	MITSUBISHI
	ELECTRIC
Hantin	a and Caalina

Submittal Data: PUMY-HP36NKMU2

Air Source Heat Pump System

Job Name:	Location:
Purchaser:	Submitted By:

Images provided for reference purposes only

Submitted To: Reference: Approval: Construction:

Engineer: Date: Application:

- Single-phase Outdoor unit with variable refrigerant flow (VRF) zoning technology • Inverter-driven variable speed compressor
- Uses CITY MULTI indoor units and Control Network
- Compatible with M&P series Indoor Units with Branch Box
- Base pan heater included

-	Imag	es provided for reference	purposes only					
Performa	ance:							
Power sup	oply					1	-phase 208/230 V, 60 Hz	
Indoor typ	ре					Non-Ducted	Mixed	Ducted
Cooling	Capacity Rate	d ¹			Btu/h	36,000	36,000	36,000
ije l	Rated power of	consumption 1			W	2,400	2,670	3,000
S	Current input				Α	11.7/10.6	13.0/11.8	14.6/13.2
	Capacity Rate	d 47°F 1			Btu/h	42,000	42,000	42,000
<u></u>	Capacity Max.				Btu/h	42.000	42,000	42.000
	Capacity Max.				Btu/h	38,500	38,500	38,500
He		consumption 47°	'F ¹		W	3,080	3.285	3,520
	Current input	(208/230V)	•		A	15.0/13.6	16.0/14.5	17.2/15.5
		(===,===;					nen power is supplied sep	
Breaker Si	ize					45 A - When power is supplied from the outdoor unit		
						8.4(8AWG) -	When power is supplied	separately
Minimum	wire size					13.3(6AWG) - When power is supplied from the outdoor unit		
			Total capacity			50 to 130% of outdoor unit capacity		
Indoor un	it connectable		Model/Quantity ³		CITY MULTI	04 - 36/11		
					Branch box	06 - 36/4		
Sound pre	essure level (m	easured in anec	hoic room)		dB <a>	49/53		
	,		Liquid pipe		inch (mm)		3/8 (ø9.52)	
Refrigerar	nt piping diam	eter	Gas pipe		inch (mm)	5/8 (ø15.88)		
		Type × Quanti			men (mm)	Propeller fan × 2		
			,		m³/min	110		
Fan		Airflow rate	ing mochanism		cfm	3,885		
ıaıı		Control, Drivir			CIIII	DC control		
		Motor output			kW	0.074 × 2		
		Type × Quanti			KVV	Scroll hermetic compressor x 1		
		Manufacture	ty .			Mitsubishi Electric Corporation		
Compress	or	Starting meth	od				Inverter	ווע
compress	.01	Motor output	<u>Ju</u>		kW	2.8		
·			KVV		FV50S 78oz. (2.3L)			
Lubricant External finish				Galvanized Steel Sheet <munsell 1.1="" 3y="" 7.8=""></munsell>				
LXLEITIAI I	1111311					1,338 × 1,050 × 330 (+25)		
External dimension HxWxD				mm inch	1,538 × 1,050 × 330 (+25) 52-11/16 × 41-11/32 × 13 (+1)			
High procesure protection			inch	High pressure switch		<u> </u>		
		High pressure protection				Overcurrent detection, Overheat detection (Heat sink thermistor)		
Protection devices		Inverter circuit (COMP./FAN) Compressor protection				Compressor thermo, Overcurrent detection		
			•					
Fan motor pr						Overheating/Voltage protection R410A 10 lbs. 9 oz. (4.8kg)		
Refrigerar	nt	Type × origina	charge				Linear Expansion Valve	
Control			II- /I\					
Net weigh					lb (kg)		278 (126) Cross fin and tube	
Heat exchanger HIC circuit (HIC: Heat Inter-Changer)								
nic circuit	t (nic: neat in	ter-Changer)	T		alina	D D 22	HIC circuit	4, 5, 6
Operating Temperature Range Coolin				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-HP36NK	- MH2	1	Non-ducted	eating Ducted (Mid-static)	D.B Mixed (Mid-static)		
		IVIUZ	EER2	15	12	13.5	Ducted (High-static) 11.3	Mixed (High-static) 13.15
Efficiency		atial / Dougland (NA)	SEER2	23	18.5	20.75	15.6	19.3
Man door		Non-ducted / Mixed (Mid-static) / Ducted (Mid- static) / Mix (High static) / Ducted (High static)						
		,,	HSPF (Region IV) HSPF (Region V)	12 10.65	11 9.8	11.5 10.2	9.9 8.8	10.95 9.7

