



SMALL Y Line **R32** Compact

CITY MULTI

New Compact CITY MULTI Line in R32 Gas for residential and commercial applications. The first solution in the Market in configuration with residential indoor units and Branch Box.

SMALL Y Line Compact

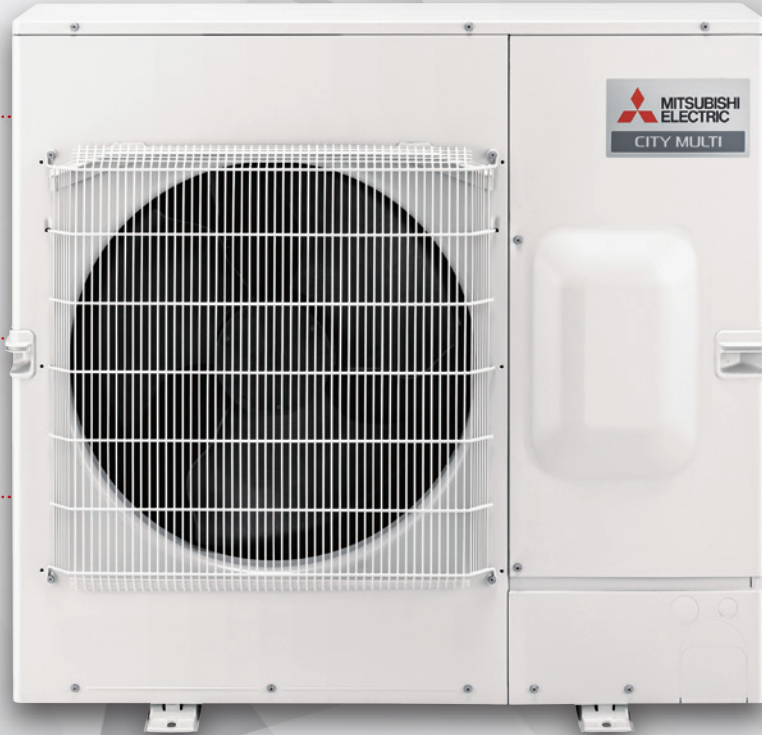
Outdoor units - PUMY SM Y/VKM (BS)

COMPACT AND
LIGHTWEIGHT

HIGH ENERGY
EFFICIENCY

(EER/COP UNDER
STANDARD RATING
CONDITIONS)

SUPER SILENT
MODE



AN EXTERNAL
STATIC
PRESSURE OF
30PA

REAR PIPING
IS AVAILABLE

A WIDE VARIETY
OF INDOOR UNITS
FOR BRANCH BOX
CONNECTION

SMALL Y COMPACT Line with safety measure included R32

- Available in three sizes from 12,5 up to 17,5 kW
- Single-phase and three-phase versions
- Solution plug & play with intergrated safety measures
- High seasonal performance SEER/SCOP

COMPACT AND LIGHTWEIGHT

- Compact design fits into restricted outdoor unit space of condominiums and offices.
- Lightweight design facilitates easy installation and transportation.



PUMY-SP112/125/140YKM



Height 981mm

Weight 97kg



PUMY-SM112/125/140YKM

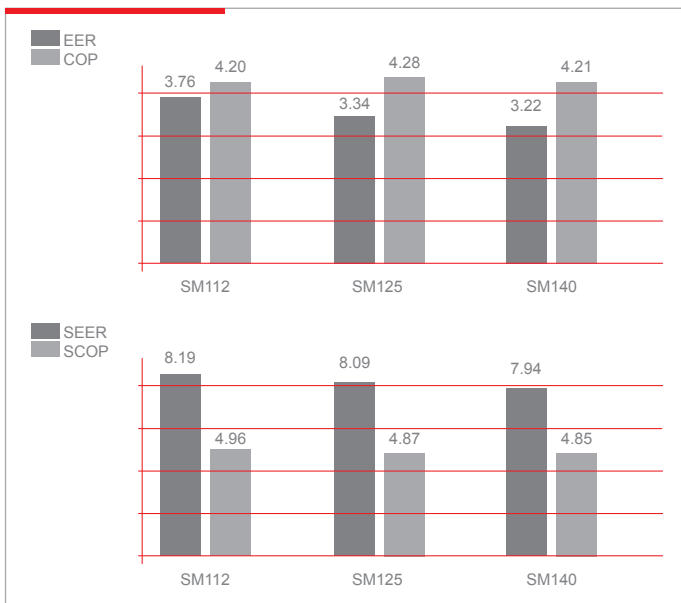


Height 981mm

Weight 97kg

ENERGY EFFICIENCY

Even with its compact size and lightweight, it has a high EER and COP. Costs are reduced with the energy saving abilities.

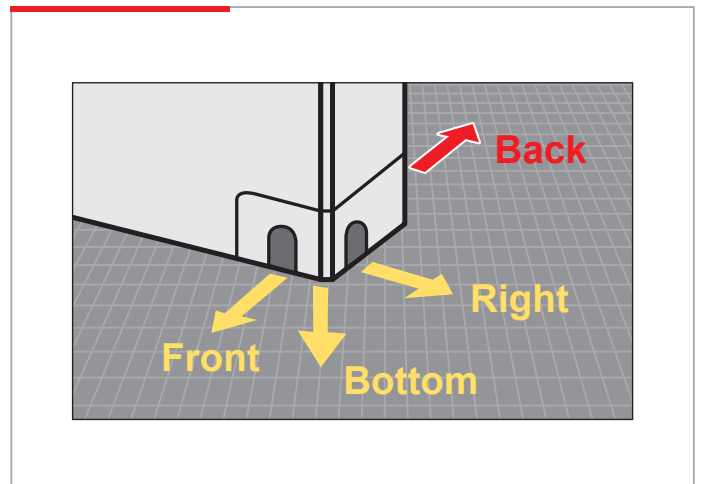


*Temperature conditions
 EER : Indoor 27°C DB / Outdoor 35°C DB
 COP : Indoor 20°C DB / Outdoor 7°C DB
 SCOP/SEER: Based on ErP Lot 21/6 calculation method to EN14825.

REAR PIPING IS AVAILABLE

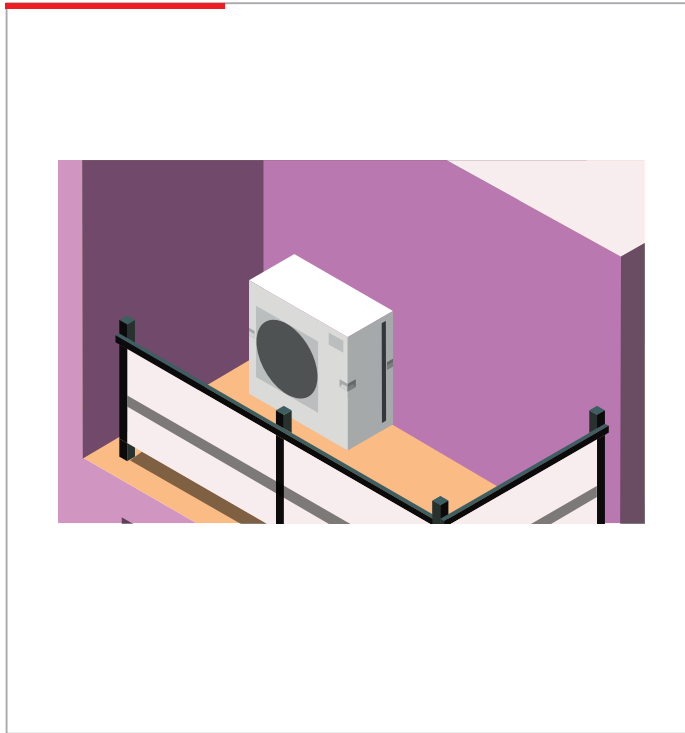
Freedom with layout due to its piping pullout locations in four directions.

The outdoor unit allows piping from any four directions; front, rear, bottom, or right. This enables easier horizontal connection for collective layout. The outdoor unit with an expanded piping layout flexibility greatly improves piping workability.



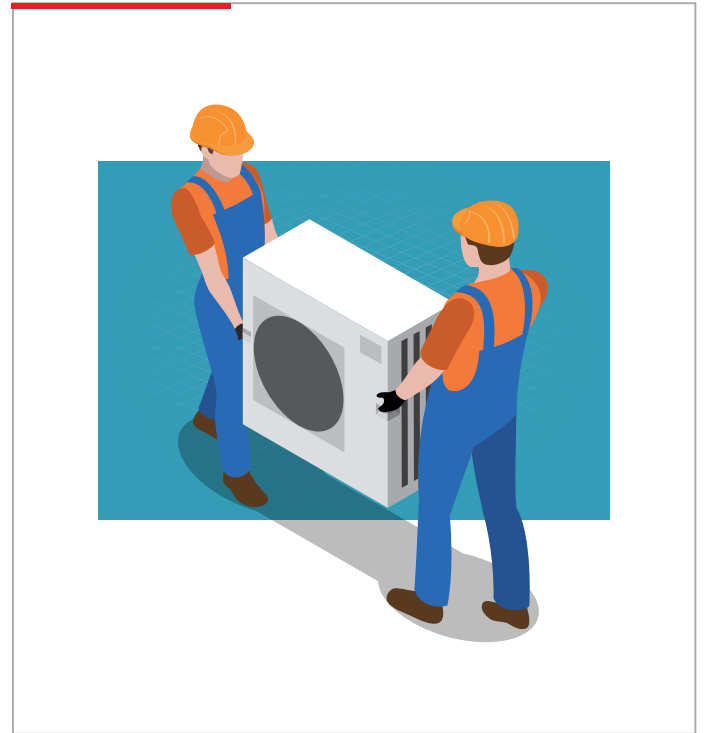
✓ COMPACT, AND EASY TO HIDE FROM VIEW

Conventional 2-fan type outdoor units may spoil the view. Thanks to its compact size, the new 1-fan type outdoor units can be installed in locations that would have been inappropriate.



✓ EASY INSTALLATION AND TRANSPORT

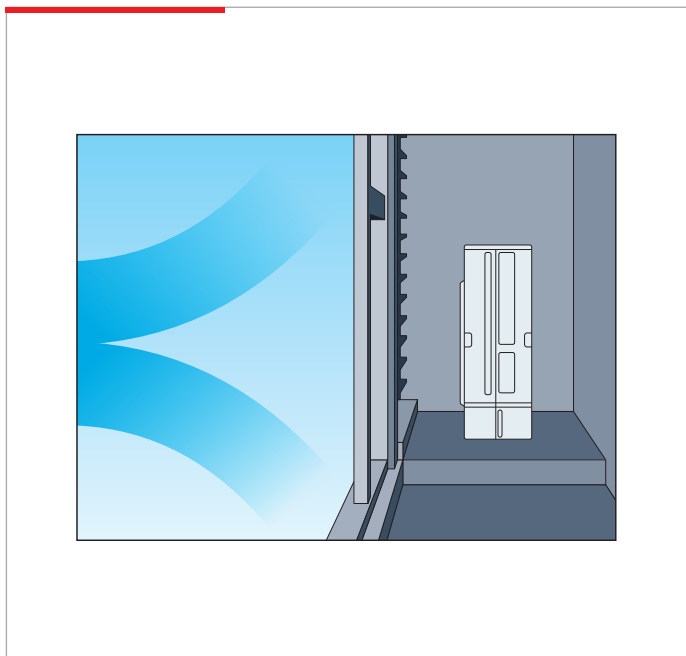
The reduced weight and height allow for better transportation performance. Carrying and installing become easier.



EXTERNAL STATIC PRESSURE MODE (30 PA)

The installation location is flexible, thanks to its 30Pa external static pressure mode. You can install it in locations that you could not before. The external pressure mode allows outdoor unit to be installed on balconies in high-rise building or spaces near louvers.

*Noise level will increase when using this function.

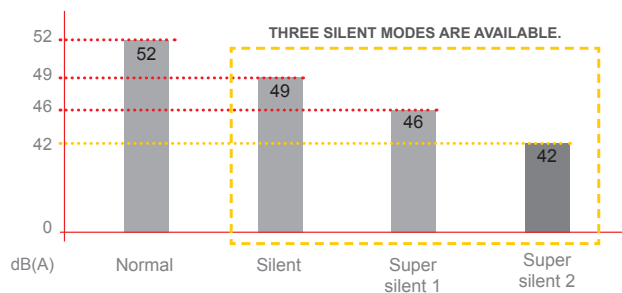


SUPER SILENT MODE*

- Noise level can be reduced up to 10dB(A).
- This allows you to operate the unit even in the night in a residential zone.

PUMY-SM112V(Y)KM



Noise levels can be reduced up to 10 dB(A).







