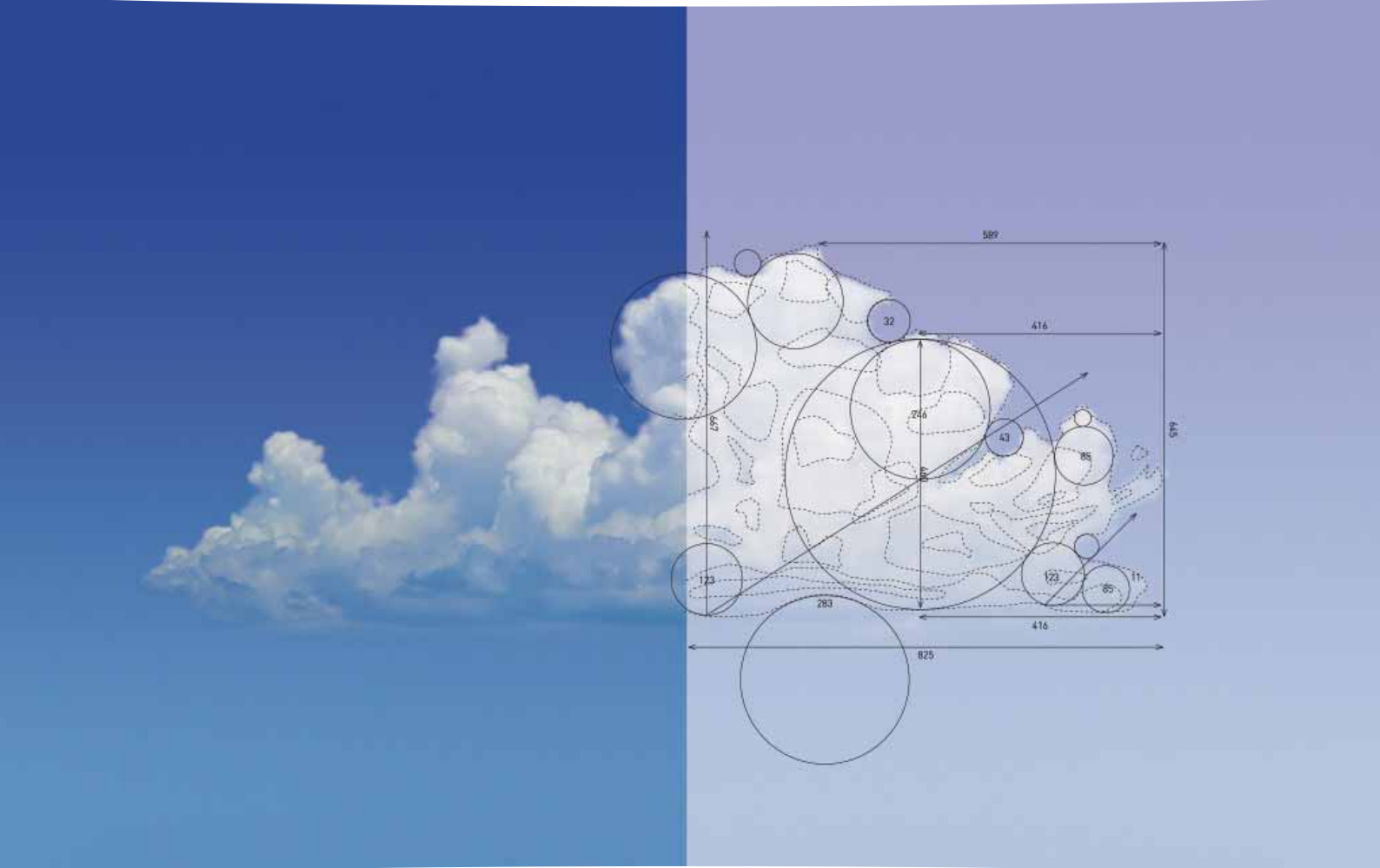


AIR CONDITIONING



PANASONIC AIR CONDITIONING DESIGNED TO CARE FOR YOU



With more than 30 years of experience, exporting to more than 120 countries around the world, Panasonic is unquestionably one of the leaders in the air conditioning sector. With more than 100 million compressors produced, you are assured of the high quality of Panasonic's air conditioners.

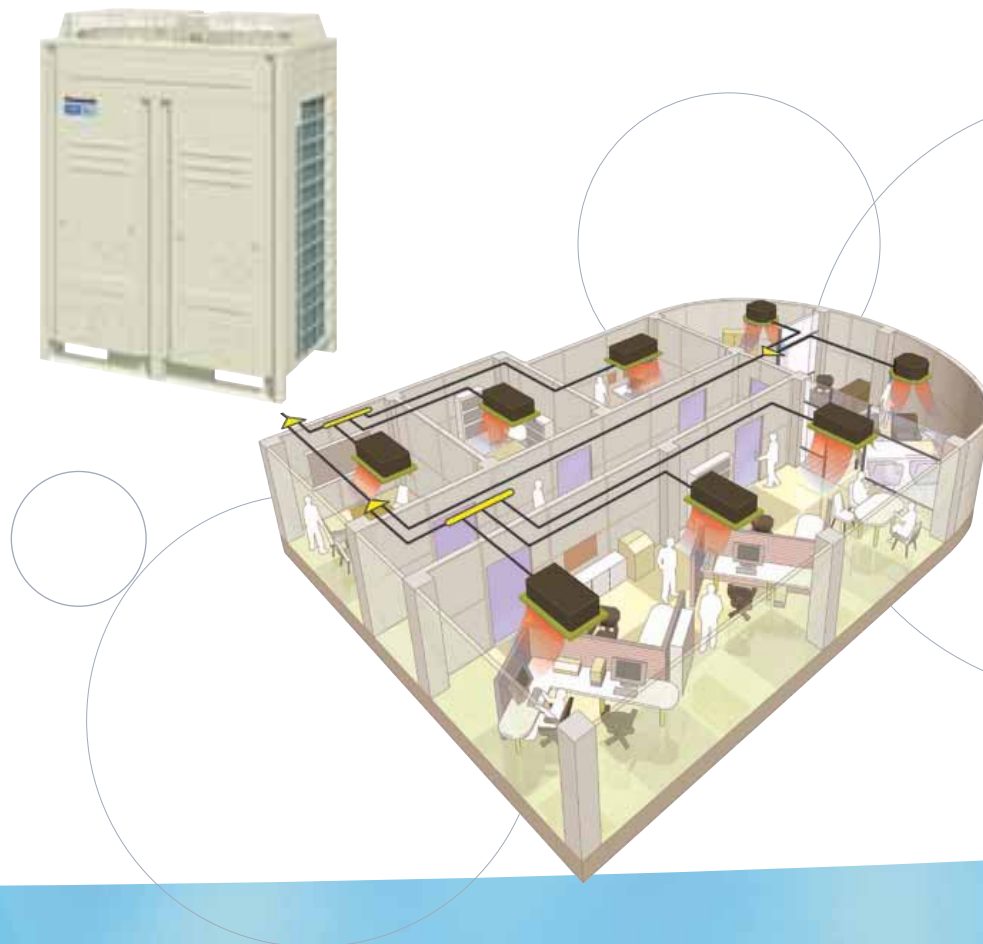
Our desire to continually move ahead and our interest in research and development have enabled us to include four ranges of air conditioning solutions among our products – with applications for your home, office, business and warehouse... or wherever air conditioning is needed. This in turn has enabled us to meet our primary and only goal, which has always been to offer our customers the best possible solutions....

High quality solutions that guarantee healthy air, a meticulous design and, of course, compliance with the most rigorous requirements on energy consumption, the environment and noise emissions.

And not only does making our customers' lives easier matter to us. It also matters that technology enables us to do this. Thus, having a wide range of air conditioners to cover each and every need matters.

**BECAUSE OFFERING YOUR BEST
SOLUTION ON AIR CONDITIONING MATTERS.
EVERYTHING MATTERS**

For further information visit www.panasonic.eu



Panasonic presents the revolutionary Urban Multi 4 range

- MX4 HEAT PUMP RANGE FROM 5 HP TO 54 HP
- ME4 HEAT RECOVERY RANGE FROM 8 HP TO 48 HP
- SINGLE-PHASE MINI UM 5 RANGE FROM 4 HP TO 6 HP
- NEW THREE-PHASE MINI UM RANGE FROM 4 HP TO 6 HP

Panasonic has developed the new ME4 VRF Inverter heat recovery system. The ME4 heat recovery range demonstrates the continuous, significant improvements of our professional solutions:

- 14% more efficient than the former range on average, 20% more efficient in individual units.
- COPs and EERs of up to 4.4 and 4.2, respectively, connected at 100%.
- Up to 64 indoor units can be connected to a single outdoor unit (one third more than the previous ME3 range).
- Outdoor units of up to 48 HP in 2 HP steps to better adapt to project needs.
- Individual units of up to 16 HP with two heat recovery elements permitting greater installation flexibility.
- Connection ratio of up to 200% with a single outdoor unit and between 160% and 130% for double or triple combinations.
- Improved range of operation: from -5 °C to 43 °C in cooling and from -20 °C to 15.5 °C in heat pump mode.
- “Night quiet” mode which enables a reduction of up to 45 dB(A) in the outdoor unit’s sound level (in automatic or manual mode) at night.
- Needs 10% less refrigerant load than the previous range.
- Outdoor unit flow rate increased by between 3% and 10% for greater efficiency.



DESIGN FLEXIBILITY

UP TO 34% REDUCTION IN OUTDOOR UNITS MX4 RANGE

The Urban Multi 4 inverter system drastically reduces the space required for installation, making it the most space-economising system in the industry. For example, you only need one outdoor unit to obtain 18 HP, unlike the Urban Multi 3 system, which requires two units.



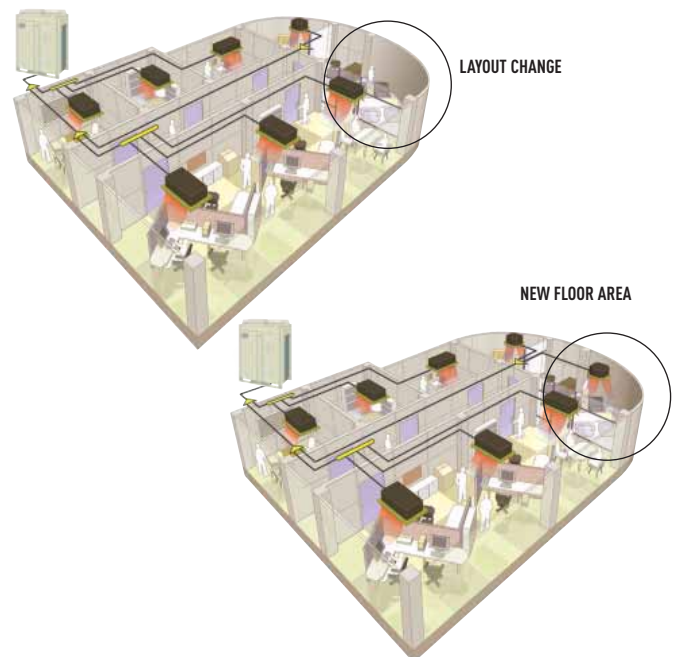
REDUCTION
34%

INSTALLATION SPACE (18 HP)

1.44 m² → 0.95 m²

TOTAL FLEXIBILITY OF AIR CONDITIONING INSTALLATION

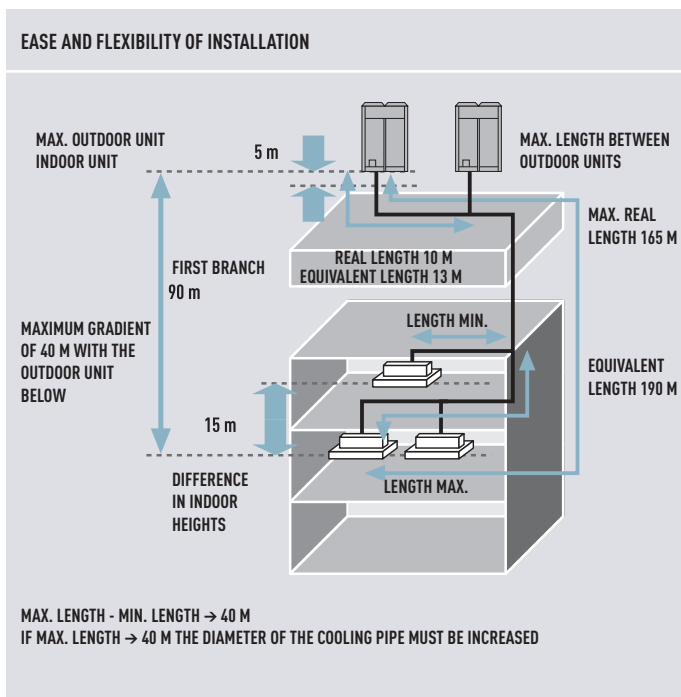
The indoor cooling/heating capacity of the Urban Multi 4 inverter system can be extended by adding several indoor units to the outdoor unit, when it has excess capacity. Indoor units of up to 200% of the capacity of the outdoor unit can be added to cover possible changes in floor layout. The installation can be designed depending on the flexible combination of outdoor units, enabling maximum operating efficiency (COP) or for minimum use of space. The maximum connection ratio of 200% enables you to activate cooling from the other side of the building to avoid localised heating caused by the sun in the morning or the afternoon.



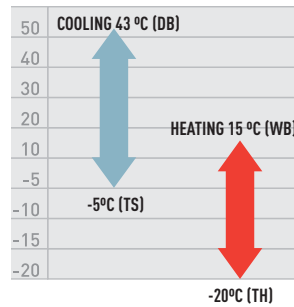


PIPES OF UP TO 165 M UP TO 27 FLOORS IN HEIGHT

The length of the cooling pipe between a system's indoor and outdoor units can be extended up to 165 metres, with a height difference of up to 50 metres (90 m in some cases). These ample limits make it possible to place the outdoor unit on the roof of a 27-floor building. The maximum height difference between indoor units in the same system may be up to 15 metres, thus covering 4 or 5 floors in the same system. The total length of the pipes extends from 300 to an incredible 1,000 metres.



BROAD OPERATING RANGE

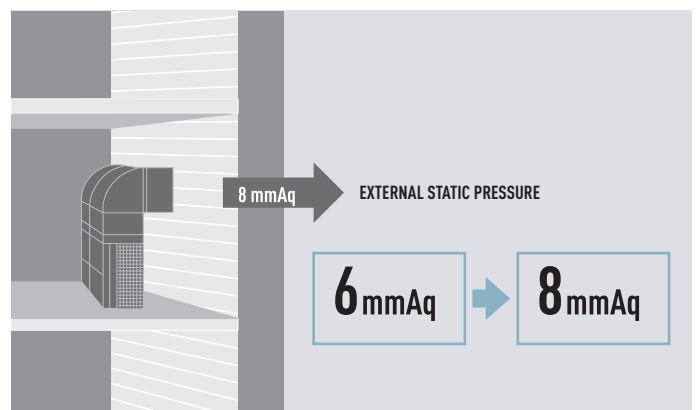


WORKS OUTDOORS DOWN TO -20 °C.
The heating function will remain stable indoors even when the temperature outside drops to -20 °C, thus meeting users' different needs. Moreover, the cooling function operates from -5 °C to 43 °C.



HIGH EXTERNAL STATIC FAN PRESSURE

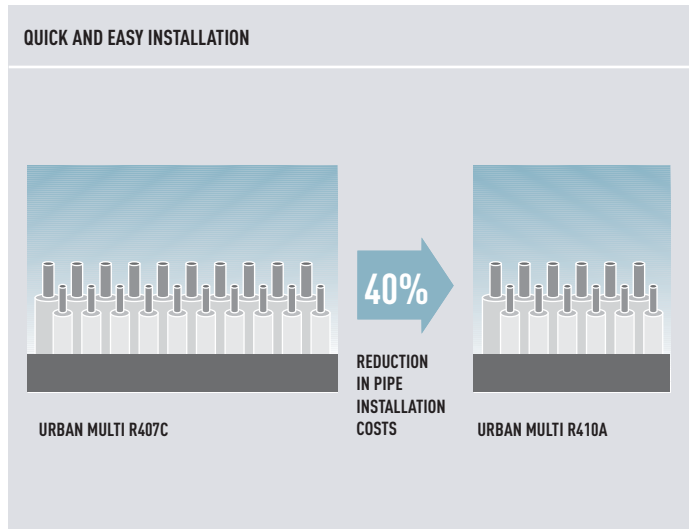
Panasonic has increased the static pressure of the Urban Multi 4 outdoor unit from 6 mm H₂O to a high level of 8 mmAq to satisfy the pipe discharge options demanded by customers.





EASY TO INSTALL

THANKS TO ITS UNIQUE SYSTEM OF PIPES AND WIRING AND ITS LIGHTWEIGHT, COMPACT INDOOR UNITS, THE URBAN MULTI 4 SYSTEM CAN BE INSTALLED EASILY AND RAPIDLY BY FEW OPERATORS. ITS AUTOMATIC ADDRESS CONFIGURATION FUNCTION, AS WELL AS ITS SELF-DIAGNOSIS OF PIPING AND WIRING CONNECTION ERRORS ENABLES TECHNICIANS TO INSTALL EXPANSION AIR CONDITIONING EQUIPMENT.



PIPING FLEXIBILITY

The new Urban Multi 4 design allows for a drastic increase in the run length of the pipes, from 300 to 1,000 m. The length of cooling pipes between outdoor and indoor units in a system can extend up to 165 m. The horizontal distance between the first indoor unit and the last one has been increased by 40 m and the vertical distance has gone from 50 m to 90 m. This makes the Urban Multi 4 system the ideal solution for cooling needs in multi-storey buildings.



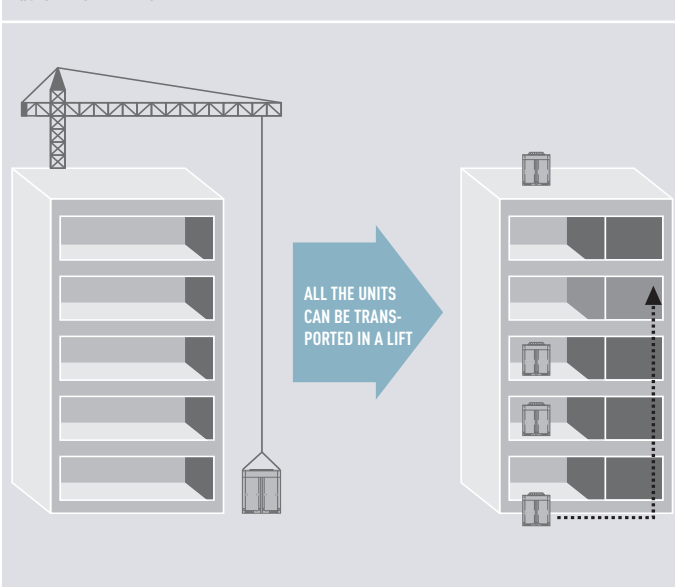
GREATER CONNECTION CAPACITY

The new Urban Multi 4 attains a mass connection capacity of up to 200% in the unit's connection range, depending on the selection of outdoor and indoor models. Unlike the old MX3 10 HP, which could only be connected to 16 indoor units, the MX4 of the same power can be connected to 25 indoor units.

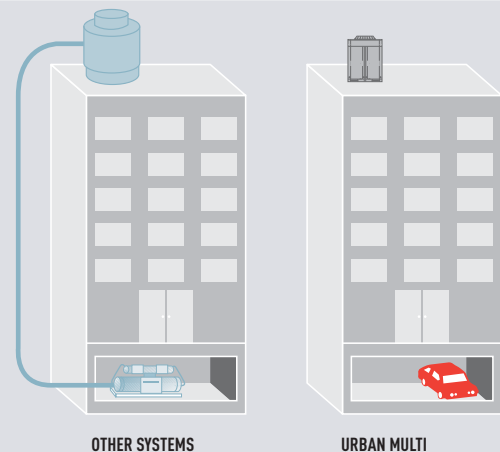
DESIGNED FOR QUICK INSTALLATION

No cranes or hoists are needed to transport the units to rooftops. Thanks to the new outdoor units' small size they can be transported to the rooftop in the building's lift.

QUICK INSTALLATION



SPACE REDUCTION



SIMPLIFIED WIRING

The wiring system enables several indoor units to be connected to one outdoor unit, thus simplifying installation. The wiring system has been designed both for communication between indoor and outdoor units and for centralising the control system. A high degree of control can be achieved with a simple wiring operation. Even if you have a centralised control system, only one connection is required between the control unit and the outdoor units.

SPACE SAVINGS AS COMPARED TO OTHER TYPES OF INSTALLATIONS

Urban Multi 4's single cooling refrigerant circuit system saves more space. There is no need for a special machine room in buildings, so available space is used most efficiently. You may select the external configuration depending on your needs, minimum space or high COP. You decide.



R410A environmentally friendly refrigerant



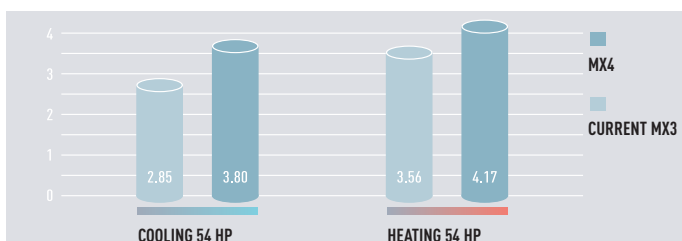
PANASONIC CARES ABOUT THE ENVIRONMENT

PANASONIC IS WELL AWARE OF THE DELICATE BALANCE BETWEEN PROGRESS AND SUSTAINABILITY REALISING THAT OUR JOB IS BOTH TO INNOVATE AND CONSERVE, OUR HCFC-BASED REFRIGERANT GAS REPLACEMENT PROGRAMME WAS YEARS AHEAD OF RELATED EU REQUIREMENTS. WE HAVE ALSO ENSURED THAT WE COMPLY WITH ROHS DIRECTIVE REQUIREMENTS AND, INDEED, EXCEED THEM.

OUR LONG RECORD OF RESEARCH INTO NEW REFRIGERANTS HAS ALLOWED US TO ADOPT R410A GAS FOR OUR RANGE OF AIR CONDITIONERS. "R410A IS THE OPTION THAT OFFERS OPTIMAL PERFORMANCE WITHOUT THE NEED TO FOREGO COMFORT AND INVOLVES 'NO ENVIRONMENTAL COST' SINCE IT DOES NOT HARM THE OZONE LAYER". PANASONIC, QUALITY OF LIFE NOW, QUALITY OF LIFE TOMORROW.

THE BEST FEATURES

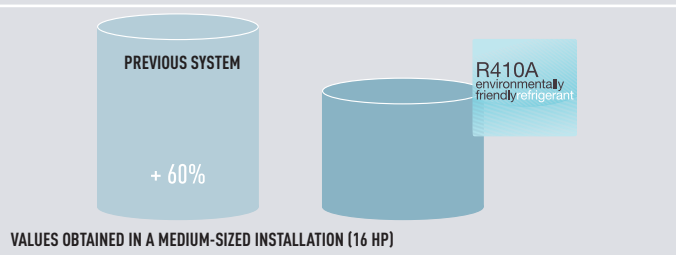
Quality features translate into energy savings thanks to greater energy efficiency. This efficiency is due to the fact that each room is individually controlled and only the rooms that require air-conditioning are heated or cooled. Moreover, thanks to Inverter technology, the level of air conditioning can be adjusted precisely depending on each room's condition. The high COP of our machines is attained using cutting-edge technology, like the highly efficient type G compressor with its reduced friction losses. This all contributes to smooth and cost-effective operation. In addition, the Inverter-type outdoor unit consumption drops to zero in standby mode when indoor units are disconnected using the remote control (30% reduction in standby consumption).



REDUCED REFRIGERANT VOLUME

Reduction in the total amount of refrigerant throughout the circuit. The adoption of R410A refrigerant gas, together with the optimisation and reduction of pipe diameters, allows for a major reduction in the volume of the whole circuit.

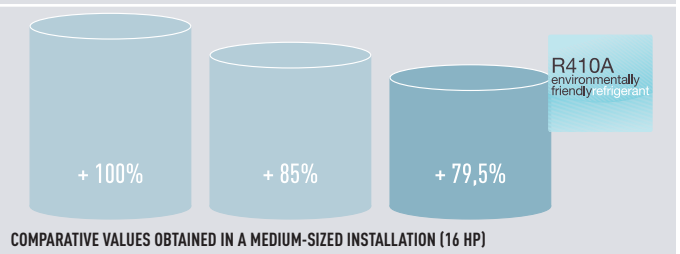
TOTAL AMOUNT OF REFRIGERANT GAS IN THE SYSTEM OVERALL



REDUCTION OF THE INITIAL REFRIGERANT LOAD

Thanks to research results and the use of a more effective gas, the new UM R410A series offers considerable savings in the initial load with regard to previous models of more than 20% compared to the old R22s.

AMOUNT OF INITIAL LOAD



CLEANER PRODUCTION, GREATER DURABILITY AND RECYCLABLE MATERIALS

The RoHS Directive came into force in Europe in July 2006. The Directive prohibits the launching onto the EU market in the of new electrical and electronic equipment in which levels of lead, cadmium, mercury, hexavalent chromium and polybromobiphenyl (PBB) and polybromodiphenyl ether (PBDE) type flame retardants exceed those permitted. All Panasonic's VRF products comply with this regulation.

REFRIGERANT RECOVERY FUNCTION

This function opens the valves to facilitate recovery of the refrigerant using a recovery unit.



HIGH RELIABILITY

IMPROVED NIGHT-TIME FUNCTION

The noise control range has been extended, making the following adjustments possible: Step 1 (50 dB) and Step 2 (45 dB) (system with a single outdoor unit). Substantially quieter night-time operation.

NIGHT-TIME FUNCTION		5 HP	8 HP	10 HP	12 HP	14 HP	16 HP	18 HP
STEP 2	CAPACITY KW	11.9	15.1	15.1	15.6	15.5	15.6	15.6
	45 dB	93%	74%	59%	51%	43%	38%	34%
STEP 1	CAPACITY KW	14.7	19.9	19.9	20.9	19.9	20.1	20.2
	50 dB	116%	98%	78%	69%	55%	49%	44%

With step 2 silent operation, sound level of 45 dB at 10 HP, 25 °C, 41% reduction in capacity.

The capacity priority adjustment included, as in conventional systems, ensures that sufficient capacity is available when it is absolutely necessary. The personalised mode continues to allow the user to choose the operating mode activation and deactivation time (external adapter and timer required for the outdoor unit).

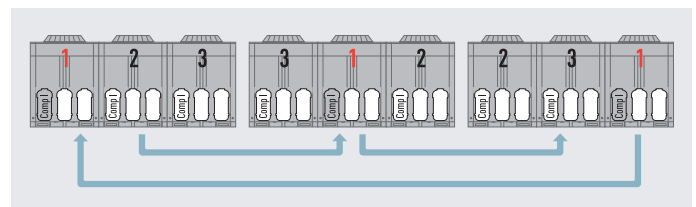
IMPROVED NOISE REDUCTION

To continue reducing noise levels, the MX4 series has a compressor which is 5 dB quieter than in the previous system. The improved acoustic insulation offers a 3 dB sound reduction thanks to 200% more insulation. Finally, a fan masking control ensures silent operation all year round, even at night, preventing compressor noise being heard even during fan control.

CONTROL OF THE COMPRESSOR START-UP CYCLE

VRF systems incorporate a mechanism which manages the operation of each compressor to extend its life. This cycle control covers a maximum of nine compressors. The start-up sequence order is controlled by a group of outdoor units.

QUICK AND EASY INSTALLATION



ANTICORROSIVE TREATMENT

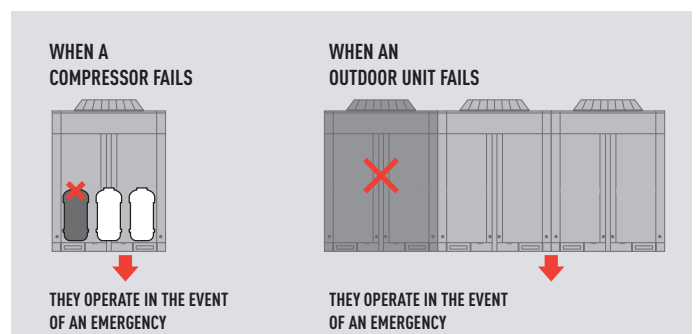
The heat exchanger's special anticorrosive treatment offers six times better resistance to saline corrosion and/or acid rain. The bottom part has a stainless steel plate to give the unit additional protection.

CROSS-SECTION OF THE HEAT EXCHANGER WITH ANTICORROSIVE TREATMENT



CONVENTIONAL DOUBLE BACKUP IN OUTDOOR UNITS

Conventional VRF or water systems require an expensive and bulky stand-by unit to prevent an emergency shutdown in the event of a system malfunction. In contrast, faults only affect one part of the Urban Multi 4 system, not all of it. If one of the three compressors of an outdoor unit malfunctions, one of the remaining compressors starts to work in emergency mode. In addition, if there is a fault in a double or triple system unit, the other outdoor units will work in emergency mode until the fault is repaired.

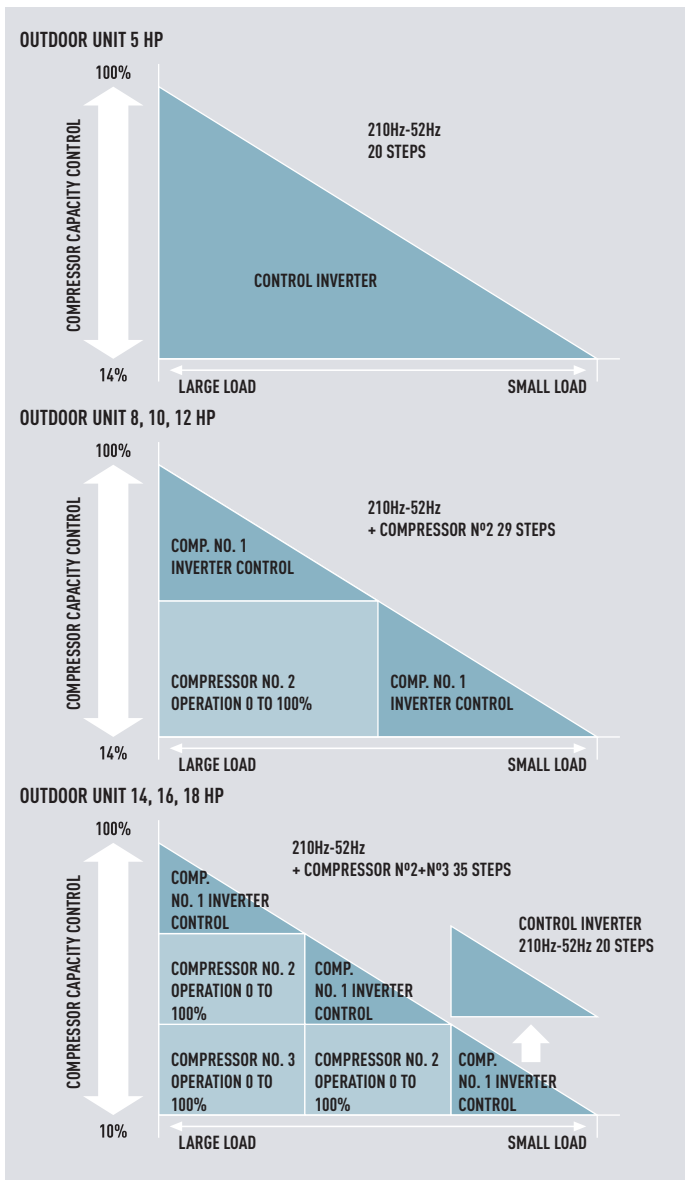


HI-TECH OUTDOOR UNITS



INVERTER TECHNOLOGY MX4 AND ME4

Urban Multi 4 outdoor units have advanced control based on the cooling load. This way, by using two compressors, one fixed speed and the other inverter, compressor capacity can be controlled step by step if a low-capacity indoor unit is used. The 5 HP model only uses the inverter compressor.

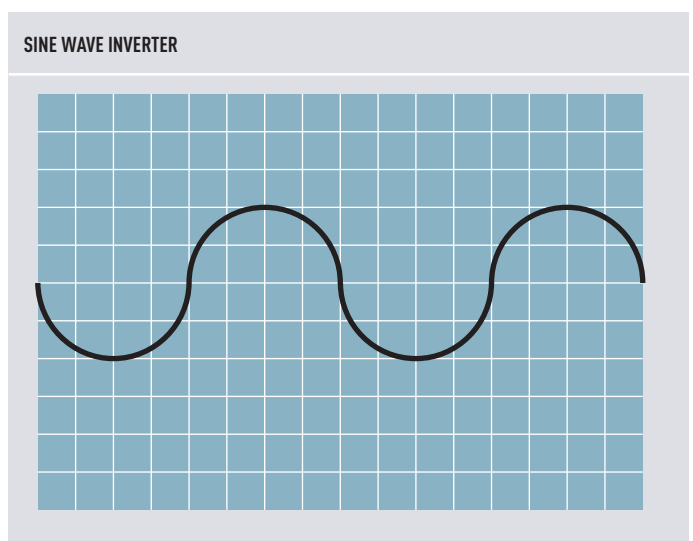


NEW REFRIGERANT CONTROL CIRCUIT

The sub-cooling of the refrigerant has been improved by the new E-Bridge circuit. This maintains the refrigerant liquid over longer distances with less refrigerant volume, thus permitting a reduction in piping diameter.

NEW SMOOTHER SINE WAVE DC INVERTER

By adopting a sine wave, the rotation of the compressor motor is smoothed, considerably increasing efficiency.



NEW COMPACT BOX

The new layout of the PCBs for the Inverter and control optimises internal design and results in a new, more compact and aerodynamic box, thus reducing the outdoor unit fan sound level and energy consumption.

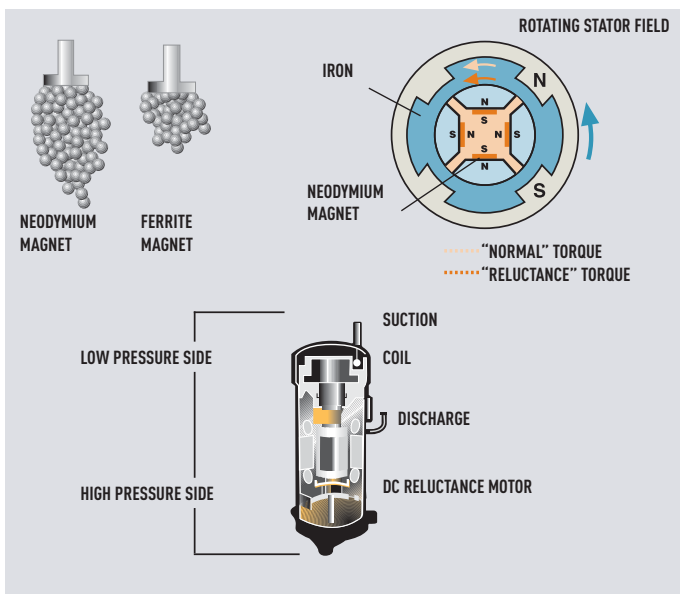


NEW DC RELUCTANCE COMPRESSOR MX4 AND ME4

Neodymium magnets improve motor torque and increase compressor efficiency. They also achieve a 70% volume reduction.

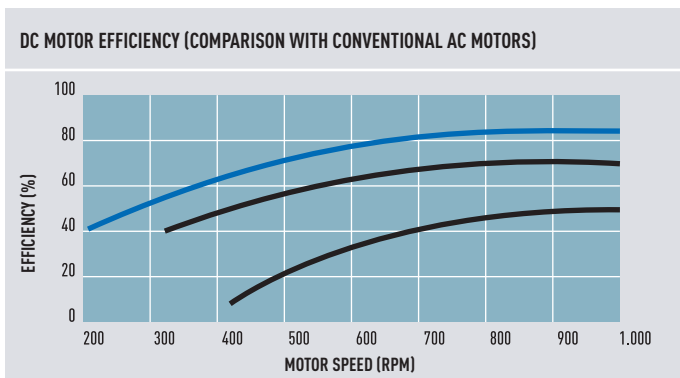
THE SECRET OF EVER GREATER EFFICIENCY: POWERFUL MAGNETS

The neodymium magnet is 12 times more powerful than the ferrite magnet.



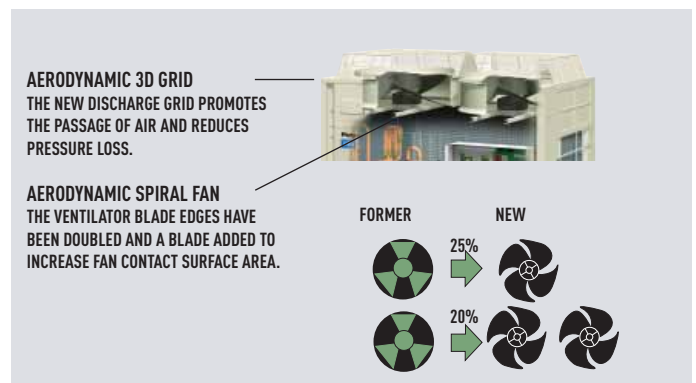
DC FAN MOTOR

For the first time ever these are included in the entire range (from 5 to 54 HP). Proven efficiency from 40%, especially at slow speeds.



NEW AERODYNAMIC FAN AND COIL GRID

These new elements achieve lower noise in large-volume fans, and they offer a compact cover design along with the compressor technology.

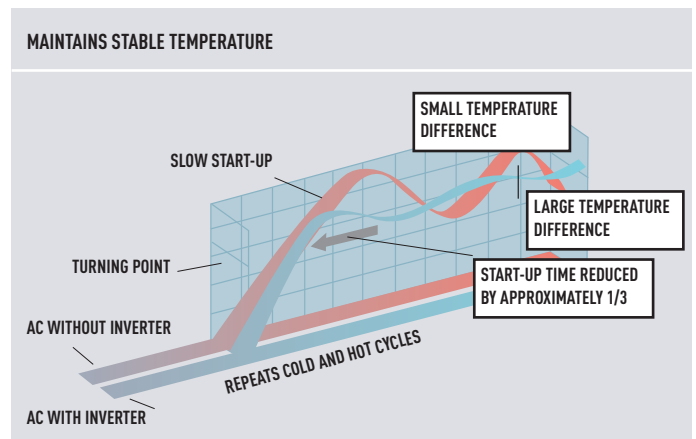


R410A REFRIGERANT

A refrigerant with "ZERO" impact on ozone depletion, as it does not contain chlorine. R410A is a new refrigerant mixture which exhibits superior safety characteristics. Even with zero ozone layer depletion potential R410A offers better performance than the conventional R22.

SMART CONTROL PROVIDES GREATER COMFORT MX4 Y ME4

An electronic expansion valve using a PID control continually adjusts the refrigerant volume to respond to load variations in the indoor units. So the VRF system maintains comfortable ambient temperatures at a virtually constant level without the typical variations in temperature of ON/OFF control systems.






MINI UM 5

THE WHOLE INDOOR RANGE WITH ONE SINGLE-PHASE OR THREE-PHASE OUTDOOR UNIT

Air conditioning spaces can now take on a new dimension. If you have bought a new property or residence which is still in the construction phase, or if you are refurbishing, Panasonic offers you the chance to enjoy global Mini UM 5 air conditioning.

Mini UM is the new range of air conditioners which harnesses Panasonic's experience in air conditioning buildings and large areas with its Urban Multi series with VRF R410A technology. Urban Multi's cutting edge technology is perfectly suited to medium-sized and small areas, with single-phase or three-phase power sources, together with advanced Inverter technology, opening up previously unimagined possibilities in the world of air conditioning.

ONE-PHASE & THREE-PHASE UNITS

Power	4 HP		5 HP		6 HP	
						
Reference	U-4ML5DPQ	U-4ML5XPQ	U-5ML5DPQ	U-5ML5XPQ	U-6ML5DPQ	U-6ML5XPQ
Maximum combination of indoor units	6	6	8	8	9	9
Power rates	50 - 130	50 - 130	62 - 162	62 - 162	70 - 182	70 - 182
Power supply (V)	230	400	230	400	230	400



All the UM 4 series indoor units are available for the single and three-phase Mini UM units. You can check the characteristics of these indoor units on pages 144 to 155 of this catalogue.



ADVANTAGES OF MINI UM 5

- Automatic refrigerant loading system to ensure optimal operation and activation of non-invasive analysis of refrigerant escape tests.
- Complete freedom of choice. Up to 11 different indoor unit models. Choose the best option according to the architectural and decoration criteria.
- Three outdoor unit power levels: 4,5 and 6 HP, single- and three-phase.
- Inverter Technology with R410A gas, "Greater comfort and economy with less consumption".

- Best use of space. A single outdoor unit feeds up to 9 indoor units.
- Easy to install. Thanks to its small size, the outdoor unit can be hoisted to the roof using the building's lift.
- Total control. You can get optimal centralised or individualised climate management in your home, or using the Urban Controller PC-based software program.

OUTDOOR UNIT TECHNICAL CHARACTERISTICS

Model			U-4ML5DPQ	U-4ML5XPQ	U-5ML5DPQ	U-5ML5XPQ	U-6ML5DPQ	U-6ML5XPQ
Cooling	Capacity	kW	11.2	11.2	14.0	14.0	15.5	15.5
	Consumption	kW	2.81	2.89	3.51	3.61	4.53	4.65
	EER		3.99	3.88	3.99	3.88	3.42	3.33
	Noise level	dB(A)	50	50	51	51	53	53
Heating	Capacity	kW	12.5	12.5	16.0	16.0	18.0	18.0
	Consumption	kW	2.74	2.82	3.85	3.97	4.57	4.70
	COP		4.56	4.43	4.15	4.03	3.94	3.83
	Noise level	dB(A)	52	52	53	53	55	55
Connectable indoor units			6	6	8	8	9	9
Power supply	V		230	400	230	400	230	400
Refrigerant gas			R410A	R410A	R410A	R410A	R410A	R410A
Dimensions	H x W x D	mm	1,345 x 900 x 320	1,345 x 900 x 320	1,345 x 900 x 320	1,345 x 900 x 320	1,345 x 900 x 320	1,345 x 900 x 320
Weight		Kg	120	120	120	120	120	120
Diameter of pipes		Inches	3/8 - 5/8	3/8 - 5/8	3/8 - 5/8	3/8 - 5/8	3/8 - 3/4	3/8 - 3/4
Max. pipe length		m	300	300	300	300	300	300
Max. length between indoor and outdoor units		m	150	150	150	150	150	150
Max. height between outdoor / indoor units		m	50 (40 m if the outdoor unit is below the indoor unit)					
Max. height between indoor units		m	15					
Operating range		°C	(Cooling) -5 a 46 / (Heating) -20 a 15.5					

Complies with regulation on harmonics in force from February 2008 (EN 61000-312)
 Calculations of capacities and consumptions based on the use of indoor units (S-**UM4JPQ)

NEW OUTDOOR UNITS, MORE POWER IN LESS SPACE. MX4 RANGE

THE MX4 OUTDOOR UNITS FOR THE URBAN MULTI SYSTEM OFFER EVEN MORE ADVANTAGES THAN TRADITIONAL UNITS. NOW YOU CAN DESIGN AROUND YOUR SPACE CONSTRAINTS IN ANY COMBINATION YOU NEED WITHIN THE SCOPE OF 5 TO 54 HP AND 3 OUTDOOR UNITS. A COMPACT, ELEGANT DESIGN AND MULTIPLE POWER STEPS, REDUCED INSTALLATION TIME AND AUTOMATIC REFRIGERANT LOADING. JUST SOME OF THE ADVANTAGES WHICH MAKE OUR EQUIPMENT THE MOST RELIABLE ON THE MARKET.



RANGE OF MX4 OUTDOOR UNITS

Outdoor units 5 HP 8 HP 10 HP 12 HP 14 HP 16 HP 18 HP 20 HP 22 HP 24 HP 26 HP



Minimum space	Heat pump	5MX4	8MX4	10MX4	12MX4	14MX4	16MX4	18MX4	20MX4	22MX4	24MX4	26MX4
	Number of outdoor units	1	1	1	1	1	1	1	2	2	2	2
Maximum COP	Heat pump	-	-	-	-	-	16MX4	18MX4	20MX4	22MX4	24MX4	26MX4
	Number of outdoor units	-	-	-	-	-	2	2	2	2	3	3
Max. No. units connectable ¹⁾		8	13	16	19	23	26	29	32	35	39	42
Power rates ²⁾		62.5-250	100-400	125-500	150-600	175-700	200-800	225-900	250-800	275-880	300-960	325-1,040

1) Maximum number of indoor units connectable for Minimum Space Combination. For other combinations consult Panasonic's Technical Department.
2) 200% simultaneity is permitted when the indoor unit models are of the S-NM3HPQ, S-FM3HPQ and S-KM3HPR type. System simultaneity cannot exceed 130% with S-20UM4JPQ and S-25UM4JPQ models connected.

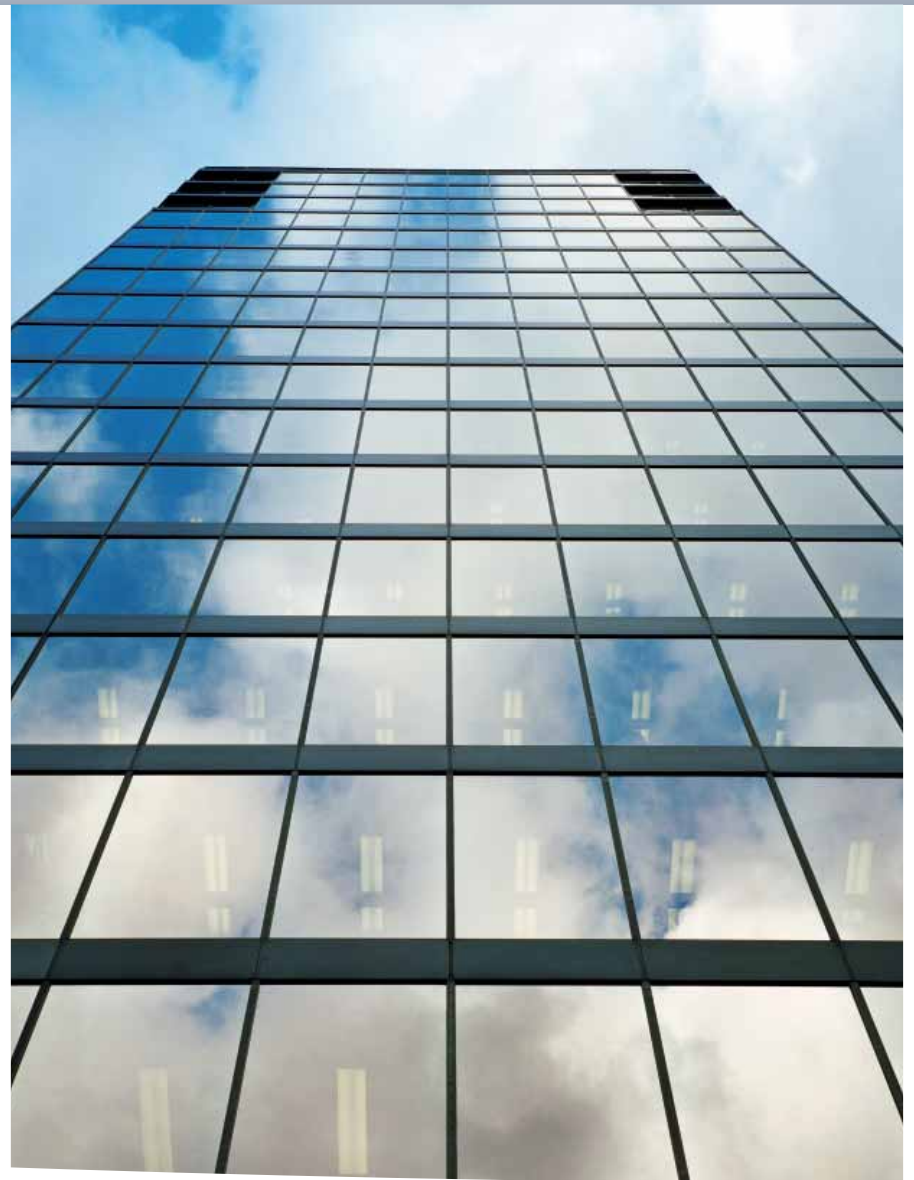


28 HP 30 HP 32 HP 34 HP 36 HP | 38 HP 40 HP 42 HP 44 HP 46 HP 48 HP 50 HP 52 HP 54 HP



28MX4	30MX4	32MX4	34MX4	36MX4	38MX4	40MX4	42MX4	44MX4	46MX4	48MX4	50MX4	52MX4	54MX4
2	2	2	2	2	3	3	3	3	3	3	3	3	3
28MX4	30MX4	32MX4	34MX4	36MX4	-	-	-	-	-	-	-	-	-
3	3	3	3	3	-	-	-	-	-	-	-	-	-
45	49	52	55	58	61	64	64	64	64	64	64	64	64
350-1,120	375-1,200	400-1,280	425-1,360	450-1,440	475-1,235	500-1,300	525-1,365	550-1,430	575-1,495	600-1,560	625-1,625	650-1,690	675-1,755

MX4 SERIES MINIMUM SPACE HEAT PUMP



Independent unit models										Combination unit models			
Power		5 HP	8 HP	10 HP	12 HP	14 HP	16 HP	18 HP		20 HP	22 HP	24 HP	26 HP
400V (III) 50 Hz		U-5MX4XPQ	U-8MX4XPQ1	U-10MX4XPQ	U-12MX4XPQ	U-14MX4XPQ-1	U-16MX4XPQ-1	U-18MX4XPQ-1		U-8MX4XPQ1 U-12MX4XPQ	U-10MX4XPQ U-12MX4XPQ	U-12MX4XPQ U-12MX4XPQ	U-8MX4XPQ1 U-18MX4XPQ-1
Cooling capacity ¹⁾	kW	14.0	22.4	28.0	33.5	40.0	45.0	49.0		55.9	61.5	67.0	71.4
	Kcal/h	12,040	19,264	24,080	28,810	34,400	38,700	42,140		48,074	52,890	57,620	61,404
Heating capacity ²⁾	kW	16.0	25.0	31.5	37.5	45.0	50.0	56.5		62.5	69.0	75.0	81.5
	Kcal/h	13,760	21,500	27,090	32,250	38,700	43,000	48,590		53,750	59,340	64,500	70,090
Consumption	Cooling kW	3.52	5.22	7.42	9.62	12.40	14.20	16.20		14.71	17.00	19.20	21.80
	Heating kW	4.00	5.56	7.70	9.44	11.30	12.90	15.30		14.95	17.10	18.90	21.20
EER		3.98	4.29	3.77	3.48	3.23	3.17	3.02		3.80	3.62	3.49	3.41
COP		4.00	4.50	4.09	3.97	3.98	3.88	3.69		4.18	4.04	3.97	3.94
Airflow rate	m ³ /min	95	171	185	196	233	233	239		367	381	392	410
Sound pressure level ³⁾	dB(A)	54	57	58	60	60	60	63		-	-	-	-
Dimensions	HxWxD	mm	1,680x635x765	1,680x930x765	1,680x930x765	1,680x930x765	1,680x1,240x765	1,680x1,240x765	1,680x1,240x765	1,680x1,765x765	1,680x1,765x765	1,680x1,765x765	1,680x2,170x765
Weight		Kg	159	187	240	240	317	317	325	427	480	480	512
Piping connection	Gas	Inches	5/8	3/4	7/8	1-1/8	1-1/8	1-1/8	1-1/8	1-1/8	1-1/8	1-3/8	1-3/8
Refrigerant	Liquid	Inches	3/8	3/8	3/8	1/2	1/2	1/2	5/8	5/8	5/8	5/8	3/4
Compressor	Number/type		1 (inv)	1 (inv)	2 (1xin)	2 (1xin), 1 x (on off)	3 (1xin), 2 x (on off)	3 (1xin), 2 x (on off)	3 (1xin), 1 x (on off)	3 (2xin), 2 x (on off)	4 (2xin), 2 x (on off)	4 (2xin), 2 x (on off)	4 (2xin), 3 x (on off)
	Capacity control %		28 ~ 100	20 ~ 100	14 ~ 100	14 ~ 100	10 ~ 100	10 ~ 100	9 ~ 100	8 ~ 100	7 ~ 100	6 ~ 100	6 ~ 100
Rated output	Motor kW		2.8	3.8	1.2	2.8 + 4.5	0.03 + (4.5x2)	1.4 + (4.5x2)	3.0 + (4.5x2)	3.8 + 2.8 + 4.5	1.2 + 2.8 + 4.5	2.8 + 2.8 + (4.5x2)	3.8 + 3.0 + (4.5x2)
	Fan	Number/type	Unit	1 x helicoidal fan	1 x helicoidal fan	1 x helicoidal fan	1 x helicoidal fan	2 x helicoidal fan	2 x helicoidal fan	2 x helicoidal fan	2 x helicoidal fan	2 x helicoidal fan	2 x helicoidal fan
	Motor	kW	0.35	0.75	0.75	0.75	0.35 + 0.35	0.35 + 0.35	0.75 + 0.75	0.75 + 0.75	0.75 + 0.75	0.75 + 0.75	0.75 + 0.75
Oil (type and load)	Synthetic oil (Ester)	L	1.7	2.10	3.9	3.9	5.7	5.7	5.8	2.1 + 3.9	3.9 + 3.9	3.9 + 3.9	2.1 + 5.8
Daphne FVC68D													
Refrigerant (load)			6.2	7.7	8.4	8.6	11.3	11.5	11.7	7.7 + 8.6	8.4 + 8.6	8.6 + 8.6	7.7 + 11.7

Technical data for minimum space combinations.
 1) Cooling capacity calculated based on an indoor temperature of 27 °C DB (dry bulb), 19 °C WB (wet bulb) and an outdoor temperature of 35 °C DB / 7.5 m refrigerant gas pipe (horizontal).
 2) Heating capacity calculated based on an indoor temperature of 20 °C and an outdoor temperature of 7 °C DB, 6 °C WB / 7.5 m refrigerant gas pipe (horizontal).
 3) The sound level for a combination of modules is determined by the sound level of the individual modules.



5 HP



8,10,12 HP



14, 16, 18 HP

COMBINATION MX4 STD

	U-5MX4XPQ	U-8MX4XPQ1	U-10MX4XPQ	U-12MX4XPQ	U-14MX4XPQ-1	U-16MX4XPQ-1	U-18MX4XPQ-1
HEAT PUMP							
U-5MX4XPQ	1						
U-8MX4XPQ1		1					
U-10MX4XPQ			1				
U-12MX4XPQ				1			
U-14MX4XPQ-1					1		
U-16MX4XPQ-1						1	
U-18MX4XPQ-1							1
MULTIPLE COMBINATION WITH 2 OUTDOOR UNITS							
20 HP		1		1			
22 HP			1	1			
24 HP				2			
26 HP		1					1
28 HP			1				1
30 HP				1			1
32 HP					1		1
34 HP						1	1
36 HP							2
MULTIPLE COMBINATION WITH 3 OUTDOOR UNITS							
38 HP		1		1			1
40 HP			1	1			1
42 HP				2			1
44 HP		1					2
46 HP			1				2
48 HP				1			2
50 HP					1		2
52 HP						1	2
54 HP							3

28 HP	30 HP	32 HP	34 HP	36 HP	38 HP	40 HP	42 HP	44 HP	46 HP	48 HP	50 HP	52 HP	54 HP
U-10MX4XPQ	U-12MX4XPQ	U-14MX4XPQ-1	U-16MX4XPQ-1	U-18MX4XPQ-1	U-8MX4XPQ1	U-10MX4XPQ	U-12MX4XPQ	U-14MX4XPQ-1	U-16MX4XPQ-1	U-18MX4XPQ-1	U-10MX4XPQ	U-12MX4XPQ	U-14MX4XPQ-1
U-18MX4XPQ-1	U-18MX4XPQ-1	U-18MX4XPQ-1	U-18MX4XPQ-1	U-18MX4XPQ-1	U-18MX4XPQ-1	U-12MX4XPQ	U-12MX4XPQ	U-12MX4XPQ	U-18MX4XPQ-1	U-18MX4XPQ-1	U-18MX4XPQ-1	U-18MX4XPQ-1	U-18MX4XPQ-1
77.0	82.5	89.0	94.0	98.0	105.0	111.0	116.0	120.4	126.0	132.0	138.0	143.0	147
66,220	70,950	76,540	80,840	84,280	90,300	95,460	99,760	103,544	108,360	113,520	118,680	122,980	126,420
87.5	95.0	100.0	108.0	113.0	119.0	126.0	132.0	138.0	145.0	151.0	158.0	163.0	170.0
75,250	81,700	86,000	92,880	97,180	102,340	108,360	113,520	118,680	124,700	129,860	135,880	140,180	146,200
23.60	25.80	28.60	30.40	32.40	30.60	33.20	35.40	37.05	39.80	42.00	44.80	46.60	48.60
23.00	24.70	26.60	28.20	30.60	30.12	32.40	34.20	35.94	38.30	40.00	41.90	43.50	45.90
3.26	3.20	3.11	3.09	3.02	3.43	3.34	3.28	3.17	3.14	3.14	3.08	3.07	3.02
3.80	3.85	3.76	3.83	3.69	3.95	3.89	3.86	3.78	3.79	3.78	3.77	3.75	3.70
424	435	472	472	478	606	620	631	649	663	674	711	711	717
-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,680x2,170x765	1,680x2,170x765	1,680x2,480x765	1,680x2,480x765	1,680x2,480x765	1,680x3,100x765	1,680x3,100x765	1,680x3,100x765	1,680x3,410x765	1,680x3,410x765	1,680x3,410x765	1,680x3,720x765	1,680x3,720x765	1,680x3,720x765
565	565	642	642	650	752	805	805	837	890	890	967	967	975
1-3/8	1-3/8	1-3/8	1-3/8	1-5/8	1-5/8	1-5/8	1-5/8	1-5/8	1-5/8	1-5/8	1-5/8	1-5/8	1-5/8
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5 (2xinv)	5 (2xinv)	6 (2xinv)	6 (2xinv)	6 (3xinv)	6 (3xinv)	8 (3xinv)	7 (3xinv)	7 (3xinv)	8 (3xinv)	8 (3xinv)	9 (3xinv)	9 (3xinv)	9 (3xinv)
3 x (on off)	4 x (on off)	4 x (on off)	4 x (on off)	3 x (on off)	5 x (on off)	4 x (on off)	4 x (on off)	5 x (on off)	5 x (on off)	6 x (on off)	6 x (on off)	6 x (on off)	6 x (on off)
5 ~ 100	5 ~ 100	5 ~ 100	5 ~ 100	4 ~ 100	4 ~ 100	4 ~ 100	4 ~ 100	4 ~ 100	3 ~ 100	3 ~ 100	3 ~ 100	3 ~ 100	3 ~ 100
1.2 + 3.0 + (4.5x2)	2.8 + 3.0 + (4.5x3)	0.3 + 3.0 + (4.5x4)	1.4 + 3.0 + (4.5x4)	3.0 + 3.0 + (4.5x4)	3.8 + 2.8 + (4.5x3)	1.2 + 2.8 + (4.5x4)	2.8 + 2.8 + (4.5x4)	3.8 + 3.0 + (4.5x4)	1.2 + 3.0 + (4.5x5)	2.8 + 3.0 + (4.5x5)	0.3 + 3.0 + (4.5x6)	1.4 + 3.0 + (4.5x6)	3.0 + 3.0 + (4.5x6)
3 x helicoidal fan	3 x helicoidal fan	4 x helicoidal fan	4 x helicoidal fan	4 x helicoidal fan	4 x helicoidal fan	4 x helicoidal fan	4 x helicoidal fan	5 x helicoidal fan	5 x helicoidal fan	5 x helicoidal fan	6 x helicoidal fan	6 x helicoidal fan	6 x helicoidal fan
0.75 + (2x0.75)	0.75 + (2x0.75)	(2x0.35) + (2x0.75)	(2x0.35) + (2x0.75)	(2x0.75) + (2x0.75)	750 + 750 + (2x750)	750 + 750 + (2x750)	750 + 750 + (2x750)	750 + (2x750) + (2x750)	750 + (2x750) + (2x750)	750 + (2x750) + (2x750)	(2x350) + (2x750)	(2x350) + (2x750)	(2x750) + (2x750)
3.9 + 5.8	3.9 + 5.8	5.7 + 5.8	5.7 + 5.8	5.8 + 5.8	2.1 + 3.9 + 5.8	3.9 + 3.9 + 5.8	3.9 + 3.9 + 5.8	2.1 + 5.8 + 5.8	3.9 + 5.8 + 5.8	3.9 + 5.8 + 5.8	5.7 + 5.8 + 5.8	5.7 + 5.8 + 5.8	5.8 + 5.8 + 5.8
8.4 + 11.7	8.6 + 11.7	11.3 + 11.7	11.5 + 11.7	11.7 + 11.7	7.7 + 8.6 + 11.7	8.4 + 8.6 + 11.7	8.6 + 8.6 + 11.7	7.7 + 11.7 + 11.7	8.4 + 11.7 + 11.7	8.6 + 11.7 + 11.7	11.3 + 11.7 + 11.7	11.5 + 11.7 + 11.7	11.7 + 11.7 + 11.7

MX4 SERIES MAXIMUM COP HEAT PUMP

R410A
environmentally
friendly refrigerant



Combination unit models

Power 380, 415V (III) 50 Hz			16 HP U-8MX4XPQ1 U-8MX4XPQ1	18 HP U-8MX4XPQ1 U-10MX4XPQ	20 HP U-10MX4XPQ U-10MX4XPQ	22 HP U-10MX4XPQ U-12MX4XPQ
Cooling capacity ¹⁾		kW	44.8	50.4	56.0	61.5
		Kcal/h	38,528	43,344	48,160	52,890
Heating capacity ²⁾		kW	50.0	56.5	63.0	69.0
		Kcal/h	43,000	48,590	54,180	59,340
Consumption	Cooling	kW	10.44	12.6	14.8	17.0
	Heating	kW	11.11	13.23	15.4	17.1
EER		kW	4.29	4.00	3.78	3.62
COP		kW	4.50	4.27	4.09	4.04
Airflow rate		m ³ /min	171 + 171	171 + 185	185 + 185	185 + 185
Sound pressure level ³⁾		dB(A)	-	-	-	-
Dimensions		H x W x D	2 x (1,680 x 930 x 765)	2 x (1,680 x 930 x 765)	2 x (1,680 x 930 x 765)	2 x (1,680 x 930 x 765)
Weight		Kg	374	427	480	480
Piping connection	Gas	Inches	1-1/8	1-1/8	1-1/8	1-1/8
Refrigerant	Liquid	Inches	1/2	5/8	5/8	5/8
Compressor	Number/type		2 x inv	3 (2 x inv. 1 x on off)	4 (2 x inv. 2 x on off)	4 (2 x inv. 2 x on off)
	Capacity control	%	-	-	-	-
	Motor Rated output	kW	3.8 + 3.8	3.8 + 1.2 + 4.5	1.2 + 1.2 (4.5 x 2)	1.2 + 2.8 (4.5 x 2)
Fan	Number/type	Unit	2 x helicoidal fan	2 x helicoidal fan	2 x helicoidal fan	2 x helicoidal fan
	Motor Rated output	kW	0.75 + 0.75	0.75 + 0.75	0.75 + 0.75	0.75 + 0.75
Oil (type and load) Daphne FVC68D	Synthetic oil	L	2.1 + 2.1	2.1 + 3.9	3.9 + 3.9	3.9 + 3.9
Refrigerant (load)		Kg	7.7 + 7.7	7.7 + 8.4	8.4 + 8.4	8.4 + 8.6

Technical data for minimum space combination.

1) Cooling capacity calculated based on an indoor temperature of 27 °C DB (dry bulb), 19 °C WB (wet bulb) and an outdoor temperature of 35 °C DB / 7.5 m refrigerant gas pipe (horizontal).

2) Heating capacity calculated based on an indoor temperature of 20 °C and an outdoor temperature of 7 °C DB, 6 °C WB / 7.5 m refrigerant gas pipe (horizontal). Safety devices: high pressure switch, impulse fan overload protection, Inverter overload protection, plug fuse. Finishes: Ivory white.

3) The sound level for a combination of modules is determined by the sound level of the individual modules.



8,10,12 HP



14, 16, 18 HP

HIGH COP MX4 COMBINATION

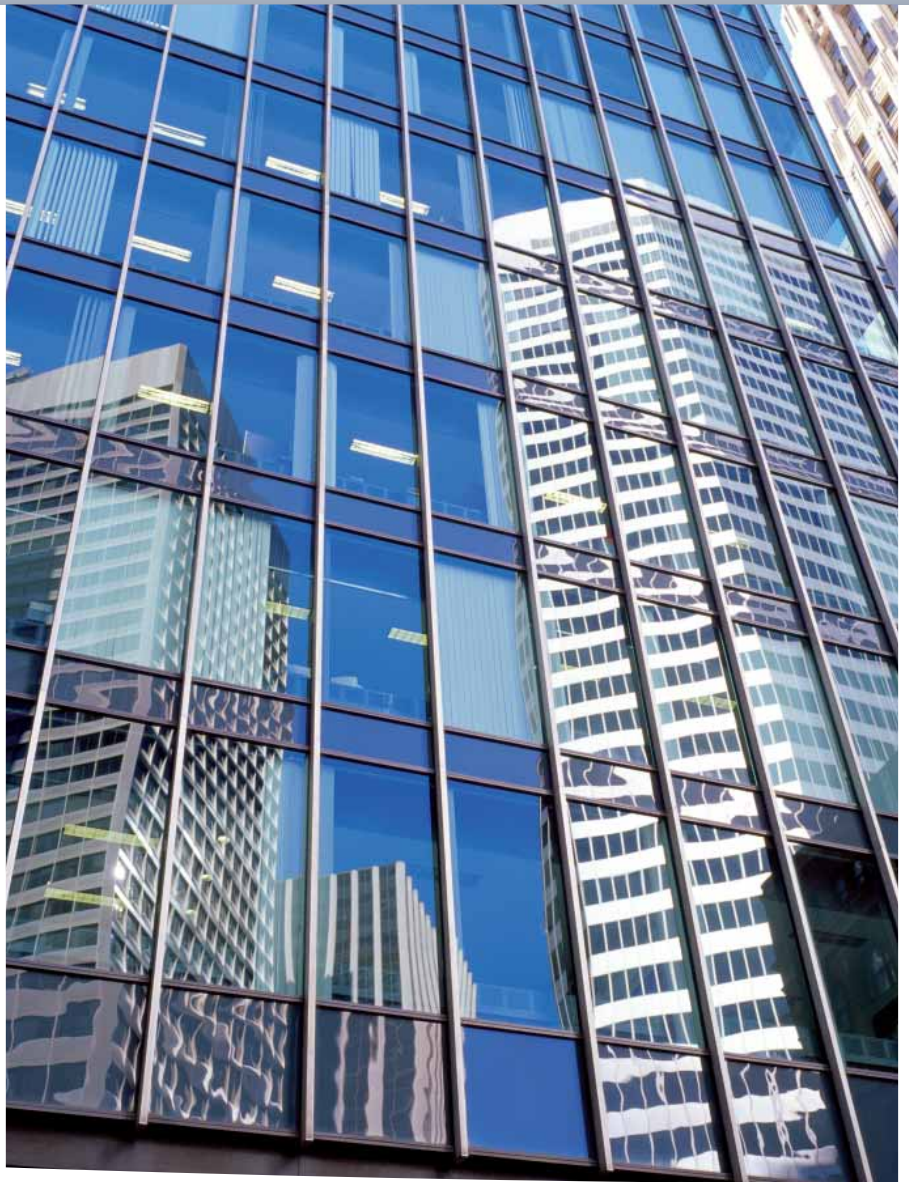
	U-5MX4XPQ	U-8MX4XPQ1	U-10MX4XPQ	U-12MX4XPQ	U-14MX4XPQ-1	U-16MX4XPQ-1	U-18MX4XPQ-1
16 HP		2					
18 HP		1	1				
20 HP			2				
22 HP			1	1			
24 HP		3					
26 HP		2	1				
28 HP		1	2				
30 HP			3				
32 HP		1		2			
34 HP			1	2			
36 HP				3			

24 HP	26 HP	28 HP	30 HP	32 HP	34 HP	36 HP
U-8MX4XPQ1	U-8MX4XPQ1	U-8MX4XPQ1	U-10MX4XPQ	U-8MX4XPQ1	U-10MX4XPQ	U-12MX4XPQ
U-8MX4XPQ1	U-8MX4XPQ1	U-10MX4XPQ	U-10MX4XPQ	U-12MX4XPQ	U-12MX4XPQ	U-12MX4XPQ
U-8MX4XPQ1	U-10MX4XPQ	U-10MX4XPQ	U-10MX4XPQ	U-12MX4XPQ	U-12MX4XPQ	U-12MX4XPQ
67.2	72.8	78.4	84.0	89.4	95.0	101.0
57,792	62,608	67,424	72,240	76,884	81,700	86,860
75.0	81.5	88.0	94.5	100.0	107.0	113.0
64,500	70,090	75,680	81,270	86,000	92,020	97,180
15.66	17.80	19.03	22.3	24.46	26.7	28.9
16.67	18.78	19.82	23.1	24.44	26.6	28.3
4.29	4.09	4.12	3.77	3.65	3.56	3.49
4.50	4.34	4.44	4.09	4.09	4.02	3.99
171 + 171 + 171	171 + 171 + 185	171 + 185 + 185	185 + 185 + 185	171 + 196 + 196	185 + 196 + 196	196 + 196 + 196
-	-	-	-	-	-	-
3 x (1,680 x 930 x 765)	3 x (1,680 x 930 x 765)	3 x (1,680 x 930 x 765)	3 x (1,680 x 930 x 765)	3 x (1,680 x 930 x 765)	3 x (1,680 x 930 x 765)	3 x (1,680 x 930 x 765)
561	614	667	720	667	720	720
1-3/8	1-3/8	1-3/8	1-3/8	1-3/8	1-3/8	1-5/8
5/8	3/4	3/4	3/4	3/4	3/4	3/4
3 x inv.	4 (3 x inv. 1 x on off)	5 (3 x inv. 2 x on off)	6 (3 x inv. 3 x on off)	5 (3 x inv. 2 x on off)	6 (3 x inv. 3 x on off)	6 (3 x inv. 3 x on off)
-	-	-	-	-	-	-
3.8 + 3.8 + 3.8	3.8 + 3.8 + 1.2 + 4.5	1.2 + 1.2 + 1.2 + (4.5 x 2)	1.2 + 1.2 + 1.2 + (4.5 x 3)	3.8 + 2.8 + 2.8 + (4.5 x 2)	1.2 + 2.8 + 2.8 + (4.5 x 3)	2.8 + 2.8 + 2.8 + (4.5 x 3)
2 x helicoidal fan	3 x helicoidal fan	3 x helicoidal fan	3 x helicoidal fan	3 x helicoidal fan	3 x helicoidal fan	3 x helicoidal fan
0.75 + 0.75 + 0.75	0.75 + 0.75 + 0.75	0.75 + 0.75 + 0.75	0.75 + 0.75 + 0.75	0.75 + 0.75 + 0.75	0.75 + 0.75 + 0.75	0.75 + 0.75 + 0.75
2.1 + 2.1 + 2.1	2.1 + 2.1 + 3.9	2.1 + 3.9 + 3.9	3.9 + 3.9 + 3.9	2.1 + 3.9 + 3.9	3.9 + 3.9 + 3.9	3.9 + 3.9 + 3.9
7.7 + 7.7 + 7.7	7.7 + 7.7 + 8.4	7.7 + 8.4 + 8.4	8.6 + 8.6 + 8.6	7.7 + 8.6 + 8.6	8.4 + 8.6 + 8.6	8.4 + 8.6 + 8.6

(5/7,5/1)

ME4XPQ SERIES HEAT RECOVERY

R410A
environmentally
friendly refrigerant



Independent Unit models

		8 HP	10 HP	12 HP	14 HP	16 HP
		U-8ME4XPQ1	U-10ME4XPQ	U-12ME4XPQ1	U-14ME4XPQ	U-16ME4XPQ
Power	380, 415V (III) 50Hz					
Cooling capacity ¹⁾	kW	22.4	28	33.5	40	45
	Kcal/h	19264	24,080	28,810	34,400	38,700
Heating capacity ²⁾	kW	25	31.5	37.5	45	50
	Kcal/h	21,500	27,090	32,250	38,700	43,000
Consumption	Cooling kW	5.20	7.09	8.72	11.40	14.1
	Heating kW	5.71	7.38	8.84	11.00	12.8
EER		4.31	3.95	3.84	3.51	3.19
COP		4.38	4.27	4.24	4.09	3.91
Airflow rate (Rated at 230V)	m ³ /min	190	190	210	235	240
Sound pressure level dB(A)		57	60	62	63	61
Dimensions	H x W x D	mm	1,680x1,300x765	1,680x1,300x765	1,680x1,300x765	1,680x1,300x765
Weight	kg	331	331	331	339	339
Piping connection	Gas	Inches	Ø 3/4 ⁴⁾	Ø 7/8 ⁴⁾	Ø 1-1/8 ⁴⁾	Ø 1-1/8 ⁴⁾
Refrigerant	Discharge gas	Inches	Ø 5/8 ⁴⁾	Ø 3/4 ⁴⁾	Ø 3/4 ⁴⁾	Ø 7/8 ⁴⁾
	Liquid	Inches	Ø 3/8 ³⁾	Ø 3/8 ³⁾	Ø 1/2 ³⁾	Ø 1/2 ³⁾
	Oil balancing	Inches	-	-	-	-
Compressor	Number/type		2 x comp. hermetic coil	2 x comp. hermetic coil	2 x comp. hermetic coil	2 x comp. hermetic coil
	Capacity control	%	20-100	14-100	14-100	10-100
Motor	kW	(1.0+4.5) x1	(2.2+4.5) x1	(3.3+4.5) x1	(3.8+3.8) x1	(4.4+4.4) x1
	Rated output					
Fan	Number/type	Unit	2 x helicoidal fan	2 x helicoidal fan	2 x helicoidal fan	2 x helicoidal fan
	Rated output	kW	0.35 x 2	0.35 x 2	0.35 x 2	0.75 x 2
Oil (type and load)	DAPHNE FVC68D	L	1.9+1.6	1.9+1.6	1.9+1.6	1.9+1.6+1.6
Refrigerant (load)	Kg	10.3	10.6	10.8	11.1	11.1

Combination unit models

		18 HP	20 HP	22 HP	24 HP
		U-8ME4XPQM1	U-8ME4XPQM1	U-10ME4XPQM	U-12ME4XPQM
		U-10ME4XPQM	U-12ME4XPQM	U-12ME4XPQM	U-12ME4XPQM
Cooling capacity ¹⁾	kW	50.5	56	61.5	67
	Kcal/h	43,344	48,074	52,890	57,620
Heating capacity ²⁾	kW	56.5	62.5	69	75
	Kcal/h	48,590	53,750	59,340	64,500
Consumption	Cooling kW	12.70	14.90	17.0	19.20
	Heating kW	13.40	15.20	17.1	18.90
EER		3.99	3.77	3.62	3.49
COP		4.20	4.12	4.04	3.97
Airflow rate (Rated at 230V)	m ³ /min	365	380	385	400
Sound pressure level dB(A)		62	62	63	62
Dimensions	H x W x D	mm	(1,680x930x765)+(1,680x930x765)	(1,680x930x765)+(1,680x930x765)	(1,680x930x765)+(1,680x930x765)
Weight	kg	204+254	204+254	254+254	254+254
Piping connection	Gas	Inches	Ø 1-1/8 ⁴⁾	Ø 1-1/8 ⁴⁾	Ø 1-1/8 ⁴⁾
Refrigerant	Discharge gas	Inches	Ø 7/8 ⁴⁾	Ø 7/8 ⁴⁾	Ø 1-1/8 ⁴⁾
	Liquid	Inches	Ø 5/8 ³⁾	Ø 5/8 ³⁾	Ø 5/8 ³⁾
	Oil balancing	Inches	Ø 1/4	Ø 1/4	Ø 1/4
Compressor	Number/type		3 x comp. hermetic coil	3 x comp. hermetic coil	4 x comp. hermetic coil
	Capacity control	%	9-100	7-100	7-100
Motor	kW	(2.2+4.5) x1+4.7x1	(3.5+4.5) x1+4.7x1	(3.5+4.5) x1+(2.2+4.5) x1	(3.5+4.5) x2
	Rated output				
Fan	Number/type	Unit	3 x helicoidal fan	3 x helicoidal fan	3 x helicoidal fan
	Rated output	kW	(0.75x1)+(0.75x1)	(0.75x1)+(0.75x1)	(0.75x1)+(0.75x1)
Oil (type and load)	DAPHNE FVC68D	L	(1.9+1.6)+(1.9+1.6)	(1.9+1.6)+(1.9+1.6)	(1.9+1.6)+(1.9+1.6+1.6)
Refrigerant (load)	Kg	8.2+9.0	8.2+9.1	9.0+9.1	9.1+9.1

1. Cooling capacity calculated based on an indoor temperature of 27 °C DB (dry bulb), 20 °C WB (wet bulb) and an outdoor temperature of 35 °C DB / 7.5 m refrigerant gas pipe (horizontal).
 2. Heating capacity calculated based on an indoor temperature of 20 °C and an outdoor temperature of 7 °C DB, 6 °C WB / 7.5 m refrigerant gas pipe (horizontal).

3. Flared connection.
 4. Welded joint.
 Safety devices: high pressure switch, impulse fan overload protection, Inverter overload protection, plug fuse. Finishes: Ivory white (5Y7,5/1)



POSSIBLE COMBINATIONS

HP	INDEPENDENT UNITS (8-16 HP)				
	U-8ME4XPQ1	U-10ME4XPQ	U-12ME4XPQ1	U-14ME4XPQ	U-16ME4XPQ
8	1				
10		1			
12			1		
14				1	
16					1
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					
42					
44					
46					
48					

COMBINATION

HP	UNITS (18-48 HP)				
	U-8ME4XPQM1	U-10ME4XPQM	U-12ME4XPQM	U-14ME4XPQM	U-16ME4XPQM
8					
10					
12					
14					
16					
18	1	1			
20	1	1	1		
22		1	1		
24			2		
26		1			1
28			1		1
30				1	1
32					2
34	1	1			1
36	1		1		1
38		1	1		1
40			2		1
42		1			2
44			1		2
46				1	2
48					3

26 HP	28 HP	30 HP	32 HP	34 HP	36 HP	38 HP	40 HP	42 HP	44 HP	46 HP	48 HP
U-10ME4XPQM	U-12ME4XPQM	U-14ME4XPQM	U-16ME4XPQM	U-8ME4XPQM1	U-8ME4XPQM1	U-10ME4XPQM	U-12ME4XPQM	U-12ME4XPQM	U-12ME4XPQM	U-14ME4XPQM	U-16ME4XPQM
U-16ME4XPQM	U-16ME4XPQM	U-16ME4XPQM	U-16ME4XPQM	U-10ME4XPQM	U-12ME4XPQM	U-12ME4XPQM	U-12ME4XPQM	U-16ME4XPQM	U-16ME4XPQM	U-16ME4XPQM	U-16ME4XPQM
73	78.5	85	90	95.5	101	107	112	118	124	130	135
62,780	67,510	73,100	77,400	82,044	86,860	92,020	96,320	101,480	106,640	111,800	116,100
81.5	87.5	95	100	107	113	119	125	132	138	145	150
70,090	75,250	81,700	86,000	92,020	97,180	102,340	107,500	113,520	118,680	124,700	129,000
21.60	23.80	26.60	28.40	26.90	29.10	31.20	33.4	35.80	38.00	40.80	42.60
20.60	22.30	24.20	25.80	26.30	28.10	30.00	31.80	33.50	35.20	37.10	38.70
3.38	3.30	3.20	3.17	3.56	3.48	3.43	3.35	3.30	3.26	3.19	3.17
3.96	3.92	3.93	3.88	4.06	4.02	3.97	3.93	3.94	3.92	3.91	3.88
415	430	460	460	595	610	615	630	645	660	690	690
63	63	63	63	64	64	65	64	65	65	65	65
(1,680x930x765)+ (1,680x1,240x765)	(1,680x930x765)+ (1,680x1,240x765)	(1,680x1,240x765)+ (1,680x1,240x765)	(1,680x1,240x765)+ (1,680x1,240x765)	(1,680x930x765) x2+ (1,680x1,240x765)	(1,680x930x765) x2+ (1,680x1,240x765)	(1,680x930x765) x2+ (1,680x1,240x765)	(1,680x930x765) x2+ (1,680x1,240x765)	(1,600x930x765) + (1,600x1,240x765) x2	(1,600x930x765) + (1,600x1,240x765) x2	(1,600x1,240x765) x3	(1,600x1,240x765) x3
254+334	254+334	334+334	334+334	204+254+334	204+254+334	254+254+334	254+254+334	254+334+334	254+334+334	334+334+334	34+334+334
Ø 1-3/8 ⁽⁴⁾	Ø 1-3/8 ⁽⁴⁾	Ø 1-3/8 ⁽⁴⁾	Ø 1-3/8 ⁽⁴⁾	Ø 1-3/8 ⁽⁴⁾	Ø 1-5/8 ⁽⁴⁾	Ø 1-5/8 ⁽⁴⁾	Ø 1-5/8 ⁽⁴⁾	Ø 1-5/8 ⁽⁴⁾	Ø 1-5/8 ⁽⁴⁾	Ø 1-5/8 ⁽⁴⁾	Ø 1-5/8 ⁽⁴⁾
Ø 1-1/8 ⁽⁴⁾	Ø 1-1/8 ⁽⁴⁾	Ø 1-1/8 ⁽⁴⁾	Ø 1-1/8 ⁽⁴⁾	Ø 1-1/8 ⁽⁴⁾	Ø 1-1/8 ⁽⁴⁾	Ø 1-3/8 ⁽⁴⁾	Ø 1-3/8 ⁽⁴⁾	Ø 1-3/8 ⁽⁴⁾	Ø 1-3/8 ⁽⁴⁾	Ø 1-3/8 ⁽⁴⁾	Ø 1-3/8 ⁽⁴⁾
Ø 3/4 ⁽⁴⁾	Ø 3/4 ⁽⁴⁾	Ø 3/4 ⁽⁴⁾	Ø 3/4 ⁽⁴⁾	Ø 3/4 ⁽⁴⁾	Ø 3/4 ⁽⁴⁾	Ø 3/4 ⁽⁴⁾	Ø 3/4 ⁽⁴⁾	Ø 3/4 ⁽⁴⁾	Ø 3/4 ⁽⁴⁾	Ø 3/4 ⁽⁴⁾	Ø 3/4 ⁽⁴⁾
Ø 1/4	Ø 1/4	Ø 1/4	Ø 1/4	Ø 1/4	Ø 1/4	Ø 1/4	Ø 1/4	Ø 1/4	Ø 1/4	Ø 1/4	Ø 1/4
5 x comp. hermetic coil	5 x comp. hermetic coil	6 x comp. hermetic coil	6 x comp. hermetic coil	6 x comp. hermetic coil	6 x comp. hermetic coil	7 x comp. hermetic coil	7 x comp. hermetic coil	8 x comp. hermetic coil	8 x comp. hermetic coil	9 x comp. hermetic coil	9 x comp. hermetic coil
6-100	6-100	5-100	5-100	5-100	5-100	5-100	4-100	4-100	4-100	4-100	4-100
(3.2+4.5+4.5) x1+ (2.2+4) x1	(3.2+4.5+4.5) x1+ (3.5+4.5) x1	(3.2+4.5+4.5)+ (1.9+4.5+4.5) x1	(3.2+4.5+4.5)+x2	(3.2+4.5+4.5) x1+ (3.5+4.5) x1+ 4.5) x1	(3.2+4.5+4.5) x1+ (3.5+4.5) x1+ 4.5) x1	(3.2+4.5+4.5) x1+ (3.5+4.5) x1+ (2.2+4.5) x1	(3.2+4.5+4.5) x1+ (3.5+4.5) x2	(3.2+4.5+4.5) x2+ (2.2+4.5) x1	(3.2+4.5+4.5) x2+ (3.5+4.5) x1	(3.2+4.5+4.5) x2+ (1.9+4.5+4.5) x1	(3.2+4.5+4.5) x3
3 x helicoidal fan (0.75x1)+(0.35x2)	3 x helicoidal fan (0.75x1)+(0.35x2)	4 x helicoidal fan (0.75x1)+(0.35x2)	4 x helicoidal fan (0.35x2) x 2	4 x helicoidal fan (0.75x1)+ (0.75x1)+(0.35x2)	4 x helicoidal fan (0.75x1)+ (0.75x1)+(0.35x2)	4 x helicoidal fan (0.75x1)+(0.35x2)	4 x helicoidal fan (0.75x2)+ (0.35x2) x 2	5 x helicoidal fan (0.75x1)+ (0.35x2) x 2	5 x helicoidal fan (0.75x1)+ (0.35x2) x 2	6 x helicoidal fan (0.35x2)+ (0.35x2) x 2	6 x helicoidal fan (0.35x2) x 3
(1.9+1.6)+ (1.9+1.6+1.6)	(1.9+1.6)+ (1.9+1.6+1.6)	(1.9+1.6+1.6) (1.9+1.6+1.6)	(1.9+1.6+1.6)	(1.9+1.6)+ (1.9+1.6)+ (1.9+1.6+1.6)	(1.9+1.6)+ (1.9+1.6)+ (1.9+1.6+1.6)	(1.9+1.6)+ (1.9+1.6)+ (1.9+1.6+1.6)	(1.9+1.6)+ (1.9+1.6+1.6)+ (1.9+1.6+1.6)	(1.9+1.6)+ (1.9+1.6+1.6)+ (1.9+1.6+1.6)	(1.9+1.6)+ (1.9+1.6+1.6)+ (1.9+1.6+1.6)	(1.9+1.6+1.6)+ (1.9+1.6+1.6)+ (1.9+1.6+1.6)	(1.9+1.6+1.6)+ (1.9+1.6+1.6)+ (1.9+1.6+1.6)
9.0+11.7	9.1+11.7	11.7+11.7	11.7+11.7	8.2+9.0+11.7	8.2+9.1+11.7	9.0+9.1+11.7	9.1+9.1+11.7	9.0+11.7+11.7	9.1+11.7+11.7	11.7+11.7+11.7	11.7+11.7+11.7



RANGE OF INDOOR UNITS

Indoor units	Series	Refrigerant	0.8 HP	1.0 HP	1.3 HP	1.5 HP
Wall Inverter // Page 144	KM3	R410A environmentally friendly refrigerant	 S-20KM3HPR	 S-25KM3HPR	 S-32KM3HPR	 S-40KM3HPR
Ceiling Inverter // Page 145	TM3	R410A environmentally friendly refrigerant			 S-32TM3JPR	
Console // Page 1246	PM3	R410A environmentally friendly refrigerant	 S-20PM3HPS	 S-25PM3HPS	 S-32PM3HPS	 S-40PM3HPS
Console Without Casing // Page 147	RM3	R410A environmentally friendly refrigerant	 S-20RM3HPS	 S-25RM3HPS	 S-32RM3HPS	 S-40RM3HPS
1-Way Cassette // Page 148	DM3	R410A environmentally friendly refrigerant		 S-25DM3HPS	 S-32DM3HPS	 S-40DM3HPS
2-Way Cassette // Page 149	LM3	R410A environmentally friendly refrigerant	 S-20LM3HPQ	 S-25LM3HPQ	 S-32LM3HPQ	 S-40LM3HPQ
4-Way Cassette 60x60 // Page 150	YM3	R410A environmentally friendly refrigerant	 S-20YM3HPQ	 S-25YM3HPQ	 S-32YM3HPQ	 S-40YM3HPQ
4-Way Cassette // Page 151	UM4	R410A environmentally friendly refrigerant	 S-20UM4JPQ	 S-25UM4JPQ	 S-32UM4JPQ	 S-40UM4JPQ
Low Silhouette Duct // Page 152	FM4	R410A environmentally friendly refrigerant	 S-20FM3HPQ/FM4 ¹⁾	 S-25FM3HPQ/FM4 ¹⁾	 S-32FM3HPQ/FM4 ¹⁾	 S-40FM3HPQ/FM4 ¹⁾
Hotel Type Duct // Page 154	NM3	R410A environmentally friendly refrigerant	 S-20NM3HPQ	 S-25NM3HPQ		
High Pressure Duct // Page 155	EM3	R410A environmentally friendly refrigerant				 S-40EM3HPS
Power rating			20	25	32	40

¹⁾ Confirm availability.



2.0 HP 2.5 HP 3.2 HP 4.0 HP 5.0 HP 8.0 HP 10.0 HP



S-50KM3HPR



S-63KM3HPR



S-63TM3JPR



S-100TM3JPR



S-50PM3HPS



S-63PM3HPS



S-50RM3HPS



S-63RM3HPS



S-63DM3HPS



S-50LM3HPQ



S-63LM3HPQ



S-80LM3HPQ



S-125LM3HPQ



S-50YM3HPQ



S-50UM4JPQ



S-63UM4JPQ



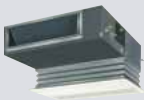
S-80UM4JPQ



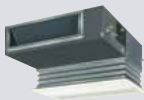
S-100UM4JPQ



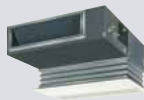
S-125UM4JPQ



S-50FM3HPQ/FM4 ¹⁾



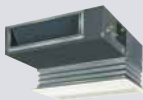
S-63FM3HPQ/FM4 ¹⁾



S-80FM3HPQ/FM4 ¹⁾



S-100FM3HPQ/FM4 ¹⁾



S-125FM3HPQ/FM4 ¹⁾



S-50EM3HPS



S-63EM3HPS



S-80EM3HPS



S-100EM3HPS



S-125EM3HPS



S-200EM3HPS



S-250EM3HPS

50

63

80

100

125

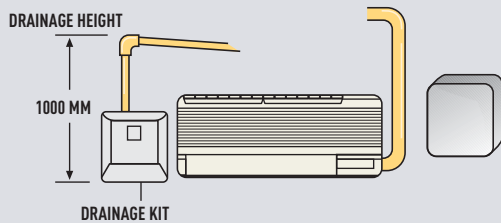
200

250



KM3 SERIES URBAN MULTI WALL INVERTER R410A TYPE

DRAIN PUMP AVAILABLE AS ADDITIONAL ACCESSORY, MAKES IT POSSIBLE TO RAISE THE WATER UP TO 1,000 MM ABOVE THE BOTTOM PART OF THE UNIT.



ELEGANT DESIGN AND COMPACT CASING TO MATCH ANY INDOOR DESIGN

- Space saving of up to 47%.
- Dramatic weight reduction, 10 kg lighter.
- Low noise levels.
- Easy removal of horizontal fins and front panel for maintenance.
- Automatic deflectors.
- Five degrees of deflector discharge can be configured from the control panel.
- Flexible installation; the drainage piping can be fitted on the left or on the right.

R410A
environmentally
friendly refrigerant



CZ-01RWK22P



CZ-02RT11P

HP	0.8 HP		1 HP		1.3 HP		1.5 HP		2 HP		2.5 HP	
Indoor unit	S-20KM3HPR		S-25KM3HPR		S-32KM3HPR		S-40KM3HPR		S-50KM3HPR		S-63KM3HPR	
Power supply	220. 230V 50 Hz 1ϕ		220. 230V 50 Hz 1ϕ		220. 230V 50 Hz 1ϕ		220. 230V 50 Hz 1ϕ		220. 230V 50 Hz 1ϕ		220. 230V 50 Hz 1ϕ	
Cooling capacity ¹⁾		kW	2.2	2.8	3.6	4.5	5.6	7.1				
		Kcal/h	1,900	2,400	3,100	3,900	4,800	6,100				
Heating capacity ²⁾		kW	2.5	3.2	4.0	5.0	6.3	8.0				
		Kcal/h	2,200	2,800	3,500	4,300	5,400	6,900				
Rated input power	Cooling	W	16	22	27	20	27	50				
	Heating	W	24	27	32	20	32	60				
Noise level	Sound pressure	High dB(A)	35	36	37	39	42	46				
		Low /dB(A)	29	29	29	34	36	39				
		Airflow rate	High m ³ /h	450	480	540	720	900	1,140			
Fan	Airflow rate	Low m ³ /h	270	300	330	540	720	840				
		Piping connection	Liquid	Inches	Ø (1/4)	Ø (1/4)	Ø (1/4)	Ø (1/4)	Ø (1/4)	Ø (3/8)		
Flared connection	Gas	Inches	Ø (1/2)	Ø (1/2)	Ø (1/2)	Ø (1/2)	Ø (1/2)	Ø (5/8)				
		Drainage	VP13 (external diameter 18, internal diameter 14)									
Dimensions	HxWxD	mm	290 x 795 x 230	290 x 795 x 230	290 x 795 x 230	290 x 1,050 x 230	290 x 1,050 x 230	290 x 1,050 x 230				
Weight		Kg	11	11	11	14	14	14				
Heat and sound insulation	Polystyrene foam / polyethylene foam											
Temperature control	Thermostat with microprocessor for cooling and heating											
Air filter	Washable resin mesh											
Safety devices	PCB fuse											

1) Cooling capacity calculated based on an indoor temperature of 27 °C DB (dry bulb), 19 °C WB (wet bulb) and an outdoor temperature of 35 °C DB / 7.5 m refrigerant gas pipe (horizontal).

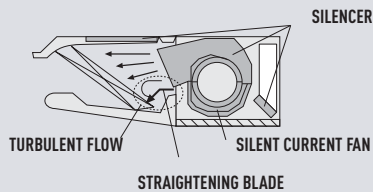
2) Heating capacity calculated based on an indoor temperature of 20 °C and an outdoor temperature of 7 °C DB, 6 °C WB / 7.5 m refrigerant gas pipe (horizontal).

Capacities are net once the heat generated by the internal fan has been taken into account (subtracted or added in the case of heating).



CEILING INVERTER TYPE TM3 SERIES URBAN MULTI R410A

USES A W-COANDA FIN TO IMPROVE AIR CIRCULATION CHARACTERISTICS IN HORIZONTAL AND VERTICAL DIRECTIONS.



SLIM BODY WITH SUBSTANTIAL AND SILENT AIRFLOW

- Uses the new fan in addition to the new quieter technologies
- Simple installation
- Easy-to-add optional drainage kit (elevation of up to 600 mm)
- Long-life filter (up to 1 year) available in standard models
- All maintenance can be carried out from the bottom part of the unit

R410A
environmentally
friendly refrigerant



CZ-01RWT12P



CZ-02RT11P

HP		1.3 HP		2.5 HP		4.0 HP	
Indoor unit		S-32TM3JPR		S-63TM3JPR		S-100TM3JPR	
Power supply		220. 230V 50 Hz 1ϕ		220. 230V 50 Hz 1ϕ		220. 230V 50 Hz 1ϕ	
Cooling capacity ¹⁾		kW	3.6	7.1	11.2		
		Kcal/h	3,100	6,100	9,600		
Heating capacity ²⁾		kW	4.0	8.0	12.5		
		Kcal/h	3,500	6,900	10,800		
Rated input power	Cooling	W	111	115	135		
	Heating	W	111	115	135		
Noise level	Sound pressure	High dB(A)	36	39	45		
		Low /dB(A)	31	34	37		
Fan	Airflow rate	High m ³ /h	720	1,050	1,500		
		Low m ³ /h	600	840	1,170		
Piping connection	Liquid	Inches	Ø (1/4)	Ø (3/8)	Ø (3/8)		
Flared connection	Gas	Inches	Ø (1/2)	Ø (5/8)	Ø (5/8)		
	Drainage		VP13 (external diameter 18, internal diameter 14)				
Dimensions	HxWxD	mm	195 x 960 x 680	195 x 1,160 x 680	195 x 1,400 x 680		
Weight		Kg	24	28	33		
Heat and sound insulation		Polystyrene foam / polyethylene foam					
Temperature control		Thermostat with microprocessor for cooling and heating					
Air filter		Washable resin mesh					
Safety devices		PCB fuse					

1) Cooling capacity calculated based on an indoor temperature of 27 °C DB (dry bulb), 19 °C WB (wet bulb) and an outdoor temperature of 35 °C DB / 7.5 m refrigerant gas pipe (horizontal).

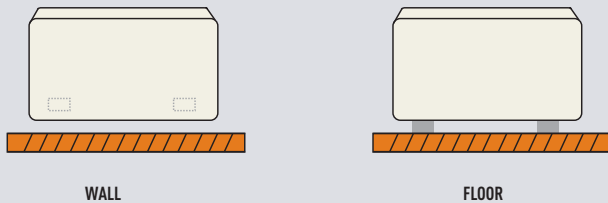
2) Heating capacity calculated based on an indoor temperature of 20 °C and an outdoor temperature of 7 °C DB, 6 °C WB / 7.5 m refrigerant gas pipe (horizontal).

Capacities are net once the heat generated by the internal fan has been taken into account (subtracted or added in the case of heating).



CONSOLE TYPE PM3 SERIES URBAN MULTI R410A

THE UNIT CAN BE FLOOR- OR WALL-MOUNTED



THE PERFECT UNIT FOR AIR CONDITIONING A PERIMETER AREA

- The consoles can be wall-mounted since pipes are connected from the rear
- Long-life filter (up to 1 year) available in standard models
- The 600 mm height allows the unit to be installed below a window
- Wide range of control options

R410A
environmentally
friendly refrigerant



CZ-02RWF12P



CZ-02RE12P



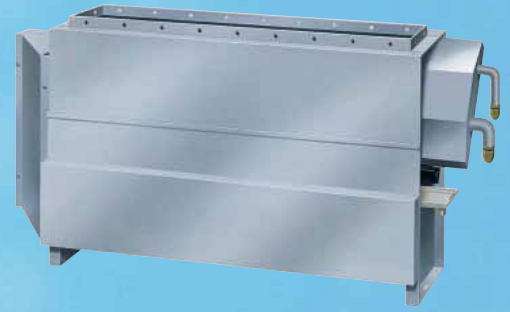
CZ-02RT11P

HP			0.8 HP	1 HP	1.3 HP	1.5 HP	2 HP	2.5 HP
Indoor unit			S-20PM3HPS	S-25PM3HPS	S-32PM3HPS	S-40PM3HPS	S-50PM3HPS	S-63PM3HPS
Power supply			220. 230V 50 Hz 1ϕ	220. 230V 50 Hz 1ϕ	220. 230V 50 Hz 1ϕ	220. 230V 50 Hz 1ϕ	220. 230V 50 Hz 1ϕ	220. 230V 50 Hz 1ϕ
Cooling capacity ¹⁾		kW	2.2	2.8	3.6	4.5	5.6	7.1
		Kcal/h	1,900	2,400	3,100	3,900	4,800	6,100
Heating capacity ²⁾		kW	2.5	3.2	4.0	5.0	6.3	8.0
		Kcal/h	2,200	2,800	3,500	4,300	5,400	6,900
Rated input power	Cooling	W	49	49	90	90	110	110
	Heating	W	49	49	90	90	110	110
Noise level	Sound pressure	High dB(A)	35	35	35	38	39	40
		Low /dB(A)	32	32	32	33	34	35
Fan	Airflow rate	High m ³ /h	420	420	480	660	840	960
		Low m ³ /h	360	360	360	510	660	720
Piping connection	Liquid	Inches	Ø (1/4)	Ø (1/4)	Ø (1/4)	Ø (1/4)	Ø (1/4)	Ø (3/8)
Flared connection	Gas	Inches	Ø (1/2)	Ø (1/2)	Ø (1/2)	Ø (1/2)	Ø (1/2)	Ø (5/8)
	Drainage	VP13 (external diameter 18, internal diameter 14)						
Dimensions	H x W x D	mm	600 x 1,000 x 222	600 x 1,000 x 222	600 x 1,140 x 222	600 x 1,140 x 222	600 x 1,420 x 222	600 x 1,420 x 222
Weight		Kg	25	25	30	30	36	36
Heat and sound insulation	Polystyrene foam / polyethylene foam							
Temperature control	Thermostat with microprocessor for cooling and heating							
Air filter	Washable resin mesh							
Safety devices	PCB fuse							

1) Cooling capacity calculated based on an indoor temperature of 27 °C DB (dry bulb), 19 °C WB (wet bulb) and an outdoor temperature of 35 °C DB / 7.5 m refrigerant gas pipe (horizontal).

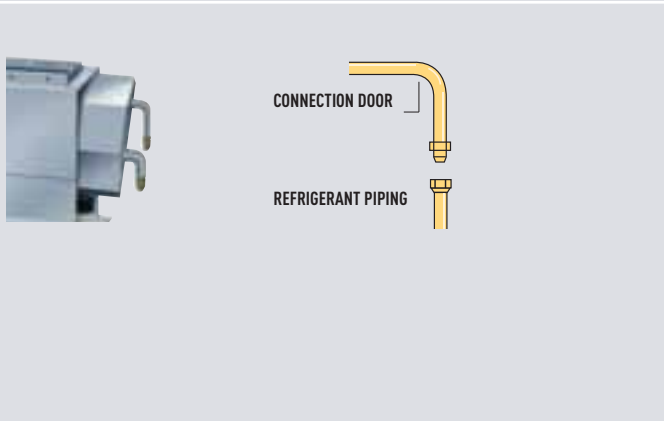
2) Heating capacity calculated based on an indoor temperature of 20 °C and an outdoor temperature of 7 °C DB, 6 °C WB / 7.5 m refrigerant gas pipe (horizontal).

Capacities are net once the heat generated by the internal fan has been taken into account (subtracted or added in the case of heating).



CONSOLE WITHOUT CASING RM3 SERIES URBAN MULTI R410A

THE CONNECTION DOOR NOW FACES DOWNWARDS, THUS ELIMINATING THE NEED TO SECURE THE AUXILIARY PIPING



THE PERFECT UNIT FOR COVERING

- Ideal for installation retrofitted to existing architecture, permitting a more personalised interior design
- Long-life filter (up to 1 year) available in standard models
- Wide range of control options



CZ-02RWF12P



CZ-02RE12P



CZ-02RT11P

HP			0.8 HP	1 HP	1.3 HP	1.5 HP	2 HP	2.5 HP
Indoor unit			S-20RM3HPS	S-25RM3HPS	S-32RM3HPS	S-40RM3HPS	S-50RM3HPS	S-63RM3HPS
Power supply			220. 230V 50 Hz 1ϕ	220. 230V 50 Hz 1ϕ	220. 230V 50 Hz 1ϕ	220. 230V 50 Hz 1ϕ	220. 230V 50 Hz 1ϕ	220. 230V 50 Hz 1ϕ
Cooling capacity ¹⁾		kW	2.2	2.8	3.6	4.5	5.6	7.1
		Kcal/h	1,900	2,400	3,100	3,900	4,800	6,100
Heating capacity ²⁾		kW	2.5	3.2	4.0	5.0	6.3	8.0
		Kcal/h	2,200	2,800	3,500	4,300	5,400	6,900
Rated input power	Cooling	W	49	49	90	90	110	110
	Heating	W	49	49	90	90	110	110
Noise level	Sound pressure	High dB(A)	35	35	35	38	39	40
		Low /dB(A)	32	32	32	33	34	35
		Airflow rate	High m ³ /h	420	420	480	660	840
Fan	Airflow rate	Low m ³ /h	360	360	360	510	660	720
		Piping connection	Liquid	Inches	Ø (1/4)	Ø (1/4)	Ø (1/4)	Ø (1/4)
Flared connection	Gas	Inches	Ø (1/2)	Ø (1/2)	Ø (1/2)	Ø (1/2)	Ø (1/2)	Ø (5/8)
	Drainage		VP13 (external diameter 18, internal diameter 14)					
Dimensions	H x W x D	mm	610 x 930 x 220	610 x 930 x 220	610 x 1,070 x 220	610 x 1,070 x 220	610 x 1,350 x 220	610 x 1,350 x 220
Weight		Kg	19	19	23	23	25	25
Heat and sound insulation			Polystyrene foam / polyethylene foam					
Temperature control			Thermostat with microprocessor for cooling and heating					
Air filter			Washable resin mesh					
Safety devices			PCB fuse					

1) Cooling capacity calculated based on an indoor temperature of 27 °C DB (dry bulb), 19 °C WB (wet bulb) and an outdoor temperature of 35 °C DB / 7.5 m refrigerant gas pipe (horizontal).

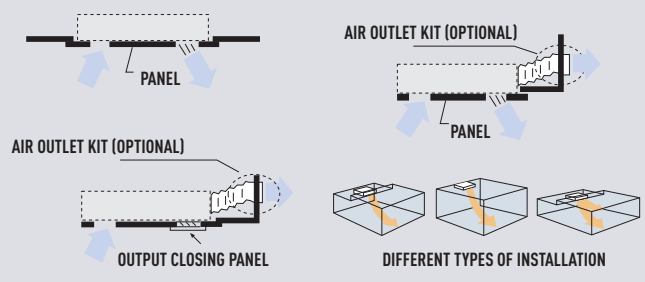
2) Heating capacity calculated based on an indoor temperature of 20 °C and an outdoor temperature of 7 °C DB, 6 °C WB / 7.5 m refrigerant gas pipe (horizontal).

Capacities are net once the heat generated by the internal fan has been taken into account (subtracted or added in the case of heating).



1-WAY CASSETTE TYPE DM3 SERIES URBAN MULTI R410A

OPTIMAL AIRFLOW CONDITIONS ARE CREATED, BE IT WITH A DOWNWARD OR
FRONTAL AIR DISCHARGE OR A COMBINATION OF BOTH



SLIM DESIGN MAKES INSTALLATION EASIER

- The 1-way cassette achieves an effective discharge of air in corners and uneven ceilings
- Easy to install in low ceilings (215 mm high)
- The automatic mechanism of the deflectors has 3 different configurations
- Fitted with drainage pump (500 mm)
- Front discharge kit (optional)
- Outside air inlet

R410A
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CZ-02RWD12P



CZ-02RT11P

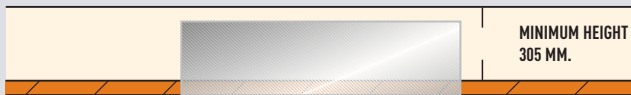
HP			1 HP	1.3 HP	1.5 HP	2.5 HP
Indoor unit			S-25DM3HPS	S-32DM3HPS	S-40DM3HPS	S-63DM3HPS
Panel			CZ-02KPD11P	CZ-02KPD11P	CZ-02KPD11P	CZ-03KPD11P
Power supply			220, 230V 50 Hz 1ϕ	220, 230V 50 Hz 1ϕ	220, 230V 50 Hz 1ϕ	220, 230V 50 Hz 1ϕ
Cooling capacity ¹⁾	kW		2.8	3.6	4.5	7.1
	Kcal/h		2,400	3,100	3,900	6,100
Heating capacity ²⁾	kW		3.2	4.0	5.0	8.0
	Kcal/h		2,800	3,500	4,300	6,900
Rated input power	Cooling	W	66	66	76	105
	Heating	W	46	46	56	85
Noise level	Sound pressure	High dB(A)	38	38	40	42
		Low /dB(A)	33	33	34	37
		High m ³ /h	540	540	720	990
Fan	Airflow rate	Low m ³ /h	390	390	540	780
		Piping connection	Liquid	Inches	Ø (1/4)	Ø (1/4)
Flared connection	Gas	Inches	Ø (1/2)	Ø (1/2)	Ø (1/2)	Ø (5/8)
	Drainage		VP13 (external diameter 18, internal diameter 14)			
Dimensions (H x W x D)	Unit	mm	215 x 1,110 x 710	215 x 1,110 x 710	215 x 1,110 x 710	215 x 1,310 x 710
	Decorative panel	mm	70 x 1,240 x 800	70 x 1,240 x 800	70 x 1,240 x 800	70 x 1,440 x 800
Weight	Unit	Kg	31	31	31	34
	Decorative panel	Kg	8.5	8.5	8.5	9.5
Housing			Galvanised steel plate			
Decorative panel colour			White (10Y9/0.5)			
Heat and sound insulation			Polystyrene foam / polyethylene foam			
Temperature control			Thermostat with microprocessor for cooling and heating			
Air filter			Washable resin mesh			
Safety devices			PCB fuse			

1) Cooling capacity calculated based on an indoor temperature of 27 °C DB (dry bulb), 19 °C WB (wet bulb) and an outdoor temperature of 35 °C DB / 7.5 m refrigerant gas pipe (horizontal).
2) Heating capacity calculated based on an indoor temperature of 20 °C and an outdoor temperature of 7 °C DB, 6 °C WB / 7.5 m refrigerant gas pipe (horizontal).
Capacities are net once the heat generated by the internal fan has been taken into account (subtracted or added in the case of heating).



2-WAY CASSETTE TYPE LM3 SERIES URBAN MULTI R410A

THE HEIGHT OF THE INDOOR UNIT (ONLY 305 MM) MAKES INSTALLATION IN LOW FALSE CEILINGS EASY



SLIM, LIGHTWEIGHT AND EASY TO INSTALL IN NARROW FALSE CEILINGS

- All models have a compact design which is only 600 mm deep
- Designed for high airflow (up to 3 metres)
- Automatic deflector mechanism
- Low noise levels (28 dB(A))
- Drainage pump (600 mm) included in standard model
- Long-life filter (1 year)
- 2 types of optional high-efficiency filters (65% and 95%)
- The main maintenance work can be carried out by removing the decorative panel

R410A
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CZ-02RWL12P



CZ-02RT11P

HP		0.8 HP	1.0 HP	1.3 HP	1.5 HP	2 HP	2.5 HP	3.2 HP	5.0 HP	
Indoor unit		S-20LM3HPQ	S-25LM3HPQ	S-32LM3HPQ	S-40LM3HPQ	S-50LM3HPQ	S-63LM3HPQ	S-80LM3HPQ	S-125LM3HPQ	
Panel		CZ-01KPL11P	CZ-01KPL11P	CZ-01KPL11P	CZ-02KPL11P	CZ-02KPL11P	CZ-03KPL11P	CZ-06KPL11P	CZ-06KPL11P	
Power supply		220. 230V 50 Hz 1ϕ	220. 230V 50 Hz 1ϕ	220. 230V 50 Hz 1ϕ	220. 230V 50 Hz 1ϕ	220. 230V 50 Hz 1ϕ	220. 230V 50 Hz 1ϕ	220. 230V 50 Hz 1ϕ	220. 230V 50 Hz 1ϕ	
Cooling capacity ¹⁾	kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	14.0	
	kcal/h	1,900	2,400	3,100	3,900	4,800	6,100	7,800	12,050	
Heating capacity ²⁾	kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	16.0	
	kcal/h	2,200	2,800	3,500	4,300	5,400	6,900	8,600	13,800	
Rated input power	Cooling	W	77	92	92	130	130	161	209	256
	Heating	W	44	59	59	97	97	126	176	223
Noise level	Sound pressure	High dB(A)	33	35	35	35.5	35.5	38	40	45
		Low /dB(A)	28	29	29	30.5	30.5	33	35	39
Sound pressure level		dB(A)	45	50	50	50	50	52	54	60
Fan	Airflow rate	High m ³ /h	420	540	540	720	720	990	1,560	1,980
		Low m ³ /h	300	390	390	540	540	780	1,260	1,500
Piping connection	Liquid	Inches	Ø (1/4)	Ø (1/4)	Ø (1/4)	Ø (1/4)	Ø (1/4)	Ø (1/4)	Ø (3/8)	
Flared connection	Gas	Inches	Ø (1/2)	Ø (1/2)	Ø (1/2)	Ø (1/2)	Ø (1/2)	Ø (5/8)	Ø (5/8)	
Drainage		VP13 (external diameter 18, internal diameter 14)								
Dimensions (HxWxD)	Unit	mm	305 x 780 x 600	305 x 780 x 600	305 x 780 x 600	305 x 995 x 600	305 x 995 x 600	305 x 1,180 x 600	305 x 1,670 x 600	305 x 1,670 x 600
	Decorative panel	mm	53 x 1,030 x 680	53 x 1,030 x 680	53 x 1,030 x 680	53 x 1,245 x 680	53 x 1,245 x 680	53 x 1,430 x 680	53 x 1,920 x 680	53 x 1,920 x 680
Weight	Unit	Kg	26	26	26	31	32	35	47	48
	Decorative panel	Kg	8	8	8	8.5	8.5	9.5	12	12
Housing		Galvanised steel plate								
Decorative panel colour		White (10Y9/0.5)								
Heat and sound insulation		Polystyrene foam / polyethylene foam								
Temperature control		Thermostat with microprocessor for cooling and heating								
Air filter		Washable resin mesh								
Safety devices		PCB fuse								

1) Cooling capacity calculated based on an indoor temperature of 27 °C DB (dry bulb), 19 °C WB (wet bulb) and an outdoor temperature of 35 °C DB / 7.5 m refrigerant gas pipe (horizontal).

2) Heating capacity calculated based on an indoor temperature of 20 °C and an outdoor temperature of 7 °C DB, 6 °C WB / 7.5 m refrigerant gas pipe (horizontal).

Capacities are net once the heat generated by the internal fan has been taken into account (subtracted or added in the case of heating).



4-WAY CASSETTE 60X60 TYPE YM3 SERIES URBAN MULTI R410A

THE AUTOMATIC VERTICAL SWING MOVES THE DISCHARGE FINS UPWARDS AND DOWNWARDS FOR EFFICIENT AIR DISTRIBUTION THROUGHOUT THE ROOM. SINCE THE FINS CAN BE PLACED PARALLEL TO THE CEILING (0° POSITION), IT IS PRACTICALLY IMPOSSIBLE FOR AIR DRAUGHTS TO FORM

SILENT AND ELEGANT UNIT WITH HORIZONTAL FLOW CAPACITY

- Matches the detachable European 60x60 ceiling grid perfectly
- Silent operation (25 dB(A))
- Automatic deflectors allowing up to 5 positions
- Air can be discharged from 2 to 4 directions
- The connection box is located inside the unit, maintenance from below
- Drainage pump is standard (500 mm)
- Outside air inlet

R410A
environmentally
friendly refrigerant



CZ-01RWY12P



CZ-02RT11P

HP	0.8 HP		1 HP		1.3 HP		1.5 HP		2 HP	
Indoor unit	S-20YM3HPQ		S-25YM3HPQ		S-32YM3HPQ		S-40YM3HPQ		S-50YM3HPQ	
Panel	CZ-02KPY12P		CZ-02KPY12P		CZ-02KPY12P		CZ-02KPY12P		CZ-02KPY12P	
Power supply	220. 230V 50 Hz 1ϕ		220. 230V 50 Hz 1ϕ		220. 230V 50 Hz 1ϕ		220. 230V 50 Hz 1ϕ		220. 230V 50 Hz 1ϕ	
Cooling capacity ¹⁾	kW	2.2	2.8	3.6	4.5	5.6				
	Kcal/h	1,900	2,400	3,100	3,900	4,800				
Heating capacity ²⁾	kW	2.5	3.2	4	5	6.3				
	Kcal/h	2,200	2,800	3,500	4,300	5,400				
Rated input power	Cooling	W	73	73	76	89	115			
	Heating	W	64	64	68	80	107			
Noise level	Sound pressure	High dB(A)	30	30	32	36	41			
		Low /dB(A)	25	25	26	28	33			
Sound pressure level		dB(A)	47	47	49	53	58			
Fan	Airflow rate	High m ³ /h	540	540	570	660	840			
		Low m ³ /h	420	420	420	480	600			
Piping connection	Liquid	Inches	Ø (1/4)	Ø (1/4)	Ø (1/4)	Ø (1/4)	Ø (1/4)			
Flared connection	Gas	Inches	Ø (1/2)	Ø (1/2)	Ø (1/2)	Ø (1/2)	Ø (1/2)			
Drainage			VP13 (external diameter 18, internal diameter 14)							
Dimensions (H x W x D)	Unit	mm	286 x 575 x 575		286 x 575 x 575		286 x 575 x 575		286 x 575 x 575	
	Decorative panel	mm	55 x 700 x 700		55 x 700 x 700		55 x 700 x 700		55 x 700 x 700	
Weight	Unit	Kg	18	18	18	18	18			
	Decorative panel	Kg	2.7	2.7	2.7	2.7	2.7			
Housing			Galvanised steel plate							
Decorative panel colour			White (10Y9/0.5)							
Heat and sound insulation			Polystyrene foam / polyethylene foam							
Temperature control			Thermostat with microprocessor for cooling and heating							
Air filter			Washable resin mesh							
Safety devices			PCB fuse							

1) Cooling capacity calculated based on an indoor temperature of 27 °C DB (dry bulb), 19 °C WB (wet bulb) and an outdoor temperature of 35 °C DB / 7.5 m refrigerant gas pipe (horizontal).

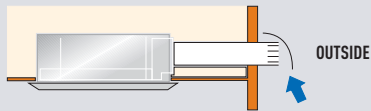
2) Heating capacity calculated based on an indoor temperature of 20 °C and an outdoor temperature of 7 °C DB, 6 °C WB / 7.5 m refrigerant gas pipe (horizontal).

Capacities are net once the heat generated by the internal fan has been taken into account (subtracted or added in the case of heating).



4-WAY CASSETTE TYPE UM4 SERIES URBAN MULTI R410A

INSTALLATION OF OUTSIDE AIR INLET IS NOW EASIER WITH THE NEW KIT THAT DOES NOT REQUIRE SPECIAL CHAMBERS



THE NEW CASSETTE IS COMPACT, SILENT AND EASY TO INSTALL

- The 20 to 63 units are 16 mm slimmer than the UM3 series.
The 80 to 100 units are 32 mm slimmer than the UM3 series
- Being so light, the indoor unit is very easy to hang
- Low noise levels (28 dB(A))
- Fitted with drainage pump (750 mm)
- Automatic deflectors
- Optimal comfort thanks to the 360° air distribution
- The airflow suits heights of up to 4.2 m
- Discharge from 2 to 4 directions and duct branching can be used
- Greater air renewal capacity (up to 20%)

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CZ-02RWU12P



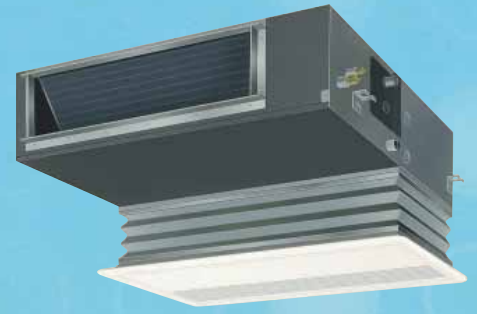
CZ-02RT11P

HP			0.8 HP	1 HP	1.3 HP	1.5 HP	2.0 HP	2.5 HP	3.2 HP	4.0 HP	5.0 HP
Indoor unit			S-20UM4JPQ	S-25UM4JPQ	S-32UM4JPQ	S-40UM4JPQ	S-50UM4JPQ	S-63UM4JPQ	S-80UM4JPQ	S-100UM4JPQ	S-125UM4JPQ
Panel			CZ-06KPU12P	CZ-06KPU12P	CZ-06KPU12P	CZ-06KPU12P	CZ-06KPU12P	CZ-06KPU12P	CZ-06KPU12P	CZ-06KPU12P	CZ-06KPU12P
Power supply			220. 230V 50 Hz 1φ	220. 230V 50 Hz 1φ	220. 230V 50 Hz 1φ	220. 230V 50 Hz 1φ	220. 230V 50 Hz 1φ	220. 230V 50 Hz 1φ	220. 230V 50 Hz 1φ	220. 230V 50 Hz 1φ	220. 230V 50 Hz 1φ
Cooling capacity ¹⁾	kW		2.2	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0
	Kcal/h		1,900	2,400	3,100	3,900	4,800	6,100	7,800	9,600	12,050
Heating capacity ²⁾	kW		2.5	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0
	Kcal/h		2,200	2,800	3,500	4,300	5,400	6,900	8,600	10,800	13,800
Rated input power	Cooling	W	53	53	53	63	83	95	120	173	258
	Heating	W	45	45	45	55	67	114	108	176	246
Noise level	Sound pressure	High dB(A)	31	31	31	32	33	34	38	40	44
		Low /dB(A)	28	28	28	28	28	29	32	33	34
Sound pressure level		dB(A)	49	49	49	50	51	52	55	58	61
Fan	Airflow rate	High m ³ /h	750	750	750	810	930	990	1,410	1,590	1,980
		Low m ³ /h	540	540	540	540	600	660	870	1,020	1,200
Piping connection	Liquid	Inches	Ø (1/4)	Ø (1/4)	Ø (1/4)	Ø (1/4)	Ø (1/4)	Ø (3/8)	Ø (3/8)	Ø (3/8)	Ø (3/8)
Flared connection	Gas	Inches	Ø (1/2)	Ø (1/2)	Ø (1/2)	Ø (1/2)	Ø (1/2)	Ø (5/8)	Ø (5/8)	Ø (5/8)	Ø (5/8)
Drainage			VP13 (external diameter 18, internal diameter 14)								
Dimensions (H x W x D)	Unit	mm	204 x 840 x 840	204 x 840 x 840	204 x 840 x 840	204 x 840 x 840	204 x 840 x 840	204 x 840 x 840	246 x 840 x 840	246 x 840 x 840	288 x 840 x 840
	Decorative panel	mm	50 x 950 x 950	50 x 950 x 950	50 x 950 x 950	50 x 950 x 950	50 x 950 x 950	50 x 950 x 950	50 x 950 x 950	50 x 950 x 950	50 x 950 x 950
Weight	Unit	Kg	24	24	24	24	26	26	28	28	31
	Decorative panel	Kg	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Housing			Galvanised steel plate								
Decorative panel colour			White (10Y9/0.5)								
Heat and sound insulation			Polystyrene foam / polyethylene foam								
Temperature control			Thermostat with microprocessor for cooling and heating								
Air filter			Washable resin mesh								
Safety devices			PCB fuse								

1) Cooling capacity calculated based on an indoor temperature of 27 °C DB (dry bulb), 19 °C WB (wet bulb) and an outdoor temperature of 35 °C DB / 7.5 m refrigerant gas pipe (horizontal).

2) Heating capacity calculated based on an indoor temperature of 20 °C and an outdoor temperature of 7 °C DB, 6 °C WB / 7.5 m refrigerant gas pipe (horizontal).

Capacities are net once the heat generated by the internal fan has been taken into account (subtracted or added in the case of heating).



LOW SILHOUETTE DUCT TYPE FM3/ FM4 SERIES URBAN MULTI R410A

EASILY FITS MULTIPLE APPLICATIONS

- High flexibility of installation with a wide range of optional kits
- The unit may be installed with a false ceiling space of 350 mm (height of all units 300 mm)
- Drainage pump is standard (625 mm)
- High external static pressure
- Low noise levels (28 dB(A))
- 2 types of optional high-efficiency filters available (65% and 95%)
- Filter comes standard



CZ-02RWF12P



CZ-02RE12P



CZ-02RT11P

HP		0.8 HP	1 HP	1.3 HP	1.5 HP	2.0 HP	2.5 HP	3.2 HP	4.0 HP	5.0 HP	
Indoor unit		S-20FM3HPQ/FM4 ¹⁾	S-25FM3HPQ/FM4 ¹⁾	S-32FM3HPQ/FM4 ¹⁾	S-40FM3HPQ/FM4 ¹⁾	S-50FM3HPQ/FM4 ¹⁾	S-63FM3HPQ/FM4 ¹⁾	S-80FM3HPQ/FM4 ¹⁾	S-100FM3HPQ/FM4 ¹⁾	S-125FM3HPQ/FM4 ¹⁾	
Power supply		220. 230V 50 Hz 1ϕ	220. 230V 50 Hz 1ϕ	220. 230V 50 Hz 1ϕ	220. 230V 50 Hz 1ϕ	220. 230V 50 Hz 1ϕ	220. 230V 50 Hz 1ϕ	220. 230V 50 Hz 1ϕ	220. 230V 50 Hz 1ϕ	220. 230V 50 Hz 1ϕ	
Cooling capacity ²⁾	kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	
	Kcal/h	1,900	2,400	3,100	3,900	4,800	6,100	7,800	9,600	12,050	
Heating capacity ³⁾	kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0	
	Kcal/h	2,200	2,800	3,500	4,300	5,400	6,900	8,600	10,800	13,800	
Rated input power	Cooling FM3 / FM4 W	110 / 95	110 / 95	114 / 100	127 / 120	143 / 120	189 / 150	234 / 180	242 / 190	321 / 250	
	Heating FM3 / FM4 W	90 / 85	90 / 85	94 / 90	107 / 110	123 / 110	169 / 140	214 / 170	222 / 180	301 / 240	
Noise level	High dB(A)	32	32	33	33	35	35	37	38	40	
	Low /dB(A)	28	28	28	29	31	30	31	33	35	
Sound pressure level	dB(A)	50	50	51	56	58	56	55	56	65	
	Airflow rate	High m ³ /h	540	540	570	690	900	1,260	1,620	1,680	2,280
Fan	Low m ³ /h	390	390	420	540	660	930	1,200	1,230	1,680	
	Sound power level ⁴⁾	4/9	4/9	4/9	5/9	5/9	5/9	5/9	5/9	5/9	
Static pressure	FM3 High (Pa)	125	125	104	116	136	123	141	141	109	
	FM4 High (Pa)	70	70	70	100	100	100	100	120	120	
Piping connection	Liquid Inches	Ø (1/4)	Ø (1/4)	Ø (1/4)	Ø (1/4)	Ø (1/4)	Ø (3/8)	Ø (3/8)	Ø (3/8)	Ø (3/8)	
Flared connection	Gas Inches	Ø (1/2)	Ø (1/2)	Ø (1/2)	Ø (1/2)	Ø (1/2)	Ø (5/8)	Ø (5/8)	Ø (5/8)	Ø (5/8)	
	Drainage	VP13 (external diameter 18, internal diameter 14)									
Dimensions (H x W x D)	FM3 Unit mm	300 x 550 x 800	300 x 550 x 800	300 x 550 x 800	300 x 700 x 800	300 x 700 x 800	300x1,000x800	300 x 1,400 x 800	300 x 1,400 x 800	300 x 1,400 x 800	
	FM4 Unit mm	300 x 550 x 700	300 x 550 x 700	300 x 550 x 700	300 x 700 x 700	300 x 700 x 700	300x1,000x700	300 x 1,400 x 700	300 x 1,400 x 700	300 x 1,400 x 700	
	Decorative panel mm	55 x 650 x 500	55 x 650 x 500	55 x 650 x 500	55 x 800 x 500	55 x 800 x 500	55x1,100x500	55 x 1,500 x 500	55 x 1,500 x 500	55 x 1,500 x 500	
Weight	Unit Kg	30	30	30	30	31	41	51	51	52	
	Decorative panel Kg	3	3	3	3.5	3.5	4.5	6.5	6.5	6.5	
Housing		Galvanised steel plate									
Decorative panel colour		White (10Y9/0.5)									
Heat and sound insulation		Polystyrene foam / polyethylene foam									
Temperature control		Thermostat with microprocessor for cooling and heating									
Air filter		Washable resin mesh									
Safety devices		PCB fuse									

1) Confirm availability.

2) Cooling capacity calculated based on an indoor temperature of 27 °C DB (dry bulb), 19 °C WB (wet bulb) and an outdoor temperature of 35 °C DB / 7.5 m refrigerant gas pipe (horizontal).

3) Heating capacity calculated based on an indoor temperature of 20 °C and an outdoor temperature of 7 °C DB, 6 °C WB / 7.5 m refrigerant gas pipe (horizontal).

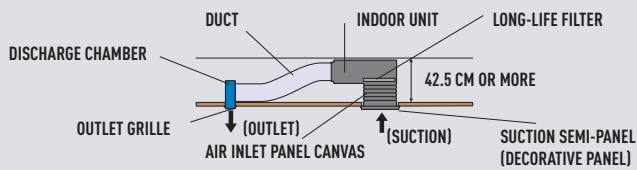
4) The pressure available can be modified at the electrical box connectors.

Capacities are net once the heat generated by the internal fan has been taken into account (subtracted or added in the case of heating).



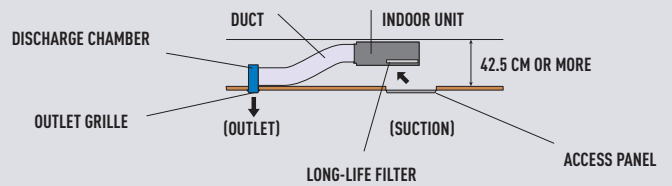
POSSIBLE CONFIGURATION SCHEMES FOR DUCT UNITS

CONFIGURATION WITH SUCTION CHANNELLED FROM THE BOTTOM PART

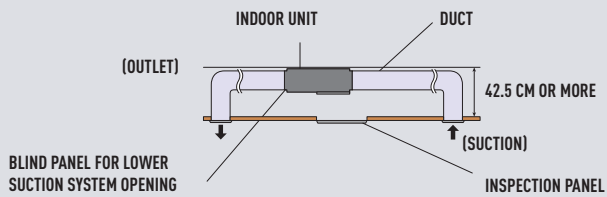


An air suction canvas is used. Depth can be adjusted according to ceiling dimensions.

CONFIGURATION WITH LOWER SUCTION THROUGH THE FALSE CEILING

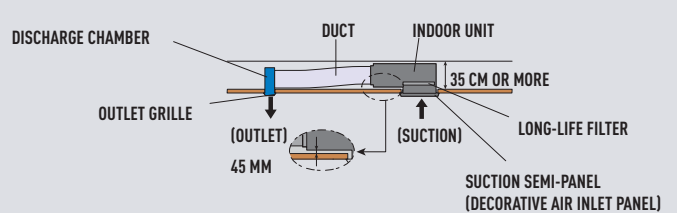


CONFIGURATION WITH SUCTION CHANNELLED FROM THE FRONT



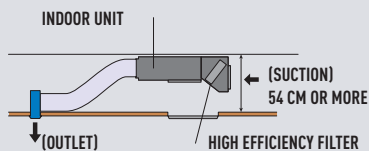
Maintenance of the electronic parts can be carried out from below or rear.

CONFIGURATION WITH DIRECT SUCTION FROM BELOW



The indoor unit can be installed even though the space between the ceiling and the false ceiling is 350 or more.

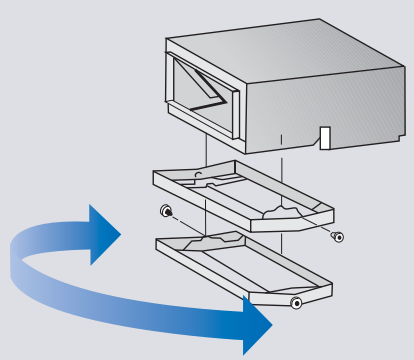
CONFIGURATION WITH FRONT SUCTION THROUGH THE FALSE CEILING





HOTEL TYPE DUCT NM3 SERIES URBAN MULTI R410A

DRAINAGE TRAY.
THE TRAY CAN BE INSTALLED TO THE LEFT OR RIGHT OF THE UNIT MAKING ASSEMBLY EASIER



COMPACT DESIGN IDEAL FOR HOTELS

- Specific design for hotel air-conditioning (only 230 mm high)
- Easy to mount in false ceiling
- Possibility of lower and rear suction connection to satisfy interior decoration needs
- Suction air filter in standard models

R410A
environmentally
friendly refrigerant



CZ-02RWF12P



CZ-02RE12P



CZ-02RT11P

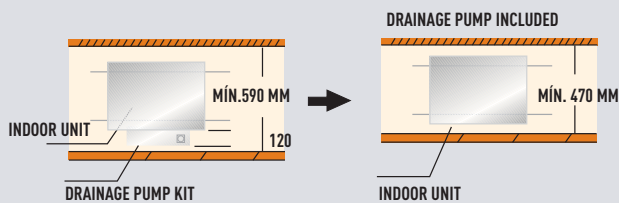
HP		0.8 HP		1 HP	
Indoor unit		S-20NM3HPQ		S-25NM3HPQ	
Power supply		220. 230V 50 Hz 1φ		220. 230V 50 Hz 1φ	
Cooling capacity ¹⁾	kW	2.2	2.8		
	Kcal/h	1,900	2,400		
Heating capacity ²⁾	kW	2.5	3.2		
	Kcal/h	2,200	2,800		
Rated input power	Cooling	W	50		
	Heating	W	50		
Noise level	Sound pressure	High dB(A)	37		
		Low /dB(A)	32		
Sound pressure level	Fan	dB(A)	50		
		Airflow rate	High m ³ /h	402	
		Low m ³ /h	312		348
	Static Pressure	mmH ₂ O	2		2
Piping connection	Liquid	Inches	Ø (1/4)		Ø (1/4)
Flared connection	Gas	Inches	Ø (1/2)		Ø (1/2)
	Drainage		VP13 (external diameter 18, internal diameter 14)		
Dimensions	H x W x D	mm	230 x 505 x 652		230 x 505 x 652
Weight		Kg	17		17
Housing			Galvanised steel plate		
Temperature control			Thermostat with microprocessor for cooling and heating		
Air filter			Washable resin mesh		
Safety devices			PCB fuse		

1) Cooling capacity calculated based on an indoor temperature of 27 °C DB (dry bulb), 19 °C WB (wet bulb) and an outdoor temperature of 35 °C DB / 7.5 m refrigerant gas pipe (horizontal).
2) Heating capacity calculated based on an indoor temperature of 20 °C and an outdoor temperature of 7 °C DB, 6 °C WB / 7.5 m refrigerant gas pipe (horizontal).



HIGH PRESSURE DUCT TYPE EM3 SERIES URBAN MULTI R410A

DRAINAGE PUMP INCLUDED (ACCESSORY).
THE DRAINAGE PUMP IS HOUSED INSIDE THE UNIT, THUS REDUCING INSTALLATION SPACE



HIGH STATIC PRESSURE PERMITTING FLEXIBLE DUCTWORK DESIGN

- Over 150 Pa of external static pressure. The high static pressure permits the installation of a long duct network
- Various pressures can be selected from the electrical panel
- Broad range of powers in the 8 models, from 1.5 HP to 10 HP
- Optional accessories include a drainage kit, high-efficiency filters (65% and 95%) and a long-life filter (up to 1 year)



CZ-02RWF12P



CZ-02RE12P



CZ-02RT11P

HP			1.5 HP	2.0 HP	2.5 HP	3.2 HP	4.0 HP	5.0 HP	8.0 HP	10.0 HP
Indoor unit			S-40EM3HPS	S-50EM3HPS	S-63EM3HPS	S-80EM3HPS	S-100EM3HPS	S-125EM3HPS	S-200EM3HPS	S-250EM3HPS
Power supply			220. 230V 50 Hz 1ϕ	220. 230V 50 Hz 1ϕ	220. 230V 50 Hz 1ϕ	220. 230V 50 Hz 1ϕ	220. 230V 50 Hz 1ϕ	220. 230V 50 Hz 1ϕ	220. 230V 50 Hz 1ϕ	220. 230V 50 Hz 1ϕ
Cooling capacity ¹⁾		kW	4.5	5.6	7.1	9.0	11.2	14.0	22.4	28
		Kcal/h	3,900	4,800	6,100	7,800	9,600	12,050	20,000	25,000
Heating capacity ²⁾		kW	5.0	6.3	8.0	10.0	12.5	16.0	25.0	31.5
		Kcal/h	4,300	5,400	6,900	8,600	10,800	14,000	21,500	27,000
Rated input power	Cooling	W	211	211	211	284	411	619	1294	1465
	Heating	W	211	211	211	284	411	619	1294	1465
Noise level	Sound pressure	High dB(A)	39	39	42	43	43	45	48	48
		Low /dB(A)	35	35	38	39	39	42	45	45
		Airflow rate	High m3/h	840	840	840	1,170	1,740	2,160	3,480
Fan	Airflow rate	Low m3/h	690	690	690	960	1,380	1,740	3,000	3,720
		Static Pressure ³⁾	12/16	12/16	13/17	10/16	10/16	15/19	14/19	14/21
Piping connection	Liquid	Inches	Ø (1/4)	Ø (1/4)	Ø (3/8)	Ø (3/8)	Ø (3/8)	Ø (3/8)	Ø (3/8)	Ø (3/8)
Flared connection	Gas	Inches	Ø (1/2)	Ø (1/2)	Ø (5/8)	Ø (5/8)	Ø (5/8)	Ø (5/8)	Ø (3/4)	Ø (7/8)
Dimensions	H x W x D	mm	390x720x690	390x720x690	390x720x690	390x720x690	390x1,110x690	390x1,110x690	470x1,380x1,100	470x1,380x1,100
Weight		Kg	44	44	44	45	63	65	137	137
Housing			Galvanised steel plate							
Heat and sound insulation			Polystyrene foam / polyethylene foam							
Temperature control			Thermostat with microprocessor for cooling and heating							
Air filter			Washable resin mesh							
Safety devices			PCB fuse							

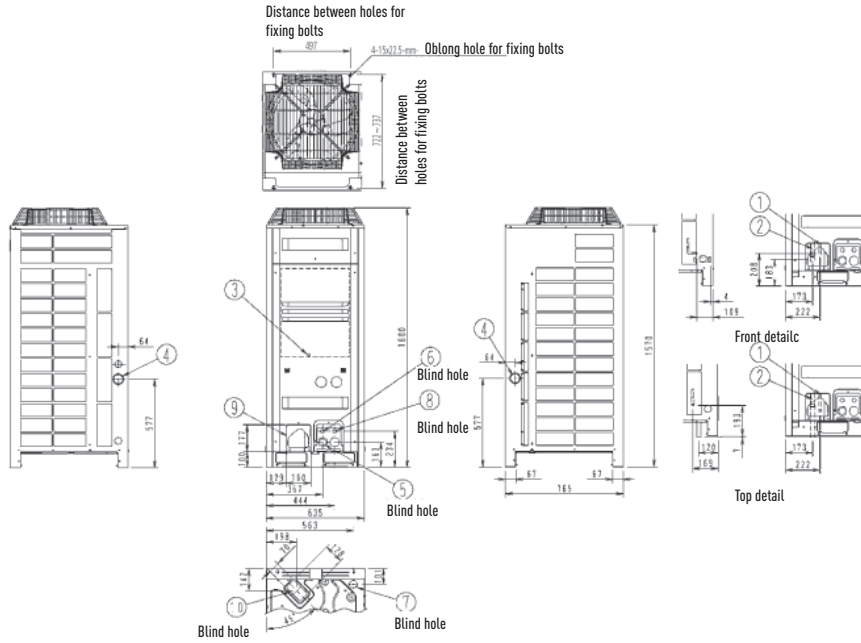
1) Cooling capacity calculated based on an indoor temperature of 27 °C DB (dry bulb), 19 °C WB (wet bulb) and an outdoor temperature of 35 °C DB / 7.5 m refrigerant gas pipe (horizontal).

2) Heating capacity calculated based on an indoor temperature of 20 °C and an outdoor temperature of 7 °C DB, 6 °C WB / 7.5 m refrigerant gas pipe (horizontal).

3) The pressure available can be modified at the electrical box connectors. Capacities are net once the heat generated by the internal fan has been taken into account (subtracted or added in the case of heating). Capacities are net once the heat generated by the internal fan has been taken into account (subtracted or added in the case of heating).

MX4 OUTDOOR UNIT DIMENSIONS

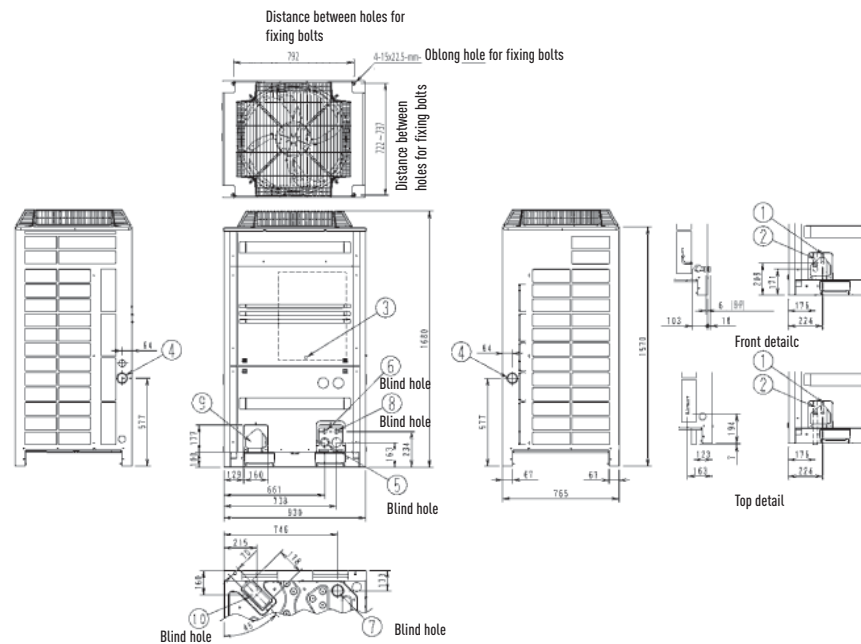
U-5MX4XPQ



Nº	Parts name	Remarks
1	Liquid pipe connection port	Flared connection of $\phi 9.5$
2	Gas pipe connection port	Flared connection of $\phi 15.9$
3	Grounding terminal	Within the switch box (M8)
4	Hole for routing the power supply cable (side)	$\phi 62$
5	Hole for routing the power supply cable (front)	$\phi 45$
6	Hole for routing the power supply cable (rear)	$\phi 27$
7	Hole for routing the power supply cable (bottom)	$\phi 50$
8	Hole for routing the wiring (rear)	$\phi 27$
9	Hole for routing the piping (rear)	
10	Hole for routing the piping (bottom)	See note 1

Note
1. The details for the front and the bottom indicate the dimensions once the included piping has been attached.

U-8MX4XPQM1 // U-8MX4XPQ1 // U-10,12MX4XPQ

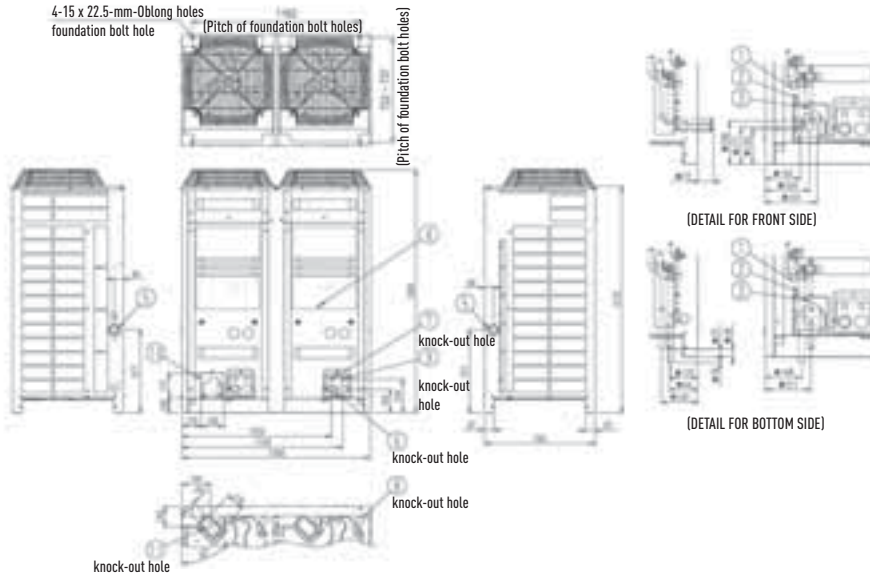


Nº	Parts name	Remarks
1	Liquid pipe connection port	See note 2
2	Gas pipe connection port	See note 2
3	Grounding terminal	Within the switch box (M8)
4	Hole for routing the power supply cable (side)	$\phi 62$
5	Hole for routing the power supply cable (front)	$\phi 45$
6	Hole for routing the power supply cable (rear)	$\phi 27$
7	Hole for routing the power supply cable (bottom)	$\phi 65.5$
8	Hole for routing the wiring (rear)	$\phi 27$
9	Hole for routing the piping (rear)	
10	Hole for routing the piping (bottom)	

NOTES
1. The details for the front and the bottom indicate the dimensions once the included piping has been attached.
2. Gas piping [heat pump type]: $\phi 19.1$, 8 P type welded connection // $\phi 28.6$, 12 HP type welded connection // $\phi 22.2$, 10 P type welded connection
Liquid piping [heat pump type]: $\phi 9.5$, 8-10 P type welded connection // $\phi 12.7$, 12 HP type welded connection

ME4 OUTDOOR UNIT DIMENSIONS

U-8ME4XPQ1 // U-10,12,16ME4XPQ

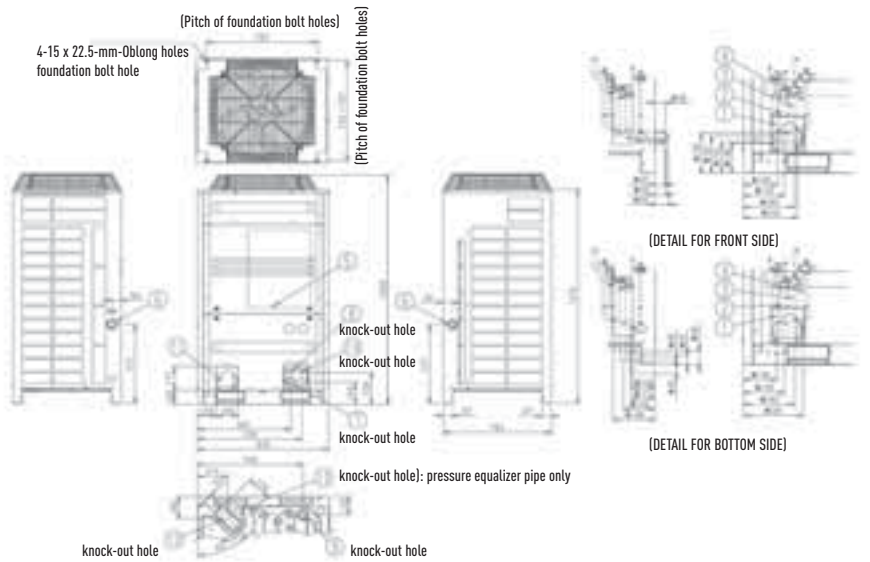


N°	Parts name	Remarks
1	Pipe routing hole (bottom)	See note 1
2	Pipe routing hole (front)	See note 1
3	Wire routing hole (front)	Ø 27
4	Power cord routing hole (bottom)	Ø 50
5	Power cord routing hole (front)	Ø 27
6	Power cord routing hole (front)	Ø 45
7	Power cord routing hole (side)	Ø 62
8	Grounding terminal	Inside of switch box (M8)
9	High and low pressure gas pipe connection port	See note 2, 3
10	Suction gas pipe connection port	See note 2, 3
11	Liquid pipe connection port	See note 2, 3

- Note
- For piping connection method (front and bottom sides) see the installation manual.
 - High and low pressure gas pipe:
 - Ø 15.9 Brazing connection ... U-8ME4XPQ1
 - Ø 19.1 Brazing connection ... U-10,12ME4XPQ
 - Ø 22.2 Brazing connection ... U-14,16ME4XPQ
 - Suction gas pipe:
 - Ø 19.1 Brazing connection ... U-8ME4XPQ1
 - Ø 22.2 Brazing connection ... U-10ME4XPQ
 - Ø 28.6 Brazing connection ... U-12ME4XPQ
 - Liquid pipe:
 - Ø 9.5 Brazing connection ... U-8ME4XPQ1 // U-10ME4XPQ
 - Ø 12.7 Brazing connection ... U-12,14,16ME4XPQ
 - Piping connection diameter for field connection.
 - Shows the dimensions after fixing the accessory pipes.

	AA	AB
U-8,10,12ME4XPQ	129	32
U-14,16MA4XPQ	131	38

U-8ME4XPQM1 // U-10,12ME4XPQM



N°	Parts name	Remarks
1	Liquid pipe connection port	See note 2.3
2	Suction gas pipe connection port	See note 2.3
3	High and low pressure gas pipe connection port	Ø 19.1 Brazing connection See note 3
4	Pressure equalizer pipe connection port	Ø 19.1 Brazing connection See note 3
5	Grounding terminal	Inside of switch box (M8)
6	Power cord routing hole (side)	Ø 62
7	Power cord routing hole (front)	Ø 45
8	Power cord routing hole (front)	Ø 27
9	Power cord routing hole (bottom)	Ø 65.5
10	Wire routing hole (front)	Ø 27
11	Pipe routing hole (front)	See note 1
12	Pipe routing hole (bottom)	See note 1
13	Pipe routing hole (bottom)	Ø 50 See note 1

- Note
- For piping connection method (front and bottom sides) see the installation manual.
 - Suction gas pipe:
 - Ø 22.2 Brazing connection ... U-8ME4XPQM1 // U-10ME4XPQM
 - Ø 28.6 Brazing connection ... U-12ME4XPQM
 - Liquid pipe:
 - Ø 9.5 Brazing connection ... U-8ME4XPQM1 // U-10ME4XPQM
 - Ø 12.7 Brazing connection ... U-12ME4XPQM
 - Piping connection diameter for field connection.
 - Shows the dimensions after fixing the accessory pipes.



LIST OF OPTIONAL ACCESSORIES

MX4 SERIES OUTDOOR UNITS			HIGH PRESSURE DUCT TYPE EM3 SERIES				
Cooling/heating selector		CZ-02RD11P	Drainage pump	40-125	K-DU30L125VE		
Fixing box		K-JB111A		200-250	K-DU30L250VE		
Headers		CZ-P29HK12Q	High efficiency filter 65%	40-63	K-AFJ302L71		
		CZ-P64HK12Q		80-125	K-AFJ302L140		
		CZ-P75HK12Q		40-63	K-AFJ303L71		
Branches		CZ-P20BK12QA	Filter chamber	80-125	K-AFJ303L140		
		CZ-P29BK12QA		40-80	K-DDJ30L71		
		CZ-P64BK12Q	Long-life filter	100-125	K-DDJ30L140		
		CZ-P75BK12Q		200/250	K-DJ3705L280		
Kit for connecting outdoor units	2 outdoor units	CZ-32PJ4PQ		40-80	K-AFJ301L71		
	3 outdoor units	CZ-48PJ4PQ		100-125	K-AFJ301L140		
Drainage Tray Kit	Module U-5MX4	K-WC26B160	Long-life filter	200/250	K-AFJ371L280		
	Modules U-8,10MX4	K-WC26B280					
	Modules U-12,14,16MX4	K-WC26B450					
ME4 SERIES OUTDOOR UNITS			LOW SILHOUETTE DUCT TYPE FM3 SERIES				
Headers		CZ-P29HK32Q	Decorative panel	20-32	CZ-01HPF11P		
		CZ-P64HK32Q		40-50	CZ-02HPF11P		
		CZ-P75HK32Q		63	CZ-03HPF11P		
Branches		CZ-P20BK32Q	Access panel	80-125	CZ-06HPF11P		
		CZ-P29BK32QA		40-50	K-TB25KA56W		
		CZ-P64BK32Q		63	K-TB25KA80W		
		CZ-P75BK32Q		80-125	K-TB25KA160W		
Kit for connecting outdoor units	18-32 HP	CZ-32PJ5PQ	High efficiency filter 65%	40-50	K-AF252LA56		
	34-48 HP	CZ-48PJ5PQ		63	K-AF252LA80		
Drainage tray kit	U8 Modules,10ME4	K-WC26B280	High efficiency filter 90%	80-125	K-AF252LA160		
	U12 Modules,14,16ME4	K-WC26B450		40-50	K-AF253LA56		
				63	K-AF253LA80		
			80-125	K-AF253LA160			
HR BOX			Filter chamber for bottom suction	40-50	K-AJ25LA56D		
HR box		CZ-100HR2HS		63	K-AJ25LA80D		
		CZ-160HR2HS	80-125	K-AJ25LA160D			
		CZ-250HR2HS	Filter chamber for rear suction	40-50	K-AJ25LA56B		
Cooling/heating selector		63		K-AJ25LA80B			
Fixing box		CZ-02RD12P	Concealed panel /air outlet	80-125	K-AJ25LA160B		
		K-JB111A		40-50	K-BBJ25KA56		
			63	K-BBJ25KA80			
			80-125	K-BBJ25KA160			
4-WAY CASSETTE TYPE UM4 SERIES			Output adapter panel for round pipe	20-32	K-DAJ25K36		
Decorative panel	All	CZ-06KPU12P		40-50	K-DAJ25KA56		
Output air insulator	All	K-DBHJ55K160	63	K-DAJ25KA71			
Outside air inlet kit	T-shaped and without fan	K-DD55DA160K	80-125	K-DAJ25KA140			
	Non T-shaped and without fan	K-DD55DA160					
Rect. installation		K-DDJ55DA160					
Filter chamber for previous models	All	K-DDF55DA160					
Spare long-life filter	All	K-AFJ551K160					
High efficiency filter unit							
Calorimetric method 65%	35-63	K-AFJ556DA80					
	100-125	K-AFJ556DA160					
Calorimetric method 90%	35-63	K-AFJ557DA80					
	100-125	K-AFJ557DA160					
Spare ultra long-life filter	All	K-AFJ55KA160H					
Branching chamber	35-63	K-DJ55BA80					
	100-125	K-DJ55BA160					
Chamber connection kit	All	K-KSJ55KA160					
4-WAY CASSETTE 60X60 TYPE YM3 SERIES			CEILING TYPE TM3 SERIES				
Decorative panel	All	CZ-02KPY12P	Long-life filter	32	K-AF501DA56		
Panel separator	All	K-DBQ44BA60A		63	K-AFJ501DA80		
Output air insulator	All	K-DBHQ44B60		100	K-AF501DA112		
Outside air inlet kit direct installation	All	K-DDQ44XA60					
Spare long-life filter		K-AFQ441BA60					
2-WAY CASSETTE TYPE LM3 SERIES			CONTROL DEVICES				
Decorative panel	20-32	CZ-01KPL11P	Wired controllers		CZ-02RT11P		
	40-50	CZ-02KPL11P		Simple wired controller		CZ-02RE12P	
	63	CZ-03KPL11P			Wireless controllers (Receiver integrated in machine)	LM3	CZ-01RWL12P
	80-125	CZ-06KPL11P				UM4	CZ-02RWU12P
		KM3	CZ-01RWK22P				
		TM3	CZ-01RWT12P				
			YM3	CZ-01RWY12P			
			Wireless controller (Receiver on the wall)	EM3/FM3/NM3/ PM3/RM3	CZ-02RWF12P		
				DM3	CZ-02RWD12P		
			Centralised control		CZ-02ESM11P		
			On /Off controller (indicator)		CZ-01ANA11P		
			Programmer control		CZ-01ESW11P		
			CZ-ESM BMS interface adapter		CZ-302AP11P		
			Interface adapter for US series		CZ-112AP11P		
			Signal output adapter	others	KRP1B61		
			BMS interface adapter for group or individual control	UM4/TM3	KRP2A52		
			Installation box for PCB adapter		KRP2A51		
				UM4	KRP1CA98		
			LM3	KRP1CA98			
			TM3	KRP1CA93			
				KJB311AA			
			Electric box with grounding terminal	(3 blocks)	KJB212AA		
				(2 blocks)	KEK26-1A		
			Anti-noise filter	LM3/NM3	CZ-104AP11P		
			BMS interface adapter for outdoor unit	UM4/FM3/TM3/YM3	CZ-104AP13P		
				other	CZ-104AP12P		
			Expansion port for UM-NET		CZ-109AP11P		

* If installing a high-efficiency filter in the unit, a mounting chamber should be fitted to the lower or rear suction system.

Note: The filter chamber is essential if a high efficiency filter is installed



ME4 HR BOX

HR BOX FOR HEAT RECOVERY ONLY FOR ME4 SERIES

The ME4 series must have an HR box in the cooling piping to perform heating and cooling functions simultaneously.



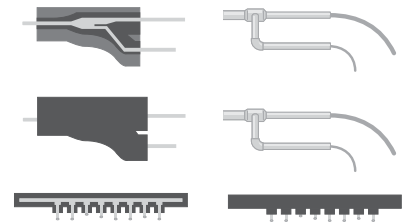
	CZ-100HR2HS		CZ-160HR2HS		CZ-250HR2HS	
	x ≤ 100		100 < x ≤ 160		160 < x ≤ 250	
Maximum number of connectable indoor units	5		8		5	
Rated input power	Cooling	W	5	5	5	5
	Heating	W	5	5	5	5
Dimensions	H x W x D	mm	207 x 388 x 326		207 x 388 x 326	
Weight		kg	14		15	
Box	Galvanised sheet steel					
Piping connection	Liquid	Inches	Ø 3/8		Ø 3/8	
	Gas	Inches	Ø 5/8		Ø 7/8	
Indoor unit	Liquid	Inches	Ø 3/8		Ø 3/8	
	Outdoor unit	Inches	Ø 5/8		Ø 7/8	
	Discharge gas	Inches	Ø 1/2		Ø 3/4	
Acoustic insulator	Flame- and heat-resistant polyethylene foam					

*Even when the capacity index of the CZ-250H1HRS model is between 160 and 250, indoor unit models 20, 25, 32 or 40 should not be connected to this HR box model.

MX4 R410A BRANCHES AND HEADERS

BRANCHES: UNIFIED PIPING

This new system of piping has been designed to facilitate installation so that only 2 or 3 main refrigerant pipes are needed, unlike the systems used to date. 2- and 3-way check valves, antifreeze treatment, oil separators and air valves are also not required. The use of branch piping combined with expansion valves considerably reduces the imbalance of the refrigerant liquid flow between indoor units despite the smaller piping diameter. The joints for these pipes have been designed to reduce installation time, as they are easy to fit. Finally, the branch pipes optimise refrigerant flow.

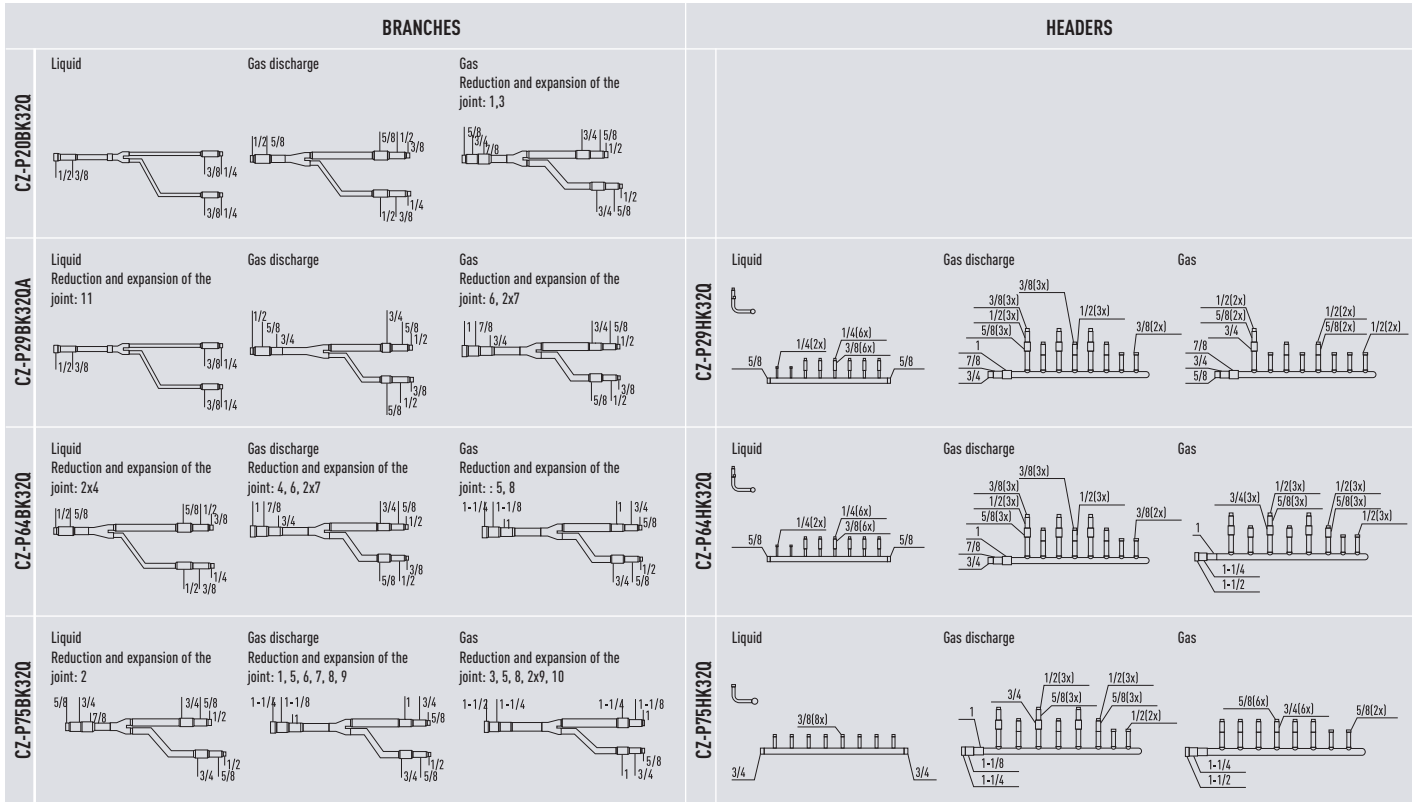


BRANCHES AND HEADERS

MX4 HEAT PUMP

	BRANCHES		HEADERS	
CZ-P20BK120A		 Reduction and expansion of the joint: 1,3		
CZ-P29BK120A		 Reduction and expansion of the joint: 6, 2 x 7		
CZ-P64BK120		 Reduction and expansion of the joint: 6, 5, 7, 8		
CZ-P75BK120		 Reduction and expansion of the joint: 3,5,8,2x9,10		

ME4 HEAT RECOVERY



SELECTION OF R410A BRANCHES

To select the suitable branches for the cooling circuit, the first branch is selected according to the outdoor unit. The remaining branches are selected according to the sum of the capacity indexes for all indoor units on a given branch (downstream).*

BRANCH

MX4 HEAT PUMP UM INVERTER SERIES MX4XPQ (R410A)

First branch after outdoor unit

OUTDOOR UNIT	BRANCH
U-5MX4XPQ	CZ-P20BK12QA
U-8MX4XPQ	CZ-P29BK12QA
U-10MX4XPQ	CZ-P29BK12Q
for U-12MX4XPQ to PA-22MX4XPQ	CZ-P64BK12Q
for PA-24MX4XPQ to PA-48MX4XPQ	CZ-P75BK12Q

Different branches from the first, depending on the attached capacity

TOTAL CAPACITY	BRANCH
$x < 200$	CZ-P20BK12QA
$200 \leq x < 290$	CZ-P29BK12QA
$290 \leq x < 640$	CZ-P64BK12Q
$640 \leq x$	CZ-P75BK12Q

ME4 HEAT RECOVERY UM INVERTER SERIES ME4XPQ (R410A)

First branch after outdoor unit

OUTDOOR UNIT	BRANCH
U-8ME4XPQ1	CZ-P29BK32QA
U-10ME4XPQ	CZ-P29BK32Q
for U-12ME4XPQ to PA-22ME4XPQ	CZ-P64BK32Q
for PA-24ME4XPQ to PA-48ME4XPQ	CZ-P75BK32Q

Different branches from the first, depending on the attached capacity

TOTAL CAPACITY	3-PIPE BRANCH	2-PIPE BRANCH
$x < 200$	CZ-P20BK32Q	CZ-P20BK12QA
$200 \leq x < 290$	CZ-P29BK32QA	CZ-P29BK12Q
$290 \leq x < 640$	CZ-P64BK32Q	CZ-P64BK12Q
$640 \leq x$	CZ-P75BK32Q	

To select the appropriate header, you need to add the capacity indexes for all the indoor units which come off the Header.*

HEADERS

Select according to the attached capacity

TOTAL CAPACITY	HEADER
$x < 290$	CZ-P29HK12Q
$290 \leq x < 640$	CZ-P64HK12Q
$640 \leq x$	CZ-P75HK12Q

Note: Model 250 indoor units cannot be connected to a header outlet.

Select according to the attached capacity

TOTAL CAPACITY	3-PIPE HEADER	2-PIPE HEADER
$x < 290$	CZ-P29HK32Q	CZ-P29HK12QA
$290 \leq x < 640$	CZ-P64HK32Q	CZ-P64HK12Q
$640 \leq x$	CZ-P75HK32Q	

KIT FOR CONNECTING OUTDOOR MODULES (UNIT > PA-18)

NUMBER OF OUTDOOR MODULES	CONNECTING KIT
2	CZ-32PJ4PQ
3	CZ-48PJ4PQ

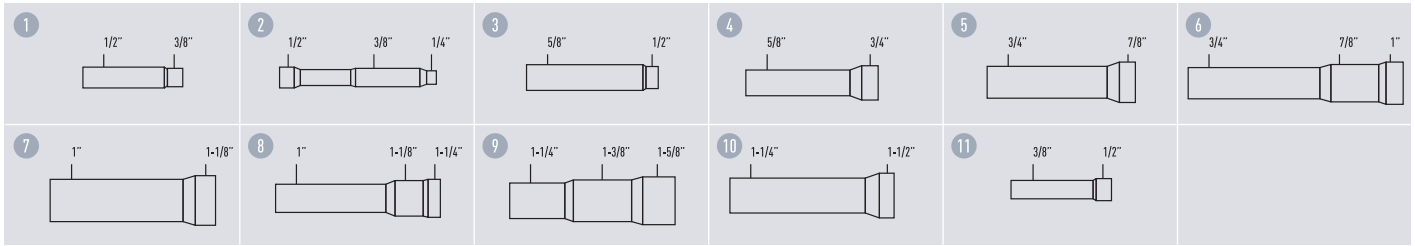
KIT FOR CONNECTING OUTDOOR MODULES (UNIT > PA-18)

NUMBER OF OUTDOOR MODULES	CONNECTING KIT
2	CZ-32PJ5PQ
3	CZ-48PJ5PQ

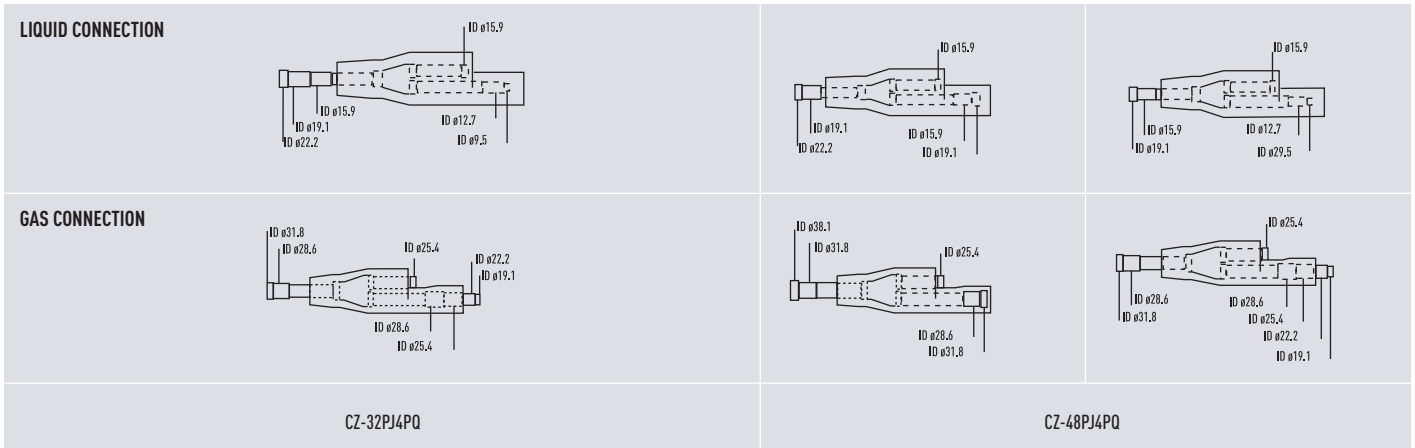
* e.g.: the capacity index resulting from a branch which supports an S-80UM4HPQ indoor unit and an S-100FM3HPG indoor unit is $100 + 80 = 180$.



REDUCTION AND EXPANSION OF THE BRANCH JOINTS



MX4 MULTIPLE OUTDOOR CONNECTION KIT



ME4 MULTIPLE OUTDOOR CONNECTION KIT

Kit name	Suction gas side joint	Liquid side joint	Discharge gas side joint	Reducer for			Joint for oil pipe
				Suction gas pipe	Liquid pipe	Discharge gas pipe	
CZ-32PJ5PQ				 1x	 1x	 1x	-
CZ-48PJ5PQ				 2x	 2x	 1x	-
				 3x	 2x	 1x	 1x

For installation of the outdoor units, refer to the installation manual of the outdoor unit.
 The installation of refrigerant pipes between outdoor and indoor units need to be arranged by refnet joints and refnet headers.
 For combination of outdoor units follow Engineering Data.

INDIVIDUAL CONTROL SYSTEMS

UNLIKE CONVENTIONAL AIR CONDITIONING SYSTEMS, THE VRF COOLING SYSTEM IS APPLIED SEPARATELY TO EACH ROOM. SO, THIS SYSTEM IS IDEAL FOR AREAS WITH FLUCTUATION IN TRAFFIC. MOREOVER, YOU CAN HAVE PRECISE CONTROL OVER EACH OF THE ROOMS TO ACHIEVE EXACT CONDITIONS. INDIVIDUAL CONTROL MAKES THIS SYSTEM MORE COST-EFFECTIVE AND EFFICIENT.



INFRARED REMOTE CONTROL

CZ-02RWD12P // CZ-02RWF12P // CZ-01RWL12P // CZ-02RWU12P // CZ-01RWK22P // CZ-01RWT12P // CZ-01RWY12P

OPERATING BUTTONS

- ON/OFF
- Activate/deactivate programmer
- Time programming
- Temperature adjustment
- Air direction (only for models S-TM3JPR, S-UM4HPQ, S-LM3HPQ and S-KM3HPR)
- Operating mode
- Fan speed control
- Restart filter
- Inspection/operating test

MONITOR

- Operating mode
- Battery replacement
- Temperature selected
- Air direction (only for models S-TM3JPR, S-UM4JPQ, S-LM3HPQ and S-KM3HPR)
- Time programming
- Inspection/operating test
- Fan speed

CZ-02RWD12P

Optional control for DM3 series industrial models

CZ-01RWL12P

Optional control for LM3 series industrial models

CZ-02RWU12P

Optional control for LM3 series industrial models

CZ-01RWK22P

Optional control for KM3 series industrial models

CZ-01RWT12P

Optional control for TM3 series industrial models

CZ-01RWY12P

Optional control for YM3 series industrial models



WIRED CONTROLLER

CZ-02RT11P

- Remote controller with LCD and self-diagnosis
- Constant monitoring of the system for fault detection in a total of 80 components
- Immediate display of fault location and type
- Maintenance time and cost reduction

OPERATING BUTTONS

- ON/OFF
- Programmer: 5 actions per day (total 35). Programme temperature or temperature limits. Memory of last programming.
- Temperature adjustment
- Temperature range limitation
- Adjusting air direction
- Selection of operating mode
- Fan speed control
- Comfort temperature hold function

MONITOR

- Operating mode
- Automatic switch between cooling and heating
- Centralised control indicator
- Group control indicator
- Selected temperature
- Air direction
- Clock
- Day of the week indicator
- Inspection/operating test
- Fan speed
- Outside air filter
- Defrost/hot start indicator
- Faults



SIMPLE WIRED CONTROLLER

CZ-02RE12P

- Simple, compact and easy-to-use unit
- Suitable for hotel rooms

OPERATING BUTTONS

- ON/OFF
- Selection of operating mode
- Fan speed control
- Temperature adjustment

MONITOR

- Automatic switch between cooling and heating
- Selected temperature
- Operating mode
- Centralised control indicator
- Fan speed
- Defrost/hot start indicator
- Fault adjustment
- Operating mode selection
- Fan speed control
- Filter restart
- Inspection/operating test

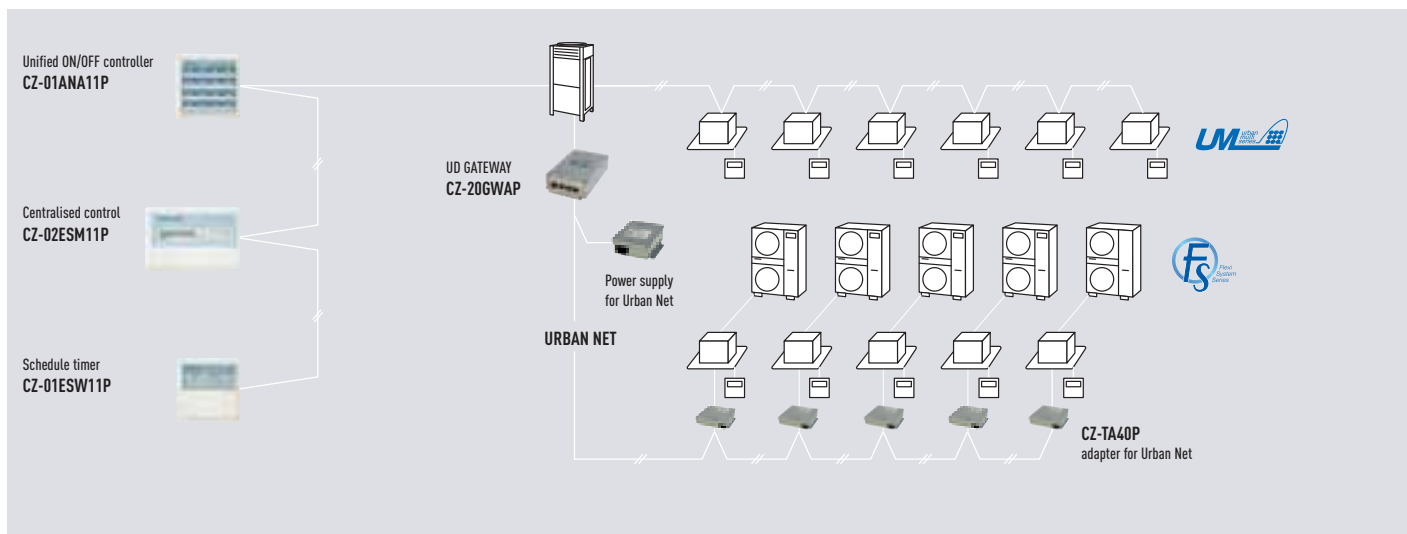


CENTRALISED CONTROL SYSTEMS

THESE CONTROLS CAN BE INDEPENDENT OR COMBINED. IN THE LATTER FORM ONE GROUP IS EQUIVALENT TO SEVERAL INDOOR UNITS (UP TO 16) COMBINED AND ONE AREA TO SEVERAL GROUPS COMBINED.

CENTRALISED REMOTE CONTROL IS THE IDEAL SOLUTION IN THE CASE OF LEASED COMMERCIAL BUILDINGS WHICH MAY HAVE DIFFERENT OCCUPANCY RATES, SINCE THE INDOOR UNITS CAN BE DISTRIBUTED IN GROUPS BY LESSEE (DISTRIBUTION BY AREAS). THE LESSEE CAN CONFIGURE THE PROGRAMME AND THE OPERATING CONDITIONS USING THE TIMER AND EASILY RESTART THE CONTROL ACCORDING TO DIFFERING NEEDS.

EXAMPLE OF A SYSTEM WITH CENTRALISED CONTROL (UM NET)



PROGRAMMER CONTROLLER

CZ-01ESW11P

- Enables programming of 64 groups.
- Up to 128 indoor units can be controlled
 - 8 types of weekly programming
 - Stand-by power supply for a maximum of 48 hours
 - Maximum wiring length, 1,000 m (total: 2,000 m)



UNIFIED ON/OFF CONTROLLER

CZ-01ANA11P

- Permits individual and simultaneous control of 16 groups of indoor units.
- Up to 16 groups can be controlled (128 indoor units)
 - Use of 2 remote controls located in different places for operating mode (normal, alarm)
 - Centralised control indicator
 - Maximum wiring length, 1,000 m (total: 2,000 m)



CENTRALISED REMOTE CONTROL

CZ-02ESM11P

- Permits individual control of 64 groups (areas) of indoor units.
- Up to 64 groups can be controlled (128 indoor units, max. of 10 outdoor units)
 - 128 groups, maximum, can be controlled (128 indoor units, max. of 10 outdoor units) using 2 centralised remote controllers located in separate locations
 - Zone control
 - Fault code indicator
 - Maximum wiring length, 1,000 m (total: 2,000 m)



ADAPTER FOR EXTERNAL SIGNALS

CZ-TA31P

- A fan outside the indoor unit can be controlled
- External remote controller for switching the indoor unit ON/OFF
- Indoor unit status outputs (operating mode, fault)
- Accesory designed for Commercial FS



ADAPTER FOR URBAN NET

CZ-TA40P

- Connecting board for Urban Net for centralised control of FS range indoor units



ADAPTER FOR ADDRESSING

CZ-TA50P

- Board for manual adjustment of indoor unit addresses for centralised control. Use for setting addresses before connecting the indoor unit to the power and when there is no remote control.



POWER SUPPLY

CZ-TE20P

- Power supply for Urban Net (one unit for each Urban Net network)



CONNECTION INTERFACE FOR URBAN NET AND UM NET

CZ-20GWAP

- Indoor units controllable: 64
- Control functions: ON/OFF, Operating mode, Temperature adjustment, Fan speed, Air direction, Fault information, Suction temperature, Filter status information.



SERIAL INTERFACE UNIT

CZ-01FULAP

- Indoor units controllable: 64
- External connection: RS232C

URBAN CONTROLLER

URBAN CONTROLLER, THE SYSTEM THAT LINKS AIR CONDITIONING TO THE ENVIRONMENT.



PANASONIC'S URBAN CONTROLLER PROVIDES THE PERFECT PC-BASED SOLUTION FOR BUILDING MANAGEMENT CONTROL REQUIREMENTS; FOR PANASONIC AIR CONDITIONERS AND A HOST OF OTHER PRODUCTS. URBAN CONTROLLER IS WINDOWS™-BASED SOFTWARE WHICH PROVIDES VARIOUS LEVELS OF CONTROL DEPENDING ON THE USER'S NEEDS.

NOT ONLY DOES URBAN CONTROLLER GUARANTEE CONTROL OVER YOUR AIR CONDITIONING, USING OUR DIO ADAPTER PERMITS MECHANICAL INTERACTION WITH OTHER ELEMENTS IN THE BUILDING, SUCH AS FIRE ALARMS, LIGHTS AND ANYTHING YOU CAN THINK OF.

The easiest way of achieving the desired temperature. The Urban Controller program stands out due to its functionality because it permits meticulous climate control in each room to achieve the temperature you want when you want it. It is an easy-to-use program which makes the task of controlling and managing temperature easier.

GENERAL FEATURES

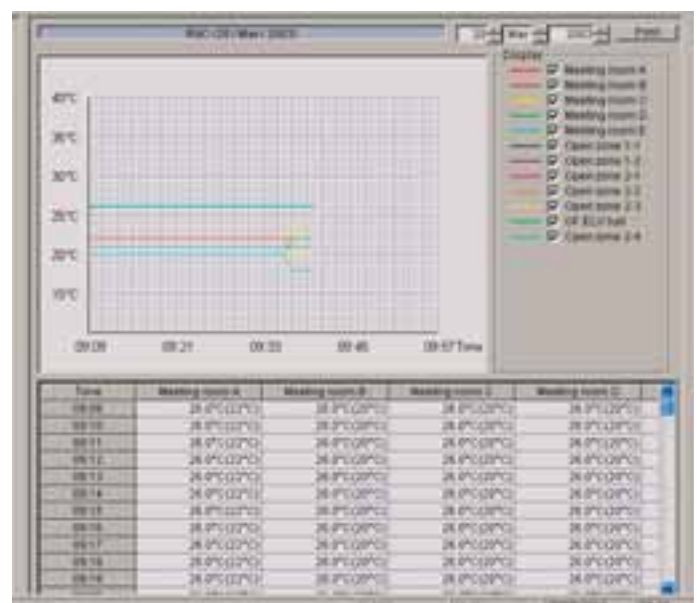
- Up to 254 indoor units
- Unlimited outdoor units
- Up to 50 groups of indoor units can be programmed
- Graphical user interface for visual control of temperature and external devices by means of a schematic function enabling the use of up to 20 interactive diagrams (diagrams need to be in jpg or bmp format to be integrated into Urban Controller)
- Up to 1,024 external signals (512 inputs and 512 outputs, 64 CZ-01APCAP cards)
- User directive with three different access levels (administration, control and monitoring)
- User connection log
- Manual programming

CONTROL OF THE AIR CONDITIONING SYSTEM

- Activation/deactivation of the indoor units in the same group
- Activation/deactivation of each indoor unit
- Individual and group control of indoor units:
 - Operating mode: heating, cooling, ventilation, automatic
 - Fan speed
 - Set-point temperature
 - Blade opening
 - Locking by remote control
- Setting of maximum and minimum temperature limits
- Monitoring of suction temperature evolution in indoor units
- Logging of operations (time, operating status) with one month memory
- Log of operation interruptions with one month memory
- Logging of user actions (action, time, date, user, etc.) with one month memory
- Programming for automatic e-mail notification in the event of interruption or malfunction and if a filter change is required (up to 3 e-mail addresses in case of malfunction)
- Display of operating time for each outdoor unit It can be programmed to activate a reminder alarm once the operating time limit has been exceeded.
- Logging of operating time limit alarms
- Clear, explicit interface display (colour codes, etc)
- Indication of malfunctions and/or air filter replacement
- Individual and group activation/deactivation of indoor units by means of interactive diagrams

PROGRAMMER

- Programming of the installation operating schedule
- Annual programming. Four different types of day can be defined
- Summer/winter programming. Season specification. Automatic heating/cooling change
- Programming of each indoor unit: deactivation/activation, operating mode (heating, cooling, ventilation, etc), temperature setting and locking by remote control
- Programming of each outdoor device: deactivation/activation
- Configuration of 10 daily programs
- Programming of up to 10 operating criteria (modes for night-time, morning, extreme cold, etc.)





WITH URBAN CONTROLLER YOU CAN CONTROL THE TEMPERATURE AND ALSO A HOST OF EXTERNAL DEVICES AFFECTING SAFETY AND SECURITY IN THE HOME, THE OFFICE, IN BUILDINGS AND FLOORS OF BUILDINGS, SUCH AS FIRE ALARMS, INTRUDER ALARMS AND E-MAIL CONFIGURATIONS FOR SENDING NOTIFICATIONS. ALL THESE ELEMENTS CAN BE MANAGED BY URBAN CONTROLLER: A NEW SYSTEM CREATED TO CENTRALISE TEMPERATURE CONTROL IN ONE COMPUTER THAT CAN ACT IN THE EVENT OF ANY UNFORE-SEEN SITUATION.



EXTERNAL INTERACTIONS

Urban Controller enables interaction with elements outside of temperature control by means of the external device card:

CZ-01APCAP (DIO). Two different types of elements can be differentiated: those which are controlled and programmed through Urban Controller (external devices) and those which can act on temperature control (input signals).

EXTERNAL DEVICES

- General activation/deactivation of devices in the same group
- Separate ON/OFF for each external device
- ON/OFF programming for each external device using the programmer
- Historical log of operations (time, action) with one month memory
- Log of interruptions during operation (external input signals can be set as status indicators and errors in the external devices) with one month memory
- Log of actions carried out by the users (action, time, date, user, etc.) with one month memory
- Display of accumulated operating time for each external device. It can be programmed to activate a reminder alarm once the operating time limit has been passed. This is very useful for maintenance tasks.
- Logging of operating time limit alarms
- Individual and group activation/deactivation of indoor units by means of interactive diagrams.



EXTERNAL ALARMS

- Configuration of the temperature control reaction (general or individual) as a response to activation/cancellation of external alarms: only activation/deactivation of the equipment
- Alarm log
- Programming of e-mail notifications in the event of malfunctions
- Display of alarm details: activation and capture

EXTERNAL SIGNALS

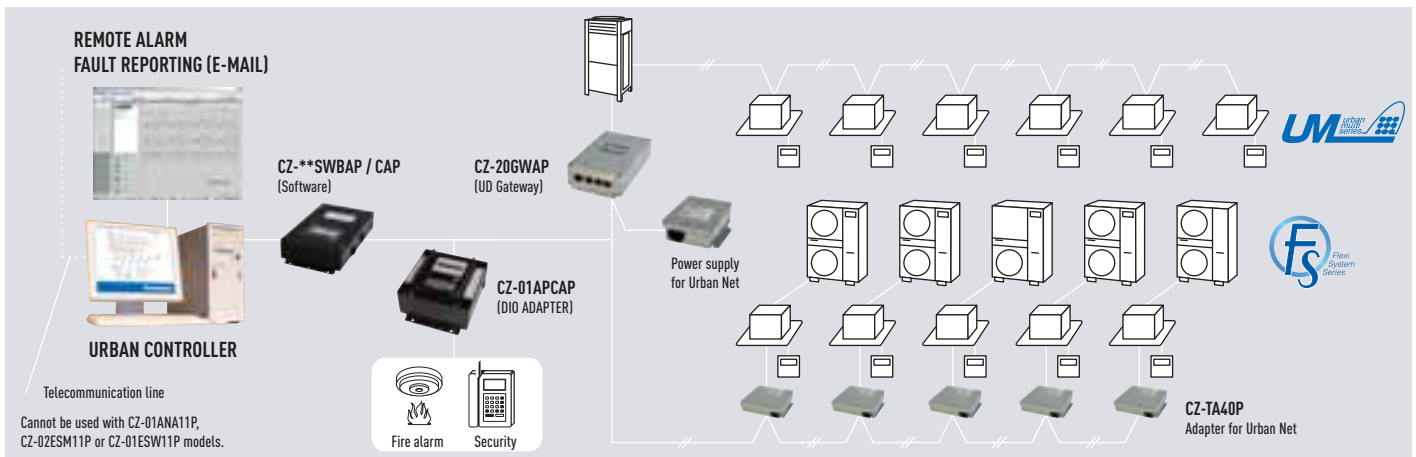
- Configuration of the temperature control reaction (general or individual) as a response to activation/cancellation of an external input signal: deactivation/activation, operating mode (heating, cooling, ventilation, etc), temperature set-point and locking by remote control

PRODUCT RANGE

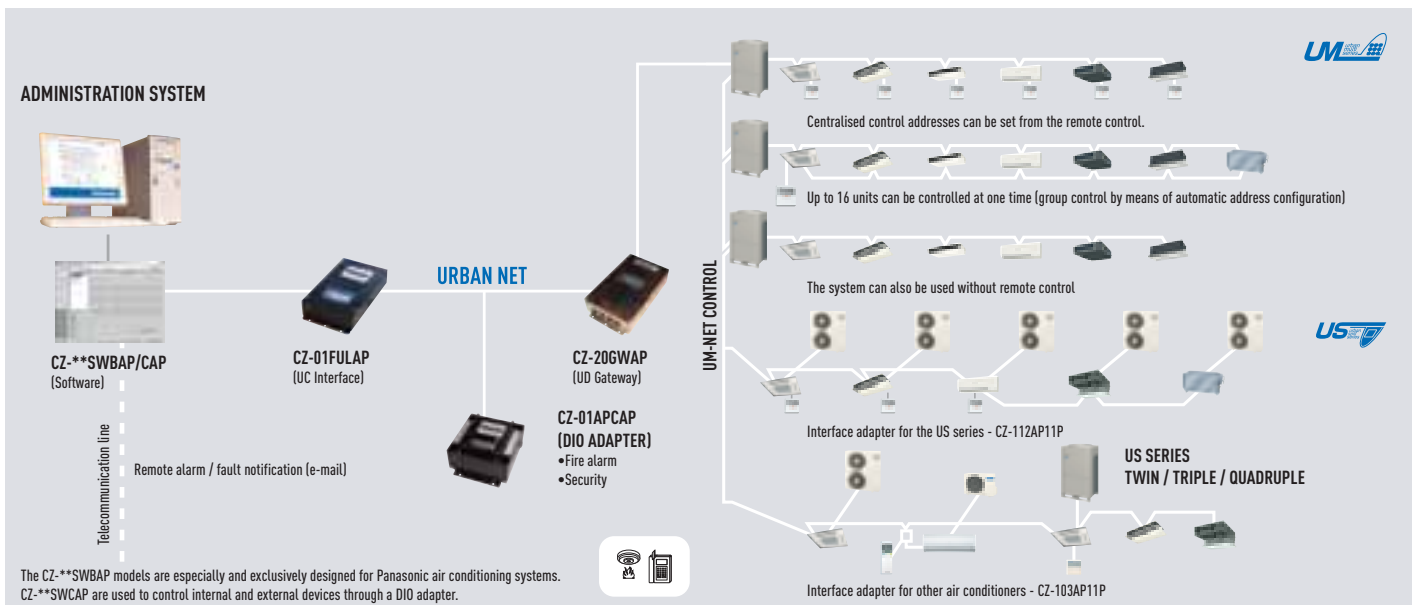
Product No.	Maximum number of connectable indoor units	Option for connecting external devices
CZ-10SWBAP	64 units	No
CZ-10SWCAP	64 units	Yes
CZ-11SWBAP	128 units	No
CZ-11SWCAP	128 units	Yes
CZ-12SWBAP	192 units	No
CZ-12SWCAP	192 units	Yes
CZ-13SWBAP	254 units	No
CZ-13SWCAP	254 units	Yes



URBAN CONTROLLER TEMPERATURE CONTROL NETWORK COMBINED WITH THE FS RANGE



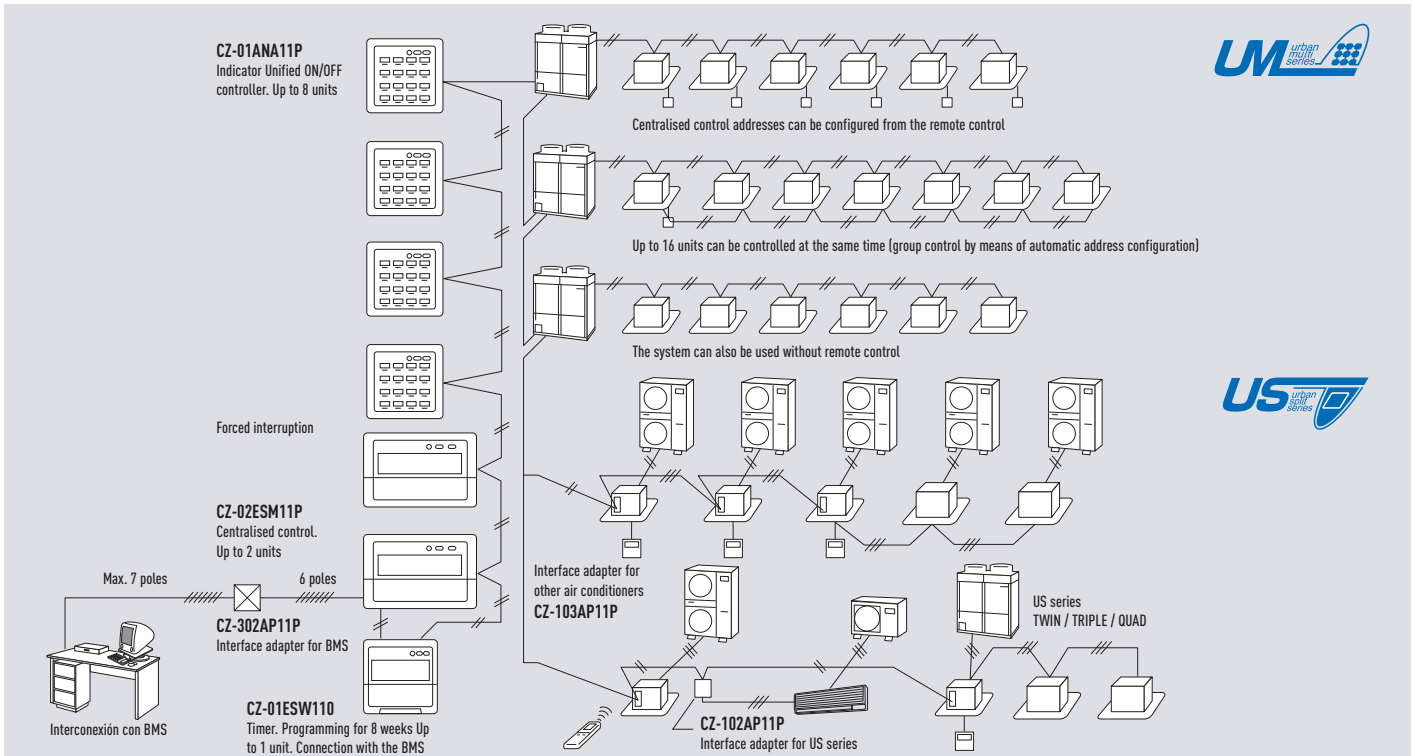
URBAN CONTROLLER TEMPERATURE CONTROL NETWORK COMBINED WITH THE US RANGE



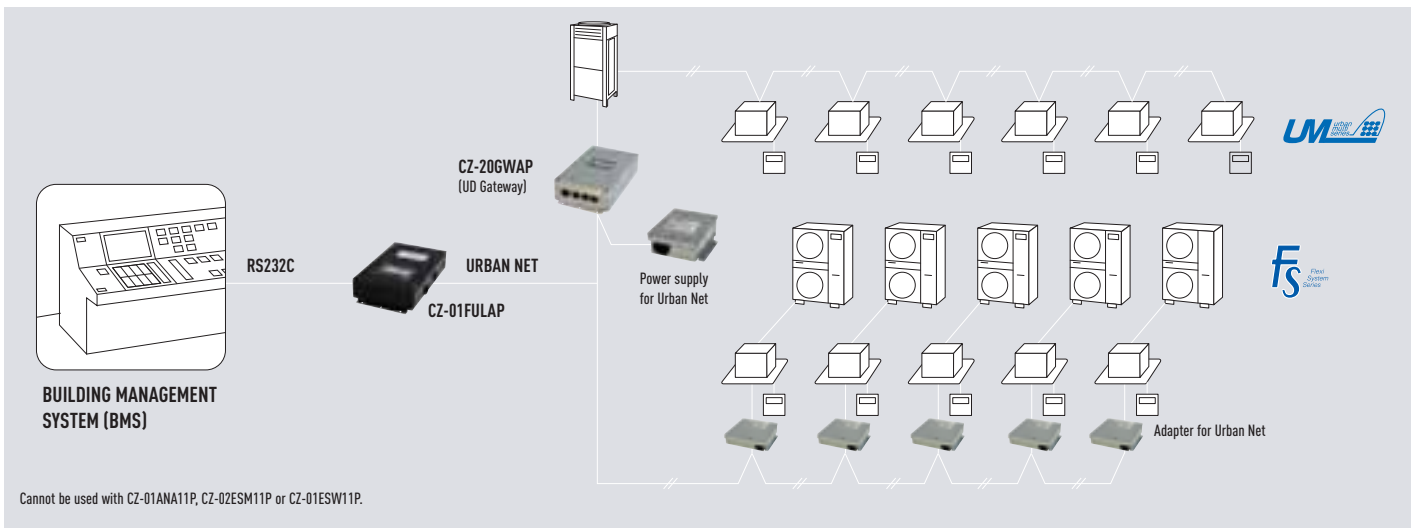
The CZ-**SWBAP models are especially and exclusively designed for Panasonic air conditioning systems. CZ-**SWCAP are used to control internal and external devices through a DIO adapter.

CONTROL NETWORK FOR AIR CONDITIONING SYSTEMS

CENTRALISED CONTROL SYSTEM IN WHICH SEVERAL CONTROLS CAN BE COMBINED ACCORDING TO THE USER'S SPECIFIC NEEDS. THE RANGE OF CONTROLS ADDS ADVANCED FUNCTIONS AND OFFERS FLEXIBILITY IN CONFIGURING THE SYSTEM. THERE IS ALSO A WIDE RANGE OF ADAPTERS FOR THE VARIOUS CONTROL SYSTEMS.



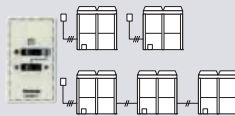
EXAMPLE OF A SYSTEM WITH BMS CONTROL (RS232C SERIAL CONNECTION)



CONTROLLERS AND ADAPTERS

CZ-02RD11P

- Air conditioning/ventilation selection
- Cooling/heating selection



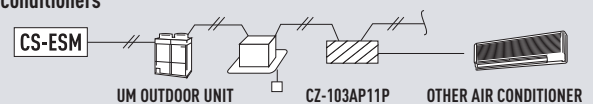
Cooling/heating controller for the outdoor unit

Enables the cooling, heating and ventilating operating mode for each outdoor unit to be changed at the push of a button. Allows the operating mode to be changed for several outdoor units at the same time by means of a single remote control (an external control adapter must be available).

CZ-103AP11P

- ON/OFF selection
- Operation information
- Failure information

Interface adapter for other air conditioners



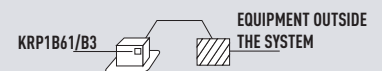
KRP1B61/B3¹⁾

- Information on compressor operation B61
- Information on fan operation
- Interconnector OA
- Auxiliary heating output signal

Board for external element control

B61 (LM3, FM3, EM3, NM, DM3, PM3, RM3)

B3 (KM3, TM3)



CZ-109AP11P

UM-net gateway for a maximum of 1,024 indoor units

RANGE OF BMS INTERFACE ADAPTERS

CZ-302AP11P

- ON/OFF selection
- ON/OFF status
- Failure notification

Interface adapter to BMS for the CZ-ESM controller (unified operation of the whole system)



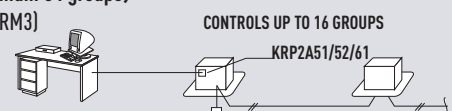
KRP2A51/52/61¹⁾

- ON/OFF selection
- Selection of temperature settings
- ON/OFF status
- Failure notification

Interface adapter to BMS for groups (maximum 64 groups)

A51 (LM3, FM3, EM3, DM3, NM3, KM3, PM3, RM3)
A52 (UM4, TM3, YM3)
A61 (DM3, NM3)

* Does not work with CZ-ESM/ANA/ESW



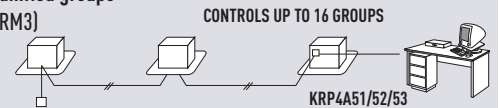
KRP4AA51/A52/A53¹⁾

- ON/OFF selection
- Selection of temperature settings
- ON/OFF status
- Failure notification

Interface adapter to BMS for individual or unified groups

A51 (LM3, FM3, EM3, DM3, NM3, KM3, PM3, RM3)
A52 (TM3)
A53 (UM4, YM3)

* Does not work with CZ-ESM/ANA/ESW



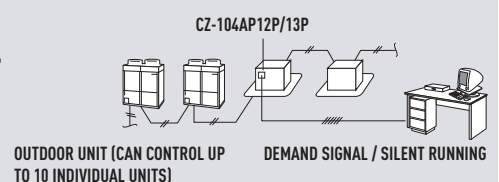
CZ-104AP12P/13P¹⁾

- Selection of operating mode
- Selection of night-time operation A51
- Control of demand

Interface adapter to BMS for outdoor unit

12P (EM3, KM3, DM3, PM3, RM3, NM3, FM3),
13P (YM3, TM3, UM4)

* Must be installed on the indoor unit side



- Cooling/heating selector: allows selection between cooling and heating modes for a maximum of 10 outdoor units
 - Quiet operation control: enables activation of the outdoor unit's quiet mode by pressing the switch
 - Control of the demand signal: allows selection between three setting positions: operation at 70%, operation at 40% and automatic deactivation of the thermostat by pressing the switch.
- 1) Adapter installation box required for the LM3, UM4, TM3 and NM3 series. Panasonic offers a wide range of accessories. To consult these, see the final pages of this catalogue.

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