M-NET Branch Box

The new PAC-MK31(3)/51(3) branch boxes are designed for direct connection to MELANS control and supervision systems. To connect a system composed of internal units of the Residential or Commercial Line to an M-Net centraliser, it is therefore not necessary to provide a dedicated interface. Instead it is sufficient to use Branch Boxes and connect them to the communication bus consisting of a simple two-wire, non-polarised cable. In addition, the new Branch Boxes do not need to be prepared for condensate drainage.

Model	1 Branch Box		2 Branch Box	
	Via Branch Box	CITY MULTI Indoor units	Via Branch box	CITY MULTI Indoor units
PUMY-SP112	Max. 5	Max. 5	Max. 7	Max. 3
			Max. 8	Max. 2
PUMY-SP125	Max. 5	Max. 5	Max. 8	Max. 3
PUMY-SP140				

Indoor units connectable

			Wall																					
			Kirigamine Style		Kirigamine Zen						Plus line													
Nr. IU Connectable	Min/Max connectable capacity*	MODEL	MSZ-LN		MSZ-EF						MSZ-SF						MSZ-AP						MSZ-GF	
			25	35	18	22	25	35	42	50	15	20	25	35	42	50	15	20	25	35	42	50	60	71
	63/162	PUMY-SP112	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
8	71/182	PUMY-SP125	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	80/202	PUMY-SP140	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

			Floor			1 way cassette			4 way cassette										Ceiling concealed									Ceiling		
			Plus line						60x60					90x90					Compact											
Nr. IU Connectable	Min/Max connectable capacity*	MODEL	MFZ-KJ			MLZ-KA(P)			SLZ-KF(M)					PLA-RP EA					SEZ-KD(M)					PEAD-M JA				PCA-M KA		
			25	35	50	25	35	50	35	50	60	71	100	25	35	50	60	71	35	50	60	71	100	50	60	71	100	50	60	71
	63/162	PUMY-SP112	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
8	71/182	PUMY-SP125	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	80/202	PUMY-SP140	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Technical specifications

MODEL				PUMY-SP112VKM	PUMY-SP112YKM	PUMY-SP125VKM	PUMY-SP125YKM	PUMY-SP140VKM	PUMY-SP140YKM
HP				4.5	4.5	5.0	5.0	6.0	6.0
Power	Phases/Voltage/Freq.		V/Hz/n°	1-phase 220-240V 50Hz	3-phase 380-400-415V 50Hz	1-phase 220-240V 50Hz	3-phase 380-400-415V 50Hz	1-phase 220-240V 50Hz	3-phase 380-400-415V 50Hz
Cooling	Nominal capacity*[1]		kW	12.5	12.5	14.0	14.0	15.5	15.5
	Power absorption		kW	3.10	3.10	3.84	3.84	4.70	4.70
	EER			4.03	4.03	3.65	3.65	3.30	3.30
	SEER			6.76	6.76	6.74	6.74	6.49	6.49
	Operating temperature range	Indoor WB	°C	15.0~24.0	15.0~24.0	15.0~24.0	15.0~24.0	15.0~24.0	15.0~24.0
		Outdoor DB	°C	-5.0~52.0	-5.0~52.0	-5.0~52.0	-5.0~52.0	-5.0~52.0	-5.0~52.0
Heating	Nominal capacity*[2]		kW	14.0	14.0	16.0	16.0	16.5	16.5
	Power absorption		kW	3.17	3.17	3.90	3.90	4.02	4.02
	COP			4.42	4.42	4.10	4.10	4.10	4.47
	SCOP			3.98	3.98	3.93	3.93	3.90	3.90
	Operating temperature range	Indoor WB	°C	15.0~27.0	15.0~27.0	15.0~27.0	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	-20.0~15.0	-20.0~15.0	-20.0~15.0
Sound pressure*[3]	Heating/Cooling		dB(A)	52/54	52/54	53/56	53/56	54/56	54/56
Connectable indoor units				50 to 130% of capacity of O.U.	50 to 130% of capacity of O.U.	50 to 130% of capacity of O.U.	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	CITY MULTI		P15~P140/9	P15~P140/9	P15~P140/10	P15~P140/10	P15~P140/12	P15~P140/12
		Branch Box		P15~P100/8	P15~P100/8	P15~P100/8	P15~P100/8	P15~P100/8	P15~P100/8
		Sistema misto		please refer to databook					
External diameter of refrigerant connectors		Liquid/Gas	mm	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
	External dimensions		mm	981 x 1050 x 330	981 x 1050 x 330	981 x 1050 x 330	981 x 1050 x 330	981 x 1050 x 330	981 x 1050 x 330
	Net weight		kg	93	94	93	94	93	94
	Ref Charge R410A*[4]/CO_2 Eq		kg	3.5 / 7.31	3.5 / 7.31	3.5 / 7.31	3.5 / 7.31	3.5 / 7.31	3.5 / 7.31

*[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.