĭ		consumption 47°F	.1		W	3,435	3,805	4,265	
	Current input	(208/230V)			А	16.8/15.2 40 A - Who	18.6/16.8 en power is supplied separa	20.8/18.8 ately	
Breaker	size							•	
Minimu	m wire size						wer is supplied from the out - When power is supplied se en power is supplied from tl		
			Total capacity				130% of outdoor unit capa		
Indoor ເ	unit connectable		Model/Quantity	3	CITY MULTI		04 - 54/12		
مرامن د					Branch box		06 - 36/5		
Souna p	ressure level (m	neasured in anech			dB <a>		50/54		
Refriger	rant piping diam	eter	Liquid pipe Gas pipe		inch (mm) inch (mm)	+	3/8 (ø9.52) 5/8 (ø15.88)		
		Type × Quantity			IIICII (IIIIII)		Propeller fan × 2		
		Airflow rate	1		m³/min	110			
Fan					cfm	3,885			
İ		Control, Driving	g mechanism			DC control			
		Motor output			kW	0.074 × 2 Scroll hermetic compressor x 1			
		Type × Quantity Manufacture	<u>y</u>			Mitsubishi Electric Corporation			
Compres	essor	Starting metho	od .			Inverter			
		Motor output			kW	2.9			
		Lubricant	Lubricant			FV50S 78oz. (2.3L)			
External	finish					7.8/ 1.1>			
External	l dimension H	nension HxWxD mm 1,338 × 1,050 × 330 (+25)				1			
<u> </u>		High pressure p	orotection		inch	52-11/16 × 41-11/32 × 13 (+1) High pressure switch			
						Overcurrent detection, Overheat detection (Heat sink thermistor)			
Protection	ion devices	Les Inverter circuit (COMP./FAN) Overcurrent detection, Overheat detection (Heat s Compressor protection Compressor thermo, Overcurrent detection							
	Fan motor protection					erheating/Voltage protection	n		
Refriger	ant	Type × original	charge				R410A 10 lbs. 9 oz. (4.8kg)		
Net weig	ght	Control			lb (kg)	Linear Expansion Valve 278 (126)			
Heat exc					10 (18)	+	Cross fin and tube		
	uit (HIC: Heat Int	ter-Changer)				<u> </u>	HIC circuit		
	ng Temperature Range (Cooling) D.B 23 to 115°F [D.B5 to 46°C] 4,5,1 (Heating) D.B13 to 70°F [D.B25 to 21°C]				4, 5, 6 C]				
AHRI Rat	tings				ER2	13.4	12	10.6	
	on-Ducted/ Mixed/ Ducted		ŀ	SEER2 HSPF2 (Region IV / V)		21.5	19.75	18	
NOTES:							10.0 / 8.80		
	onditions Cooling I	Cooling Indoor : D.B. 80°F/W.B. 67 °F [D.B.26.7°C/W.B. 19.4°C]					COP		
	: D.B. 95°F [D.B. 35.0°	-					-25°C / -13°F	-25°C / -13°F	
-	door : D.B. 70°F [D. : D.B. 47°F/W.B. 43°F).B. 21.1°C] : [D.B. 8.3°C/W.B. 6.1°C	า			Ductless	37,800	1.4	
2 Conditio		ndoor : D.B. 70°F [D.I	-			Mixed	37,800	1.44	
	D.B. 17°F/W.B. 15°F	[D.B8.3°C/W.B9.4°	°C]			Ducted	37,800	1.4	
4 D.B. 5 to However,	o 115°F [D.B15 to 46 this condition does r	d CITY MULTI indoor ur 6°C], when an optional not apply to the indoor	l Air Outlet Guide is ins r units listed in #5.	stalled.					
		: When connecting PKF low D.B. 50°F [D.B. 10°(12NRMU type indoor unit.			
o wilch th	ic temperature is bei			tem, noise could pote	sitially occur.				

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Submittal Data: PUMY-HP42NKMU2

Piping			
Liquid Pipe Size O.D. (Flared)	In.[mm]	3/8 [9.52]	
Gas Pipe Size O.D. (Flared)	In.[mm]	5/8 [15.88]	
Total Piping Length when using Branch Box	Ft. [m]	492 [150]	
Total Piping Length without Branch Box	Ft. [m]	984 [300]	
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]	492 [150]	
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.

The outdoor unit is lower: 131ft [40m] or less (98ft [30,] or less if PKFY-P04/06/08/12NLMU, PFFY-P06/08/12NEMU, and PFFY-P06/08/12NRMU are included.)

l Accessories	Description	Model No.	
Branch Box	3 Port Branch Box	PAC-MKA32BC	
	3 Port Branch Box	PAC-MKA33BC	
	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	
neadel	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 sinc	Brazed Connection	MSDD-50BR-E	
Distribution pipe	Flare Connection	MSDD-50AR-E	
Drain Socket	Drain Socket	PAC-SG60DS-E	
	Adaptor: 1/2" x 3/8"	MAC-A455JP-E	
Dort Adoptor	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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Notes: