MITSUBISHI ELECTRIC Heating and Cooling

Submittal Data: PUMY-P36NKMU4

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
- Optional base pan heater (Part # listed below)
- Low ambient cooling down to -40 C available as an option ^{7,8}

Р	er	toı	rm	an	ce:	

Power su	wer supply				1-phase 208/230 V, 60 Hz			
Indoor ty					Non-Ducted Mixed Ducted			
υg	Capacity Rate	ed ¹		Btu/h	36,000	36,000	36,000	
olii	Rated power consumption ¹			W	2,400	2,670	3,000	
Capacity Rated ¹ Rated power consumption Current input (208/230V				Α	11.7/10.6	13.0/11.8	14.6/13.2	
Capacity Rate				Btu/h	41,000	41,000	41,000	
g _L	Capacity Max			Btu/h	36,000	36,000	36,000	
Heating	Capacity Max			Btu/h	29,000	29,000	29,000	
He	Rated power	consumption 47°F 1		Ŵ	3,005	3,205	3,435	
	Current input			Α	14.7/13.3	15.6/14.1	16.8/15.2	
Breaker :	· · ·	,			30 A - When power is supplied separately 40 A - When power is supplied from the outdoor unit			
breaker :	size							
Minimun	n wire size				5.3(10AWG) - When power is supplied separately			
IVIIIIIIIIIII	II WII E 312E				8.4(8AWG) - Whe	en power is supplied from	the outdoor unit	
		Total capacity			50 to	acity		
Indoor unit connectable		e Model/Quantity	3	CITY MULTI		04 - 36/11		
				Branch box	06 - 36/4			
Sound pr	ressure level (n	neasured in anechoic room)		dB <a>		49/53		
Dofrigora	ant piping diam	Liquid pipe		inch (mm)		3/8 (ø9.52)		
Keirigera	ant bibing diam	Gas pipe		inch (mm)	5/8 (ø15.88)			
		Type × Quantity			Propeller fan × 2			
		Airflow rate		m³/min	110			
Fan		Airilow rate		cfm	3,885			
		Control, Driving mechanism			DC control			
		Motor output		kW		0.074 × 2		
		Type × Quantity			Scroll hermetic compressor x 1			
		Manufacture			Mitsubishi Electric Corporation		on	
Compressor	ssor	Starting method			Inverter			
Motor output Lubricant		Motor output		kW	2.8			
					FV50S 78oz. (2.3L)			
External	finish				Galvanize	d Steel Sheet <munsell 3y<="" td=""><td>7.8/ 1.1></td></munsell>	7.8/ 1.1>	
Evtornal	dimension H	lvWvD		mm	1,338 × 1,050 × 330 (+25)			
External	ulliletision n	IXVVXD		inch	52-11/16 × 41-11/32 × 13 (+1)			
		High pressure protection				High pressure switch		
Drotoctic	on devices	Inverter circuit (COMP./FAN)	. ,		Overcurrent detection, Overheat detection (Heat sink thermistor)			
Protectio	on devices	Compressor protection			Compressor thermo, Overcurrent detection			
		Fan motor protection			Overheating/Voltage protection			
Refrigera	nt	Type × original charge		R410A 10 lbs. 9 oz. (4.8kg)				
nemgera	3111	Control				Linear Expansion Valve		
Net weig	ht			lb (kg)		271 (123)		
Heat exc						Cross fin and tube		
HIC circu	it (HIC: Heat In	ter-Changer)				HIC circuit		
Onoratio	g Temperature	Pango	(Coo	ling)	D.B 23 to 115°F [D.B5 to 46°C] 4, 5, 6] 4, 5, 6	
operatin	ig reinberature	: vanke	(Heating)		D.B13 to 70°F [D.B25 to 21°C]			

NOTES:

AHRI Ratings

Non-Ducted/ Mixed/ Ducted

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]

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.

7 For - 40°C cooling ONLY operation a low ambient kit is required along with a front wind deflector. Heating operation is not permitted.

8 For Low-Ambient Cooling operation, dip switch SW 3 #1 must be switched to the ON position in the indoor unit to disable heating mode.

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

15

23

11.0 / 8.75

EER2

SEER2

HSPF2 (Region IV / V)

13.5

20.75

10.5 / 8.75

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12

18.5

10.0 / 8.80



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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.)

3 Port Branch Box 3 Port Branch Box 5 Port Branch Box 5 Port Branch Box T-Branch 4 Branch	PAC-MKA32BC PAC-MKA33BC PAC-MKA52BC PAC-MKA53BC CMY-Y62-G-E
3 Port Branch Box 5 Port Branch Box 5 Port Branch Box T-Branch	PAC-MKA33BC PAC-MKA52BC PAC-MKA53BC
5 Port Branch Box 5 Port Branch Box T-Branch	PAC-MKA52BC PAC-MKA53BC
5 Port Branch Box T-Branch	PAC-MKA53BC
T-Branch	
	CMY-Y62-G-E
4 Branch	
+ Didneii	CMY-Y64-G-E
8 Branch	CMY-Y68-G-E
Central Drain Pan	PAC-SH97DP-E
Maintenance Tool Interface	PAC-USCMS-MN-1
Brazed Connection	MSDD-50BR-E
Flare Connection	MSDD-50AR-E
Drain Socket	PAC-SG60DS-E
Optional Defrost Heater	PAC-SJ20BH-E
Adaptor: 1/2" x 3/8"	MAC-A455JP-E
Adaptor: 1/2" x 5/8"	MAC-A456JP-E
Adaptor: 3/8" x 1/2"	MAC-A454JP-E
Adaptor: 3/8" x 5/8"	PAC-SG76RJ-E
Front	CM-S-FR-NKMU (two pieces are required
Rear	SG-1-RE
Side	SG-1-SD
Blocker	CM-S-BLK-NKMU
	Maintenance Tool Interface Brazed Connection Flare Connection Drain Socket Optional Defrost Heater Adaptor: 1/2" x 3/8" Adaptor: 1/2" x 5/8" Adaptor: 3/8" x 1/2" Adaptor: 3/8" x 5/8" Front Rear Side

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:

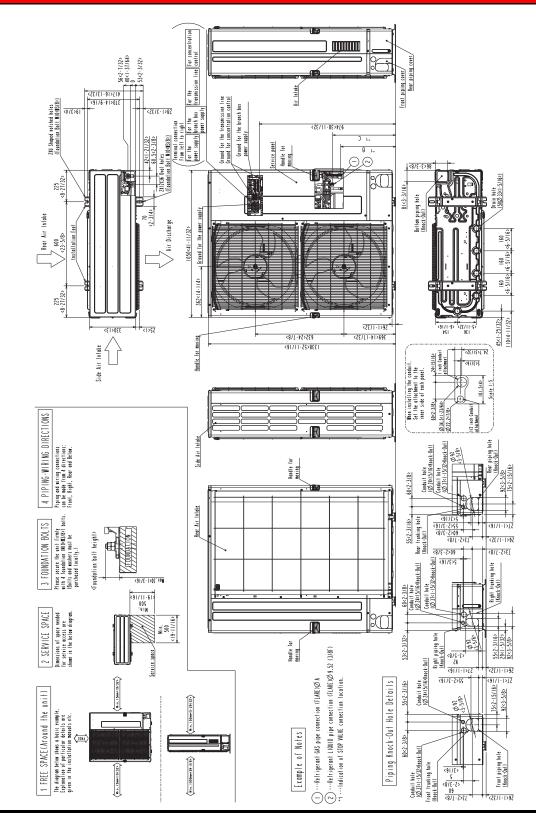
Form No. SB_PUMY-P36NKMU4_202402a



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Outdoor Unit Outline and Dimensions

Unit: mm(in)









485<19-3/32> 450<17-23/32

426<16-25/32>

88(5/8F 05(3/4F 8F

5. о О 5.

PUMY - HP36NKMU2 PUMY - HP42NKMU2 PUMY - HP48NKMU2

393<15-15/32>

19-3/32>

485<1

32>

426<16-25/

88(5/8

PUMY-P36NKMU4 PUMY-P48NKMU4 PUMY-P60NKMU4

MODFLS