SUMMARY OF SYSTEM COMPONENT

S&A kit • Remote controller

	Appearance	System	Features
S&A kit	<p>PAC-SK60SA-E</p> 	Branch box	<ul style="list-style-type: none"> • Connected from branch box • Sensor and alarm in the device • Have 3 types of LED (operation, detection, error) • Detection of refrigerant leakage, a kit alerts and LED flashes in red • Alarm can be stopped only by a kit in a room that refrigerant leakage occurred
Remote controller	<p>PAR-41MAAB</p> 	VRF	<ul style="list-style-type: none"> • Connected from indoor unit • Alarm in the device • Have a display • In case of refrigerant leakage, R/C alerts and error code and address of indoor unit is shown • Alarm can be stopped by a R/C in a room that refrigerant leakage occurred and a supervisor room

*Can be used as a Wired remote control in a Branch box system. However, in this case, a separate S/A kit connection is required.

Branch box

		
Model name	PAC-MMK40BC(B)	PAC-MMK60BC
Number of ports	4 ports	6 ports
Refrigerant	R32	R32
Input(kW)	0.003	0.006
Running current(A)	0.15	0.30
Size(mm)	H W D	170 450 372
Installation	Ceiling-suspended Floor-standing Vertical No need drainpan	✓ ✓ ✓ ✓
Connection	Flare connection Blazing	✓ ✓

Branch Piping(Ø) liquid/gas [mm]	1st	6.35/9.52
	2nd	6.35/9.52
	3rd	6.35/12.7
	4th	6.35/9.52
	5th	6.35/9.52
	6th	9.52/15.88
Piping/Wiring	<ul style="list-style-type: none"> • Piping connection from both side and wiring connection from one side. • If necessary, you need to flip over only electrical box to connect from the other side. 	
Instability	<ul style="list-style-type: none"> • Possible to make piping connection from both side. • Flipping over only electrical box is not difficult for installer. • Ø9.52/Ø15.88 can be connected to a large indoor unit placed in a living room or other large room. 	

COMPLY WITH IEC60335 2-40(ED.6)

The product standard IEC60335-2-40 (Ed.6) specifies the following:

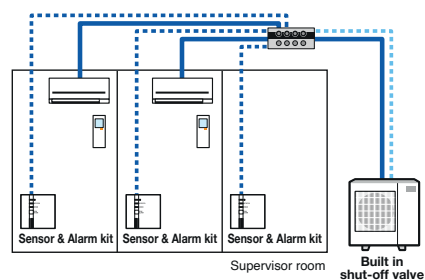
- The minimum room surface that needs to be respected, in function of the total refrigerant quantity of the system.
- The measures that can be implemented to relax limitations on minimum room surface in relation to the system's total refrigerant charge.

Possible measures towards flammability

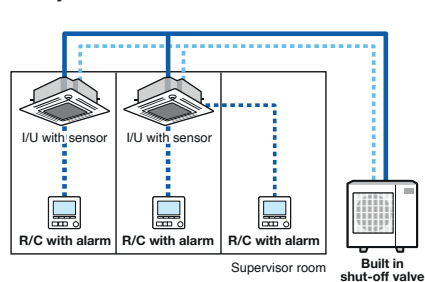
- Manufacturers have the choice to implement zero, one or two measures.
- 3 types of measures are allowed :
 - Ventilation (natural or mechanical)
 - Shut-off valves
 - Alarm (local and supervisor)

SYSTEM OF R32 PUMY






Branch box system



VRF system



INDOOR UNIT FOR BRANCH BOX CONNECTION			
Type	Series	Model name	Model
Wall Mounted	L-series	MSZ-LN	
	RW-series	MSZ-RW	
	E-series	MSZ-EF	
	BT-series	MSZ-BT	
	A-series	MSZ-AP MSZ-AY	
4-way Cassette	PLA-M		
	SLZ-M		
1-way Cassette	MLZ-KP MLZ-KY		
Ceiling Suspended	PCA-M		
Ceiling Concealed	SEZ-M		
	PEAD-M		

INDOOR UNIT FOR FREE PLAN CONNECTION (CITY MULTI SERIES)*1		
Type	Model name	Model
4-way Cassette	PLFY-M•VEM6*2 PLFY-MS•VEM-E	
	PLFY-MS•VFM-E*3	
Ceiling Concealed	PEFY-M•VMA(L)-A1*2 PEFY-MS•VMA(L)-A	
Ceiling Suspended	PCFY-MS•VKM-E*3	
Wall Mounted	PKFY-MS•VKM-E*3 PKFY-MS•VLM-E*3	

*1 Connectable indoor unit varies depending on capacity.

*2 M models (R410A/R32 common) can be used only for applications that do not require on-site fire prevention safety measures.

*3 Please contact the installer for PKFY/PCFY /PLFY-VFM date of sale.





PUMY-SM Series Free plan connection for PUMY-SM112/125/140

Series	Model Name	Capacity													
		Sensor	10	15	20	25	32	40	50	63	71	80	100	125	140
City Multi Series	PLFY-M•VEM6-E				•	•	•	•	•	•	•	•	•	•	
	PEFY-M•VMA-A1				•	•	•	•	•	•	•	•	•	•	•
	PLFY-MS•VEM-E	✓			•	•	•	•	•	•	•	•	•	•	•
	PLFY-MS•VFM-E*	✓		•	•	•	•	•	•	•	•	•	•	•	•
	PCFY-MS•VKM-E*	✓							•		•		•	•	
	PKFY-MS•VLM-E*	✓	•	•	•	•	•	•	•	•	•	•	•	•	•
	PKFY-MS•VKM-E*	✓									•		•	•	
	PEFY-MS•VMA-A	✓				•	•	•	•	•	•	•	•	•	•

* Please contact the installer for PKFY/PCFY/PLFY-VFM date of sale.

PUMY-SM Series Branch Box Connection Compatibility Table for PUMY-SM112/125/140

Series	Type	Model Name	Capacity											
			15	18	20	22	25	35	42	50	60	71	100	
M Series	Wall-mounted	MSZ-RW•VG									•			
		MSZ-LN•VG2					•	•		•				
		MSZ-AP•VG(K)	•		•		•	•	•	•				
		MSZ-AY•VG(K)(P)					•	•	•	•				
		MSZ-EF•VG(K)		•		•	•	•	•	•				
		MSZ-BT•VG(K)					•	•						
	1-way Cassette	MLZ-KY•VG			•									
		MLZ-KP•VF					•	•		•				
S Series	Ceiling-Concealed	SEZ-M•DA(L)2						•	•	•	•	•		
	4-way Cassette	SLZ-M•FA2	•					•	•	•				
P Series	Ceiling-Suspended	PCA-M•KA2							•	•	•	•	•	
	4-way Cassette	PLA-M•EA2							•	•	•	•	•	
	Ceiling-Concealed	PEAD-M•JA(L)2								•	•	•	•	

Technical specifications

MODEL			PUMY-SM112VKM	PUMY-SM125VKM	PUMY-SM140VKM	PUMY-SM112YKM	PUMY-SM125YKM	PUMY-SM140YKM	
HP			4.5	5.0	6.0	4.5	5.0	6.0	
Power			1-phase 220-230-240V 50Hz, 220V 60Hz			3-phase 380-400-415V 50Hz, 380V 60Hz			
Cooling Capacity	kW		12.5	14.0	15.5	12.5	14.0	15.5	
(Nominal)	Power input	kW	3.32	4.19	4.81	3.32	4.19	4.81	
	Current input	A	15.40 - 14.73 - 14.12 / 15.40	19.43 - 18.59 - 17.81 / 19.43	22.45 - 21.47 - 20.58 / 22.45	5.31 - 5.04 - 4.86 / 5.31	6.70 - 6.37 - 6.14 / 6.70	7.74 - 7.35 - 7.09 / 7.74	
	SEER	kW/kW	8.19	8.09	7.94	8.19	8.09	7.94	
Temp. range of cooling	Indoor temp.	W.B.*1	15.0 to 24.0 °C						
	Outdoor temp.	D.B.*2*3	-5.0 to 52.0 °C						
Heating Capacity	kW		14.0	16.0	17.5	14.0	16.0	17.5	
(Nominal)	Power input	kW	3.33	3.73	4.15	3.33	3.73	4.15	
	Current input	A	15.45 - 14.77 - 14.16 / 15.45	17.30 - 16.55 - 15.86 / 17.30	19.25 - 18.41 - 17.64 / 19.25	5.33 - 5.06 - 4.88 / 5.33	5.97 - 5.67 - 5.46 / 5.97	6.64 - 6.31 - 6.08 / 6.64	
	SCOP	kW/kW	4.96	4.87	4.85	4.96	4.87	4.85	
Temp. range of heating	Indoor temp.	W.B.	15.0 to 27.0 °C						
	Outdoor temp.	D.B.	-20.0 to 15.0 °C						
Indoor unit connectable	Total capacity		50 to 130% of outdoor unit capacity						
	Model / Quantity	City Multi	10 - 140 / 12						
		Branch Box	15 - 100 / 8						
		Mixed System	Branch box 1unit	10 - 140 / 3 or 5 *4					
			Branch box 2unit	15 - 100 / 4 or 6 *5					
City Multi		10 - 140 / 2 or 3 *6							
Branch Box	15 - 100 / 8								
Sound Pressure Level(Cooling/Heating)	dB <A>		52 / 54	53 / 56	54 / 56	52 / 54	53 / 56	54 / 56	
Sound Power Level Cooling/Heating)	dB <A>		74	76	76	74	76	76	
Refrigerant piping diameter	Liquid piping	mm	9.52 Flare						
	Gas piping	mm	15.88 Flare						
Fan	Type × Quantity		Propeller Fan × 1						
	Air flow rate	m3/min	77	83	83	77	83	83	
		L/s	1,283	1,383	1,383	1,283	1,383	1,383	
		cfm	2,719	2,931	2,931	2,719	2,931	2,931	
	Motor output	kW	0.20 × 1						
External static press.	Pa	0 Pa / 30 Pa *7							
Compressor	Type × Quantity		Twin rotary hermetic compressor × 1						
	Starting method		Inverter						
	Motor output	kW	2.3	2.6	3.0	2.3	2.6	3.0	
External Dimensions (HxWxD)	mm		981×1,050×330(+40)						
Net weight	kg (lbs)		95(209) *8			97(214) *9			
Pre-Charged quantity	Weight	kg	3.0						
	CO ₂ equivalent	t	2.03						
Max system quantity	Weight	kg	7.5						
	CO ₂ equivalent	t	5.06						

