

The **Small Y (PUMY)** Lines of outdoor units features **Mitsubishi Electric Replace Technology**, which allows the **existing piping to be used** without modification, even with piping with different diameters and wall thicknesses. By using exclusive HAB oil and special low friction technology for the compressor, the majority of our air conditioners may operate with the original piping, cutting installation times and costs and material costs while minimising environmental impact.

## AC PRE-HEATING compressor pre-heating system

An **AC pre-heating system** is used for the compressor. The pre-heat routine is based on the temperature of the refrigerant and of the compressor. AC control reduces power absorption in stand-by state, increasing seasonal efficiency.

### Technical specifications

MODELLO				PUMY-P112VKM4 (-BS)	PUMY-P125VKM4 (-BS)	PUMY-P140VKM4 (-BS)
HP				4.5	5.0	6.0
Power	Phases/Voltage/Freq.			Single phase 220-230-240V 50Hz		
Cooling	Nominal capacity*1		kW	12.5	14.0	15.5
	Power absorption		kW	2.79	3.46	4.52
	EER			4.48	4.05	3.43
	SEER			6.55	6.60	6.25
	Operating temperature range	Indoor WB	°C	15.0~24.0	15.0~24.0	15.0~24.0
Outdoor DB		°C	-5.0~46.0	-5.0~46.0	-5.0~46.0	
Heating	Nominal capacity*2		kW	14.0	16.0	18.0
	Power absorption		kW	3.04	3.74	4.47
	COP			4.61	4.28	4.03
	SCOP			4.64	4.63	4.42
	Operating temperature range	Indoor WB	°C	15.0~27.0	15.0~27.0	15.0~27.0
Outdoor DB		°C	-20.0~15.0	-20.0~15.0	-20.0~15.0	
Sound pressure*3	Heating mode		dB(A)	51	52	53
	Cooling mode		dB(A)	49	50	51
Connectable indoor units	Total capacity			50 to 130% of capacity of O.U.	50 to 130% of capacity of O.U.	50 to 130% of capacity of O.U.
	Model/Quantity			P15~P140 / 1~9	P15~P140 / 1~10	P15~P140 / 1~12
External diameter of refrigerant connectors	Liquid		mm	9.52	9.52	9.52
	Gas		mm	15.88	15.88	15.88
Fan air flow rate			m <sup>3</sup> /min	110	110	110
External dimensions (HxLxW)			mm	1338x1050x330	1338x1050x330	1338x1050x330
Net weight			kg	122	122	122
Ref. Charge R410A*4/CO <sub>2</sub> Eq			kg/Tons	4.8/10.02	4.8/10.02	4.8/10.02

\*1 Nominal cooling conditions: Indoor: 27°C DB / 19°C WB. Outdoor 35°C DB. Piping length 7.5 m, vertical difference 0 m.

\*2 Nominal heating conditions: Indoor 20°C DB. Outdoor 7°C DB / 6°C WB. Piping length 7.5 m, vertical difference 0 m.

\*3 Values measured in anechoic chamber.

\*4 GWP value of HFC R410A 2088 according to 517 / 2014.

The SEER and SCOP data are based on the EN14825 measurement standard

### Technical specifications

MODELLO				PUMY-P112YKM4 (-BS)	PUMY-P125YKM4 (-BS)	PUMY-P140YKM4 (-BS)
HP				4.5	5.0	6.0
Power	Phases/Voltage/Freq.			3-phase, 380-400-415V, 50Hz		
Cooling	Nominal capacity*1		kW	12.5	14.0	15.5
	Power absorption		kW	2.79	3.46	4.52
	EER			4.48	4.05	3.43
	SEER			6.55	6.60	6.25
	Operating temperature range	Indoor WB	°C	15.0~24.0	15.0~24.0	15.0~24.0
Outdoor DB		°C	-5.0~46.0	-5.0~46.0	-5.0~46.0	
Heating	Nominal capacity*2		kW	14.0	16.0	18.0
	Power absorption		kW	3.04	3.74	4.47
	COP			4.61	4.28	4.03
	SCOP			4.64	4.63	4.42
	Operating temperature range	Indoor WB	°C	15.0~27.0	15.0~27.0	15.0~27.0
Outdoor DB		°C	-20.0~15.0	-20.0~15.0	-20.0~15.0	
Sound pressure*3	Heating mode		dB(A)	51	52	53
	Cooling mode		dB(A)	49	50	51
Connectable indoor units	Total capacity			50 to 130% of capacity of O.U.	50 to 130% of capacity of O.U.	50 to 130% of capacity of O.U.
	Model/Quantity			P15~P140 / 1~9	P15~P140 / 1~10	P15~P140 / 1~11
External diameter of refrigerant connectors	Liquid		mm	9.52	9.52	9.52
	Gas		mm	15.88	15.88	15.88
Fan air flow rate			m <sup>3</sup> /min	110	110	110
External dimensions (HxLxW)			mm	1338x1050x330	1338x1050x330	1338x1050x330
Net weight			kg	125	125	125
Ref. Charge R410A*4/CO <sub>2</sub> Eq			kg/Tons	4.8/10.02	4.8/10.02	4.8/10.02

\*1 Nominal cooling conditions: Indoor: 27°C DB / 19°C WB. Outdoor 35°C DB. Piping length 7.5 m, vertical difference 0 m.

\*2 Nominal heating conditions: Indoor 20°C DB. Outdoor 7°C DB / 6°C WB. Piping length 7.5 m, vertical difference 0 m.

\*3 Values measured in anechoic chamber.

\*4 GWP value of HFC R410A 2088 according to 517 / 2014.

The SEER and SCOP data are based on the EN14825 measurement standard