

# PAC-IF013B-E R410A

## Air Handling Unit Controller

Mr.SLIM™

The Air Handling Unit Controller can interface Mitsubishi Electric Mr Slim outdoor units to third party air handling units.

Up to six Mr Slim outdoor units can be used on a single air handling unit providing a wide range of heating and cooling capacities.



### Key Features & Benefits:

- Simpler installation with Mr Slim being a single source of heating and cooling BEMS external monitoring and control can be achieved through direct Modbus, digital switches or analogue input
- Intelligent Multiple Outdoor Unit Control (IMOUC) of up to six Mr Slim outdoor units when operated in external manual control, this can include two different capacities or a series of Mr Slim outdoor units
- Anti-cycling measures incorporated into the design to extend the life of the outdoor units
- Capacity control of up to 11 individual steps ensures high comfort levels
- SD card installed to record history and facilitate software upgrades
- Maximum airflow of up to 5 x standard Mr Slim specification
- Complete AHU systems incorporating this pre-installed controller are also available



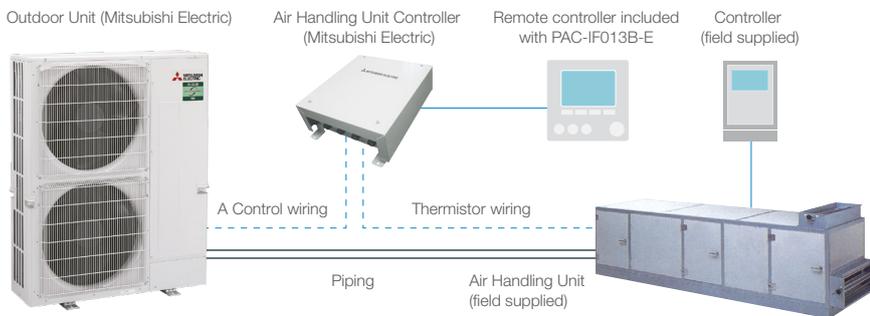


CONTROLLER		PAC-IF013B-E
DIMENSIONS (mm)	Width x Depth x Height	336 x 69 x 278
WEIGHT (kg)		2.5
CONTROL OPTIONS	Automatic	Remote Controller Set
	Manual Input	
		Modbus
		0-10V
		1-5V
		4-20mA
		0-10kΩ

OUTDOOR UNIT(S)		PUHZ-ZRP 35VKA	PUHZ-ZRP 50VKA	PUHZ-ZRP 60VHA	PUHZ-ZRP 71VHA	PUHZ-ZRP 100VKA2/YKA2	PUHZ-ZRP 125VKA2/YKA2	PUHZ-ZRP 140VKA2/YKA2	PUHZ-ZRP 200VKA	PUHZ-ZRP 250VKA	PHZ-P 200YKA	PUHZ-P 250YKA
CAPACITY (kW)	Heating (nominal)	4.1	6	7	8	11.2	14	16	22.4	27	22.4	27
	Cooling (nominal)	3.5	5	6	7.1	10	12.5	14	20	25	20	25
WEIGHT (kg)		43	46	70	67	116 / 123	116 / 125	118 / 131	135	135	127	135
DIMENSIONS (mm)	Width x Depth x Height	809 x 300 x 630	809 x 300 x 630	950 x 330+30 x 943	950 x 330+30 x 943	1050 x 330+40 x 1338	1050 x 330+40 x 1338	1050 x 330+40 x 1338	1050 x 330+40 x 1338	1050 x 330+40 x 1338	1050 x 330+40 x 1338	1050 x 330+40 x 1338
SOUND PRESSURE LEVEL (dBA)	Heating / Cooling	46 / 44	46 / 44	48 / 47	48 / 47	51 / 49	52 / 50	52 / 50	62 / 59	62 / 59	60 / 58	62 / 59
		12.7 (1/2")	12.7 (1/2")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	28.58 (1 1/8")	28.58 (1 1/8")	28.58 (1 1/8")	28.58 (1 1/8")
PIPE SIZE (mm) (in)	Gas	6.35 (1/4")	6.35 (1/4")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	12.7 (1/2")	9.52 (3/8")	12.7 (1/2")
	Liquid	6.35 (1/4")	6.35 (1/4")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	12.7 (1/2")	9.52 (3/8")	12.7 (1/2")
HEAT EXCHANGER REQUIREMENTS	Max Volume (dm <sup>3</sup> )	>30m pipe run	1.05	1.5	1.8	2.13	3	3.75	4.2	6	7.5	6
		20m pipe run	1.35	1.8	2.7	3.03	3.9	4.65	5.1	7.8	9.3	7.8
		10m pipe run	1.65	2.1	3.6	3.93	4.8	5.55	6	9.6	11.1	9.6
	Min Volume (dm <sup>3</sup> )		0.35	0.5	0.6	0.71	1	1.25	1.4	2	2.5	2
			0.35	0.5	0.6	0.71	1	1.25	1.4	2	2.5	2
Header Diameter (mm)	Max	3/4"	3/4"	3/4"	3/4"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"
Pressure (MPa)	Design	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15
	Burst	> 12.45	> 12.45	> 12.45	> 12.45	> 12.45	> 12.45	> 12.45	> 12.45	> 12.45	> 12.45	> 12.45

Notes: One air handling unit controller is required per outdoor unit. Cooling: Indoor 27°C DB/19°C WB, Outdoor 35°C DB/24°C WB. Heating: Indoor 20°C DB, Outdoor 7°C DB/6°C WB.

#### EXAMPLE:



#### Notes:

One air handling unit controller is required per heat exchanger. If using more than one air handling unit controller on a single AHU, there are two options:

1. Connect 1 x PAC-IF013B-E unit per heat exchanger - these will operate as separate circuits with a controller on each which is included.
2. Connect 1 x PAC-IF013B-E for the first heat exchanger, then up to 5 additional slave PAC-SIF013B-E units. The included controller with the PAC-IF013B-E will additionally control the slave units

For further information of this feature please consult your local sales office.

#### PAC-IF013B-E DIMENSIONS

For product dimensions please visit:

[https://library.mitsubishielectric.co.uk/pdf/book/2020\\_Product\\_Catalogue#page-87](https://library.mitsubishielectric.co.uk/pdf/book/2020_Product_Catalogue#page-87)



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Note: The fuse rating is for guidance only. Please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP:2088), R32 (GWP:675), R407C (GWP:1774), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), R1234ze (GWP:7) or R1234yf (GWP:4). \*These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP:1975), R32 (GWP:550), R407C (GWP:1650) or R134a (GWP:1300).

Effective as of September 2020

