He	MITSUBI ELECTR ating and Coc	IC The second se	Submit		PUMY-HP48NKN leat Pump System	/IU2		
Job Na	ime:		Location:					
Job Name: Purchaser:			Submitted By:					
			Reference: Approval: Construction:					
			Date: Application:					
Liigiiie	:ст.		Date.		Application.			
	Image	es provided for reference purposes only	• Inverter-driven v • Uses CITY MULTI	ariable speed comp indoor units and Co M&P series Indoor		g technology		
Perforr	mance:							
Power s					1	-phase 208/230 V, 60 Hz		
Indoor t					Non-Ducted	Mixed	Ducted	
Cooling	Capacity Rate			Btu/h	48,000	48,000	48,000	
003	Rated power co			W	3,665	4,070	4,575 22.3/20.2	
0	Capacity Rate			A Btu/h	17.9/16.2 54,000	19.9/18.0 54,000	54,000	
96	Capacity Max.			Btu/h	54,000	54,000	54,000	
Heating	Capacity Max.	5°F		Btu/h	47,000	47,000	47,000	
Ψ̈́		onsumption 47°F 1		W	3,960	4,400	4,950	
	Current input ((208/230V)		Α	19.3/17.5	21.5/19.4 n power is supplied separa	24.2/21.8	
Breaker	size					rer is supplied from the out	•	
					8.4(8AWG) - When power is supplied	separately	
Minimu	m wire size				· ·	hen power is supplied from		
		Total capacity			50 to 1	130% of outdoor unit capac	ity	
Indoor u	ınit connectable	Model/Quantity 3 CITY MULTI 04 - 54/12 Pronch box 06 - 36/8						
م اممیدی	rassura laval /m	Branch box 00 - 30/8			•			
		Liquid pino		dB <a> inch (mm)		51/54 3/8 (ø9.52)		
Refriger	ant piping diame	Gas pipe		inch (mm)		5/8 (ø15.88)		
		Type × Quantity		,		Propeller fan × 2		
		Airflow rate		m³/min		110		
Fan		Control Driving machanism		cfm		3,885 DC control		
		Control, Driving mechanism Motor output			0.074 × 2			
		Type × Quantity		KVV	Scroll hermetic compressor x 1			
		Manufacture	Mitsubishi Electric Corporation Inverter					
Compre	ssor	Starting method						
		Motor output Lubricant		kW	3.4			
External	finish	Lubricant			Galvanized	FV50S 78oz. (2.3L) Steel Sheet <munsell 3y="" 7.<="" td=""><td>8/11></td></munsell>	8/11>	
	mm 1 338 x 1			.,338 × 1,050 × 330 (+25)	•			
External	dimension Hx	(WXD		inch	52-	11/16 × 41-11/32 × 13 (+1)		
		High pressure protection				High pressure switch		
Protection devices Inverter circuit (COMP./FAN)				·	,			
		Compressor protection Fan motor protection	FAN) Overcurrent detection, Overheat detection (Heat sink thermistor) Compressor thermo, Overcurrent detection Overheating/Voltage protection					
D - C :	1			410A 10 lbs. 9 oz. (4.8kg)	•			
Refriger		Control				Linear Expansion Valve		
Net wei				, ,				
Heat exc		or Changer)				Cross fin and tube		
	uit (HIC: Heat Int		(Co.	oling)	D D 22	HIC circuit to 115°F [D.B5 to 46°C]	1, 5, 6	
Operati	ng Temperature	Range		ating)		13 to 70°F [D.B25 to 21°C	:1	
AHRI Ra	tings		•	ER2	13.1	11.8	10.5	
	ungs cted/ Mixed/ Du	rted		ER2	23	19.5 16		
NOTES:	cccu, wiineu, Dui		HSPF2 (I	Region IV/V)	11.5 / 9.80	10.5 / 9.05	9.50 / 8.30	
1 Rating c	onditions Cooling Ir	ndoor : D.B. 80°F/W.B. 67 °F [D.B.26.7°C/ C]	W.B. 19.4°C]		PUMY-HP48NKMU2	Capacity (Btuh) -25°C / -13°F	COP -25°C / -13°F	
Heating In	door : D.B. 70°F [D.I	F [D.B. 21.1°C] Ductless 42,600 1.5				1.5		
Outdoor: D.B. 47°F/W.B. 43°F [D.B. 8.3°C/W.B. 6.1°C] 2 Conditions					Mixed	42,600	1.44	
		ldoor : D.B. 70°F [D.B. 21.1°C] [D.B8.3°C/W.B9.4°C]			Ducted	42,600	1.4	
3 It canno	t be connected mixed	CITY MULTI indoor unit and branch box in						
		°C], when an optional Air Outlet Guide is in	stalled.					
-		ot apply to the indoor units listed in #5. When connecting PKFY-P04/06/08/12NLM	U, PFFY-P06/08/12NE	MU, and PFFY-P06/08/	12NRMU type indoor unit.			
6 When th	e temperature is belo	ow D.B. 50°F [D.B. 10°C] with branch box sy	stem, noise could pote		**			
Note: Refe	r to the indoor unit's	service manual for the indoor units specific	cation.					

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Submittal Data: PUMY-HP48NKMU2

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.	
ļ	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	
rieduci	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 since	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	
ļ	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: