



M-NET Branch Box

The new PAC-MK34/54 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				

Technical specifications

MODEL			PUMY-SP112VKM2 (-BS)	PUMY-SP112YKM2 (-BS)	PUMY-SP125VKM2 (-BS)	PUMY-SP125YKM2 (-BS)	PUMY-SP140VKM2 (-BS)	PUMY-SP140YKM2(-BS)
HP			4.5	4.5	5.0	5.0	6.0	6.0
Power	Phases/Voltage/Freq.	V/Hz/n°	1-phase 220-230-240V 50Hz, 220V 60Hz	3-phase 380-400-415V 50Hz, 380V 60Hz	1-phase 220-230-240V 50Hz, 220V 60Hz	3-phase 380-400-415V 50Hz, 380V 60Hz	1-phase 220-230-240V 50Hz, 220V 60Hz	3-phase 380-400-415V 50Hz, 380V 60Hz
Cooling	Nominal capacity*1	kW	12.5	12.5	14.0	14.0	15.5	15.5
	Power absorption	kW	4.46	4.46	5.11	5.11	5.34	5.34
	SEER		7,24	7,24	7,31	7,31	7,48	7,48
	Operating temperature range	Indoor WB	°C	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
Outdoor DB		°C	-5.0~52.0°C(23~126°F)	-5.0~52.0°C(23~126°F)	-5.0~52.0°C(23~126°F)	-5.0~52.0°C(23~126°F)	-5.0~52.0°C(23~126°F)	-5.0~52.0°C(23~126°F)
Heating	Nominal capacity*2	kW	14.0	14.0	16.0	16.0	16.5	16.5
	Power absorption	kW	3.66	3.66	4.31	4.31	4.36	4.36
	SCOP		5,07	5,07	4,22	4,22	4,48	4,48
	Operating temperature range	Indoor DB	°C	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)
Outdoor WB		°C	-20.0~15.0°C(-4~59°F)	-20.0~15.0°C(-4~59°F)	-20.0~15.0°C(-4~59°F)	-20.0~15.0°C(-4~59°F)	-20.0~15.0°C(-4~59°F)	-20.0~15.0°C(-4~59°F)
Sound pressure*3	Heating/Cooling	dB(A)	52/54	52/54	53/56	53/56	54/56	54/56
Connectable indoor units	Model/Quantity	CITY MULTI	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity
		Branch Box	P10-P140, M20-M140/9	P10-P140, M20-M140/9	P10-P140, M20-M140/10	P10-P140, M20-M140/10	P10-P140, M20-M140/12	P10-P140, M20-M140/12
		Mixed System	P15-P100/8	P15-P100/8	P15-P100/8	P15-P100/8	P15-P100/8	P15-P100/8
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 1,050 x 330 (+40)	981 x 1,050 x 330 (+40)	981 x 1,050 x 330 (+40)	981 x 1,050 x 330 (+40)	981 x 1,050 x 330 (+40)	981 x 1,050 x 330 (+40)
	Net weight	kg	93	94	93	94	93	94
	Ref Charge R410A*/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.

