MITSUBISHI ELECTRIC
Heating and Cooling

Submittal Data: PAA-A18(A)(B)A1-M

18,000 BTU/H Multi Position A-Coil For MXZ Multi-Zone Heat Pump System

Job Name:	Location:	
Purchaser:	Submitted By:	
Submitted To:	Reference: ☐ Approval: ☐ Construction: ☐	
Engineer:	Date:	Application:

PAA-A18AA1-M ☐

PAA-A18BA1-M ☐

Optional Controller

Images provided for reference purposes only

Indoor Standard Features:	**Description:**
Economic Balance Point	Allows the customer to choose the outdoor ambient temperature to switch from heat pump to furnace
Capacity Balance Point	Allows the customer to determine the length of time (24 to 29 minutes) the heat pump will attempt to heat the space before switching to furnace (as an auxiliary heat source)
Emergency Mode	The system will operate in furnace mode when in error
Auto Restart Function	Auto-recovery after power failure (must be activated on controller mode #1 set to 2)

Electrical:

Power Supply		208/230V, 1Ph, 60Hz
Voltage: Indoor - Outdoor, S1-S2	V AC	AC 208/230V
Voltage: Indoor - Outdoor, S2-S3	V DC	10-24VDC
Short-circuit Current Rating (SCCR)	kA	5
Recommended Fuse/Breaker Size (Outdoor)	A	NA
Recommended Wire Size (Indoor - Outdoor)	AWG	14

"Note:
(1) To be installed by a trained and licensed refrigeration mechanic;
(2) Suitable for installation with an ANSI certified gas furnace (Z21.47/CSA2.3);
(3) Not suitable for installation with OIL or DRUM type furnaces;
(4) Supply air temperature must not exceed 200°F (93.3 °C);
(5) Furnace output capacity shall not be greater than 300% of the rated PAA cooling capacity;
(6) Configure furnace fan such at the airflow is greater than or equal to 350 CFM per ton and less than or equal to 400 CFM per ton of nominal PAA unit cooling capacity. In down flow orientation, the furnace fan should be configured to maintain an airflow face velocity below 350 ft/min to prevent water blow-off;
(7) For detailed requirements, review PAA Installation Manual at: http://www.mitsubishitechinfo.ca/

Note:
1. Mitsubishi Electric Sales Canada Inc. (MESCA) supports the use of only MESCA supplied and approved components and accessories for proper functioning of the unit(s). Use of non - MESCA supported components and accessories will affect warranty coverage. MESCA recommends (A) consideration of all applicable design and application parameters and requirements specific to any project.
2. Should any person change this document in any manner whatsoever without MESCA's written permission, the document shall be of no force and effect and any change shall be deemed to be a representation and warranty made by that person and not MESCA. That person, and not MESCA, shall assume full responsibility for the consequences of such changes. MESCA assumes no responsibility for any consequences in such cases.

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Performance:

Cooling at 95°F*1	Rated Capacity	Btu/h	18,000
	Capacity Range	Btu/h	9,600 - 18,000
	Rated Power Input	W	1440
	Power Input Range	W	540 - 1,440
	Moisture Removal	pints/h	3.7
	Sensible Heat Factor		0.77
Heating at 47°F*2	Rated Capacity	Btu/h	19,000
	Capacity Range	Btu/h	11,900 - 22,400
	Rated Power Input	W	1740
	Power Input Range	W	740 - 1,740

Indoor Unit Specifications:

Models	Airflow rate*	W: In.	D: In.	H: In.	W: mm	D: mm	H: mm	kg (lbs)
PAA-A18AA1-M	525	14.5	21.3	26.4	368	543	670	21 (47)
PAA-A18BA1-M	525	17.5	21.3	26.4	445	543	670	24 (54)

* Target airflow rate for Y or Y1 signal

Not including connection pipes.

Internal static pressure	in. WG	0.3 (According to AHRI - 210/240, where this is the maximum allowable internal static pressure for "Coil Only" systems)
	[Pa]	75 (According to AHRI - 210/240, where this is the maximum allowable internal static pressure for "Coil Only" systems)

MCA	A	0.2
Drain Pipe Size	In. (mm)	3/4 (19.05)
External Finish Color		Galvanized Steel
Gas Pipe Size O.D. (Flared)	In. (mm)	5/8 (15.88)
Liquid Pipe Size O.D. (Flared)	In. (mm)	3/8 (9.52)

Description: (Optional Controls)		Model No.
Wired wall mounted remote control	☐	PAR-40MAAU
Wireless wall mounted remote control	☐	MHK2
North American T-Stat Interface	☐	RMF-CA100

Indoor Unit Dimensions:

Model	A mm (inches)	B mm (inches)	C mm (inches)	D mm (inches)	E mm (inches)
PAA-A18AA1	368.3 (14-1/2)	313.1 (12-5/16)	332.7 (13-1/16)	670.2 (26-3/8)	543 (21-3/8)
PAA-A18BA1	445.0 (17-1/2)	390 (15-5/16)	409.6 (16-1/8)	670.2 (26-3/8)	543 (21-3/8)

AHRI Rated Conditions (Rated data is determined at a fixed compressor speed)
1Cooling (Indoor // Outdoor) 80°F (26.6°C) DB, 67°F (19.4°C) WB // 95°F (35°C) DB, 75°F (23.9°C) WB
2Heating at 47°F (8.3°C) (Indoor // Outdoor) 70°F (21.1°C) DB, 60°F (15.6°C) WB // 47°F (8.3°C) DB, 43°F (6.1°C) WB

For data on specific Indoor units (all ducted, all non-ducted, and both ducted and non-ducted) combinations, see MXZ Technical and Service Manuals.
Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.

A) CFM @ 350 per tons.

Indoor Unit Outline and Dimensions: