Mitsubishi Heavy Industries, Ltd. (MHI), are unswervingly dedicated to facing the challenges of the future.

MHI are dedicated to supporting global sustainability by offering the most energy-efficient air-conditioning systems. Through our in-depth research and development we are able to incorporate new technologies within our units to maximise their energy efficiency and significantly reduce carbon emissions.

Environmental Impact

MHI recognises the increasing importance of reducing carbon emissions as this is becoming a priority when selecting air and water distribution systems. Furthermore new technologies are constantly being developed to help meet heating and cooling requirements as well as environmental objectives.

The future of our planet rests in the sustained evolution of humankind while caring, with love and responsibility, for all life forms that inhabit it. Therefore MHI will continue to develop new technologies and products and will remain competitive in the market to achieve a sustainable future.

ISO9001
Our Air Conditioning & Refrigeration Systems Headquarters is an ISO9001 approved factory for residential air conditioners and commercial-use air conditioners (including heat pumps).

BIWAJIMA PLANT
Mitsubishi Heavy Industries, Ltd.
Air-conditioning & Refrigeration Systems Headquarters
Certified ISO 9001
Certificate number : JQA-0709

MITSUBISHI HEAVY INDUSTRIES-MAHAJAK AIR CONDITIONERS CO., LTD.
Certified ISO 9001
Certificate Number : 04100 1998 0813

MITSUBISHI HEAVY INDUSTRIES-MAHAJAK AIR CONDITIONERS CO.,LTD.
Certificate Number : 04104 1998 0813 E5

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MOVE THE WORLD FORWARD MITSUBISHI HEAVY INDUSTRIES GROUP

VRF inverter multi-system Air-Conditioners

MITSUBISHI HEAVY INDUSTRIES
THERMAL SYSTEMS

KXZ2

KXZ Heat Pump System

Heat pump systems operate with 2 inter-connecting pipes and are commonly referred to as '2-pipe systems'. These systems provide either a heating or cooling operation to all indoor units at the same time and are suitable for a wide range of applications from an apartment or villa to an entire multi - story building, especially when there are significant open plan areas to be controlled.

The KXZ2 range starts from a cooling capacity of 10 HP (28.0 kW) and expands up to 20 HP (56.0 kW) using a single outdoor unit. Our KXZ2 units can also be used as a modular system (twin or triple) providing up to 60 HP (168.0 kW) of cooling capacity.

PRODUCT LINE-UP

There are multiple combinations of the KXZ Heat pump, KXZ cooling only series to suit a huge range and variety of applications.

KXZA2	CKXZA2	KXZA2/CKXZA2
Heat Pump	Cooling only	Heat Pump/Cooling only [Corrosion Protection Treatment]
10 - 60HP	10 - 60HP	10 - 60HP

KXZ VRF series delivers high cooling/heating performance for all commercial, leisure, retail and office applications.

High Efficiency & Comfort	• High energy efficiency with advanced technology • Energy saving control by VTCC (Variable Temperature & Capacity Control) • Individual, centralised and customised comfort control
Easy & Customized Control	• Individual advanced control by wired and wireless remote controller. • Various options for BMS & Centralised control
Design Flexibility	• Various types of indoor unit suiting all applications. • Long piping length and wide limitation of piping. • Easy selection and design software
Good Serviceability	• Easy access for maintenance • Engineering and monitoring tool available

Product Line Up

KXZA2 Heat Pump	HP	10	12	14	16	17	18	20	22	24	26	28	30	32	34
	Maximum No. of Connectable Indoor Units	24	29	34	39	41	43	48	53	58	63	69	73	78	80
	HP	36	38	40	42	44	46	48	50	52	54	56	58	60	
	Maximum No. of Connectable Indoor Units	80	80	80	80	80	80	80	80	80	80	80	80	80	

KXZA2 Heat Pump Hi-COP Combination	HP	20	30	32	34	36	38	40
	Maximum No. of Connectable Indoor Units	48	73	78	80	80	80	80

CKXZA2 Cooling Only	HP	10	12	14	16	17	18	20	22	24	26	28	30	32	34
	Maximum No. of Connectable Indoor Units	24	29	34	39	41	43	48	53	58	63	69	73	78	80
	HP	36	38	40	42	44	46	48	50	52	54	56	58	60	
	Maximum No. of Connectable Indoor Units	80	80	80	80	80	80	80	80	80	80	80	80	80	

CKXZA2 Cooling Only Hi-COP Combination	HP	20	30	32	34	36	38	40
	Maximum No. of Connectable Indoor Units	48	73	78	80	80	80	80

* Corrosion Protection Treatment models has the same line up.

By combining 3 outdoor units 60HP can be achieved.

DESIGN FLEXIBILITY & EFFICIENCY

Our KXZA2 series provide high performance and excellent energy savings across the range and is achieved by our heat exchangers increased capacity and the employment of high efficiency DC motors of our indoor units.

Excellent Energy Savings

Outdoor unit (KXZA2)	FDC280KXZA2	FDC335KXZA2	FDC400KXZA2	FDC450KXZA2	FDC475KXZA2	FDC500KXZA2	FDC560KXZA2
EER / COP (Outdoor unit)	3.86/4.25	3.73/4.15	3.64/4.40	3.22/4.00	3.40/4.08	3.57/4.13	3.20/3.90

Outdoor unit (KXZA2) Cooling only	FDC280CKXZA2	FDC335CKXZA2	FDC400CKXZA2	FDC450CKXZA2	FDC475CKXZA2	FDC500CKXZA2	FDC560CKXZA2
EER (Outdoor unit)	3.86	3.73	3.64	3.22	3.40	3.57	3.20

Indoor Unit Capacity Connection

Increased indoor units capacity connection due to increased outdoor unit receiver size. Indoor units can be connected to the KXZA2 series, with a range of 17 types of exposed or concealed indoor units over several capacities. The tables show the maximum capacity connection range for each model:

Heat Pump Models

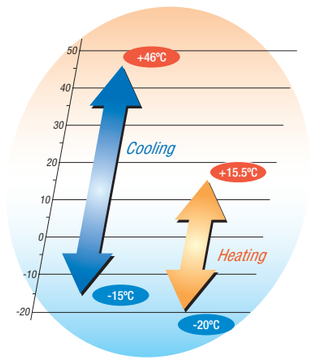
	HP	Capacity Connection
KXZA2	10 - 60	130%
KXZA2 Hi-COP	20 - 40	130%

Cooling only Models

	HP	Capacity Connection
KXZA2 Cooling only	10 - 60	130%
KXZA2 Hi-COP Cooling only	20 - 40	130%

Wide Range of Operation

Our KXZA2 series enable a heating range operation down to -20°C and a cooling range up to 46°C.



KXZA2 (10HP to 60HP)

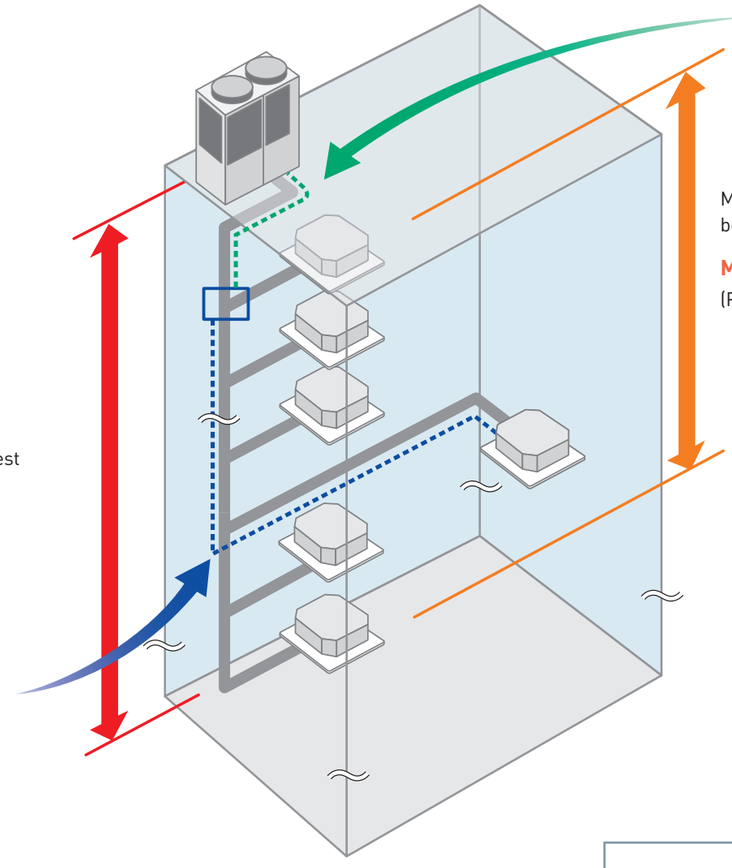
Long Pipe Runs 10-60HP

The piping length of our KXZA2 systems have been extended with a maximum height difference between indoor units of up to 30m enabling installation of indoor units on an extra three floors. Also, the furthest unit can be installed up to 160m from outdoor unit.

A total piping length of 1000m can be used with our KXZA2 systems (10-60HP) allowing flexibility and solutions for numerous applications.

Furthest indoor unit:
Actual length
160m
Equivalent length
185m

To the first branch:
Max **130m**



Max height difference between indoor units *2:
Max **30m**
(Previous:18m)

From the first branch to the furthest indoor unit *1
Max **90m**
(Previous:70m)

Piping length after the first branch
Max **90m**

Total length: **1,000m**

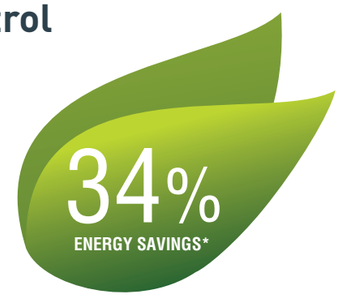
*1 The difference between the longest and the shortest indoor unit piping from the first branch must be within 40m. (MAX85m)
*2 It is necessary to change the setting corresponding to each height difference installation. The range of use is also different.

KXZ-VRF REDESIGNED

Energy Saving Technologies

Via Variable Temperature and Capacity Control

VTCC adjusts the target pressure of the refrigerant cycle in the outdoor unit automatically according to the demand of the indoor units in partial load conditions. These smooth adjustments ensure optimal usage of the indoor units as well as maximised energy savings. Ultimately this also increases comfort for the user.

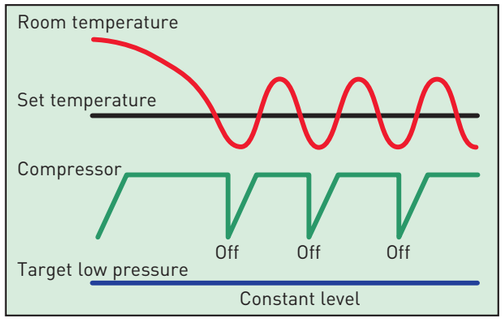


*34% energy savings are based on comparison with a KXZ standard model with VTCC vs. a KXZ standard model both under partial load condition.

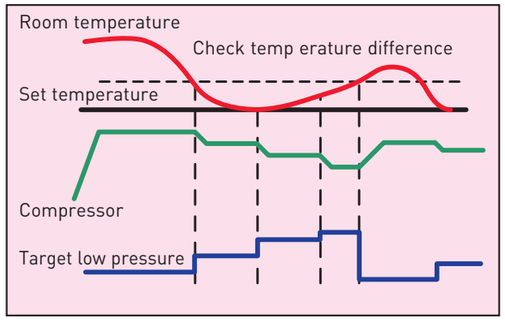
VTCC

- The VTCC is a unique energy saving function designed by MHI.
- It is a feature for all our KXZ ranges which provides up to 34%* energy savings in both cooling and heating mode.
- VTCC is a function specifically designed to maximise energy savings in partial load conditions throughout all seasons.
- 34% energy saving - based on comparison with a KXZ standard model with VTCC vs. a KXZ standard model both under partial load condition.

Normal operation (in the cooling mode)



Energy saving operation (in the cooling mode)



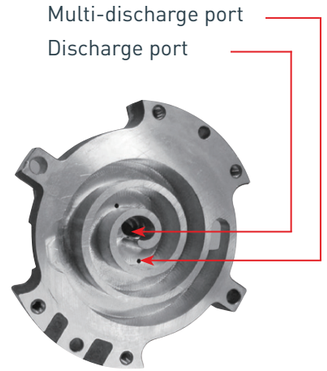
Advances in technologies ensure our KXZ series are efficient, energy saving and reliable.

Improved Scroll Compressor

The enhanced KXZ multiport compressor includes two additional discharge ports. This optimises the pressure control within the compressor.

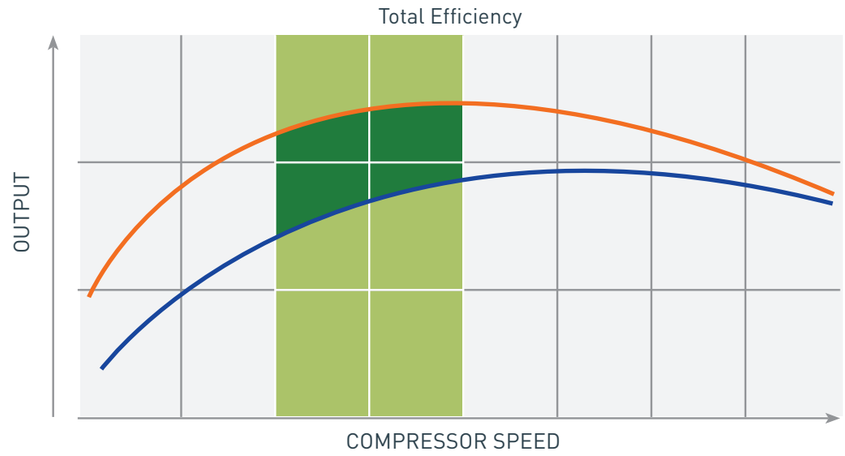
The combination of the new multi discharge compressor and the new concentrated winding motor increases the energy efficiency of the compressor in partial load conditions.

This scroll compressor has proven to be extremely reliable and uses the latest compressor technology.



Concentrated winding motor achieves

"High Output" and "Total Efficiency Improvement"

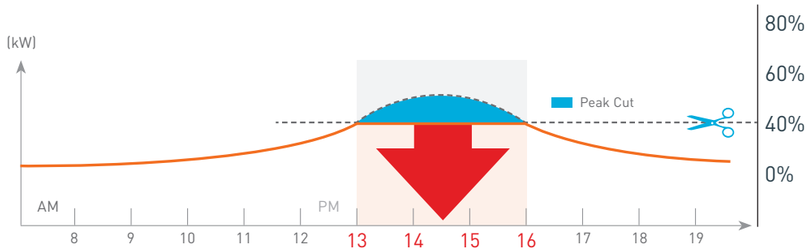


Continuous Heating Capacity Control (CHCC)

Our CHCC defrosting control allows our KXZA2 system to achieve greater capacities than that of our previous model (KXZ) in low ambient temperature conditions. CHCC controls the target pressure automatically before the capacity drops, which increases the period of heating operation and reduces the systems defrosting time.

Peak Cut Control

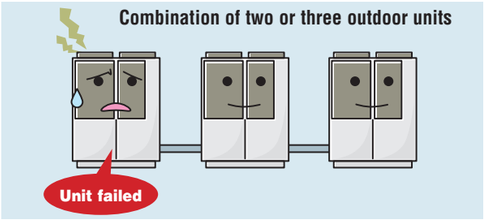
The peak cut function can easily be set on the controller. This function makes the control of the capacity easier and allow a better energy management over the long term. Four steps of capacity control are available with 80%, 60%, 40%, 0% (off). Schedule can be set up to 4 operations/day.



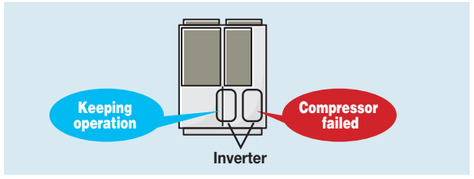
Reliability

Back-up Operation

In the event that one unit has a failure, the system will continue to operate with the remaining units.



For single outdoor units with 2 compressors, if one compressor fails then the system will continue to operate using the second compressor.



Emergency STOP Function

- KXZ units have control for emergency stop via an external input, i.e. an alarm can be connected to the PCB (Printed Circuit Board).
- The external input can also be used to connect to the leak detection system (as per BREEAM requirements).

PRIORITY OPERATION MODE RULE

The KXZ has four operation modes:

1 **First Indoor Unit Operation Mode**

The first indoor unit to operate will set the operation mode

2 **Last Indoor Unit Operation Mode**

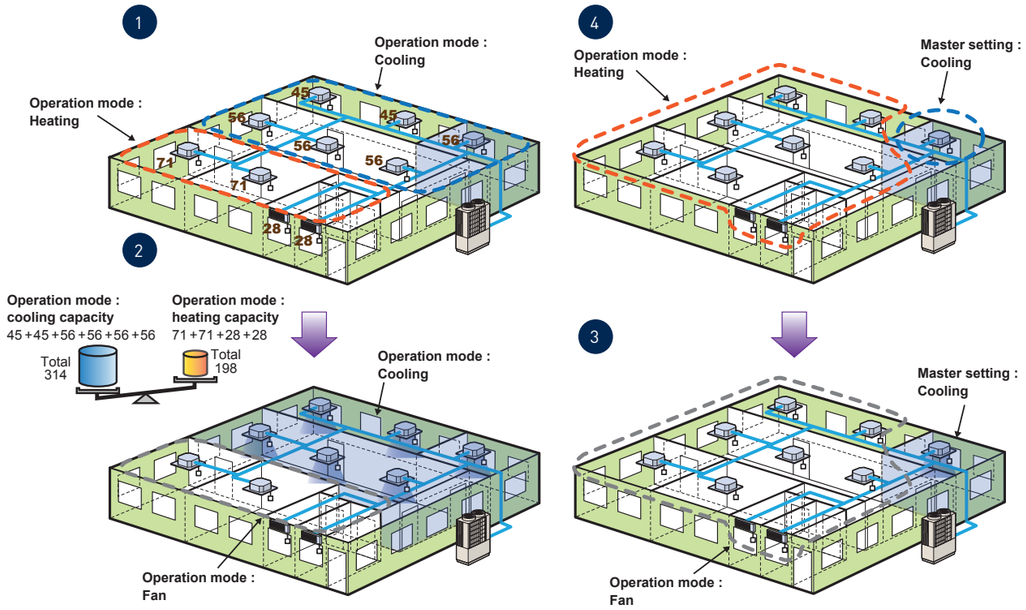
The last indoor unit to operate will set the operation mode

3 **Majority Operation Mode**

The mode selected by the majority of indoor units in operation (whichever has the greatest capacity between the cooling or heating mode request). Indoor units with a different operation mode will automatically switch to fan mode.

4 **Master Operation Mode**

This is the mode selected by the nominated master indoor unit. Indoor units with a different operation mode will automatically switch to fan mode.



Specifications

KXZA2 Standard series

Item			Model	FDC280KXZA2	FDC335KXZA2	FDC400KXZA2	FDC450KXZA2	FDC475KXZA2	FDC500KXZA2	FDC560KXZA2
Nominal horse power				10HP	12HP	14HP	16HP	17HP	18HP	20HP
Power source				3 Phase 380-415V, 50Hz						
Starting current			A	5				8		
Max current			A	20.1		32.0		40.2		
Nominal capacity	Cooling		kW	28.0	33.5	40.0	45.0	47.5	50.0	56.0
	Heating			31.5	37.5	45.0	50.0	53.0	56.0	63.0
Electrical characteristics	Power consumption	Cooling	kW	7.25	8.98	10.98	13.98	13.97	14.01	17.50
		Heating		7.41	9.03	10.23	12.50	12.99	13.56	16.15
Exterior dimensions	HxWxD		mm	1697x1350x720		2052x1350x720				
Net weight			kg	284		328		374		
Sound pressure level	Cooling/Heating		dB(A)	56/57	63/62	60/62	61/62	61/61	61/62	63/64
Capacity connection			%	50~130						
Number of connectable indoor units				24	29	34	39	41	43	48

Item			Model	FDC615KXZA2	FDC670KXZA2	FDC735KXZA2	FDC800KXZA2	FDC850KXZA2	FDC900KXZA2	FDC950KXZA2
Nominal horse power				22HP	24HP	26HP	28HP	30HP	32HP	34HP
Power source				3 Phase 380-415V, 50Hz						
Starting current			A	10						16
Max current			A	40.2		52.1	64.0			80.4
Nominal capacity	Cooling		kW	61.5	67.0	73.5	80.0	85.0	90.0	95.0
	Heating			69.0	75.0	82.5	90.0	95.0	100.0	106.0
Electrical characteristics	Power consumption	Cooling	kW	16.24	17.96	19.96	21.96	24.96	27.95	27.94
		Heating		16.44	18.06	19.26	20.45	22.73	25.00	25.98
Exterior dimensions	HxWxD		mm	1697x2700x720		2052x2700x720				
Net weight			kg	567		611	655			747
Capacity connection			%	50~130						
Number of connectable indoor units				53	58	63	69	73	78	80

Item			Model	FDC1000KXZA2	FDC1060KXZA2	FDC1120KXZA2	FDC1200KXZA2	FDC1250KXZA2	FDC1300KXZA2	FDC1350KXZA2
Nominal horse power				36HP	38HP	40HP	42HP	44HP	46HP	48HP
Power source				3 Phase 380-415V, 50Hz						
Starting current			A	16			15			
Max current			A	80.4			96.0			
Nominal capacity	Cooling		kW	100.0	106.0	112.0	120.0	125.0	130.0	135.0
	Heating			112.0	119.0	126.0	135.0	140.0	145.0	150.0
Electrical characteristics	Power con-sumption	Cooling	kW	28.02	31.51	35.00	32.94	35.94	38.93	41.93
		Heating		27.12	29.71	32.31	30.68	32.95	35.23	37.50
Exterior dimensions	HxWxD		mm	2052x2700x720			2052x4050x720			
Net weight			kg	747			982			
Capacity connection			%	50~130						
Number of connectable indoor units				80						

Item			Model	FDC1425KXZA2	FDC1450KXZA2	FDC1500KXZA2	FDC1560KXZA2	FDC1620KXZA2	FDC1680KXZA2
Nominal horse power				50HP	52HP	54HP	56HP	58HP	60HP
Power source				3 Phase 380-415V, 50Hz					
Starting current			A	24					
Max current			A	120.6					
Nominal capacity	Cooling		kW	142.5	145.0	150.0	156.0	162.0	168.0
	Heating			159.0	162.0	168.0	175.0	182.0	189.0
Electrical characteristics	Power consumption	Cooling	kW	41.91	41.95	42.03	45.52	49.01	52.50
		Heating		38.97	39.54	40.68	43.27	45.87	48.46
Exterior dimensions	HxWxD		mm	2052x4050x720					
Net weight			kg	1120					
Capacity connection			%	50~130					
Number of connectable indoor units				80					

KXZA2 Hi-cop combination

Item			Model	FDC560KXZXA2	FDC850KXZXA2	FDC900KXZXA2	FDC950KXZXA2	FDC1000KXZXA2	FDC1060KXZXA2	FDC1120KXZXA2
Nominal horse power				20HP	30HP	32HP	34HP	36HP	38HP	40HP
Power source				3 Phase 380-415V, 50Hz						
Starting current			A	10	15					
Max current			A	40.2	60.3				72.2	84.1
Nominal capacity	Cooling		kW	56.0	84.0	89.5	95.0	100.5	107.0	113.5
	Heating			63.0	94.5	100.5	106.5	112.5	120.0	127.5
Electrical characteristics	Power consumption	Cooling	kW	14.51	21.76	23.49	25.22	26.94	28.94	30.94
		Heating		14.82	22.23	23.85	25.47	27.09	28.29	29.48
Exterior dimensions	HxWxD		mm	1697x2700x720	1697x4050x720				2052x4050x720	
Net weight			kg	567	850				894	938
Capacity connection			%	80~130						
Number of connectable indoor units				48	73	78	80			

KXZA2 Standard series Cooling only

Item		Model	FDC280CKXZA2	FDC335CKXZA2	FDC400CKXZA2	FDC450CKXZA2	FDC475CKXZA2	FDC500CKXZA2	FDC560CKXZA2
Nominal horse power			10HP	12HP	14HP	16HP	17HP	18HP	20HP
Power source			3 Phase 380-415V, 50Hz						
Starting current		A	5				8		
Max current		A	20.1		32.0		40.2		
Nominal capacity		kW	28.0	33.5	40.0	45.0	47.5	50.0	56.0
Electrical characteristics	Power consumption	kW	7.25	8.98	10.98	13.98	13.97	14.01	17.50
Exterior dimensions	HxWxD	mm	1697x1350x720		2052x1350x720				
Net weight		kg	284		328		374		
Sound pressure level	Cooling	dB(A)	56	63	60	61	61	61	63
Capacity connection		%	50~130						
Number of connectable indoor units			24	29	34	39	41	43	48

Item		Model	FDC615CKXZA2	FDC670CKXZA2	FDC735CKXZA2	FDC800CKXZA2	FDC850CKXZA2	FDC900CKXZA2	FDC950CKXZA2
Nominal horse power			22HP	24HP	26HP	28HP	30HP	32HP	34HP
Power source			3 Phase 380-415V, 50Hz						
Starting current		A	10						16
Max current		A	40.2		52.1	64.0			80.4
Nominal capacity		kW	61.5	67.0	73.5	80.0	85.0	90.0	95.0
Electrical characteristics	Power consumption	kW	16.24	17.96	19.96	21.96	24.96	27.95	27.94
Exterior dimensions	HxWxD	mm	1697x2700x720		2052x2700x720				
Net weight		kg	567		611	655			747
Capacity connection		%	50~130						
Number of connectable indoor units			53	58	63	69	73	78	80

Item		Model	FDC1000CKXZA2	FDC1060CKXZA2	FDC1120CKXZA2	FDC1200CKXZA2	FDC1250CKXZA2	FDC1300CKXZA2	FDC1350CKXZA2
Nominal horse power			36HP	38HP	40HP	42HP	44HP	46HP	48HP
Power source			3 Phase 380-415V, 50Hz						
Starting current		A	16			15			
Max current		A	80.4			96.0			
Nominal capacity		kW	100.0	106.0	112.0	120.0	125.0	130.0	135.0
Electrical characteristics	Power consumption	kW	28.02	31.51	35.00	32.94	35.94	38.93	41.93
Exterior dimensions	HxWxD	mm	2052x2700x720			2052x4050x720			
Net weight		kg	747			982			
Capacity connection		%	50~130						
Number of connectable indoor units			80						

Item		Model	FDC1425CKXZA2	FDC1450CKXZA2	FDC1500CKXZA2	FDC1560CKXZA2	FDC1620CKXZA2	FDC1680CKXZA2
Nominal horse power			50HP	52HP	54HP	56HP	58HP	60HP
Power source			3 Phase 380-415V, 50Hz					
Starting current		A	24					
Max current		A	120.6					
Nominal capacity		kW	142.5	145.0	150.0	156.0	162.0	168.0
Electrical characteristics	Power consumption	kW	41.91	41.95	42.03	45.52	49.01	52.50
Exterior dimensions	HxWxD	mm	2052x4050x720					
Net weight		kg	1120					
Capacity connection		%	50~130					
Number of connectable indoor units			80					

KXZA2 Hi-cop combination Cooling only

Item		Model	FDC560CKXZXA2	FDC850CKXZXA2	FDC900CKXZXA2	FDC950CKXZXA2	FDC1000CKXZXA2	FDC1060CKXZXA2	FDC1120CKXZXA2
Nominal horse power			20HP	30HP	32HP	34HP	36HP	38HP	40HP
Power source			3 Phase 380-415V, 50Hz						
Starting current		A	10	15					
Max current		A	40.2	60.3				72.2	84.1
Nominal capacity		kW	56.0	84.0	89.5	95.0	100.5	107.0	113.5
Electrical characteristics	Power consumption	kW	14.51	21.76	23.49	25.22	26.94	28.94	30.94
Exterior dimensions	HxWxD	mm	1697x2700x720	1697x4050x720				2052x4050x720	
Net weight		kg	567	850				894	938
Capacity connection		%	80~130						
Number of connectable indoor units			48	73	78	80			

[Note]

1. The data are measured under the following conditions(ISO-T1, H1). Cooling: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating: Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.
2. Sound pressure level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

PRODUCT LINE UP - INDOOR UNITS

Wide variety of 17 types

● Indoor units only for R410A

Type			Capacity	0.5HP	0.8HP	1HP	1.25HP	1.6HP	2HP	2.5HP	3.2HP	4HP	5HP	6HP	8HP	10HP
			Model Code: kW	15	22	28	36	45	56	71	90	112	140	160	224	280
Ceiling Cassette	4way	FDT				●	●	●	●	●	●	●	●	●		
	4way Compact (600 x 600)	FDTC		●	●	●	●	●	●							
	2way	FDTW				●		●	●	●	●	●	●			
	1way	FDTS						●		●						
	1way Compact	FDTQ			●	●	●									
Ducted	High Static Pressure	FDU						●	●	●	●	●	●	●	●	●
	Low/Middle Static Pressure	FDUM			●	●	●	●	●	●	●	●	●	●		
	Low Static Pressure (thin)	FDUT		●	●	●	●	●	●	●						
	Compact & Flexible	FDUH			●	●	●									
Wall Mounted		FDK			●	●	●	●	●	●						
Ceiling Suspended		FDE					●	●	●	●		●	●			
Floor Standing	2way	FDFW				●		●	●							
	with casing	FDFL								●						
	without casing	FDFU				●		●	●	●						
OA Processing unit		FDU-F									●		●		●	●

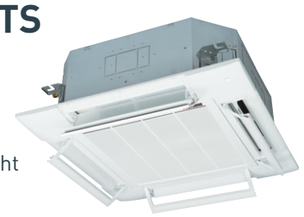
Type		Air flow M3/h	150	250	350	500	800	1000
Fresh Air Ventilation and Heat Exchange unit	SAF		●	●	●	●	●	●
Fresh Air DX Assembly	SAF-DX			●	●	●	●	●

NEW & IMPROVED

AWARD WINNING PRODUCTS

FDT - Standard Cassette

- Keeps maximum comfort with minimal draught
- Automatic energy saving control
- Quiet operation
- When the unit is turned off, the louvres close inwards



Fine snow white

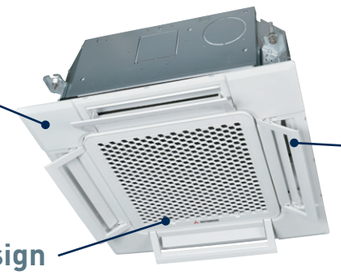
FDT colour variation
Blend in, or stand out.

Now available in shadow black

FDTC - Compact & Cassette (600 x 600mm)
European design & Flat panel

Thin Panel
FDTC thin panel fits within 10mm of the ceiling.

Unique Grille Design
Honeycomb grille



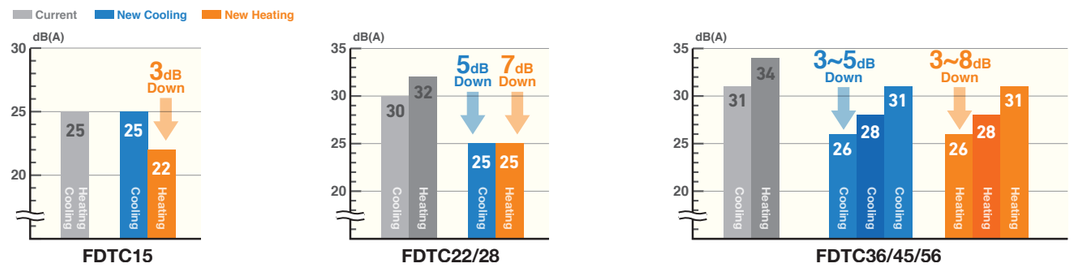
Big Louvre
Improved directionally

Motion Sensor (Option)

Now available in Grid type grille

Quieter operation

Adopting a new turbo fan and improving the heat exchanger enables a reduction in noise.



RC-EX3A CONTROLLER

Simple use with advanced settings remote control

- Easy touch and easy view with full dot Liquid Crystal display
- Function switch

The function switch allows the user to select two preferred functions that and desired from the seven available functions shown. These functions can be used by simply pressing the button after they are set, allowing you to use your preferable functions immediately.

1. High Power Mode

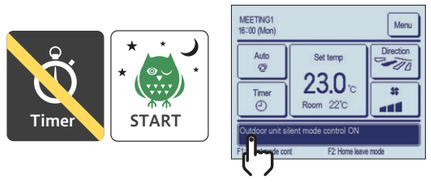
High Power Mode achieves extra cooling / heating capacity for 15 minutes to quickly adjust the room temperature to a comfortable level.

2. Energy Saving Mode

Temperature is set to save energy without losing comfort.

3. Quiet Mode

Outdoor unit starts to operate quietly by activating this mode. The time of this mode can be set in conjunction with Indoor Silent Timer.

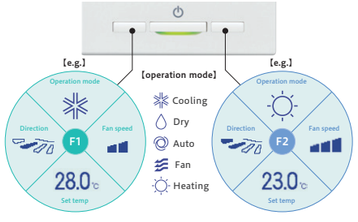


4. Home Leave Mode

Home leave mode maintains the room temperature at a moderate level.

5. Favourite Mode

It operates based on the pre-set “operation mode”, “set temperature”, “fan speed” and “air flow direction”.



6. Filter Sign

Indicates that it is time to clean the air filter.

7. Draft prevention ON/OFF

User can enable/disable the motion of Draft prevention panel for each air outlet for each operation mode. This function can be set while operating. *Only FDT/FDTC series

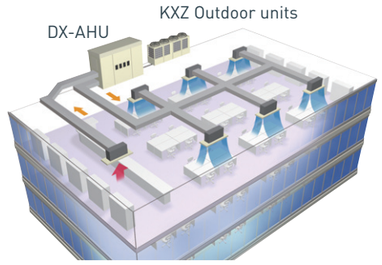
8. Error display

If any error occurs on the system, the “Unit protection stop” is indicated on the message display.

EEV-KIT

CONNECTION TO THE OTHER HVAC TECHNOLOGIES

- The EEV-KIT is a control kit for connecting the KXZ to an externally sourced AHU or FCU with its own direct expansion heat exchanger coils.
  (AHU : Air Handling Unit, FCU : Fan Coil Unit)
- Our EEV-KIT is composed of one EEV-Control Assembly and one EEV-Set.



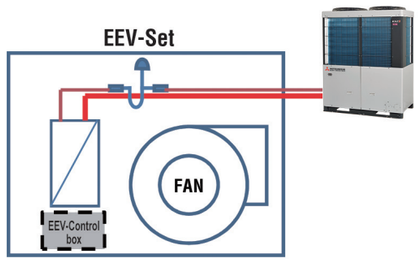
DX: Direct expansion coil

Single Refrigerant System

A single refrigerant system is one that can have multiple outdoor units connected to one refrigerant pipework circuit. There are 2 types of EEV-KIT system that can be built into the single refrigeration system.

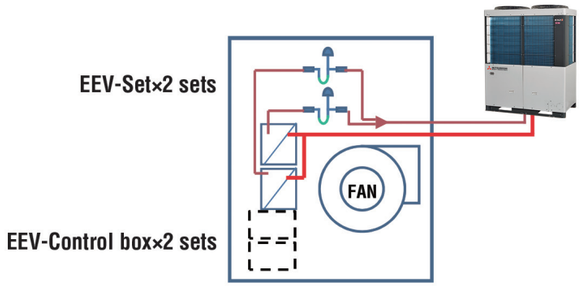
System A: One EEV-KIT

This system has only one EEV-KIT built into one indoor unit with only one heat exchanger. This system can be applied to an indoor unit whose capacity is up to 10HP.



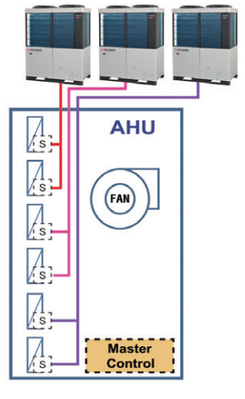
System B - Multiple EEV-KIT’s

System B is a system that has multiple EEV-KITs built into one indoor unit with multiple heat exchangers on one refrigerant circuit. This system can be applied with a KXZ/ AHU arrangement providing up to 168kW.



Multiple Refrigerant System

A multiple refrigerant system is an AHU system with multiple independent refrigerant circuits and one master control to control the whole system.



Advantage

- Large systems are possible [max capacity 896kW]
- External control
- Capacity step control
- Can connect to 32 units

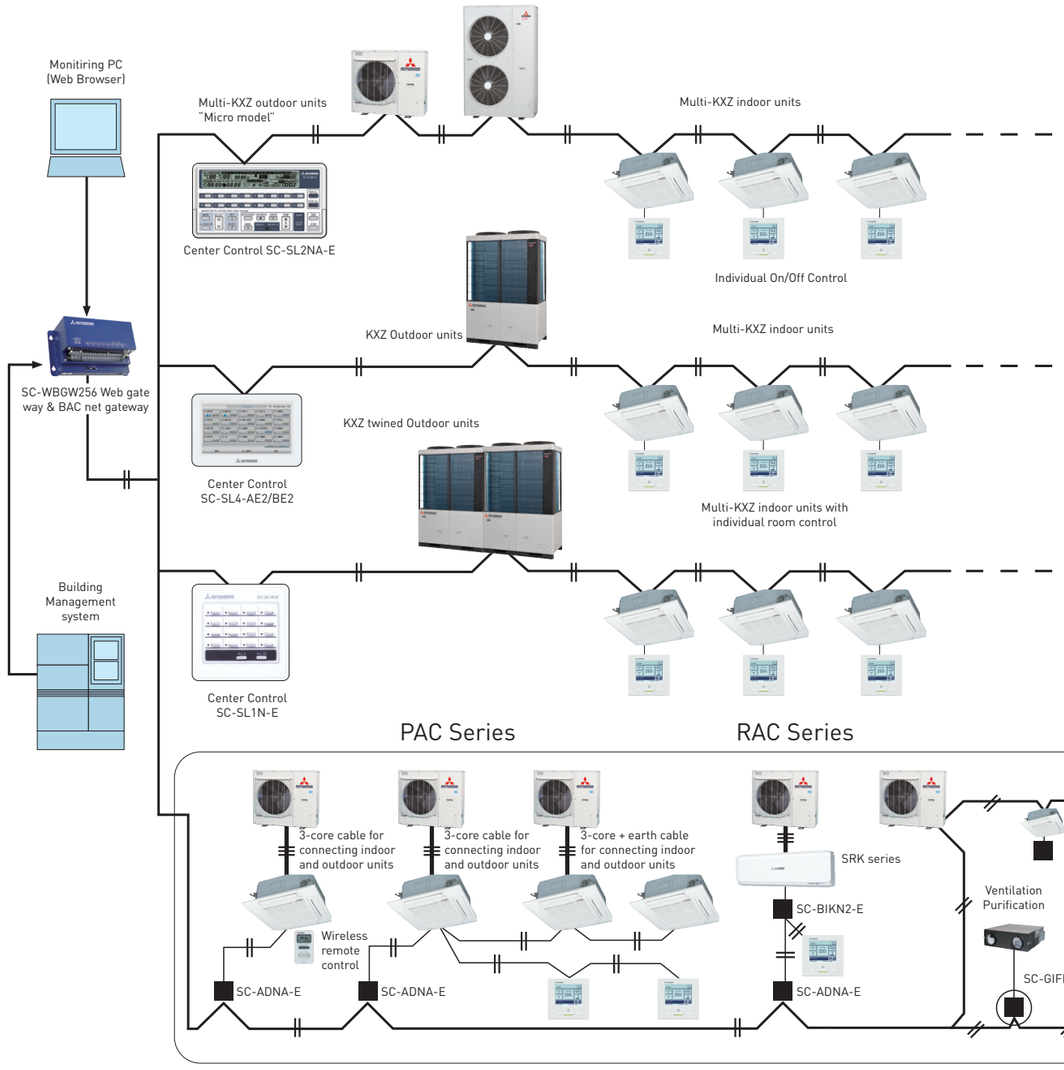
Additional parts over a single refrigeration system

- One master control
- The slave EEV control and EEV set are the same as a single refrigeration system.

CONTROLS NETWORK OVERVIEW

IMPROVED CONNECTABILITY

Our company offers simplicity in installation with the highly sophisticated Superlink - II Control System

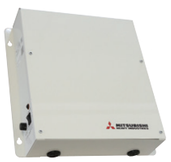


- This offers building owners and occupiers a comprehensive control and management system while providing complete commissioning and service maintenance assistance for installers and service engineers.
- The Superlink - II is an advanced high speed data transmission system which can connect up to 128 indoor units and 32 outdoor units onto one network.
- A wide range of control options are available for the Superlink - II network to suit any application large or small, as well as connection to a new or existing Building Management System (BMS).

Building Management Systems

Our company offers a wide range of control options for the KXZ system to suit any application, large or small, as well as connection to a new or existing BMS.

SC-WBGW256
Web & BACnet gateway



SC-LGWNB
LonWorks BMS Gateway

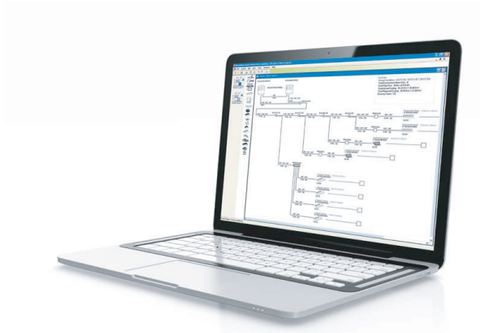
TIME SAVING SOFTWARE

e-solution

Use our e-solution design software tool to find the latest specifications for our KXZ VRF systems. This software helps to simplify the processes to enable engineers to select the most suitable indoor units, outdoor units, pipework, controls & calculate any additional required refrigerants.

If you're an engineer interested in using e-solution, please register and download the e-solution via https://mhiae.com/e-solution/ and be sure to download the latest updates when available.

Please be aware that this tool was developed to cater for the design of two and three pipe systems, and specifies the appropriate models and sizes. It also generates wiring diagrams and engineering drawing to export to AutoCAD or PDF. This flexibility allows engineers to print selected design information and technical data to present to potential clients. As well as personalising the design information into their own formats and documents for future proposals.



MACO Service App

MACO Service application is available & free to download to both IOS and Android devices.
The application covers "Mitsubishi Heavy Industries Thermal System, Ltd" Air conditioning systems: RAC, PAC & VRF.

This "MACO Service" Application enables field engineers to make:

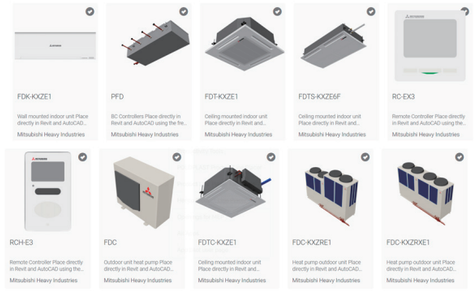
- A quick search of the meaning of error codes that may appear when there is a malfunction in a "Mitsubishi Heavy Industries Thermal Systems, Ltd" Air conditioning system, the probable cause for the malfunction and troubleshooting guideline.
- Scan the unit's QR code and search the meaning of error codes depending on the model type.
- Additional refrigerant charge calculation for VRF.
- Technical manual, Service manual for RAC, PAC & VRF.
- Technical support Video (Part checking, Troubleshooting, Service Tools, Maintenance data analysis) for RAC, PAC & VRF.
- Spare part information for RAC, PAC & VRF.
- Currently available in English, Japanese, Chinese, Thai, Turkish, Indonesian, Vietnamese, Arabic, Cambodian & Burmese.

To download the App go to:
iPhone: https://apps.apple.com/th/app/maco-service/id1276956648
Android: https://play.google.com/store/apps/details?id=com.ssd.macoservice&hl=en_US&gl=US

BIM (Building Information Modelling)

We can provide high quality Building Information Modelling (BIM) models in three formats:

1. Revit
2. 3D Cad
3. IFC (IFC provides an interoperability solution between different software applications. The format establishes international standards to import and export building objects and their properties)



How and why BIM is used

BIM enables all disciplines of a project (Architects, engineers, quantity surveyors, contractors, clients etc..) to share a common model and data representing the project they are building.

- Better design visualization
- BIM reduces conflicts and changes during construction
- Increases overall accuracy of project documentation
- Improves cost estimating
- Improves energy analysis
- Simplifies reporting and scheduling

SL Checker II

By linking to the system Superlink - II communication network, you can force operation of the indoor and outdoor units, view the system operating details and trouble shoot system anomalies. The maximum connectable number of indoor units from the SL Checker II is 128 indoor units on one Superlink system.