PUMY-SP Series Branch Box Connection Compatibility Table for PUMY-SP112/125/140

Series	Type	Model Name	Capacity											
			15	18	20	22	25	35	42	50	60	71	100	
M Series	Wall-mounted	MSZ-LN-VG2					•	•			•			
		MSZ-RW-VF-E					•	•			•			
		MSZ-AP-VG(K)	•		•		•	•	•		•			
		MSZ-FH-VE2					•	•			•			
		MSZ-EF-VG(K)		•		•	•	•		•				
		MSZ-SF-VA	•		•									
		MSZ-AP-VF-E	•		•									
	Floor-Standing	MSZ-SF-VE3					•	•	•		•			
		MSZ-GF-VE2										•	•	
		MFZ-KT-VG					•	•			•			
1-way Cassette	MFZ-KJ-VE-E					•	•			•				
	MLZ-KP-VF					•	•			•				
S Series	Ceiling-Concealed	MLZ-KA-VA-E					•	•			•			
		SEZ-M-DA(L)(2)					•	•			•	•	•	
	2x2 Cassette	SEZ-KD-VA-E					•	•			•	•	•	
		SLZ-M-FA(2)	•				•	•			•			
	P Series	Ceiling-Suspended	SLZ-KF-VA-E					•	•			•		
			PCA-M-KA(2)						•			•	•	•
		4-way Cassette	PCA-RP-KAQ-E						•			•	•	•
			PLA-M-EA(2)						•			•	•	•
		Ceiling-Concealed	PLA-RP-EA-E						•			•	•	•
			PEAD-M-JA(L)(2)									•	•	•
		PEAD-RP-JAQ(L)-E								•	•	•		

PUMY-SP Series LEV Kit Connection Compatibility Table for PUMY-SP112/125/140

Series	I/U Type	Model Name	Capacity										
			15	18	20	22	25	35	42	50	60	71	
M Series	Wall-mounted	MSZ-LN-VG2					•	•			•		
		MSZ-AP-VG(K)	•		•		•	•	•		•		
		MSZ-FH-VE2					•	•			•		
		MSZ-EF-VG(K)		•		•	•	•		•			
		MSZ-SF-VA	•		•								
		MSZ-AP-VF-E	•		•								
	1-way Cassette	MSZ-SF-VE3					•	•	•		•		
		MFZ-KT-VG					•	•			•		

PUMY-SP Series CITY MULTI Indoor Unit Compatibility Table for PUMY-SP112/125/140

Series	Type	Model Name	Capacity													
			P10	P15	P20	P25	P32	P40	P50	P63	P71	P80	P100	P125	P140	P200
CITY MULTI series	1-way cassette	PMFY-P-VBM-E			•	•	•	•								
	2-way cassette	PLFY-P-VLMD-E			•	•	•	•					•	•	•	
	4-way cassette	PLFY-M-VEM-E			•	•	•	•					•	•	•	
		PLFY-M-VEM6-E			•	•	•	•				•	•	•	•	
		PLFY-P-VBM-E					•	•	•				•	•	•	
		PLFY-P-VEM-E					•	•	•				•	•	•	
		PLFY-P-VCM-E		•	•	•	•	•					•	•	•	
	Ceiling-concealed	PLFY-P-VFM-E		•	•	•	•	•								
		PEFY-P-VMR-E-L/R			•	•	•	•								
		PEFY-P-VMS1-E		•	•	•	•	•		•						
		PLFY-P-VMA-E			•	•	•	•		•		•	•	•	•	
		PEFY-M-VMA-A(1)			•	•	•	•		•		•	•	•	•	
		PEFY-P-VMH(S)-E					•	•		•		•	•	•	•	
		PEFY-P-VMH-E-F											•	•	•	
	Ceiling-suspended	PEFY-P-VMHS-E-F												•	•	
		PCFY-P-VKM-E	•						•			•		•	•	
	Wall-mounted	PKFY-P-VLM-E		•	•	•	•	•		•						
		PKFY-P-VBM-E		•	•	•										
		PKFY-P-VHM-E					•	•	•							
		PKFY-P-VKM-E									•			•		
Built in	PDFY-P-VM-E			•	•	•	•		•		•	•	•	•		
	PFFY-P-VKM-E2			•	•	•	•		•							
Floor-standing	PFFY-P-VLEM-E			•	•	•	•		•		•					
	PFFY-P-VLRM-E			•	•	•	•		•		•					
	PFFY-P-VLRMM-E			•	•	•	•		•		•					
	PFFY-P-VCM-E			•	•	•	•		•		•					
Lossnay *															GUF-50/100RD(H)4	

* Do not connect Lossnay remote controller(s). (PZ-61DR-E, PZ-60DR-E, PZ-52SF-E, PZ-43SMF-E)