*1 15 to 23°C when using branch box(M/S/P series)

*2 10 to 52°C: in case of connecting PKFY-MS*VKM, PKFY-MS*VLM indoor unit and M series, S series and P series type indoor unit with branch box.

*3 -15 to 52°C: when using an optional air protect guide [PAC-SH95AG-E]. However, this condition does not apply to the indoor unit listed in*1.

*4 When connected branch box is PAC-MMK60BC, connectable City Multi indoor units are 3; connected branch box is PAC-MMK40BC(B), connectable City Multi indoor units are 5.

*5 When connected branch box is PAC-MMK40BC(B), connectable indoor units via branch box are 4; connected branch box is PAC-MMK60BC, connectable indoor units via branch box are 6.

*6 When connected branch boxes are PAC-MMK40BC(B) and PAC-MMK60 BC, connectable City Multi indoor units are 2; connected branch boxes are PAC-MMK40BC(B) and PAC-MMK40BC(B), connectable City Multi indoor units are 3; connected branch boxes are PAC-MMK60BC and PAC-MMK60BC are not allowed.

*7 0 Pa as initial setting

*8 96 (212), for PUMY-SM112/125/140VKM-BS

*9 98 (216), for PUMY-SM112/125/140YKM-BS

Indoor unit connectable table

Model Name		PUMY-SM112V(Y)KM	PUMY-SM125V(Y)KM	PUMY-SM140V(Y)KM
CM Indoor Only		12	12	12
Branch box Only		8	8	8
Mix system	CM Indoor	3	3	3
	Branch box 1unit	6	6	6
	PAC-MMK60BC	9	9	9
Mix system	CM Indoor	5	5	5
	Branch box 1unit	4	4	4
	PAC-MMK40BC(B)	9	9	9
Mix system	CM Indoor	2	2	2
	Branch box 1unit	8	8	8
	PAC-MMK60BC + PAC-MMK40BC(B)	10	10	10
Mix system	CM Indoor	3	3	3
	Branch box 1unit	8	8	8
	PAC-MMK40BC(B) 2unit	11	11	11



STADSHUS

KUNST ZON



LIVING ENVIRONMENTAL SYSTEMS

Mitsubishi Electric Europe B.V. Italian Branch

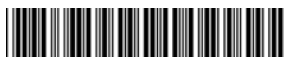
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The equipment described in this catalogue contain fluorinated HFC gasses with a GWP >1.
Installation of those equipment must be executed by professional installer based on EU reg. 303/2008 and 517/2014

Brochure PUMY SM (Export)
E-2406284

Specifications are subject to change without notice



E-2406284