NOTES:

1 Rating conditions Cooling Indoor : D.B. 80°F/W.B. 67 °F [D.B.26.7°C/W.B. 19.4°C]

Outdoor : D.B. 95°F [D.B. 35.0°C] Heating Indoor : D.B. 70°F [D.B. 21.1°C]

Outdoor: D.B. 47°F/W.B. 43°F [D.B. 8.3°C/W.B. 6.1°C] 2 Conditions Heating Indoor : D.B. 70°F [D.B. 21.1°C] Outdoor: D.B. 17°F/W.B. 15°F [D.B. -8.3°C/W.B. -9.4°C]

3 It cannot be connected mixed CITY MULTI indoor unit and branch box indoor unit.

4 D.B. 5 to 115°F [D.B. -15 to 46°C], when an optional Air Outlet Guide is installed.

However, this condition does not apply to the indoor units listed in #5.

5 50 to 115°F (10 to 46°C) D.B.: When connecting PKFY-P04/06/08/12NLMU, PFFY-P06/08/12NEMU, and PFFY-P06/08/12NRMU type indoor unit.

6 When the temperature is below D.B. 50°F [D.B. 10°C] with branch box system, noise could potentially occur.

Note: Refer to the indoor unit's service manual for the indoor units specification.

PUMY-HP36NKMU2

Capacity (Btu/hr)

COP



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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.)

al Accessories	Description	Model No.
	3 Port Branch Box	PAC-MKA32BC
	3 Port Branch Box	PAC-MKA33BC
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
Headel	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 pins	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
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.

"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.

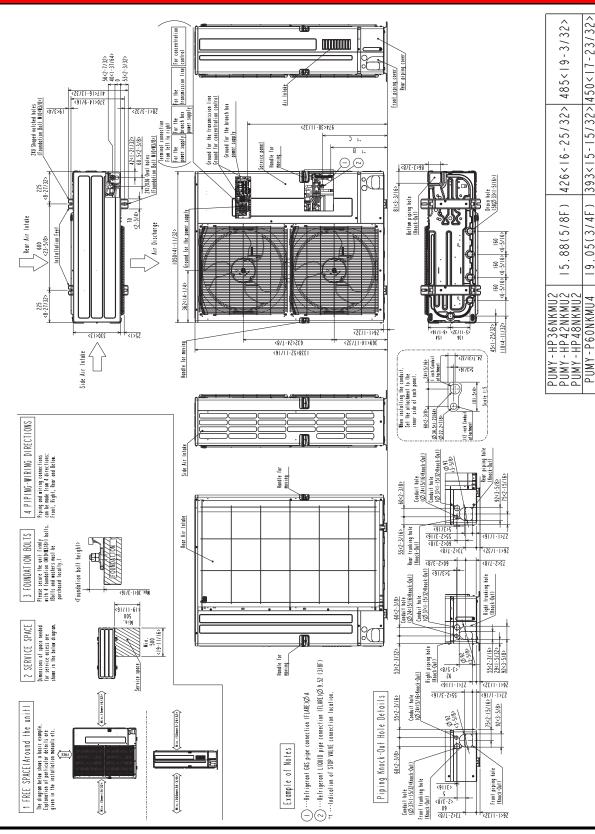
Notes:

Specifications are subject to change without notice.



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Outdoor Unit Outline and Dimensions:





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485<19-3/32>

426<16-25/32>

88(5/8F)

15.

PUMY-P36NKMU4 PUMY-P48NKMU4

MODELS