	MITSUB	ISHI RIC		Submit	tal Data: P	PUMY-HP42NKI	MU2		
Не	eating and Co	oling			Air Source H	leat Pump System			
Job Na	ame:			Location:					
Purcha	aser:			Submitted By	y:				
Submi	itted To:			Reference: [Appro	oval: Const	truction:		
Engine	eer:			Date:		Application:			
	Imag	ges provided for reference p		• Inverter-driven v • Uses CITY MULTI	variable speed compi I indoor units and Co n M&P series Indoor U		ing technology		
7 7	mance:								
Power su							1-phase 208/230 V, 60 Hz		
Indoor to		. 1			T D±/b	Non-Ducted	Mixed	Ducted 42,000	
Cooling	Capacity Rate Rated power of				Btu/h W	42,000 3,135	42,000 3,500	42,000 3,965	
8	Current input	(208/230V)			A	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	
ing	Capacity Max.	. 17°F ²			Btu/h	48,000	48,000	48,000	
Heating	Capacity Max.				Btu/h	44,000	44,000	44,000	
Ĭ		consumption 47°F	<u>F</u> 1		W	3,435	3,805	4,265	
<u> </u>	Current input	(208/23UV)			А	16.8/15.2 40 A - Wh	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 ບ	unit connectable	<u> </u>	Model/Quantity	3	CITY MULTI		04 - 54/12		
<u> </u>					Branch box		06 - 36/5		
Sound p	ressure level (m	neasured in anech	· '		dB <a>		50/54		
Refriger	rant piping diame	eter	Liquid pipe		inch (mm)		3/8 (ø9.52) 5/8 (ø15.88)		
		Type × Quantit	Gas pipe		inch (mm)	+	5/8 (Ø15.88) Propeller fan × 2		
		, ·	у		m³/min	+	110		
Fan		Airflow rate		!	cfm	<u></u>	3,885		
		Control, Driving	g mechanism			1	DC control		
		Motor output			kW		0.074 × 2		
		Type × Quantit	,у				roll hermetic compressor x		
Compres	scor	Manufacture Starting metho	'		<u>n</u>				
Compres	5501	Motor output	u		kW	2.9			
		Lubricant				-	FV50S 78oz. (2.3L)		
External	l finish					Galvanize	ed Steel Sheet <munsell 3y="" 7<="" td=""><td>7.8/ 1.1></td></munsell>	7.8/ 1.1>	
Externa!	l dimension H	xWxD			mm		1,338 × 1,050 × 330 (+25)	•	
			tostion		inch	52	52-11/16 × 41-11/32 × 13 (+1)		
İ		High pressure properties of the control of the cont	•			Overcurrent detecti	High pressure switch ion, Overheat detection (He	at sink thermistor)	
Protection	ion devices	Compressor pr					ssor thermo, Overcurrent de		
		Fan motor prot	tection				erheating/Voltage protection		
Refrigera	ant	Type × original	charge			Ţ	R410A 10 lbs. 9 oz. (4.8kg)		
		Control			II. /I:a\	<u> </u>	Linear Expansion Valve		
Net weig Heat exc					lb (kg)	+	278 (126) Cross fin and tube		
	uit (HIC: Heat Int	ter-Changer)				+	HIC circuit		
	ng Temperature		-		ooling) eating)		D.B 23 to 115°F [D.B5 to 46°C] ^{4, 5, 6} D.B13 to 70°F [D.B25 to 21°C]		
∧⊔DI Ra	+ings				ER2	13.4	12	10.6	
AHRI Rat	cted/ Mixed/ Du	···	SEER2 21.5 19.75		18				
	Cteu/ Iviixeu/ Du	ıcteu		HSPF2 ((Region IV / V)	11.1 / 9.80	10.55 / 9.30	10.0 / 8.80	
_	conditions Cooling I		V.B. 67 °F [D.B.26.7°C/V	N.B. 19.4°C]		PUMY-HP42NKMU2	Capacity (Btuh) -25°C / -13°F	COP -25°C / -13°F	
	: D.B. 95 F [D.B. 35.0 idoor : D.B. 70°F [D.	-				Ductless	37,800	1.4	
Outdoor: D.B. 47°F/W.B. 43°F [D.B. 8.3°C/W.B. 6.1°C]					Mixed	37,800	1.44		
2 Conditio	_	ndoor : D.B. 70°F [D.	-			Ducted	37,800	1.4	
		[D.B8.3°C/W.B9.4° d CITY MULTI indoor u	°C] Init and branch box ind	loor unit.		<u> </u>	0.,		
4 D.B. 5 to However,	o 115°F [D.B15 to 46 this condition does n	6°C], when an optional not apply to the indoor	I Air Outlet Guide is ins r units listed in #5.	stalled.	` postop i				
		_	FY-P04/06/08/12NLMU °C] with branch box sys			12NRMU type indoor unit.			
		-	a indees wells and ifie		,				

Form No. SB_PUMY-HP42NKMU2_202403



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
\$4. Seconds have described by a board of St.C. about a condition on the condition of St. and St. decompts.		

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.	
	3 Port Branch Box	PAC-MKA32BC	
Branch Box	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	
rieadei	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	
	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	
Dart 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: