HIGH PERFORMANCE **KX VRF SYSTEMS**

HEATING AND COOLING SOLUTIONS





AIR CONDITIONING



INTRODUCTION

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INTRODUCTION

KXZEZ Series 📼 28kW 33.5kW 40kW 45kW FDC28040ZE2 FDC335K0ZE2 FDC400K0ZE2 FDC450K0ZE2 47.5kW 50kW 56kW FDC475kXZE2 FDC500kXZE2 FDC560kXZE2 'E2 61.5kW 67kW 73.5kW 80kW 85kW FDC615KXZE2 FDC670KVZE2 FDC735KVZE2 FDC800KVZE2 FDC80 FDC280K/ZE2 FDC335K/ZE2 FDC335K/ZE2 FDC400K/ZE2 FDC335K/ZE2 FDC335K/ZE2 FDC400K/ZE2 FDC400K/ZE2 FDC 90kW 95kW 100kW 106kW 112kW PD0600KVZE2 FDC1000KVZE2 FDC1000KVZE2 FDC1100KVZE2 FDC1100KVZE2 FDC1100KVZE2 FDC100KVZE2 FDC100KVZE2 FDC100KVZE2 FDC100KVZE2 FDC100KVZE2 FDC100KVZE2 FDC1100KVZE2 FDC100KVZE2 HDC475KXZE2 FDC500KXZE2 FDC500 FDC475KXZE2 FDC500KXZE2 FDC500KXZE2 120kW 125kW 130kW 135kW 142.5kW FDC1350KXZE2 EDC450KXZE2 EDC400KX7E 145kW 150kW 156kW 162kW 168kW PDC1450KXZE2 FDC1500KXZE2 FDC1500KXZE2 FDC1600KXZE2 FDC160KXXZE2 FDC1600KXZE2 <td E2 FDC500KXZE2 FDC500KXZE2 E2 FDC500KXZE2 FDC500KXZE2 E2 FDC500KXZE2 FDC500KXZE2 FDC475KXZE2 ZE2 FDC560KXZE2 ZE2 FDC560KXZE2



	KXZ	XE2	Hi-COP	Series	NEW
	56kW				
	FDC560KXZXE2				
2	EDC290KV7E2	1			

	85kW	90kW	95kW	100kW	106kW	112kW
	FDC850KXZXE2	FDC900KXZE2	FDC950KXZE2	FDC1000KXZE2	FDC1060KXZE2	FDC1120KXZE2
	FDC280KXZE2	FDC280KXZE2	FDC280KXZE2	FDC335KXZE2	FDC335KXZE2	FDC335KXZE2
and the second se	FDC280KXZE2	FDC280KXZE2	FDC335KXZE2	FDC335KXZE2	FDC335KXZE2	FDC400KXZE2
E E 1	FDC280KXZE2	FDC335KXZE2	FDC335KXZE2	FDC335KXZE2	FDC400KXZE2	FDC400KXZE2

INTRODUCTION



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Indoor Unit Lineup

Range of 16 types of exposed or concealed indoor units are available in a wide range of capacities (total 87 indoor models). The best selection of indoor units for all applications is available from our full lineup.

	Туре	Model	Capacity: kW	1.5	2.2	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0	22.4	28.0
	Four Way	FDT				•	•	-	-	-	-	•	•	•		
	Four Way Compact	FDTC	1	•	•	•	•	-	-							
Ceiling Cassette	Two Way	FDTW				•		-	-	-	-	•	•			
	One Way	FDTS						-		-						
	One Way Compact	FDTQ			•	•	•									
	High Static	FDU						•	•	•	-	•	-	-		-
	Low/Middle Static	FDUM			-	•	•	•	-	-	•	•	•	•		
Ducted	Slim Profile Low Static	FDUT		-	-	-	-	-	-	-						
	Compact & Flexible	FDUH			-	•	•									
Wall Moun	ted	FDK	-	-	-	•	•	-	-	-	-					
Ceiling Su:	spended	FDE	0				•	-	-	-		-	-			
	Two Way	FDFW				•		-	-							
Floor Standing	With Casing	FDFL								-						
	Without Casing	FDFU				-		-	-	-						
Outside Ai	r Processing Unit	FDU-F									-		•		-	•

Туре	Model	L/sec	69	97	139	222	278
Fresh Air DX Assembly	SAF-DX	100	-	-	•	-	-

INTRODUCTION

Indoor Unit Capacity Connection

Series	Capacity: kW	Capacity Connection Range: %		Series	Capacity: kW	Capacity Connection Range: %
KX Miere (D20)	9.0	100 - 150	1	KYZYE0	56.0 - 95.0	80 - 160
KA WICIO (N32)	11.2 - 15.2	80 - 150	1	RAZAE2	100.5 -113.5	80 - 130
KX Micro (R410A)	11.2 - 15.5	80 - 150]		22.4 - 45.0	50 - 200
KXE6	22.4 - 33.5	50 - 150]	KXZRE2	47.5 - 95.0	50 - 160
KXZP	22.4 - 28.0	50-120]		100.0 - 150.0	50 - 130
KXZE1	28 - 168.0	50 - 130	1		45.0	80 - 200
	28 - 45	50 - 200]	KXZRXE2	50.0 - 95.0	80 - 160
KXZE2	47.5 - 95.0	50 - 160	1		100	80 - 130
	100.0 - 168.0	50 - 130	1			

Connectable Indoor Units

						_									
KY Miere (B410A)	Capacity: kW	11.2	14	15.5	KX Micro (B32)		Cap	bacity: k	W	9.0	11.2	14	15.2		
KA MICIO (R410A)	Max. Indoor Units	6	8	8		ICX IMICIO (1102)			Max.	Max. Indoor Units		8	8	10	10
	Canacity: kW	22.4	28				0	anacity	r kW	22.4	28	33.5			
KXZP	Max. Indoor Units	8	8		KXE6 Max. Indoor		or Units	22	24	24					
													_	1	1
	Capacity: kW	28	33.5	40	45	47.5	50	56	61.5	67	73.5	80	85	90	95
KV7E1	Max. Indoor Units	24	29	34	39	41	43	48	53	58	63	69	73	78	80
KAZEI	Capacity: kW	100	106	112	120	125	130	135	142.5	145	150	156	162	168	
	Max. Indoor Units	80	80	80	80	80	80	80	80	80	80	80	80	80	
	Capacity: kW	28	33.5	40	45	47.5	50	56	61.5	67	73.5	80	85	90	95
10.955	Max. Indoor Units	37	44	53	60	50	53	59	65	71	78	80	80	80	80
KXZE2	Capacity: kW	100	106	112	120	125	130	135	142.5	145	150	156	162	168	
	Max. Indoor Units	80	80	80	80	80	80	80	80	80	80	80	80	80]
	Capacity: kW	56	84	89.5	95	100.5	5 107	113	8.5						
KXZXE2	Max. Indoor Units	59	80	80	80	80	80	80)						
	Capacity: kW	22.4	28	33.5	40	45	47.5	50	73.5	80	85	90	95	1	
10/25/24	Max. Indoor Units	29	37	44	53	60	50	53	78	80	80	80	80	1	
KXZRE2	Capacity: kW	100	120	125	130	135	142.5	145	150					-	
	Max. Indoor Units	80	80	80	80	80	80	80	80]					
	Capacity: kW	45	50	56	61.5	67	73.5	80	85	90	95	100	1		
KXZRXE2	Max. Indoor Units	60	53	59	65	71	78	80	80	80	80	80	1		
													_		

Control Systems Al series offer wide variation of control systems allowing for a suitable solution for a wide range of applications.

	Туре	Des	cription	Model	Max. Connection Indoor Units	Electric Power Calculation
		Mirod		RC-E5	16	
	Individual Controllar	VVIIBU		RC-EXZ3A	16	-
	Individual Controller	Wireless		RCN Series	16	-
		Motion Sensor		LB Series	1	-
		Simple Press Button		SC-SL1N-E	16	
		LCD Screen		SC-SL2NA-E	64	-
	Control Controllor	Tough Caroon		SC-SL4-AE	128	-
	Central Controller	Iouch Screen		SC-SL4-BE	128	
		PMC Interface Lipite	Web & BACnet	SC-WBGW256	256 (128 x 2)	
		DIVIG IIITEITACE OFFICS	LonWorks	SC-LGWNB	96 (48 x 2)	

INTRODUCTION

High Efficiency & Comfort (KXZE1)

The below graphs highlight the improved efficiencies between the previous models compared to the KXZ standard and Hi-COP models.



Improved component design allows for high efficiency and compact design

28~168kW (KXZ)



FEATURES AND BENEFITS

Improved Heat-exchanger

With a new piping layout between the header and the heat exchanger, refrigerant distribution flow has been greatly improved. The new design also features a larger heat exchange area, boosting the unit's overall efficiency.



VTCC : Variable Temperature and Capacity Control (KXZ)



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 an optimal capacity usage of indoor units as well as maximised energy savings. Ultimately this also increases comfort for the user.

Multiport Compressor

The new multiport discharge area in the compressor has optimised pressure control with improved better balancing. The performance improvement at medium Hz has resulted in higher annual efficiencie Multi-discharge port By optimising p

Capacity Control (KXZ)

Capacity control can be set by peak cut function with RC-EXZ3A for better energy saving. Five-step capacity control is available. (100-80-60-40-0%)



Efficient, High Output Winding Motor

The newly designed high performance CPU enables high precision optimisation for compressor speed, which leads to concentrated winding motor use.





For example, in partial load conditions where you have low co heating requirements, VTCC reduces the compressor frequen controls the actuators in the outdoor unit.

Overall with the VTCC functionality you will always have an additional energy saving of up to 34% (depending on configuration and usage of system) in low cooling and heating load requirements.

Oil Level Control

Our proprietary technology of adjusting oil level for combination of two or three outdoor units has created a leveled operation rate, keeping perfor-mance of the units and ensuring long life of the system.





Vector Control

New applied Vector control has a high efficiency and many new advanced features.

- Smooth operation from low speed to high speed
 Smooth Sine Voltage Wave form is attained
 Energy efficiency is further improved in low speed range

Long-Chorded 3 Propeller Fan With Serration

The fan blade design adapted from MHI's aerospace division -with serated edges that deliver increased air volume with less power input.

9.0-15.5kW (KX Micro)



Optimum Refrigerant System Control

22.4-33.5kW (KXE6)





Vector Control Powe . current Operation period

DC Fan Motor

Use of a DC fan motor has enabled an excellent efficiency of approximate 60% higher than previous models. rel Cage made of conductor) Rotor(made of permanent magnet



Compact High Efficiency

Heat Exchanger Optimising relationship of the air flow velocity & fin pattern







Long Pipe Length 28~168KW (KXZ)

Piping length limits have been improved and the maximum height difference between indoor units has been increased to 18m. This enables us to put indoor units on an extra three floors. The furthest indoor unit: 160m or total length: 1000m contributes to system design flexibility.



Easy Transportation & Installation

Due to a significant reduction in size and foot print which is one of the smallest in the industry, transportation in an elevator made for six persons (Width: 1400mm, Depth:850, Open area:800mm) is possible, eliminating cost of a crane and reducing labour.





Wide Range of Operation (KXZ, KXZP)

KXZ series permits an extensible system design considering a heating range operation under a low temperature condition down to -20°C and a cool-ing range operation up to 46°C (previous model : 43°C) Furthermore KXZP extends a cooling range operation up to 50°C.



Automatically Select Functions For Capacity Control (KXZP)

The following 3 items are available for capacity control function. You can select one item individually or select 2 or 3 items at the same time. In case of selecting 2 or 3 items, the unit will operate with the most effective function automatically

1. Compressor Speed Control

You can set compressor speed at 100%-80%-60%-40% before starting operation with PWB in the outdoor unit or with a demand controller forocured locally.

How to set "Compressor speed"

Set the function of external input (CNS1) to "Capacity control input" using P07 of 7SEG setting.
 Zet the Demand rate using SW4-7, 4-8 according to the following chart.
 The input signal will be through 3 C NS1. ON/ connected, OFF/ not connected.





2. Capacity Control Timer

You can set capacity control with RC-EXZ3A up to 4 times per day. The timer setting can be changed using 5 minute intervals.

3. Silent Mode

Considering noise regulations or surrounding circumstances, you can now select 4 levels of silent mode. [1] & [2] Setting the combination of silent mode is available by using timer function of RC-EX23A.

 Silent mode [1] : Priority for capacity. This is an effective function during low load operation conditions.

This setting may be cancelled in overload conditions.

Silent mode [2] : Priority for silent mode

Regardless of operation conditions, the outdoor unit will keep the operation at the selected sound level.



FEATURES AND BENEFITS

Serviceability

Easy Service Quick and easy access to service parts by separating compartments.



Monitoring Function

Back-up Operation

-

3 Layer Construction

Thanks to the control box structure with 3 layer/2 layer construction using hinge connection, service and maintenance has been made much easier for inverter components.

All series include new features to assist with servicing and trouble shooting. Various data can be monitored through 3-digit or 6-digit display on the outdoor unit PCB.

22.4~168kW

•••

KXZ (3 laver)

KXZF (2 lave

Detailed fault diagnosis and operation history memory via 7-segment display.



In the event that one unit has a failure, the system will keep operating with the other good units.

••

Combination of two or three outdoor units

Equipped with RS232C for Equipped with HS232C for connection directly to your PC monitoring and service tasks made simple with our service software ("Mente PC").

In the unlikely event that one compressor fails, the unit's other compressor will continue to operate.

Check Operation (28~168kW)

Check Operation (22-106KW) Cosing of Savies value, crossing connection of refugerant piping and electrical wiring, proper operation of EV (Electrical Expansion Valve) can be checked automatically in cooling operation. This check operation can be done at 0-45° coutdoor temperature and 10-32°C indoor temperature by use of outdoor unit dip switch. The check should be done in one refigerant system. It takes 15-30 minutes and avoids frequent failure by preventing careless mistakes during installation.



This operation is an emergency measure for a limited time and a necessary repair should be done as soon as possible.

Blue Fin

Due to application of blue coated fins for the heat exchanger of new outdoor unit, corrosio resistance has been improved compared to current models.



KXZP **Improved Features**

Easy and Flexible Piping Installaton

3 Rear Front 2 Right 0 1 Down Current KXZP Lite a 📃

Access area has been increased by 120% for easy and flexible piping installation

Four Handles For Easy Transport



Located at the same level for easy transport and transfer.



Attached as a standard for easy mainter

Compact Design



KXZP Lite

KXE6



25% KXE6 KXZP Lite



Installation and service is quick and easy with the number of screws reduced to 2.

External Static Pressure

External static pressure is available up to 35 Pa.

Two Screw Installation

2Î

FEATURES AND BENEFITS

Heat Pump Systems

Heat pump systems operate with 2 inter-connecting pipes, thus commonly referred to as a '2-pipe system'.

These systems provide either a heating or cooling operation to all indoor units and are suitable for a wide range of applications from an individual apartment to an entire multi storey building, especially where there ere significant open plan areas to be controlled.



Priority Operation Mode Rule (KXZ, KXZP)

 You can select the following priority operation mode. (for whole system)

 1. First unit's operation mode (by default setting)
 3. Maj
 2. Last unit's operation mode





The range starts with a 9.0kW cooling capacity, up to 56.0kW cooling capacity. Outdoor units can also be "twinned" or "tripled" providing up to 168.0kW on a single system.

The range has a total piping length of 1000m (KXZ) and the furthest indoor unit can be connected up to 160m (22.4kW+, KXZ, KXE6) from the outdoor unit.

Fixed Cooling mode/fixed heating mode (summer/winter switch): It is possible to fix the operational mode of the system (inter cooling or heating) using a switch (SW3-7) on the outdoor unit PC beard - this enables the building user to decide the operation of the system (e.g. cooling only in summer/heating only in winter), to avoid unnecessary energy wastape.

wastage. It is also possible to wire the control switch to a remote location (inside the building) to a control room, or even linked to an ambient thermostat.

Majority operation mode (see below)
 Master operation mode (see below)

Master Operation Mode

Master Operation Mode The system is operated according to master operation mode. When master operation mode is set at cooling mode, units selected as heating mode is set to fan mode extensitive.





New Design

The new KXZ2 series has a layered design and a refined new form. The flexibility in design and ease of installation are further enhanced to provide optimum response to medium and large building air-conditioning systems. This new design also allows for:

Increased number of connectable units
 Increased max capacity connection (compared to KXZE1)



Indoor Capacity Connection

Capacity: kW	28	33.5	40	45	47.5	50	56	61.5	67	
Max. Indoor Units	37	44	53	60	50	53	59	65	71	1
Capacity: kW	73.5	80	85	90	95	100	106	112	120	1
Max. Indoor Units	78	80	80	80	80	80	80	80	80	
Capacity: kW	125	130	135	142.5	145	150	156	162	168	
Max. Indoor Units	80	80	80	80	80	80	80	80	80	

FEATURES AND BENEFITS

Long Pipe Length

The maximum height difference between indoor units has been increased to a maximum of 30m, and the maximum height difference between the outdoor unit and indoor unit has been expanded to 90m. For with few limitations, contributes to system design flexibility.

*1 The difference between the lon gest 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 in installation. The range of use is also different.



Continuous Heating Capacity Control (CHCC)

Our CHCC defosting control has been added to our KX22 system and allows to achieve greater capacities than that of our previous model 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 systema defosting time.

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 conditors. These smooth adjustments ensure optimal usage of the indoor units as well as maximised energy savings. Utimately this also increases control for the user.

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



Extended External Static Pressure from 50Pa to 85Pa

The KXZE2 series offering greater flexibility to meet installation location needs with an extended external static pressure now up to 85Pa.



1

KXZRE2

Heat Recovery Systems - for Simultaneous Cooling and Heating

The heat recovery systems operate with 3 inter-connecting pipes, commonly referred to as a '3-pipe system'. The systems provide both heating and cooling operations simultaneously to individual indoor units according to room conditions or user requirements. The systems incorporate highly sophis-ticated controls transferring heat load energy from the entire building to provide an efficient, comfortable heating and cooling environment. The system interconnecting pipework has a unique arrangement, with two of the interconnecting pipes routed through a PFD distribution controller and the third pipe connected directly to each indoor unit from the main pipe run. This reduces installation time, and the number of brazed connections on site. The PFD Distribution Controllers are available for single connection, or as a combined PFD 4-way connection, with each connected unit having independent cooling or heating operation.

In previous model, when high demand for heating and low cooling demand are required at the same time in low ambient temperature condition, pressure control is adjusted to keep m heating capacity than good enough cooling capacity. New adopted heat exchanger and pressure control in KXZR

series, has improved its capacity for both good enough heating and cooling capacity at the same time. (*) (*) Refrigerant system will priorities required heating mode more than very low cooling demand, in case most of indoor units are operated in heating mode.



Reduced Noise

With improved acoustic insulation, the noise level of the PFD box has been greatly reduced.



Design Flexibility

Up to 91 indoor units can be connected to the largest capacity outdoor unit, with a range of 15 types of exposed or concealed indoor unit, in several capacities, a choice of 91 indoor units is available.

Wide Range of Operation

KXZR series permits an extensible system design considering a heating range operation under a low temperature condition down to +20°C and a cool-ing range operation up to 46°C (previous model : 43°C)



FEATURES AND BENEFITS

High Efficiency in Simultaneous Cooling and Heating Modes

Highly efficient operation mode is automatically determined inside the refrigerant system during simultaneous cooling and heating operation. Heat recovery efficiency is maximized by this control and Max COP 9.0 (1) is achieved during operation with simultaneous cooling and heating. "Conditions for simultaneous cooling and heating (Ju estimation in 244W operation and the following conditions: Temperature outside the room DB16°C/WB12°C, temperature in the cooled room DB27°C/19°C, and temperature in the heated room DB20°C/WB14.5°C

Energy Efficiency in Heat Recovery Mode



High Efficiency

The below graphs highlight the improved efficiencies between the previous models compared to the KXZR standard and Hi-COP models.

Comparison of EER in Cooling Mode



Comparison of COP in Heating Mode



11kW

leating

11kW

Previous model (KXZRE1)

KXZRE2

VRF SELECTION SOFTWARE



E-Solution: Easy VRF Selection Tool

E-Solution is a design software tool which includes specification details of the latest KX VRF systems. By using E-Solution this simplifies the process and enables engineers to select the most cost-effective and energy efficient mix of indoor units, outdoor units, pipework and controls.

For more information on downloading and using E-Solution software please contact the technical sales manager in your state.

Furthermore it is also developed to cater for the design of two and three pipe systems and specifies appropriate models and sizes. It also generates wiring diagrams and engineering drawings which can be exported to AutoCAD or saved in PDF format.

This flexibility enables engineers to print select design information and comprehensive operation and maintenance manuals for presentations to clients. Engineers can also incorporate design information into their own formats and documents for personalised proposals.



VRF SELECTION SOFTWARE

E-Solution Piping Diagram





KX MICRO Heat Pump

OUTDOOR UNITS

KX MICRO

Heat Pump Systems (11.2kW - 15.5kW)

Model No. FDC112KXEN6 FDC140KXEN6 FDC155KXEN6

FDC140KXES6 FDC155KXES6

Nominal Cooling Capacity 11.2kW (1Phase) 14.0kW (1Phase) 15.5kW (1Phase) 14.0kW (3Phase) 15.5kW (3Phase)

These heat pump 2-pipe systems offer high performance VRF for applications that require either cooling only or heating only, ickeal for open plan areas.
 Connect up to 8 indox unity to 150% capacity.
 High efficiency with COP (in cooling) up to 4.0.
 These units employ DC inverter compressors ONLY.
 Industry leading total piping length up to 100m and a maximum pipe run of

- 70m.





See page 81 for exterior dimensions

Note:FDUT15KXE6F-E and FDTC15KXE6F can not be connected to the above syst

Specifications

Item	Item			FDC112KXEN6	FDC140KXEN6	FDC155KXEN6	FDC140KXES6	FDC155KXES6				
Power Source					1 Phase 220-240V, 50Hz		3 Phase 380	3 Phase 380-415V, 50Hz				
Naminal Canasity	Cooling		LAM	11.2	14.0	15.5	14.0	15.5				
Nominal Capacity	Heating		KW	12.5	16.0	16.3	16.0	16.3				
	Starting Current				5							
Max Current] ^		28							
Flashing Champlaristics	Power	Cooling	LAM	2.80	4.17	4.71	4.17	4.71				
Liecultal Gilaraciensula	Consumption	Heating	***	2.89	4.31	4.38	4.31	4.38				
	Running Current	Cooling	ing A	13.5	20.6	23.3	6.9	7.8				
		Heating	1 ^	14.1	21.5	21.9	7.2	7.3				
Exterior Dimensions	H x W x D		mm			845x970x370						
Net Weight			kg		85 87							
Refrigerant Charge	R410A		kg			5.0						
Sound Pressure level	Cooling/Heating		dB(A)	52/54	53/55	53/56	53/55	53/56				
Defrigement Dising Cine	Liquid Line		mm			ø9.52(3/8")						
neingerant riping Size	Refrigerant Piping Size Gas Line					ø15.88(5/8'')						
Capacity Connection												
Max Connectable Indoor Un	its			6	8	8	8	8				
1. The data is measured under the biolowing conditions (JA / NOS 3822.3). Cooling indicat resp. of 27/CDB, 19/CMB, and outboar temp, of 39/CDB. Hashing indoor temp, of 20/CDB, and outboar temp, of 20/CDB, and outboar temp, of 20/CDB. Plant outboar												

Select the breaker size according to the own national standard.
 Multi KC series all conditioners are VFF systems to which the indoor units of different capacities an executive of the own national standard.

OUTDOOR UNITS

KX MICRO

Heat Pump Systems (9.0kW - 15.2kW)

Model No. FDC90KXZEN1-W FDC112KXZEN1-W FDC140KXZEN1-W FDCA155KXZEN1-W Nominal Cooling Capacity 9.0kW (1 Phase) 11.2kW (1 Phase) 14.0kW (1 Phase) 15.2kW (1 Phase) 11.2kW (3 Phase) 14.0kW (3 Phase) 15.2kW (3 Phase FDC112KXZES1-W FDC140KXZES1-W FDCA155KXZES1-W Toesh atg young 2-pipe system offer high performance VRF for applications that require either cooling only or heating only, ideal for open plan areas. Connect up to 10 indoor untitly to 150% capacity. High efficiency with COC (in cooling) up to 4.67. These units energy DC invester compressors OMLY. Industry leading total piping length up to 100m and a maximum pipe run of 70m.





Range of Operation

OUT DOOR U NI TS

uth of ø9.52mm(3/8") liquid piping must be 50m or less

Specifications

tem			Model	FDC90KXZEN1-W	FDC112KXZEN1-W	FDC140KXZEN1-W	FDCA155KXZEN1-W	FDC112KXZES1-W	FDC140KXZES1-W	FDCA155KXZES1-V	
ower Source					1 Phase 220	-240V, 50Hz		3 Phase 380-415V, 50Hz			
	Cooling			9.0	11.2	14.0	15.2	11.2	14.0	15.2	
iominal Capacity	Heating		1 KW	9.0	11.2	14.0	15.5	11.2	14.0	15.5	
	Starting Current					·	5		·		
	Max Current		A 23						13.5		
lectrical	Power	Cooling	LAW	1.98	2.55	4.00	4.87	2.55	4.00	4.87	
Characteristics	Consumption	Heating	۳×۲	1.93	2.53	3.52	4.06	2.53	3.52	4.06	
	Running	Cooling		8.3	10.7	16.8	20.5	3.8	6.0	7.4	
	Current	Heating	1 ^	8.1	10.6	14.8	17.1	3.8	5.4	6.2	
xterior Dimensions	H x W x D		mm				845x970x370				
let Weight			kg	85 87							
lefrigerant Charge	R32		kg				4.2 (R32)				
ound Pressure level	Cooling/Heatin	g	dB(A)	53/54	53/55	54/58	54/58	53/55	54/58	54/58	
Infeinement Dission Cine	Liquid Line						ø9.52 (3/8")				
teringerant Piping Size	Gas Line		יייייי ך				ø15.88 (5/8°)				
Capacity Connection											
Aax Connectable Indoor I	Units			8	8	10	10	8	10	10	



KXE6

Heat Pump Systems (22.4kW - 33.5kW)

Model No. FDC224KXE6 FDC280KXE6 FDC335KXE6

Nominal Cooling Capacity 22.4kW 28.0kW 33.5kW

These heat pump 2-pipe systems offer high performance VRF for applications that require either cooling only or heating only. Ideal for open plan areas.
 Connect up to 24 indoor units/po 150% capacity.
 High efficiency with COP (in cooling) up to 4.0.
 These units employ DC inverts compressors ONLY.
 Industry leading total piping length up to 510m and a maximum pipe run of 160m.





See page 83 for exterior dimensions

Specifications

Item			Model	FDC224KXE6	FDC280KXE6	FDC335KXE6			
Power Source					3 Phase 380-415V, 50Hz				
Naminal Cananity	Cooling		LAW	22.4	28.0	33.5			
Nominal Capacity	Heating		KW	25.0	31.5	37.5			
	Starting Current				5				
	Max Current			20	20 20				
Electrical Characteristics	Power	Cooling	LW.	5.60	8.09	9.82			
Electrical Griaracteristics	Consumption	Heating	ĸw	6.03	8.21	10.12			
	Running			9.25	13.22	15.87			
	Current	Heating	~	9.85	13.41	16.36			
Exterior Dimensions	Exterior Dimensions H x W x D				1675x1080x480				
Net Weight			kg	2	221 224				
Refrigerant Charge	R410A		kg	11.5					
Sound Pressure level	Cooling/Heating		dB(A)	58/58	59/60	61/61			
Defeigement Dising Cine	Liquid Line		mm	ø9.52	!(3/8")	ø12.7(1/2")			
neirigerant riping size	Gas Line		(in)	ø19.05(3/4")	ø22.22(7/8")	ø25.4(1*)			
Capacity Connection									
Max Connectable Indoor Un	its			22	24	24			
The data is measured under the folio The operation data indicate when the Sound pressure level indicates the vi Select the breaker size according to Multi KX series air conditioners are V	wing conditions (AS / NZ e air-conditioner is operat alue in an anechoic cham the own national standar RF systems to which the time tense	S 3823.2). Coolir ad at 230V 50Hz ser. During opera 1. indoor units of d	g: Indoor tem for 1 phase, 4 tion these valu ferent capacit	o. of 27°CDB, 19°CWB, and outdoor temp. of 39°CDB. H 00V 80Hz for 3 phase. es are somewhat higher due to ambient conditions. ies and different models can be connected, the operation	eating: Indoor tamp. of 20°CDB, and outdoor temp. of 70 characteristics of all combinations are different. MHAA ac	DB, 8°CWB. Piping length is 7.5m.			

OUTDOOR UNITS KXZP

Heat Pump Systems (22.4kW - 28.0kW)

Model No. FDC224KXZPE1 FDC280KXZPE1

Nominal Cooling Capacity 22.4kW 28.0kW

These heat pump 2-pipe systems offer high performance VRF for applications that require either cooling only or heating only, ideal for open plea areas.
 Connect up to 8 indoor nufls-to 120% capacity.
 High efficiency with COP (in cooling) up to 4.0.
 These units employ DC inverter multiport compressors with concentrated winding motor.





KXZP Heat Pump

OUTDOORUNITS



See page 84 for exterior dimen

B

Specifications

ltem			Model	FDC224KXZPE1	FDC280KXZPE1			
Power Source				3 Phase 380	0-415V, 50Hz			
Naminal Canazity	Cooling		LAM	22.4	28.0			
Nominal Capacity	Heating		KW	22.4	28.0			
	Starting Current				5			
	Max Current		^	21	22			
Electrical Characteristics	Power	Cooling	LAM	5.6	7.87			
Electrical characteristics	Consumption	Heating	KW	4.8	6.47			
	Running	Cooling		9.2	12.9			
	Current	Heating		7.9	10.6			
Exterior Dimensions	H x W x D		mm	1505x9	170x370			
Net Weight			kg	10	65			
Refrigerant Charge	R410A		kg	8.9				
Sound Pressure level	Cooling/Heating		dB(A)	59/60	60/63			
Defenseent Dining Circ	Liquid Line		mm	ø9.52	(3/8")			
neingerant riping size	Gas Line		(in)	ø19.05(3/4")	#22.22(7/8")			
Capacity Connection								
Max Connectable Indoor Un	its			8	8			
The data is measured under the folio The operation data indicate when the Sound pressure level indicates the view Select the breaker size according to Multi KX series air conditioners are V	wing conditions (AS / NZ) a air-conditioner is operati alue in an anechoic chant the own national standars RF systems to which the incomes	3 3823 2). Coolir ad at 230V 50Hz aer. During opera 5. indoor units of d	rg: Indoor tem for 1 phase, 4 dion these valu flerent capacit	 of 2PCDB, 19°CMB, and outdoor temp. of 39°CDB. Hearing: Indoor temp. of 20°CZ 00% SCH-tor 3 phase. sear screenishelt higher due to ambient conditions. es and different models can be connected, the operation characteristics of all combina 	DB, and outdoor temp. of 7°CDB, 8°CWB. Piping length is 7.5m. stors are different. M-IAA advice the use of Multi KC series design software for			



KXZEI

Heat Pump Combination Systems (28.0kW - 33.5kW)

Model No. FDC280KXZE1 FDC335KXZE1

Nominal Cooling Capacity 28.0kW 33.5kW

The KVZ heat pump 2-pipe systems offer high performance VRF for applications that require either cooling only or heating only, ideal for open plan areas.
 Connect up to 28 indoor untils/up to 130% capacity. High efficiency with CVP (in cooling) up to 3.9. KVZ employs DC inverter compressors ONLY.
 Industry leading total piping length up to 1000m and a maximum pipe run of 160m.

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See page 85 for exterior dimensions

Range of Operation





Specifications

Item			Model	FDC280KXZE1	FDC335KXZE1			
Power Source				3 Phase 380	-415V, 50Hz			
Nominal Capacity	Cooling		L'M	28.0	33.5			
Nominal Capacity	Heating		~**	31.5	37.5			
	Starting Current				3			
	Max Current		~	21	.2			
Electrical Observatoriation	Power	Cooling	LAM	7.24	8.96			
Electrical Grianacteristics	Consumption	Heating	KW	7.28	9.04			
	Running Current	Running	Running	Running	Cooling		11.9	14.6
		Heating	~	12.0	14.8			
Exterior Dimensions	H x W x D		mm	1690x1	850x720			
Net Weight			kg	2	2			
Refrigerant Charge	R410A		kg	11	.0			
Sound Pressure level	Cooling/Heating		dB(A)	55/57	61/58			
Pofrigorant Dining Size	Liquid Line		mm	ø9.52(3/8")	ø12.7(1/2")			
Neirigerant Piping Size	Gas Line		(in)	ø22.22(7/8")	ø25.4(1") [ø22.22(7/8")]			
Capacity Connection								
Max Connectable Indoor Units				24	29			
The data is measured under the folio The operation data indicate when the Sound pressure level indicates the vi Select the breaker size according to Mult KK series air conditioners are V	wing conditions (AS / N2) air-conditioner is operati- lue in an anechoic chami he own national standar. PF systems to which the	S 3823.2). Coolin ad at 230V 50Hz ber: During opera 1 indoor units of d	rg: Indoor tem for 1 phase, 4 ition these valu fferent capacit	p. of 27°CDB, 19°CWB, and outdoor temp. of 39°CDB. Heating: Indoor temp. of 20°C 000 50Hz for 3 phose. as are somewhat higher due to ambient conditions. kes and different models can be connected, the operation characteristics of all combine	38, and outdoor temp. of PCDB, BCMB. Piping length is 7.5m. dons are different. M-HAA advises the use of Multi KK series design software for			

OUTDOOR UNITS



KXZEI

Heat Pump Systems (40.0kW - 56.0kW)

Model No. FDC400KXZE1 FDC450KXZE1 FDC475KXZE1 FDC500KXZE1 FDC560KXZE1 Nominal Cooling Capacity 40.0kW 45.0kW 47.5kW 50.0kW 50.0kW 56.0kW

The KXZ heat pump 2-pipe systems offer high performance VRF for applications that require either cooling only or heating only, ideal for open plan areas. Connect up to 48 indoor units/up to 130% capacity. High efficiency with COP (in cooling) up to 3.6. KXZ employs DC Inverter compressors ONLY. Industry leading total piping length up to 1000m and a maximum pipe run of 160m.







See page 86 for exterior dimer

Specifications

Item	Model FDC400KXZE1 FDC450KXZE1 FDC475KXZE1 FDC500KXZE1 FDC560						FDC560KXZE1			
Power Source						3 Phase 380-415V, 50Hz				
	Cooling			40.0	45.0	47.5	50.0	56.0		
Nominal Capacity	Heating		KW	45.0	50.0	53.0	56.0	63.0		
	Starting Curren	rt				8				
	Max Current		A	3	2		42.4			
Electrical Characteristics	Power	Cooling	LAM	10.96	13.98	13.98	13.97	16.62		
Running Current	Consumption	Heating	KW	10.69	12.50	13.00	13.49	15.95		
	Running	Cooling		17.5	22.4	22.6	22.6	26.9		
	Current	Heating	A	17.5	20.4	21.0	21.8	25.8		
Exterior Dimensions	H x W x D		mm		2048x1350x720					
Net Weight			kg	31	7		370			
Refrigerant Charge	R410A		kg			11.5				
Sound Pressure level	Cooling/Heating	9	dB(A)	60/62	61/62	61/61	61/62	64/66		
Defeinement Dising Cise	Liquid Line		mm			ø12.7(1/2")				
neingerant riping Size	Gas Line		(in)	ø25.4(1") [ø28.58(1 1/8")]		ø28.58	(1 1/8")			
Capacity Connection										
Max Connectable Indoor U	onnectable Indoor Units 34 39 41 43 48						48			
The data is measured under the fol 2. The operation data indicate when fi 3. Sound pressure level indicates the 4. Select the breaker size according to 6. Mid IW region is occurred linear any	lowing conditions (AS) he air-conditioner is op value in an anechoic d o the own national star	/ NZS 3823.2). serated at 230 hamber. During ndard.	Cooling: Ind 50Hz for 1 operation th	loor temp. of 27°CDB, 19°CMB, and phase, 400V 50Hz for 3 phase. nese values are somewhat higher due	outdoor temp. of 35°CDB. Heating: to ambient conditions.	Indoor temp. of 20°CDB, and outdo	or temp. of 74CDB, 64CWB. Piping Is	ingth is 7.5m.		

DUTDOORUNITS



KXZEI

Heat Pump Combination Systems (61.5kW - 67.0kW)

Model No. FDC615KXZE1 (FDC280+FDC335) FDC670KXZE1 (FDC335+FDC335)

Nominal Cooling Capacity 61.5kW 67.0kW

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The Ko/Z heat pump 2-pipe systems offer high performance VRF for application that require either cooling only or heating only, ideal for open plan areas. Connect up to 58 indoor units/up to 130% capacity. High efficiency with COP (in cooling) up to 3.8. Ko/Z employs DC inverter compressors ONLY. Industry leading total piping length up to 1000m and a maximum pipe run of 160m.



67kW) e-by-

See page 85 for exterior dimensions



*1 The dimensional from the first branch *2 In case of height diffe Weight difference up f he longest and the shortest indoor unit p t be within 40m. (MAX85m) ce up to 70m, please contact your dealer

Specifications

-						
Item	Item M			FDC615KXZE1	FDC670KXZE1	
Combination (EDC)				280KXZE1	335KXZE1	
Combination (PDC)				335KXZE1	335KXZE1	
Power Source				3 Phase 380	-415V, 50Hz	
No. of Concerns	Cooling			61.5	67.0	
Nominal Capacity	Heating		ĸw	69.0	75.0	
	Starting Current			1	6	
	Max Current		_ ^	42.4		
Flashing Characteristics	Power	Cooling	LAM	16.20	17.92	
Electrical criatacteristics	Consumption	Heating	NW	16.32	18.08	
	Running	Cooling	A	26.5	29.2	
	Current	Heating		26.8	29.6	
Exterior Dimensions	HxWxD		mm	1690x2	700x720	
Net Weight			kg	54	14	
Refrigerant Charge	R410A		kg	11.	0x2	
Defeigement Dising Circ	Liquid Line		mm	ø12.7	(1/2")	
Heingerant Piping Size	Gas Line		(in)	ø28.58(1 1/8")		
Capacity Connection						
Max Connectable Indoor Uni	ts			53	58	

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OUTDOOR UNITS



KXZEI

Heat Pump Combination Systems (73.5kW - 112.0kW)

M	
MODEL NO.	Nominal Cooling Capacity
FDC735KXZE1 (FDC335+FDC400)	73.5kW
FDC800KXZE1 (FDC400+FDC400)	80.0kW
FDC850KXZE1 (FDC400+FDC450)	85.0kW
FDC900KXZE1 (FDC450+FDC450)	90.0kW
FDC950KXZE1 (FDC475+FDC475)	95.0kW
FDC1000KXZE1 (FDC500+FDC500)	100.0kW
FDC1060KXZE1 (FDC500+FDC560)	106.0kW
FDC1120KXZE1 (FDC560+FDC560)	112.0kW



The KX2 heat pump 2-pipe systems offer high performance VRF for applications that require either cooling only or heating only, ideal for open plan areas.
 Connect up to 80 indoor untikup to 1930s capacity.
 High efficiency with COP (In cooling) up to 3.7.
 Vo2 engloys Co Inverter compressors ONLY.
 Industry leading total piping length up to 1000m and a maximum pipe run of 160m.





Specifications

Item			Model	FDC735KXZE1	FDC800KXZE1	FDC850KXZE1	FDC900KXZE1	FDC950KXZE1	C950KXZE1 FDC1000KXZE1 FDC1060KXZE1 FDC1120KX			
0				335KXZE1	400KXZE1	400KXZE1	450KXZE1	475KXZE1	500KXZE1	500KXZE1	560KXZE1	
Combination (FUC)				400KXZE1	400KXZE1	450KXZE1	450KXZE1	475KXZE1	S0021 5000/02E1 5600/02E1 56			
Power Source							3 Phase 38)-415V, 50Hz				
	Cooling			73.5	80.0	85.0	90.0	95.0	100.0	106.0	112.0	
Heating	Heating		1 ^{KW}	82.5	90.0	95.0	100.0	106.0	112.0	119.0	126.0	
	Starting Curren	nt					1	16				
	Max Current] ^	53.2 64				84	4.8			
Electrical Power Characteristics Consumption	Power	Cooling		19.92	21.92	24.94	27.96	27.96	27.94	30.59	33.24	
	Consumption	Heating	KW	19.73	21.38	23.19	25.00	26.00	26.98	29.44	31.90	
	Running	Cooling	ng A	32.1	35.0	39.9	44.8	45.2	45.2	49.5	53.8	
	Current	Heating		32.3	35.0	37.9	40.8	42.0	43.6	47.6	51.6	
Exterior Dimensions	HxWxD		mm				2048x2	700x720				
Net Weight			kg	589		634			7	40		
Refrigerant Charge	R410A		kg	11.0+11.5				11.5 x 2				
Refrigerant Piping	Liquid Line		mm		ø15.88(5/8") ø19.05(3/4")							
Size	Gas Line		(in)			¢31.75(1 1/4")	[ø34.92(1 3/8*)]			ø38.1(1 1/2")	ø34.92(1 3/8")]	
Capacity Connection												
Max Connectable Indo	connectable Indoor Units 63 69 73 78 80											
The data is measured under t The operation data indicate w Select the breaker size accord Mutil KX series air conditioner secofications on all individual co	he following conditions (hen the air-conditioner i ding to the own national s are VRF systems to w mbination types.	AS / NZS 382 s operated at : standard. hich the indoo	3.2). Cooling: 230V 50Hz fo r units of diffe	Indoor temp. of 27°CE r 1 phase, 400V 50Hz rent capacities and diff	IB, 19°CWB, and outdo for 3 phase. 3. Sound p arent models can be co	or temp. of 35°CDB. H ressure level indicates nnected, the operation	leating: Indoor temp. o the value in an anecho characteristics of all o	f 20'CDB, and outdoo ic chamber. During op ombinations are differe	r temp. of 7°CDB, 8°CV ination these values are nt. MHIAA advise the us	VB. Piping length is 7.5r somewhat higher due 1 se of Multi KX series de	n. to ambient conditions. sign software for	

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KXZEI

Heat Pump Combination Systems (120.0kW - 168.0kW)

Model No.	Nominal Coolin
FDC1200KXZE1 (FDC400+FDC400+FDC400)	120.0kW
FDC1250KXZE1 (FDC400+FDC400+FDC450)	125.0kW
FDC1300KXZE1 (FDC400+FDC450+FDC450)	130.0kW
FDC1350KXZE1 (FDC450+FDC450+FDC450)	135.0kW
FDC1425KXZE1 (FDC475+FDC475+FDC475)	142.5kW
FDC1450KXZE1 (FDC475+FDC475+FDC500)	145.0kW
FDC1500KXZE1 (FDC500+FDC500+FDC500)	150.0kW
FDC1560KXZE1 (FDC500+FDC500+FDC560)	156.0kW
FDC1620KXZE1 (FDC500+FDC560+FDC560)	162.0kW
EDC1680KXZE1 (EDC560+EDC560+EDC560)	168.0kW

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See page 86 for exterior dimen

The IAOZ heat pump 2-pipe systems offer high performance VRF for applications that require either cooling only or heating only, ideal for open plan areas.
 Connect up to 80 hodror unity to 130% capacity.
 High efficiency with COP (in cooling) up to 3.6.
 IAOZ employs DC inverter compressors ONLY.
 Industry leading total piping length up to 1000m and a maximum pipe run of 160m.



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Specifications

ltem			Model	FDC1200KXZE1	FDC1250KXZE1	FDC1300KXZE1	FDC1350KXZE1	ZE1 FDC1425KXZE1 FDC1450KXZE1 FDC1500KXZE1 FDC1560KXZE1 FDC1620KXZE1 FDC1680KX					FDC1680KXZE
				400KXZE1	400KXZE1	400KXZE1	450KXZE1	475KXZE1	475KXZE1	500KXZE1	500KXZE1	500KXZE1	560KXZE1
Combination (FDC)				400KXZE1	400KXZE1	450KXZE1	450KXZE1	475KXZE1	475KXZE1	500KXZE1	500KXZE1	560KXZE1	560KXZE1
				400KXZE1	450KXZE1	450KXZE1	450KXZE1	475KXZE1	500KXZE1	500KXZE1	560KXZE1	560KXZE1	560KXZE1
Power Source							3 Phase 38	0-415V, 50Hz					
Naminal Conneily	Cooling		LAM	120.0	125.0	130.0	135.0	142.5	145.0	150.0	156.0	162.0	168.0
Nominal Capacity	Heating		KW	135.0	140.0	145.0	150.0	159.0	162.0	168.0	175.0	182.0	189.0
	Starting Currer	ıt			1	15				2	24		
Max Current		^		96									
Electrical	Power	Cooling	LAM	32.88	35.90	38.92	41.90	41.94	41.93	41.91	44.56	47.21	49.86
Characteristics	Consumption	Heating	KW	32.07	33.88	35.69	37.50	39.00	39.49	40.47	42.93	45.39	47.85
	Running	Cooling		52.5	57.4	62.3	67.2	67.8	67.8	67.8	72.1	76.4	80.7
	Current	Heating	A	52.5	55.4	58.3	61.2	63.0	63.8	65.4	69.4	73.4	77.4
Exterior Dimensions	HxWxD		mm					2048x4	050x720				
Net Weight			kg		951 1110								
Refrigerant Charge	R410A		kg					11.5	5 x 3				
Refrigerant Piping	Liquid Line		mm					ø19.0	5(3/4")				
Size	Gas Line		(in)				¢	38.1(1 1/2") [ø34.92(1 3/8')]			
Capacity Connection													
Max Connectable Indoor Units								٤	10				
1. The data is measured under 2. The operation data indicate v 4. Select the breaker size accor MHIVA advise the use of Multi H	Max Contractioner Index Initiation File Contractions (Section 2014) (Section 2014												

OUTDOOR UNITS



KXZE2

Heat Pump Systems (28.0kW - 33.5kW)

Model No. FDC280KX FDC335KX	ZE2 ZE2	Nomir 28.0k 33.5k	nal Cooling N N	Capacity	
 The new H in a new n Connect u High efficie New Heat 	XZE2 heat p nodern desigr p to 44 indoo ancy with EEF ng Solution-0	ump 2-pipe sy 1. yr units/up to 2 R up to 3.86 Continuous He	stems offer h 200% capacitating Capacit	nigh performa ty. ty Control (CH	nce VRF HCC).
Increased N	lumber of Conne	ctable Units	Increas	sed Connection (Capacity
Model	KXZE1	KXZE2	Model	KXZE1	KXZE2
280	1-24	1-37	280	50-130%	50-200%
335	1-29	1-44	335	50-130%	50-200%





Specifications

ltem			Model	FDC280KXZE2	FDC335KXZE2		
Power Source				3 Phase 380-4	\$15V, 50Hz		
Neminal Consults	Cooling		1.00	28.0	33.5		
Nominal Capacity	Heating		KW	31.5	37.5		
	Starting Current			5			
	Max Current		A	20.1	l .		
Electrical Characteristics	Power	Cooling	LM	7.25	8.98		
Electrical characteristics	Consumption	Heating	KW	7.41	9.03		
	Running	Cooling		12.0	14.7		
	Current	Heating	^	12.2	14.8		
Exterior Dimensions	HxWxD		mm	1697x135	1697x1350x720		
Net Weight			kg	288	1		
Refrigerant Charge	R410A		kg	11.0	11.0		
Sound Pressure level	Cooling/Heating		dB(A)	56/57	63/62		
	Liquid Line		mm	ø9.52(3/8")	ø12.7(1/2")		
Retrigerant Piping Size	Gas Line		(in)	ø22.22(7/8")	ø25.4(1") [ø22.22(7/8")]		
Capacity Connection				50 - 2	00		
Max Connectable Indoor Un	its			37	44		

3. Sound 4. Select 5. Multi K

See page 87 for exterior dim

DUTDOORUNITS



See page 88 for exterior dimensions

KXZE2

Heat Pump Systems (40.0kW - 56.0kW)

NEW





*1 The difference by from the first bra *2 It is necessary to The range of use height diffe

Specifications

Item			Model	FDC400KXZE2	FDC450KXZE2	FDC475KXZE2	FDC500KXZE2	FDC560KXZE2	
Power Source						3 Phase 380-415V, 50Hz			
Neminal Conneity	Cooling		1.311	40.0	45.0	47.5	50.0	56.0	
Nominal Capacity	Heating		KW	45.0	50.0	53.0	56.0	63.0	
	Starting Currer	ıt		5	i		8		
	Max Current		n 1	3	2		40.2		
Electrical Characteristics	Power	Cooling	LW	10.98	13.98	13.97	14.01	17.50	
Electrical citaracteristics	Consumption	Heating	ĸw	10.23	12.50	12.99	13.56	16.15	
	Running	Cooling		17.6	22.4	22.6	22.6	26.9	
	Current	Heating	~	16.7	20.4	21.0	21.9	26.1	
Exterior Dimensions	H x W x D		mm	mm 2052×1350×720					
Net Weight			kg	33	2		378		
Refrigerant Charge	R410A		kg			11.5			
Sound Pressure level	Cooling/Heatin	9	dB(A)	60/62	61/62	61/61	61/62	63/64	
Pofrigorant Dising Size	Liquid Line		mm			ø12.7(1/2")	ø12.7(1/2")		
neingerant riping 5ize	Gas Line		(in)	\$25.4(1") [\$28.58(1 1/8")]		ø28.58 (1 1/8")			
Capacity Connection					200				
Max Connectable Indoor U	Inits			53	60	50	53	59	
Capacity Connection Max Connectable Indoor U	Gas Line Inits		(in) %	#25.4(1*) [#28.58(1 1/8*)] 50 - 53	200 60	¢28.58 50	(1 1/8") 50 - 160 53	59	

NS / N2S 3823.2). Cooling: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp operated at 2307 60Hz for 1 phase, 4007 50Hz for 3 phase. c chamber, During operation these values are somewhat higher due to ambient o

OUTDOOR UNITS



KXZE2

Heat Pump Combination Systems (61.5kW - 67.0kW)

Nominal Cooling Capacity 61.5kW 67.0kW Model No. FDC615KXZE2 FDC670KXZE2 The new KXZE2 heat pump 2-pipe systems offer high performance VRF in a new modern design.
 Connect up to 71 indoor units/up to 160% capacity.
 High efficiency with EER up to 3.78
 New Heating Solution-Continuous Heating Capacity Control (CHCC). New Heating Solution Proof to Robert Francesco Connection Capacity
Increased Number of Connectable Units
Increased Number of Connectable Units
Model KXZE1 KXZE2
Model KXZE1 KXZE2
 Model
 KXZE1
 KXZE2

 615
 2-53
 2-65

 670
 2-58
 2-71



and the shortest Inovan . 40m. (MAX85m) -nrresponding to each height diffe from the t *2 It is neces



Total length: 1000m

To the first branch: max 130m

From the first b to the furthest indoor unit: 90r

opeeniee	10000				See page so tot extentor dimension
ltem			Model	FDC615KXZE2	FDC670KXZE2
Combination (CDC)				280KXZE2	335K0(ZE2
Combination (FDC)				335KXZE2	335K0/ZE2
Power Source				3 Phase 380	-415V, 50Hz
N	Cooling			61.5	67.0
Nominal Capacity	Heating		KW	69.0	75.0
	Starting Current			1	0
	Max Current		^	40	2
lectrical Characteristics	Power	Cooling	1.111	16.24	17.96
Electrical citatacteristics	Consumption	Heating	NW	16.44	18.06
	Running	Cooling		26.7	29.4
	Current	Heating	1 ^	27.0	29.6
Exterior Dimensions	HxWxD		mm	1697x27	00x720
Net Weight	•		kg	57	6
Refrigerant Charge	R410A		kg	11.	bi2
Defeigement Dising Circ	Liquid Line		mm	ø12.7	1/2")
Reingerant Piping Size	Gas Line		(in)	ø28.58	1 1/8")
Capacity Connection					
Max Connectable Indoor Un	its			65	71
1. The data is measured under the folio 2. The coveration data indicate when the	wing conditions (AS / NZ	S 3823.2). Cooli ed at 230V 50Hz	ng: Indoor tem	p. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating: Indoor temp. of 20°CZ 00% /0°Hz for 3 phase. 3. Sound pressue level indicates the value in an americal characteristic characteristic.	B, and outdoor temp. of 7°CDB, 8°CWB. Piping length is 7.5m. ther During operation these values are comwhat higher due to ambient conditions.

The optimation salar indicate which the an optimation of the own national standard 4. Select the breaker size according to the own national standard 5. Mult IX series air conditioners are VRE systems to which the i specifications on all individual combination types.

OUT DOOR U NI TS





KXZE2

Heat Pump Combination Systems (142.5kW - 168.0kW)

NEW

Model No.	N
FDC1425KXZE2 (FDC475+FDC475+FDC475)	1.
FDC1450KXZE2 (FDC475+FDC475+FDC500)	1.
FDC1500KXZE2 (FDC500+FDC500+FDC500)	18
FDC1560KXZE2 (FDC500+FDC500+FDC560)	18
FDC1620KXZE2 (FDC500+FDC560+FDC560)	- 10
FDC1680KXZE2 (FDC560+FDC560+FDC560)	10



The new KXZE2 heat pump 2-pipe systems offer high performance VRF in a new

modern design.
Connect up to 80 indoor units/up to 130% capacity.
High efficiency with EER up to 3.40
Extended external static pressure 50Pa to Max 85Pa.

Total length: 1000m Range of Op Indoor u height Indoor uni oor units: *2 From the first br to the furthest indoor unit: 90m Indoor from the first branch must be with *2 It is necessary to change the settin The range of use is also defferent. im) g to each height difference in ins

								See page 88	for exterior dimension
Item			Model	FDC1425KXZE2	FDC1450KXZE2	FDC1500KXZE2	FDC1560KXZE2	FDC1620KXZE2	FDC1680KXZE2
				475KXZE2	475KXZE2	500KXZE2	500KXZE2	500KXZE2	560KXZE2
Combination (FDC)				475KXZE2	475KXZE2	500KXZE2	500KXZE2	560KXZE2	560KXZE2
				475KXZE2	500KXZE2	500KXZE2	560KXZE2	560KXZE2	560KXZE2
Power Source						3 Phase 380	0-415V, 50Hz		
	Cooling			142.5	145.0	150.0	156.0	162.0	168.0
Heating		ĸw	159.0	162.0	168.0	175.0	182.0	189.0	
	Starting Current					2	24		
	Max Current		1 ^			12	10.6		
Electrical Por Characteristics Ru	Power	Cooling	1.11/	41.91	41.95	42.03	45.52	49.01	52.50
	Consumption	Heating	eating	38.97	39.54	40.68	43.27	45.87	48.46
	Running	Cooling		67.8	67.8	67.8	72.1	76.4	80.7
	Current	Heating	A	63.0	63.9	65.7	69.9	74.1	78.3
Exterior Dimensions	HxWxD		mm			2052x4	050x720		
Net Weight			kg			11	134		
Refrigerant Charge	R410A		kg			11.	5 x 3		
Refrigerant Piping	Liquid Line					ø19.0	5(3/4")		
Size	Gas Line		1 11111 (011)			ø38.1(1 1/2") [[ø34.92(1 3/8")]		
Capacity Connection				50 - 130					
Max Connectable Inde	oor Units					8	30		
The data is measured under The operation data indicate Select the breaker size acco /HIAA advise the use of Multi	the following conditions () when the air-conditioner is rding to the own national KX series design software	AS / NZS 3823 operated at 2 standard. 5. M for specificatio	2). Cooling: In 30V 50Hz for 1 uti KK series ai ns on all individ	door temp. of 27°CDB, 19°CV phase, 400V 50Hz for 3 phase conditioners are VRF system tual combination types.	/B, and outdoor temp. of 35°C e. 3. Sound pressure level indi s to which the indoor units of o	DB. Heating: Indoor temp. of 2 cates the value in an anechoic ifferent capacities and differen	20°CDB, and outdoor temp. of chamber. During operation th it models can be connected, th	7'CDB, 6'CWB. Piping length ase values are somewhat high re operation characteristics of	is 7.5m. ar due to ambient conditions all combinations are different

OUTDOOR UNITS



KXZXE2

Hi-COP Heat Pump Systems (56.0kW - 113.5kW)

Model No.

	FDC560KXZKE2 (FDC280+FDC280) FDC380KXZKE2 (FDC280+FDC280+FDC280) FDC380KXZKE2 (FDC280+FDC235+FDC335) FDC390KXZKE2 (FDC335+FDC335+FDC335) FDC1000KXZKE2 (FDC335+FDC335+FDC305) FDC1080KXZKE2 (FDC335+FDC305) FDC1080KXZKE2 (FDC335+FDC400) FDC11280KXZKE2 (FDC335+FDC305) FDC11280KXZKE2 (FDC335+FDC305) FDC11280KXZKE2 (FDC335+FDC400) FDC11280KXZKE2 (FDC335+FDC400) FDC1000KXZKE2 (FDC300) FDC1000KXZKE2 (FDC300) FDC100KX FDC100KXZKE2 (FDC300) FDC100KX FDC10KX FDC10KX FDC10KX FDC10KX FDC10KX FDC10KX FDC10KX FDC10KX FDC10KX FDC10KX	
--	--	--

The IO/2XE2 2-pipe, heat pump systems offer high performance and highly energy efficient VFF solution for applications that require either cooling only or heating only, ideal for open plan areas.
High efficiency with EER up to 3.86
These units employ DC inverter multiport compressors with concentrated winding motor.
Extended externel static pressure 50Pa to Max 85Pa.
Industry leading tata piping length up to 1000m and a maximum pipe run of 160m.













OUTDOORUNITS

KXZXCZ Heat Pump

OUTDOOR UNITS

KXZXE2

Hi-COP Heat Pump Systems (56.0kW - 113.5kW)

NEW

Specifications

-						See page 87 for exterior dimensio		
Item			Model	FDC560KXZXE2	FDC850KXZXE2	FDC900KXZXE2		
0				280KXZE2	280KXZE2	335KXZE2		
Combination (FDC)				280KXZE2	280KXZE2	280KXZE2		
					280KXZE2	280KXZE2		
Power Source					3Phase 380-415V, 50Hz			
Neminal Casesity	Cooling			56.0	84.0	89.5		
Heati	Heating		***	63.0	94.5	100.5		
	Starting Curren	ng Current		Starting Current		10	1	5
	Max Current		1 ^	40.2	60.3			
Electrical	Power Consumption	Cooling		14.51	21.76	23.49		
Characteristics		Heating	1 KW	14.82	22.23	23.85		
	Running	Cooling		24.0	36.0	38.7		
	Current	Heating	1 ^	24.4	36.6	39.2		
Exterior Dimensions	HxWxD		mm	1697x2700x720	1697x4	050x720		
Net Weight			kg	576	8	64		
Refrigerant Charge	R410A		kg	11.0 x 2	11.)x3		
Refrigerant Piping	Liquid Line		mm	ø12.7(1/2")	ø15.8	3 (5/8")		
Size	Gas Line		(in)	ø28.58(1 1/8")	ø31.75(1 1/4") [ø34.92(1 3/8")]			
Capacity Connection					80 - 160			
Max Connectable Indo	or Units			59	8	0		

						See !	age or -oo ini exterior uniterisit	
Item			Model	FDC950KXZXE2	FDC1000KXZXE2	FDC1060KXZXE2	FDC1120KXZXE2	
				335KXZE2	335KXZE2	335KXZE2	335KXZE2	
Combination (FDC)				335KXZE2	335KXZE2	335KXZE2	400KXZE2	
280K0/ZE2 335K0/ZE2 400K//ZE2						400KXZE2		
Power Source					3Phase 380	-415V, 50Hz		
Naminal Cananity	Cooling		LM	95.0	100.5	107.0	113.5	
Nominal Capacity	Heating		KW	106.5	112.0	12.0	127.5	
	Starting Curren	nt			1	5		
	Max Current		A	61	0.3	72.2	84.1	
Electrical	Power Consumption	Cooling	ioling	25.22	26.94	28.94	30.94	
Characteristics		Heating	KW	25.47	27.09	28.29	29.48	
	Running Current	Cooling Heating A	41.4	41.1	47.0	49.9		
			ing	41.8	44.4	46.3	48.2	
Exterior Dimensions	HxWxD		mm	1697x4	050x720	2052x4050x720		
Net Weight			kg	8	64	908	952	
Refrigerant Charge	R410A		kg	11.0) x 3	11.0 x 2+11.5	11.0 +11.5 x 2	
Defringenet Dising Cine	Liquid Line		mm	ø15.8	3 (5/8")	ø19.0	5(3/4")	
neingerant Piping Size	Gas Line		(in)	\$31.75(1 1/4") [\$34.92(1 3/8")]	ø38.1(1 1/2")	[#34.92(1 3/8")] #31.75(1 1/4") [#34.92(1 3/8")]		
Capacity Connection				80 - 160				
Max Connectable Indoor	r Units				8	0		
1. The data is measured under the	following conditions (AS / NZS 3823	21. Coolina:	indoor temp. of 27"CDB. 19"CWB. and outdo	or temp. of 35"CDB. Heating: Indoor temp. of	20°CDB, and outdoor temp. of 7°CDB. 6°CW	B. Piping length is 7.5m.	

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OUTDOOR UNITS



KXZRE2

Heat Recovery Systems (22.4kW - 33.5kW)

Nominal Cooling Capacity 22.4kW 28.0kW 33.5kW Model No. FDC224KXZRE2 FDC280KXZRE2 FDC335KXZRE2

The new KXZ2 series has a layered design and a refined new form.
Connect up to 44 indoor units / up to 200% capacity.
High efficiency with EEP up to 3.89
These units employ DC inverter multiport compressors with
concentrated winding motor.
Industry leading total piping length up to 1000m and a maximum pipe
run of 180m.







See page 89 for exterior dimens

Specifications

ltem			Model	FDC224KXZRE2	FDC280KXZRE2 FDC335KXZRE2			
Power Source					3 Phase 380-415V, 50Hz			
	Cooling			22.4	28.0	33.5		
Nominal Capacity	Heating		ĸw	22.4	28.0	33.5		
	Starting Curren	ıt			5			
	Max Current		~	16	20	21.2		
Electrical Characteristics	Power	Cooling	LAW	5.76	7.39	9.65		
Electrical characteristics	Consumption	Heating	ĸw	5.27	6.86	8.44		
	Running	Cooling		10.1	12.2	15.8		
	Current	Heating	n	9.1	11.3	13.8		
Exterior Dimensions	HxWxD	-	mm		1697×1350×720			
Net Weight			kg		305			
Refrigerant Charge	R410A		kg	11.5				
Sound Pressure level	Cooling/Heating	9	dB(A)	56/58	55/57	63/63		
	Liquid Line			ø9.52	(3/8")	ø12.7(1/2")		
Refrigerant Piping Size	Suction Gas Lir	10	mm (in)	ø19.05(3/4")	ø22.22(7/8")	ø25.4(1") [ø22.22(7/8")]		
	Discharge Gas Line		(11)	ø15.88(5/8*')	ø19.0	5(3/4")		
Capacity Connection					50 - 200			
Max Connectable Indoor Units				29	37	44		
The data is measured under the fol	lowing conditions (AS	/ NZS 3823.2).	Cooling: Indi	or temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CD	B. Heating: Indoor temp. of 20°CDB, and outdoor temp. of rates the value in an americal chamber. During operation the	7°CDB, 6°CWB. Piping length is 7.5m.		

The operation data indicate when the air-conditioner is operating 4. Select the breaker size according to the own national standard 5. Mult KX series air conditioners are VRF systems to which the i seedications on all individual combination trops.

OUTDOORUNITS



KXZRE2

Heat Recovery Systems (40.0kW - 50.0kW)

NEW

Model No.	
FDC400KXZRE2	
FDC450KXZRE2	
FDC475KXZRE2	
EDC500KX7RE2	

Nominal Cooling Capacity 40.0kW 45.0kW 47.5kW

50.0kW DC500KXZRE2

The new KXZ2 series has a layered design and a refined new form
 Connect up to 60 indoor units / up to 160% Capacity.
 (400-450KXZRE2:200%)

(400-450/CcHe2200%) High efficiency with a EER up to 3.46 These units employ DC inverter multiport compressors with concentrated winding motor; Industry leading total piping length up to 1000m and a maximum pipe run of 160m.





See page 88 for exterior dimensions

Uniform footprint of all m 22.4kW~50kW) allows or by-side installation

Specifications

Item			Model	FDC400KXZRE2	FDC450KXZRE2 FDC475KXZRE2 FDC500KXZRE2				
Power Source				3 Phase 380-415V, 50Hz					
Neminal Conneity	Cooling		1.000	40.0	45.0	47.5	50.0		
Nominal capacity	Heating		KW	40.0	45.0	47.5	50.0		
	Starting Curren	ıt			5		3		
	Max Current] ^	30	32	40.4	41		
Electrical	Power	Cooling		11.56	14.47	14.84	15.20		
Characteristics	Consumption	Heating	***	9.76	11.39	11.67	12.69		
	Running	Cooling	Cooling A Heating	18.5	23.1	24.0	24.6		
	Current	Heating		15.9	18.6	18.9	20.5		
Exterior Dimensions	H x W x D		mm		2052x13	350x720			
Net Weight			kg	372 420					
Refrigerant Charge	R410A		kg	11.5					
Sound Pressure level	Cooling/Heatin	g	dB(A)	61/62		61/62	61/62		
	Liquid Line				ø12.7	(1/2")			
Refrigerant Piping	Suction Gas Li	18	mm (in)	ø25.4(1")(ø28.58(1 1/8")]		ø28.58(1 1/8")			
0120	Discharge Gas	Discharge Gas Line							
Capacity Connection				50 - 200		50 - 160			
Max Connectable Indo	or Units			53 60		50	53		
1. The data is measured under th	te following conditions	(AS / NZS 382	3.2). Cooling	Indoor temp. of 27°CDB, 19°CWB, and outd	or temp. of 35'CDB. Heating: Indoor temp. of	20°CDB, and outdoor temp. of 7°CDB, 6°CW	B. Piping length is 7.5m.		

 The operation data indi 4. Select the breaker size
 Multi KK series air cond se of Multi Ki

OUTDOOR UNITS

KXZRCZ Heat Recovery NEW

KXZRE2

Heat Recovery Combination Systems (73.5kW-90.0kW)

Model No. FDC735KXZRE2 (FDC335+FDC400) FDC800KXZRE2 (FDC400+FDC400) FDC850KXZRE2 (FDC400+FDC450) FDC900KXZRE2 (FDC450+FDC450)

Connect up to 80 indoor units / up to 160% capacity.
 High efficiency with EER up to 3.47
 These units employ DC inverter multiport compressors with concentrated winding motor.
 Industry leading total piping length up to 1000m and a maximum pipe run of 160m.







See page 89-90 for exterior dimens

Specifications

Item Model FDC735KXZRE2 FDC800KXZRE2 FDC800KXZRE2				FDC850KXZRE2	FDC900KXZRE2				
0				400KXZRE2	400KXZRE2	450KXZRE2	450KXZRE2		
Combination (FDC)				335KXZRE2	400KXZRE2	400KXZRE2	450KXZRE2		
Power Source					3 Phase 380	I-415V, 50Hz			
Neminal Consults	Cooling		1.111	73.5	80.0	85.0	90.0		
Nominal Capacity	Heating		KW	73.5	80.0	85.0	90.0		
	Starting Curren	nt			1	0			
Electrical Characteristics	Max Current		1 A	51.2	60	62	64		
	Power	Cooling	kW	21.21	23.12	26.03	28.94		
	Consumption	Heating		18.20	19.52	21.15	22.78		
	Running	Cooling	A	34.3	37.0	41.6	46.3		
	Current	Heating		29.7	31.9	34.6	37.2		
Exterior Dimensions	HxWxD		mm		2052x27	700x720			
Net Weight			kg	677		744			
Refrigerant Charge	R410A		kg		11.5	ix2			
0	Liquid Line				ø15.8	8(5/8")			
Retrigerant Piping	Suction Gas Li	18	mm (in)		ø31.75(1 1/4")[ø34.92(1 3/8")]			
5126	Discharge Gas	Discharge Gas Line		\$25.4(1")[\$28.58(1 1/8")]	#25.4(1")[#28.58(1 1/8")] #28.58 (1 1/8")				
Capacity Connection									
Max Connectable Indo	or Units			78		80			

VES 3853.2), Cooling: Indoor temp. of 27*CDB, 19*CMB, and outdoor temp. of 30*CDB. Heating: Indoor temp. of 20*CDB, and outdoor temp. of 7*CDB, 0*CMB. Piping length is 7.5m. rated at 230V KDHz for 1 phase. 400V KDHz for 3 phase. 3, Sound pressure level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to

OUT DOOR U NI TS



KXZRE2

Heat Recovery Combination Systems (95.0kW - 100.0kW)

Model No. FDC950KXZRE2 (FDC475+FDC475) FDC1000KXZRE2 (FDC500+FDC500)

Nominal Cooling Capacity 95.0kW 100.0kW

NEW

The new KXZ2 series has a layered design and a refined new form

The new XXZ2 series has a layered design and a relined new With.
 Connect up to 80 indoor units / up to 130% capacity.(950KXZRE2:160%)
 High efficiency with EER up to 3.47.
 These units employ DC inverter multiport compressors with concentrated winding

notor

Industry leading total piping length up to 1000m and a maximum pipe run of 160m.







See page 90 for exterior dimension

Specifications

Item	Item Model			FDC950KXZRE2	FDC1000KXZRE2
Combination (EDC)				475KXZRE2	500KXZRE2
Combination (PDC)	Compilation (LDO)			475KXZRE2	500KXZRE2
Power Source				3 Phase 380	0-415V, 50Hz
Neminal Canasily	Cooling		LAM	95.0	100.0
Nominal Capacity	Heating		KW	95.0	100.0
	Starting Current			1	6
	Max Current	Max Current		80.8	82.0
Electrical Characteristics	Power Consumption	Cooling	LAM	29.68	30.40
		Heating	N.W	23.34	25.38
	Running Current	Cooling		48.0	49.1
		Heating	_	37.7	41.0
Exterior Dimensions	HxWxD		mm	2052x2	700x720
Net Weight			kg	8	40
Refrigerant Charge	R410A		kg	11.5	5x2
	Liquid Line			ø15.8	8(5/8")
Refrigerant Piping Size	Suction Gas Line		mm (in)	ø31.75(1 1/4")[ø34.92(1 3/8")]	ø38.1(1 1/2")[ø34.92(1 3/8")]
	Discharge Gas Li	Discharge Gas Line		ø28.58	(1 1/8")
Capacity Connection					
Max Connectable Indoor Un	nits			8	0

The data meaned under the biolong conditions (84). ALCS 2021.0, Costing Indices temps, d197COB, 197OKB, and outdoor temps, d197COB, temps, d197CO

OUTDOOR UNITS



KXZRE2

Heat Recovery Combination Systems (120.0kW-142.5kW)

Model No. FDC1200K0ZRE1 (FDC400+FDC400+FDC400) FDC1250K0ZRE1 (FDC400+FDC400+FDC450) FDC1350K0ZRE1 (FDC405+C450+FDC450) FDC1350K0ZRE1 (FDC475+FDC475+FDC475) FDC1425K0ZRE1 (FDC475+FDC475)

The new KVZ2 series has a layered design and a refined new form.
Connect up to 80 indoor units / up to 130% capacity.
High efficiency with EER up to 3.46
These units enploy DC inverter multiport compressors with concentrated winding motor.

Industry leading total piping length up to 1000m and a maximum pipe run of 160m







Specifications

Item				FDC1200KXZRE2	FDC1250KXZRE2	FDC1300KXZRE2	FDC1350KXZRE2	FDC1425KXZRE2	
				400KXZRE2	400KXZRE2	450KXZRE2	450KXZRE2	475KXZRE2	
Combination (FDC)				400KXZRE2	400KXZRE2	400KXZRE2	450KXZRE2	475KXZRE2	
				400KXZRE2	450KXZRE2	450KXZRE2	450KXZRE2	475KXZRE2	
Power Source						3 Phase 380-415V, 50Hz			
Neminal Consults	Cooling		LAM	120	125	130	135	142.5	
Nominal Capacity	Heating		NW	120	125	130	135	142.5	
Starting Current		rt			1	5		24	
Electrical Characteristics	Max Current			90.0	92.0	94.0	96.0	121.2	
	Power	Cooling		34.68	37.59	40.50	43.41	44.52	
	Consumption	Heating	KW I	29.28	30.91	32.54	34.17	35.01	
	Running	Cooling		55.5	60.1	64.8	69.4	72.0	
	Current	Heating	~	47.8	50.5	53.2	55.8	56.6	
Exterior Dimensions	HxWxD		mm	2052x4050x720					
Net Weight			kg	1116 1260					
Refrigerant Charge	R410A		kg			11.5 x 3			
	Liquid Line					ø19.05(3/4")			
Refrigerant Piping	Suction Gas Lin	10	mm (in)			\$38.1(1 1/2")[\$34.92(1 3/8")]		
3126	Discharge Gas	Line	(01)		ø	31.75(1 1/4")[ø28.58(1 1/8")]		
Capacity Connection				50 - 130					
Max Connectable Indo	or Units			80					



KXZRE2

Heat Recovery Combination Systems (145.0kW -150.0kW)

NEW

Model No. FDC1450KXZRE2 (FDC475+FDC475+FDC500) FDC1500KXZRE2 (FDC500+FDC500+FDC500)

Nominal Cooling Capacity 145.0kW 150.0kW









See page 90 for exterior dimensions

Specifications

Item			Model	FDC1450KXZRE2	FDC1500KXZRE2		
			475KXZRE2		500KXZRE2		
Combination (FDC)				475KXZRE2	500KXZRE2		
				500KXZRE2	500KXZRE2		
Power Source				3 Phase 380	0-415V, 50Hz		
Naminal Canasity	Cooling		LAW	145.0	150.0		
Nominal Capacity	Heating		KW	145.0	150.0		
	Starting Current			2	4		
	Max Current		A	121.8	123.0		
Electrical Characteristics	Power Consumption	Cooling		44.88	45.60		
		Heating	KW	36.03	38.07		
	Duranian Current	Cooling		72.5	73.7		
	Running Current	Heating	А	58.2	61.5		
Exterior Dimensions	HxWxD		mm	2052x2700x720			
Net Weight	·		kg	12	60		
Refrigerant Charge	R410A		kg	11.3	5x3		
	Liquid Line			ø19.05(3/4")			
Refrigerant Piping Size	Suction Gas Line		mm (in)	ø38.1(1 1/2")[s34.92(1 3/8")]		
	Discharge Gas Lin	18		#31.75(1 1/4")[#28.58(1 1/8")]			
Capacity Connection				50 - 130			
Max Connectable Indoor L	Inits			8	0		

OUTDOOR UNITS



KXZRXE2

Hi-COP Heat Recovery Combination Systems (45.0kW-67.0kW)

Model No. FDC450/K/ZRXE2 (FDC224+FDC224) FDC500/K/ZRXE2 (FDC280+FDC280) FDC560/K/ZRXE2 (FDC280+FDC280) FDC615/K/ZRXE2 (FDC280+FDC335) FDC670/K/ZRXE2 (FDC335+FDC335)

Connect up to 71 indoor units / up to 160% capacity. (450KXZFKE2:200%)
 High efficiency with EER up to 3.91.
 These units employ DC inverter multiport compressors with concentrated winding motor.
 Industry leading total piping length up to 1000m and a maximum pipe run of 160m.



See page 89 for exterior dimens

OUT DOOR UNITS



Range of Operation

Specifications

ltem			Model	FDC450KXZRXE2	FDC500KXZRXE2	FDC560KXZRXE2	FDC615KXZREX2	FDC670KXZRXE2	
0				FDC224KXZRE2	FDC224KXZRE2	FDC280KXZRE2	FDC280KXZRE2	FDC335KXZRE2	
Combination (FDC)				FDC224KXZRE2	FDC280KXZRE2	FDC280KXZRE2	FDC335KXZRE2	FDC335KXZRE2	
Power Source						3 Phase 380-415V, 50Hz		·	
Naminal Consults	Cooling		LAM	45.0	50.0	56.0	61.5	67.0	
Norminal Capacity	Heating		KW	45.0	50.0	56.0	61.5	67.0	
	Starting Currer	rt				10			
	Max Current		^	32.0	26.0	40.0	41.2	42.4	
Electrical	Power	Cooling		11.52	13.15	14.78	17.04	19.30	
Characteristics Consumption Running Current	Consumption	Heating	ĸw	10.54	12.13	13.72	15.30	16.88	
	Running	Cooling		20.2	22.3	24.4	28.0	31.5	
	Current	Heating	A	18.2	20.4	22.7	25.1	27.6	
Exterior Dimensions	HxWxD		mm	1697x2700x720					
Net Weight			kg			610			
Refrigerant Charge	R410A		kg			11.5 x 2			
	Liquid Line			ø12.7 (1/2")					
Refrigerant Piping	Suction Gas Lin	10	mm (in)			ø28.58 (1 1/8")			
Size	Discharge Gas	Line	(01)		ø22.22 (7/8")		ø25.4(1")[ø	22.22(7/8")]	
	Oil Equalization	1				ø9.52 (3/8")			
Capacity Connection 9				80-200					
Max Connectable Indo	or Units			60	53	59	65	71	
The data is measured under the operation data indicate will Select the breaker size accord	e following conditions hen the air-conditioner ing to the own national	(AS / NZS 382 s operated at 2 standard. 5. N	3.2). Cooling: 230V 50Hz fo fulti KX series	Indoor temp. of 27°CDB, 19°CWB, a r 1 phase, 400V 50Hz for 3 phase. 3 air conditioners are VPF systems to	and outdoor temp. of 30°CDB. Heatin . Sound pressure level indicates the v which the indicor units of different cap	g: Indoor temp. of 20°CDB, and outo alue in an anechoic chamber. During pacities and different models can be i	loor temp. of 7°CDB, 6°CWB. Piping operation these values are somewhat connected, the operation characterist	length is 7.5m. It higher due to ambient conditions. tics of all combinations are different	



KXZRXE2

Hi-COP Heat Recovery Combination Systems (75.0kW -100.0kW)

 Model No.
 FDC735K/ZFWE2 (FDC224+FDC224+FDC220)

 FDC800K/ZFWE2 (FDC224+FDC280)+FDC280)
 FDC600K/ZFWE2 (FDC280+FDC280)

 FDC600K/ZFWE2 (FDC280+FDC280)+FDC230)
 FDC600K/ZFWE2 (FDC280+FDC235)

 FDC600K/ZFWE2 (FDC235+FDC235)
 FDC1000K/ZFWE2 (FDC235+FDC235)



Concert up to 80 indoor units / up to 160% capacity. (100KW
 Connect up to 80 indoor units / up to 160% capacity. (100K0/CZFKE2:130%)
 High efficiency with EER up to 3.88.
 These units employ DC inverter multiport compressors with concentrated winding motor.
 Industry leading total piping length up to 1000m and a maximum pipe run of 160m.





See page 89 for exterior d

Specifications

ltem			Model	FDC735KXZRXE2	FDC800KXZRXE2	FDC850KXZRXE2	FDC900KXZRXE2	FDC950KXZRXE2	FDC1000KXZRXE2			
				FDC224KXZRE2	FDC224KXZRE2	FDC280KXZRE2	FDC280KXZRE2	FDC280KXZRE2	FDC335KXZRE2			
Combination (FDC)				FDC224KXZRE2	FDC280KXZRE2	FDC280KXZRE2	FDC280KXZRE2	FDC335KXZRE2	FDC335KXZRE2			
				FDC280KXZRE2	FDC280KXZRE2	FDC280KXZRE2	FDC335KXZRE2	FDC335KXZRE2	FDC335KXZRE2			
Power Source						3 Phase 38	-415V, 50Hz					
Naminal Canasily	Cooling		1.111	73.5	80.0	85.0	90.0	95.0	100.0			
Nominal Capacity	Heating			73.5	80.0	85.0	90.0	95.0	100.0			
	Starting Currer	nt				15						
		1 ^	52.0	56.0	60.0	61.2	62.4	63.6				
Electrical	Power	Cooling		18.91	20.54	22.17	24.43	26.69	28.95			
Characteristics	Consumption	Heating	1 KW	17.40	18.99	20.58	22.16	23.74	25.32			
	Running	Cooling		32.4	34.5	36.6	40.2	43.7	47.3			
	Current	Heating	1 ^	29.5	31.8	34.0	36.4	38.9	41.4			
Exterior Dimensions	HxWxD		mm		1690x4050x720							
Net Weight			kg	915								
Refrigerant Charge	R410A		kg			11.	5 x 3					
	Liquid Line					ø15.8	3(5/8*)					
Refrigerant Piping	Suction Gas Lin	ne] mm (in)		ø31	.75(1 1/4") [ø34.92(1 3	/8")]		ø38.1(1 1/2") [ø34.92(1 3/8")			
Size	Discharge Gas	Line	(41)	¢25.4(1") [¢28.58(1 1/8")]			ø28.58 (1 1/8")					
	Oil Equalization	1				ø9.52	(3/8")					
Capacity Connection												
Max Connectable Indoc	ır Units			78			80	-				
1. The data is measured under the following conditions (§ 1433,002.1). Coding holds them of 2702(§ 1970)B, and outbor them of 2702(§ 1440)B; holds them of 2702(B, et olds them of 2702(B, et olds them of 2702)B, et olds them of 2702(B, et olds them of 2702)B, et olds them of 2702(B, et olds them of 2702(B, et olds them of 2702)B)B (F olds B, et olds them of 2702(B, et olds them of 2702)B, et olds them of 2702(B, et olds them of 2702)B, et olds them of 2702(B, et olds them of 2702)B, et olds them of 2702(B, et olds them of 2702)B (F old B, et old B, et olds them of 2702)B (F old B, et old B, et olds them of 2702)B (F old B, et old B,									h is 7.5m. her due to ambient conditions. all combinations are different.			

OUTDOOR UNITS



KXZW

Watercooled Heat Pump Systems (22.4kW - 100.0kW)

33.5kW

45.0kW

45.0kW 50.0kW 56.0kW 61.5kW 67.0kW 73.0kW 77.5kW 85.0kW

90.0kW 95.0kW 100.0kW

Model No. FDC224KXZWE1 FDC280KXZWE1 FDC335KXZWE1 HDC359K02WE1 FDC450I0X201F(FDC224×2) FDC500I0X2WE1(FDC224+FDC280) FDC500I0X2WE1(FDC280+2) FDC615K02WE1(FDC280+FDC335) FDC615K02WE1(FDC284+FDC335x2) FDC730I0X2WE1(FDC224+FDC280x2) FDC73F0X2WE1(FDC224+FDC280x2) FDC950I02X10+(FDC224+FDC280x2) FDC950I02X10+(FDC224+FDC280x2) FDC900KXZWE1(FDC280×3) FDC900KXZWE1(FDC280×3) FDC950KXZWE1(FDC280×2+FDC335) FDC950KXZWE1(FDC280+FDC335×2) FDC1000KXZWE1(FDC335×3)



73kW, 77.5kW, 85kW, 90kW, 95kW, 100kW

Designed for large commercial buildings, MHIAAs new series of 2 pipe, water cooled VRF systems offer an efficient and flexible solution for a range of applications. The system's design allows the condenser to be installed within the building, which allows for greater fractability. Depending on syster capacity, up to 38 indoor units can be connected to a angle condensing unit with indulatized and/or centralized control.

Higher EEPCOP compared to air-coded systems.
 Huge energy savings and reduced operating costs.
 Compact design allowing for easy installation.
 Connect up to 80 units (3 × KOV units)
 Uillises same BMS as air-coded KX.
 Compatible with a range of systems.
 All components and connections accessible from one side for easy installation and maintenance.



KXZW Watercooled Heat Pump

OUTDOOR UNITS

See page 91 for exterior dim

Lineup (Outdoor Unit Combinations)

			Modules		Inde	oor Units
System Model no.	Capacity	FDC224KXZWE1	FDC280KXZWE1	FDC335KXZWE1	Connectable Capacity (1)	No. of Connectable Units
FDC224KXZWE1	22.4kW	1			11.2 - 33.6	1 to 22
FDC280KXZWE1	28.0kW		1		14.0 - 42.0	1 to 28
FDC335KXZWE1	33.5kW			1	16.7 - 50.3	1 to 33
FDC450KXZWE1	45.0kW	2			22.4 - 67.2	1 to 44
FDC500KXZWE1	50.0kW	1	1		25.2 - 75.6	1 to 50
FDC560KXZWE1	56.0kW		2		28.0 - 84.0	1 to 56
FDC615KXZWE1	61.5kW		1	1	30.7 - 92.3	2 to 61
FDC670KXZWE1	67.0kW			2	33.5 - 100.5	2 to 67
FDC730KXZWE1	73.0kW	2	1		36.4 - 109.2	2 to 72
FDC775KXZWE1	77.5kW	1	2		39.2 - 117.6	2 to 78
FDC850KXZWE1	85.0kW		3		42.0 - 127.5	2 to 80
FDC900KXZWE1	90.0kW		2	1	44.7 - 134.3	2 to 80
FDC950KXZWE1	95.0kW		1	2	47.5 - 142.5	2 to 80
FDC1000KXZWE1	100kW			3	50.2 - 150.8	2 to 80

Specifications

	Item			Model	FDC224KXZWE1	FDC280KXZWE1	FDC335KXZWE1	FDC450KXZWE1	FDC500KXZWE1	FDC560KXZWE1	FDC615KXZWE1			
	Cambination (CDC)					-	-	224KXZWE1	224KXZWE1	280KXZWE1	280KXZWE1			
	Combination (PDC)					-	-	224KXZWE1	280KXZWE1	280KXZWE1	335KXZWE1			
	Power Source				3 Phase 380-415V, 50Hz									
	Nominal Canacity	Cooling		LW	22.4	28.0	33.5	45.0	50.0	56.0	61.5			
	Nominal Capacity	Heating			25.0	31.5	37.5	50.0	56.0	63.0	69.0			
		Running	Cooling		7.14	9.64	13.4	14.3	16.5	19.3	22.7			
	Electrical	Current	Heating	_ ^	7.13	8.59	10.5	14.3	15.6	17.2	19.1			
	Characteristics	Power Consumption	Cooling	LAM	4.23	5.75	8.13	8.49	9.83	11.5	13.7			
			Heating	KW	4.24	5.10	6.30	8.47	9.27	10.2	11.4			
	EER		Cooling		5.3	4.9	4.1	5.3	5.1	4.9	4.5			
	COP		Heating		5.9	6.2	6.0	5.9	6.0	6.2	6.1			
	Exterior Dimensions	HxWxD		mm		$1100 \times 780 \times 550$		(1100 × 780 × 550) × 2						
	Net Weight			kg		185		185 x 2						
Refrigerant Charge R410A				kg	9.9 9.9 × 2									
	Sound Pressure Level			dB (A)	48	50	52	50	52	53	54			

ltem			Model	FDC670KXZWE1	FDC730KXZWE1	FDC775KXZWE1	FDC850KXZWE1	FDC900KXZWE1	FDC950KXZWE1	FDC1000KXZWE1		
				335KXZWE1	224KXZWE1	224KXZWE1	280KXZWE1	280KXZWE1	280KXZWE1	335KXZWE1		
Combination (FDC)				335KXZWE1	224KXZWE1	280KXZWE1	280KXZWE1	280KXZWE1	335KXZWE1	335KXZWE1		
					280KXZWE1	280KXZWE1	280KXZWE1	335KXZWE1	335KXZWE1	335KXZWE1		
Power Source				3 Phase 380-415V, 50Hz								
Naminal Canasily	Nominal Capacity Cooling		LAM	67.0	73.0	77.5	85.0	90.0	95.0	100		
Nominal Capacity Heating			KW	75.0	82.5	90.0	95.0	100	106	112		
	Running	Cooling		26.8	23.8	26.0	29.3	32.5	36.0	40.0		
Electrical	Current	Heating	1 ^	21.0	23.2	24.9	25.9	27.5	29.4	31.4		
Characteristics	Power	Cooling	Law	16.3	14.2	15.5	17.5	19.5	21.7	24.3		
	Consumption	Heating	KW	12.6	13.8	14.8	15.4	16.4	17.6	18.8		
EER		Cooling		4.1	5.1	5.0	4.9	4.6	4.4	4.1		
COP		Heating		6.0	6.0	6.1	6.2	6.1	6.0	6.0		
Exterior Dimensions	HxWxD		mm	$(1100\times780\times550)\times2$		·	(1100 × 78	0 × 550) × 3				
Net Weight			kg	185 x 2			185	x 3				
Refrigerant Charge	R410A		kg	9.9 × 2			9.9	l×3				
Sound Pressure Level	ound Pressure Level			55	54	54	55	56	56	57		
1. The data is measured under t	he following conditions	(AS / NZS 382	3.2). Cooling	Indoor temp. of 27°CDB,	19'CWB, and outdoor ten	p. of 35°CDB. Heating: In	door temp. of 20'CDB, and	outdoor temp. of 71CDB,	6'CWB. Piping length is 7	.śm.		

The operation data indicate when the air conditioner is operated at 2001 VDH for 1 phase. 4001 VDH for 3 phase. 3. Source pressure level indicates the value in an americal chamber. During operation these values are somewhat higher due to ambient conditions.
 A Select the braiser size according to the own national standards. 5. Multi KX asses are conclusioners an VEP systems to which the indicates the values in an americal different models can be connected, the operation duracteristics of all combinators are different.
 All address the use of the VII All KX consistentions on a Individual contraintion to next.

REFRIGERANT FLOW BRANCH CONTROL

PFD Refrigerant Flow Branch Control

Branch Control Total Downstream Indoor Unit Capacity PFD1124-E PFD1804-E PFD2804-E PFD1124X4-E

less than 11.2kW less than 18.0kW 28.0kW or less less than 44.8kW(less than 11.2kWx4 branches)

Design Flexibility

Groups of indoor units can be connected up to a total capacity 28.0kW to a single PFD with branch piping and all units in that group will operate in the same mode only (cooling or heating). We also have introduced the 4-way PED control PFD1124X4-E which can connect up to four indoor units with individual control - simultaneous cooling or heating.

Branch Con PFD1124-E PFD1804-E PFD2804-E Connectable Indoor Units 1-8 112 or more but less than 18 180 or more but less than 28 PFD1124X4-E less than 371(less than 112 per brand Up to 16 efer to Data Book for details 4 4

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In case of the mode changeover from cooling to heating and from cooling to heating, by the use of only the indoor units and PFD box combination, the mode changeover sound was reduced. All this made possible without utming of the compressor and at the same time without the reduction of capacity.

The risk of refrigerant leakage was reduced by changing piping connection at the PFD box to brazing method.

By the use of optional PFD box extension cable that has a by the date of upforman 12 box extension feature are in that is connector at ends, makes it possible to further separate the indoor unit and PFD box. This will enable the PFD box to be located away from the indoor unit and help reduce the influence of sound caused by PFD box and refrigerant flow.

28 90

(Cornes branch

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The remote control setting (as individual indoor unit on-off, temperature setting other than cooling/heating mode control) is possible with one remote control connected to each indoor unit, while at the same time, Center Control (SC-SI-H/2/NM/4-AE) car be used together with the individual remote control.

It is necessary to set the central control to use this function. Please refer to the Installation Manual for details.



Easy Installation

New PFD design means the connection of the indoor unit liquid pipe is made directly to the liquid line - bypassing the PFD. This means (x2) less pip connections per indoor unit, reducing installation time and cost

arge gas pipe gas pipe uction gas pipe / liquid pipe

PFD4-15WR-E (option)

The PFD is connected to the indoor unit by 3 core signal wire via a relay kit (supplied) to be located within 2m of each other. The indoor unit however can be up to 40m eavy. Power to the PFD can be connected from the indoor unit or other supply.

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REFRIGERANT FLOW BRANCH

PIPING & ELECTRICAL

Refrigerant Piping

The KVZ systems are manufactured to the highest standards of quality and reliability. It is imparative the method of installation and the materials used are also to high standards, to ensure trouble free operation and long term reliability.

The interconnecting pipework must be installed by a competent and trained engineer. Refrgeration quality cooper tube must be used, soft cooper coils or half-hard straight lengths. The refrigeration quality tube must be soft drawn seamless high grade cooper pipe. The cooper tube must be selected taking into account the higher operating pressures of P410A refrigerant, and that high pressures will occur throughout the system because of the reverse cycle operation.

The supplied branch pipe kits, must be used to make connections to indoor units, and the supplied manifold kits must be used to make connections between outdoor units (where applicable); it is not permitted to use standard fittings such as elbows, tese site. The branch pipes shall be installed in accordance with the net installed in accordance with the net flow of refrigerant.

All brazed joints shall be made with dy nitrogen purge to ensure the prevention of oxidisation to the internal surface of the copper pipes. The ingress of mosture, dirt and any other contaminants to the interior of the copper pipes, and air conditioning units, must be prevented during the installation procedure.

After the installation of pipework, prior to the connection of the outdoor units, and sealing of insulation joints. The pipework must be pressure tested for leakage, using dry nitrogen. Additional Periogrant can be used, and must be charged by weight only, using electronic scales. The amount of additional refrigerant must be accurately calculated from the manufacturer's data, based on the length and diameter of each section of the liquid refrigerant pipework of the system.

The products contains fluorinated greenhouse gases covered by Kyoto protocol.

PIPING & ELECTRICAL

Refrigerant Piping (Heat Recovery)

0.44.00103		Main Pipe Size (Normal)		Pipe Size	for an Actual Length of 90m	ar Longer	mm	Inch
Outpoor Unit	Suction Gas Pipe	Discharge Gas Pipe	Liquid Pipe	Suction Gas Pipe	Discharge Gas Pipe	Liquid Pipe	¢9.52	3/8*
224	#19.05 x t.0	#15.88 x t1.0		#22.22×t1.0	ø15.88×t1.0		¢12.7	5/8*
280	#22.22×t1.0		#9.52×10.8			1	ø19.05	3/4*
335	\$25.4 (\$22.22)×t1.0	ø19.05 x t.0		#25.4 (#22.22)×t1.0	ø19.05×t1.0	¢12.7×10.8	\$22.22	7/8*
400	\$25.4 (\$28.58)×t1.0			#28.58×t1.0		1	¢25.4	1"
450		1	#12.7×10.8		1		mm	Inch
475	#28.58×t1.0	#22.22×t1.0		¢31.8×t1.1	\$22.22×t1.0		¢28.58	118.
500	1			(#26.58×11.0)		¢15.88×t1.0	¢31.8	118.
735		#28.58 (#25.4)x11.0					¢34.92	138.
800	1						¢38.1	112.
950	#31.8×t1.1		a15 00-41 0				\$44.5 #50.9	124
000	(#34.92×t1.2)		#15.66×11.0		#28.58×t1.0	ø19.05×t1.0	\$30.0	
900		#28.58×t1.0						
950								
1000				(#34.92×11.2)				
1200	1			,				
1350	#38 1×11 35							
1425	(#34.92×t1.2)	\$31.8×t1.1	#19.05×t1.0		\$31.8×11.1	¢22.22×t1.0		
1450	1	(#20.06×11.0)			(#20.05X11.0)			
1500	1							

Combination Outdoor Unit Piping Example



Single Outdoor Unit Piping Example



PIPING & ELECTRICAL

PIPING & ELECTRICAL

Single Outdoor Unit Piping Examples

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PIPING & ELECTRICAL

Refrigerant Piping (Heat Pump)

Main (Outdoor unit side branching pipe – Indoor unit side first branching pipe). If the longest distance (measured between the outdoor unit and the farthest indoor unit) is 90m or longer (actual length), please change the main pipe size according to the table below.

Outdoor	Main Pipe S	ize (Normal)	Pipe Size For An Actual I	length of 90m or Longer	mm Inch	Branch pipes	Header pipe
Unit	Gas Pipe	Liquid Pipe	Gas Pipe	Liquid Pipe	ø9.52 3/8"		
280	#22.22 × t 1.0	#9.52 × t 0.8	-05 4 (-00 00) - 14 0		ø12.7 1/2"		and the second se
335	#25.4 (#28.58) × t 1.0		\$25.4 (\$22.22) × 11.0	#127109	¢15.88 5/8"		11111
400	#25.4 (#22.22) × t 1.0		#28.58 × t 1.0	\$12.7 × 10.0	#19.05 3/4"		111111
450					022.22 1/8	DIS-22-1G/DIS-180-1G	HEAD6-180-1G
475		#127×108			920.4	1	Combination outdoor unit manifold
500	428.58 + 11.0	912.7 × 10.0	¢31.8 × t 1.1		mm Inch		Combination outdoor drift manifold
560	920.00 × 11.0		(#28.58 × t 1.0)	#15.88 × t 1.0	#29.59 118°		*
615					421.8 114		And in case of the local division of the loc
670					#24.92 138*	the second se	
735					#38.1 1 ¹²		
008	#31.8 × t 1.1				044.5 138	DIS-371-1G/DIS-540-3	D0S-2A-3
000	(#34.92 × 11.2)	ø15.88 × t 1.0		#19.05 × t 1.0	ø50.8 2°		DOS-3A-3
000						,	He does whether
1000							E30
1000					1		Good 🕂
1120							near _
1200			#38.1 × 11.25				- /\
1250			(#34.92 × 11.2)				No Good
1300						∕	¥
1350	#38.1 × t 1.35					7//////////////////////////////////////	floor
1425	(#34.92 × 11.2)	ø19.05 × t 1.0		#22.22 × 11.0		s 🔺 👝	
1450	1						- U. No ///////////////
1500							Ó
1560						7//////////////////////////////////////	Floor
1620							
1680							

ease use C1220T-1/2H for ø19.05 or larger pipes. Pipe sizes applicable to European installations are shown in parent



PIPING & ELECTRICAL

Electrical Wiring for Power Supply

KXZ new design includes greatly simplifie ing requirements utilising a 'polaritye control loop connecting the indoor units.

Power Wiring Cables can be laid through the front, right, left or bottom of the outdoor unit casing. Separate power supplies should be used for the outdoor unit (3phase) and the indoor units (1phase). Only control wiring is connected to rou outdoor to indoor unit



CAUTION

akage breaker is exclusively for ground fault protection, then you will need to install a circuit breaker for wiring work

Electrical component box

.

KXZ outdoor unit mechanical compartment

PIPING & ELECTRICAL

(1) When one outdoor unit is used A1 B1

Indoor signal line A B

(2) When plural outdoor units are used

Outdoor unit

Å

A B

Outdoor unit A1-B1 A2-B2

Electrical Wiring for Controls

The control wiring is 5 Volt DC, non-polarised, two wire connection notated as 'A1' and 'B1'. This 'AB' wiring connects outdoor unit to indoor unit and indoor unit to indoor unit.

This wiring must be a 2-core shielded cable size 0.75mm² or 1.25mm².

YES YES NO

 We recommend the both ends of the shield of the cable are connected to ground (earth) at all the indoor units and outdoor units. 4. When plural outdoor units are used:

Connect the signal cable between indoor and outdoor units and the signal cable between outdoor units belonging to the same refrigerant line to A1 and B1.

Connect the signal line between outdoor units on different refrigerant lines to A2 and B2.



(a) The maximum number of indoor units that can be connected in a system is 128 and it is possible to configure outdoor units and/or indoor units as an outdoor or indoor unit group connected with each other with two wires. 5. For current specification of 2-core (AB) wiring, please consult your MHI
 (b) The signal wires can also be connected using the method shown below.

A B



A1 B1

Outdoor unit

A Indo

AB Signal line

Indoor and outdoor signal lines do not have a polarity. Any of the connections in the following illustration can be made

A1 A B1 B

PIPING &

Outdoor utit Network connector

Refrigerant pipe

A B



For interconnecting wiring between the remote control and indoor units (XY wiring) use 2-core cable size 0.3mm². The maximum length of 2-core cable is 600 metres. Where the 2-core wiring exceeds 100m, use the wire size detailed on the table below.

Length (m)	Wire size
100 to 200	0.5mm² x 2 core
To 300	0.75mm ² x 2 core
To 400	1.25mm ² x 2 core
To 600	2.0mm ² x 2 core



FDT, FDTC, FDU, FDUM, FDUT & FDK Series Compatible With KXZEN/S1-W Outdoor (R32 Only)

. ...

INDOOR UNITS

FOTBXXCE14W 0 FDT Series: Four Way Ceiling Cassette KXZE1-W 16.0 ninal cooling + Lat Lat Lat Lat Lat Lat 0.04 0.04 0.07 0.08 0.07 0.08 0.04 0.04 0.04 0.04 0.04 0.07 0.08 0.07 0.08 0.05 55 55 60 62 65 56 56 9.04 0.04 . 50Hz 0.13 0.14 0.14 65 65 66 KW dB(A) 0.14 Cooling Heating Unit Panel dB(A) P-Hi:49 Hi:42 Me:39 Lo:32 IS B 8616) 236x840x840 35x950x950 T-PSAE-5BW-E (Fine Snow) / T-PSAE-5BB-E (Shad Unit: 21.5 Panel: 5 298x840x840 dow Black) Unit: 25 Pane Unit: 20 Panel: 5 UIIII. 27 Janier 5 UIII. 27 Janier 5 UIII. 27 Janier 5 UIIII. 27 Janier 5 UIII. 27 Janier 5 UIIII. 27 Janier 5 UIIII. 27 Janier 5 UIII. 27 Possible Pocket Plastic net x1 (Washable) wireless: RCN-T-5BW-E2 (Fine Snow EXZ3A, RC-E5, RCH-E3 588-E2 (Shadov e Gas mm ø6.35 ø6.35 ø6.35 ø6.35 ø9.52 ø12.7 ø12.7 ø12.7 ø9.52 ø9.52 ø9.52 ø9.52 ø15.88 ø15.88 ø15.88 ø15.88 ø9.52 ø15.88

FDTC Series: Compact Four Way Ceiling Cassette

Model			FDTC15KXZE1-W	FDTC22KXZE1-W	FDTC28KXZE1-W	FDTC36KXZE1-W	FDTC45KXZE1-W	FDTC56KXZE1-W						
Nominal cooling capa	icity	kW	1.5	2.2	2.8	3.6	4.5	5.6						
Nominal heating capa	acity	kW	1.7	2.5	3.2	4.0	5.0	6.3						
Power source					1 Phase 220	- 240V, 50Hz								
Power consumption		kW	0.03	0.03 0.03 0.03		0.04	0.04 0.05							
Sound power level Cooling		-0.0	47	47 49		54	58	60						
(JIS B 8616) Heating UB(4			46	46 49 49 53		57	60							
Sound pressure level	Cooling	dB(A)	P-Hi:33 Hi:30	P-Hi:35 Hi:32	P-Hi:35 Hi:32	P-Hi:39 Hi:36	P-Hi:43 Hi:39	P-Hi:47 Hi:43						
(JIS B 8616)	Heating	up(v)	Me:28 Lo:25	Me:29 Lo:25	Me:29 Lo:25	Me:31 Lo:26	Me:36 Lo:28	Me:39 Lo:31						
Exterior dimensions	Unit			248x570x570										
(HxWxD)	Panel]		10x620x620 TC-PSAE-5AW-E (Honeycomb) / TC-PSAGE-5AW-E (Grid)										
Net weight		kg	Unit: 12.5 Panel: 2.5	Unit: 13 I	Panel: 2.5		Unit: 14 Panel: 2.5							
Air flow	Cooling	1/4	P-Hi:133 Hi:117	P-Hi:150 Hi:133	P-Hi:150 Hi:133	P-Hi:167 Hi:150	P-Hi:200 Hi:167	P-Hi:233 Hi:200						
AIT HOW	Heating	1/8	Me:100 Lo:83	Me:117 Lo:100	Me:117 Lo:100	Me:133 Lo:100	Me:150 Lo:117	Me:167 Lo:133						
Outside air intake					Poss	sible								
Air filter					Pocket Plastic n	et x1 (Washable)								
Remote Control				wir	ed:RC-EXZ3A, RC-E5, RCH-	-E3 wireless:RCN-TC-5AW	/-E3							
Installation data	Liquid		ø6.35	¢6.35	ø6.35	ø6.35	ø6.35	¢6.35						
Refrigerant piping size	Gas]	ø9.52	ø9.52	ø9.52	ø12.7	ø12.7	ø12.7						
See page 64 for furthe	er product	informa	tion and testing conditions	. See page 94 for exterior	dimensions.									

FDU S	erie	es:	: High-	Static	Pressu	re Duc	ted		(m)	
Model			FDU45KXE6F-W	FDU56KXE6F-W	FDU71KXE6F-W	FDU90KXE6F-W	FDU112KXE6F-W	FDU140KXE6F-W	FDU160KXE6F-W	
Nominal cooling capa	acity	kW	4.5	5.6	7.1	9.0	11.2	14.0	16.0	
Nominal heating cap	acity	kW	5.0	6.3	8.0	10.0	12.5	16.0	18.0	
Power source					1	Phase 220 - 240V, 50	Hz			
Power consumption		kW	0.1	0.1	0.25	0.25	0.32	0.36	0.43	
Sound power level		5	8	6	33	6	18	72		
(JIS B 8616)			6	0	6	35	6	69	72	
Sound pressure level Cooling		-0(4)	P-Hi:34 Hi:29	Me:27 Lo:25	P-Hi:37 Hi:37	1 Me:27 Lo:22	P-H:40 H:36 Me:34 Lo:28	P-H:41 H:37 Me:34 Lo:28	P-Hi:45 Hi:38 Me:34 Lo:29	
(JIS B 8616)	Heating	UD(A)	P-Hi:35 Hi:30 Me:29 Lo:25		P-Hi:39 Hi:33 Me:28 Lo:23		P-Hi:41 Hi:36 Me:34 Lo:28 P-Hi:41 Hi:37 Me:34 Lo:28		P-Hi:45 Hi:38 Me:34 Lo:29	
Exterior dimensions (HxWxD)	mm	280x7	50x635	280x9	50x635		280x1368x740		
Net weight		kg	29		3	34		54		
Air flow	Cooling Heating	l/s	P-Hi:217 Hi:167 Me:150 Lo:133	P-Hi:217 Hi:167 Me:150 Lo:133	P-Hi:400 Hi:317 Me:250 Lo:167	P-Hi:400 Hi:317 Me:250 Lo:167	P-Hi:600 Hi:467 Me:417 Lo:317	P-Hi:650 Hi:533 Me:433 Lo:333	P-Hi:800 Hi:583 Me:467 Lo:367	
External Static Press	ure					Max: 200				
Outside air intake						Possible				
Air filter						Procure Locally				
Remote Control					wired:RC-EXZ3A	, RC-E5, RCH-E3 wire	less:RCN-KIT4-E2			
Installation data	Liquid		ø6.35	ø6.35	ø9.52	¢9.52	ø9.52	ø9.52	¢9.52	
Refrigerant piping size	Gas]	ø12.7	ø12.7	ø15.88	ø15.88	ø15.88	ø15.88	ø15.88	
See page 67 for furth	er product i	informat	ion and testing conditi	ons. See page 97 for e	terior dimensions					

INDOOR UNITS

FDT, FDTC, FDU, FDUM, FDUT & FDK Series Compatible With KXZEN/S1-W Outdoor (R32 Only)

FDUM Series: Low/Medium-Static Pressure Ducted

Model			FDUM22KXE6F-W	FDUM28KXE6F-W	FDUM36KXE6F-W	FDUM45KXE6F-W	FDUM56KXE6F-W	FDUM71KXE6F-W	FDUM90KXE6F-W	FDUM112KXE6F-W	FDUM140KXE6F-W	FDUM160KXE6F-W		
Nominal cooling cap	acity	kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0		
Nominal heating cap	acity	kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0	18.0		
Power source				1 Phase 220 - 240V, 50Hz										
Power consumption		kW	0.08	0.08	0.08	0.08	0.08	0.16	0.25	0.25	0.26	0.38		
Sound power level			5	7		58		63	63	68	68	72		
(JIS B 8616)		UD(A)	6	0		60		65	65	69	69	72		
Sound pressure	Cooling		P-Hi:33 Hi:27	Me:25 Lo:23	P-Hi:	34 Hi:29 Me:27	Lo:25	P-Hi:37 Hi:31	Me:27 Lo:22	P-Hi:40 Hi:36 Me:34 Lo:28	P-HE40 HE37 Me:34 Loc28	P-Hi:45 Hi:38		
level (JIS B 8616)	Heating	UD(A)	P-Hi:36 Hi:30	Me:29 Lo:25	P-Hi:35 Hi:30 Me:29 Lo:25			P-Hi:39 Hi:33 Me:28 Lo:23		P-Hiv1 H:36Me:34 Loc28	P-Hb41 HE37 Me:34 Lot 28	Me:34 Lo:29		
Exterior dimensions	(HxWxD)	mm			280x750x635			280x9	50x635		280x1368x740			
Net weight		kg			29			3	4		54			
Air flow	Cooling	I/e	P-Hi:217 Hi:167	P-Hi:217 Hi:167	P-Hi:217 Hi:167	P-Hi:217 Hi:167	P-Hi:217 Hi:167	P-Hi:400 Hi:317	P-Hi:400 Hi:317	P-Hi:600 Hi:467	P-Hi:650 Hi:533	P-Hi:800 Hi:583		
	Heating		Me:150 Lo:133	Me:150 Lo:133	Me:150 Lo:133	Me:150 Lo:133	Me:150 Lo:133	Me:250 Lo:167	Me:250 Lo:167	Me:417 Lo:317	Me:433 Lo:333	Me:467 Lo:367		
External Static Press	ure						Ma	ax: 100						
Outside air intake							Po	ossible						
Air filter						Filter k	it:UM-FL1EF/UN	A-FL2EF/UM-FL	3EF(option)					
Remote Control wired:RC-EXZ3A, RC-E						EXZ3A, RC-E5, F	5, RCH-E3 wireless:RCN-KIT4-E2							
Installation data	Liquid		ø6.35	ø6.35	ø6.35	ø6.35	¢6.35	ø9.52	ø9.52	ø9.52	ø9.52	ø9.52		
Refrigerant piping size	Gas		ø9.52	ø9.52	ø12.7	ø12.7	ø15.88	ø15.88	ø15.88	ø15.88				

FDUT Series: Low Profile, Medium-Static Pressure Ducted

Model			FDUT15KXE6F-W	FDUT22KXE6F-W	FDUT28KXE6F-W	FDUT36KXE6F-W	FDUT45KXE6F-W	FDUT56KXE6F-W	FDUT71KXE6F-W			
Nominal cooling capacity		kW	1.5	2.2	2.8	3.6	4.5	5.6	7.1			
Nominal heating capacity	1	kW	1.7	2.5	3.2	4.0	5.0	6.0	8.0			
Power source					1	Phase 220 - 240V, 50H	łz					
Power consumption kW			0.058	0.067	0.066	0.07	0.078	0.08	0.08			
Sound power level			52	52	52	54	54	55	56			
(JIS B 8616) dB(A			51	52	52	55	54	55	57			
Sound pressure level Co (JIS B 8616) He	ooling sating	dB(A)		Hi:32 Me:29 Lo:25		Hi:37 Me:34 Lo:28	Hi:36 Me:33 Lo:27	Hi:38 Me:33 Lo:29	Hi:41 Me:37 Lo:32			
Exterior dimensions (HxW	/xD)	mm		200x75	50x500	200x9	50x500	220x1150x565				
Net weight		kg	22 21		21	22	2	25				
Air flow Co	ooling sating	l∕s	Hi:100 Me:83 Lo:67	Hi:125 Me:100 Lo:83	Hi:125 Me:100 Lo:83	Hi:142 Me:117 Lo:92	Hi:192 Me:150 Lo:117	Hi:208 Me:150 Lo:120	Hi:267 Me:217 Lo:158			
External Static Pressure				Max	: 35	Max: 50						
Outside air intake			Possible from return duct									
Air filter					Filter set: UT	-FL1EF/UT-FL2EF/UT-F	L3EF(option)					
Remote Control					wired:RC-EXZ3A	, RC-E5, RCH-E3 wirel	BSS:RCN-KIT4-E2					
Installation data Lic	Installation data Liquid		ø6.35	ø6.35	ø6.35	ø6.35	¢6.35	ø6.35	ø9.52			
Refrigerant piping size Gas			ø9.52	ø9.52	ø9.52	ø12.7	ø12.7	ø12.7	ø15.88			
See page 70 for further pr	ee page 70 for further product information and testing conditions. See page 100 for exterior dimensions.											

FDK Series: Wall Mounted

Model			FDK15KXZE1-W	FDK22KXZE1-W	FDK28KXZE1-W	FDK36KXZE1-W	FDK45KXZE1-W	FDK56KXZE1-W	FDK71KXZE1-W	FDK90KXZE1-W
Nominal cooling capac	ity	kW	1.5	2.2	2.8	3.6	4.5	5.6	7.1	9.0
Nominal heating capac	ity	kW	1.7	2.5	3.2	4.0	5.0	6.3	8.0	10.0
Power source						1 Phase 220 - 24	10V, 50Hz			
Power consumption		kW	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.05
Sound power level		-ID(A)	54	55	55	58	58	58	59	61
(JIS B 8616) dB(A)		UD(A)	54	55	55	58	58	61	59	61
Sound pressure level	Cooling	-ID/A)	P-Hi:38 Hi:34	P-Hi:38 Hi:36	P-Hi:38 Hi:36	P-Hi:40 Hi:38	P-Hi:43 Hi:41	D 16-40 16-41 Mar 00 Lar 00	P-Hi:42 Hi:40	P-Hi:44 Hi:42
(JIS B 8616)	Heating	00(4)	Me:31 Lo:28	Me:32 Lo:27	Me:32 Lo:28	Me:33 Lo:28	Me:36 Lo:33	P-01.43 01.41 ME.30 L0.33	Me:37 Lo:35	Me:39 Lo:35
Exterior dimensions (H	(WxD)	mm		339x11	97x262					
Net weight		kg	11.5	1	1	11.5			1	7
Air Brown	Cooling	1/2	P-Hi:95 Hi:83	P-Hi:142 Hi:133	P-Hi:142 Hi:133	P-Hi:183 Hi:167	P-Hi:200 Hi:183	P-Hi:200 Hi:183 Me:150 Lo:133	P-Hi:350 Hi:317	P-Hi:383 Hi:350
All HOW	Heating	US .	Me:75 Lo:60	Me:100 Lo:83	Me:100 Lo:83	Me:133 Lo:117	Me:150 Lo:133	P-Hi:217 Hi:200 Me:167 Lo:133	Me:267 Lo:233	Me:317 Lo:267
Outside air intake							Not Possible			
Air filter						Polypropyl	ene net x2 (Washa	ble)		
Remote Control					wired:RC-	EXZ3A, RC-E5, RC	H-E3 wireless:RC	N-K-E2, RCN-K71-E2		
Installation data	nstallation data Liquid 06.35 06.35 06.35 06.35 06.35 06.35							ø9.52	ø9.52	
Refrigerant piping size	Gas	1	ø9.52	ø9.52	¢9.52	ø12.7	ø12.7	ø12.7	ø15.88	ø15.88
ee page 72 for further product information and testing conditions. See page 102 for exterior dimensions.										

FDTQ Series One Way Compact Ceiling Cassette

INDOOR UNITS

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RCH-E3

Wi-Fi

MH-RC-WIFI-1B

One Way Compact Ceiling Cassette FDTQ Series Remote Control (option)

Model No. FDTQ22KXE6F FDTQ28KXE6F filt Nietze. RC-EXZ3A FDTQ36KXE6F RC-E5 Wireless RCN-KIT4-E2



Comfortable effective cooling for small rooms, with low fan speed air flow at just 5.4m³/min.





Condensate drain pump

r 1655

п



(AS / NZS 3823.2). Cooling: Indoor temp. of 27°CDB, 19°CWB, and or oic chamber. During operation these values are somewhat history due door temp. of 35°CDI



(Option)

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User can position Draft Prevention Panel panels by using the remote controller only (RC-EXZ3A, RCN-T-5BW-E2).

INDOOR UNITS



LB-T-5W-E LB-T-5BB-E



FDT Series Four Way Ceiling Cassette

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RCH-E3

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RC-E5



Improved Aerodynamic Performance New designed component can have better aerodynamic perfromance and achieve lower noise.



FDT Series

INDOOR UNITS

Individual Louvre Control

According to room conditions, four directions of air flow can be controlled individually by utilizing the louvre control system. Individual flap control is available even after installation.

Set the louvres to swing between the maximum upper and lower louvre positions via the wired remote control.

wireless remote control is not icable to the Individual louvre

850mm Drain Pump

Drain can be discharged upwards by 850mm from the ceiling surface. It allows a piping layout with a high degree of freedom. Depending on the installation location and 195mm flexible hose as a standard equipment supports easy workability.

Easy Maintenance

Easily check the drain pan by simply removing the corner panel.





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Up to 850 mm

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See page 93 for exterior dimensions

ver and check the condition. n-up, firstly remove the rubber stopper to dr drain cap.

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For both per feeling h

Specifications

ltern	N	lodel	FDT28KXZE1	FDT36KXZE1	FDT45KXZE1	FDT56KXZE1	FDT71KXZE1	FDT90KXZE1	FDT112KXZE1	FDT140KXZE1	FDT160KXZE1		
Nominal cooling of	apacity	kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0		
Nominal heating o	capacity	kW	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0	18.0		
Power source						11	hase 220-240V, 50)Hz					
Power	Cooling	LAN .	0.02	0.	03	0.04	0.08	0.13		0.14			
consumption	Heating	×11	0.02	0.	03	0.04	0.08	0.13	0.14				
Sound power lev	vel	dB(A)	4	9	50	55	62	65		66			
Sound pressure	level 🍳	dB(A)	Hi:33 Me	:30 Lo:28	Hi:33 Me	:31 Lo:29	Hi:35 Me:32 Lo:28	Hi:38 Me:36 Lo:31	Hi:39 Me:37 Lo:31	Hi:42 Me:39 Lo:33			
Exterior dimen H x W x D	isions	m		Unit:236	:840x840 Panel:35	x950x950			Init:298x840x840 Panel:35x950x950				
Net weight		kg	Un	it:20 Standard Pane	al:5	Unit:21.5 Sta	ndard Panel:5		Unit:25 Star	12.5 16.0 0.14 0.14 0.14 66 0.14 66 0.14 66 0.14 66 0.14 66 0.14 66 0.14 66 0.14 66 0.14 66 0.14 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15			
Airflow Range		LIs	166	- 250	166 - 283	183 - 333	200 - 466	250 - 616	283 - 433	300 - 633	316 - 633		
Outside air intr	ake						Possible						
Panel					1	-PSAE-5BW-E (Fine	snow) / T-PSAE-5	BB-E (Shadow Black	<)				
Air filter, Q'ty						Pocke	t Plastic net x1 (Wa	shable)					
Remote control(o	(notiq			wir	ed:RC-EXZ3A, RC-E	5, RCH-E3 wireless	RCN-T-5BW-E2 (Fi	ne Snow) / RCN-T-	5BB-E2 (Shadow BI	ack)			
Installation dat Refrigerant pipi	ta ng size	nn(r)	Liquid line:#6.35(1/4") Gas line:#9.52(3/8")		Liquid line:ø6.35(1/ Gas line:ø12.7(1/	4") 2")			Liquid line:ø9.52(3/ Gas line:ø15.88(5/	37) 37)			

The data is used in data is a structure (STR 2012). Condition of JPCIC [1970], et a status runs, of JPCIC [1970], rest and runs runs, of JPCIC [1970], rest and runs, runs

INDOOR UNITS

(Sound pressure level in the

FDTC Series Compact Four Way Ceiling Cassette



3dB Down 30 25 25 22 FDTC15 FDTC22/28 FDTC36/45/56 IND OOR UNITS

FDTC Series Compact Four Way Ceiling Cassette

d oosition

Seld

INDOOR UNITS

Individual Louvre Control Set the louvre control between the maximum upper and lower louvre positions or individually set the fixed position of each louvre via the wired remote control. Max swing range

*The wireless remote control is not appl the Individual flap control system.



850mm Drain Pump

Drain can be discharged upwards by 850mm from the ceiling surface. It allows a piping layout with a high degree of freedom. Depending on the installation location and 185mm flexible hose as a standard equipment supports easy workability.



Easy Maintenance

Easily check the drain pan by simply removing the corner panel.





See page 94 for exterior dimensions

Remove drain cap cover and check the condition. It is necessary to clean-up, firstly remove the rubber stopper to drain water out and secondly remove the stopper to dra drain cap.

Specifications

ltern	N	lodel	FDTC15KXZE1	FDTC22KXZE1	FDTC28KXZE1	FDTC36KXZE1	FDTC45KXZE1	FDTC56KXZE1	
Nominal cooling o	apacity	kШ	1.5	2.2	2.8	3.6	4.5	5.6	
Nominal heating (capacity	kW	1.7	2.5	3.2	4.0	5.0	6.3	
Power source					1 Phase 220)-240V, 50Hz			
Power	Cooling			0.03		0.04	0.05	0.06	
consumption	Heating	- KN		0.03		0.04	0.05	0.06	
Sound power	level	dB(A)	47	4	9	54	58	60	
Sound pressure	Cooling	10/4	P-Hi:33 Hi:30 Me:28 Lo:25	P-Hi:35 Hi:32	Me:29 Lo:25	P-Hi:39 Hi:36 Me:31 Lo:26	P-Hi:43 Hi:39 Me:36 Lo:28	P-Hi:47 Hi:43 Me:39 Lo:31	
level	Heating	UD(H)	P-Hi:33 Hi:30 Me:26 Lo:22	P-Hi:35 Hi:32	Me:29 Lo:25	P-Hi:39 Hi:36 Me:31 Lo:26	P-Hi:43 Hi:39 Me:36 Lo:28	P-Hi:47 Hi:43 Me:39 Lo:31	
Exterior dimer H x W x D	isions	m		Unit:248x570x570 Panel:10x620x620					
Net weight		kg	Unit:12.5 Standard Panel:2.5	Unit:13 Stand	ard Panel:2.5		Unit:14 Standard Panel:2.5		
Airflow range	Cooling	1.	83 - 133	100 -	- 150	100 - 166	116 - 200	133 - 233	
Peritow range	Heating	- 15	83 - 133	100 -	P1012820021 P101283021 P101283021 2.8 3.6 4.5 3.2 4.0 5.0 1 Phose 20-2407, 501z 0.04 0.05 40 0.04 0.05 5.2 M4.20 A025, 501z 0.05 5.2 P44.394364.06-31 Lo26 P44.3044.20 Me31 Lo26 5.2 P44.394364.06-31 Lo26 P44.3044.20 Me31 Lo26 5.2 M42.394536.06-31 Lo26 P44.3044.20 Me31 Lo26 1.2 M42.394536.06-31 Lo26 P44.3044.20 Me31 Lo26 1.2 M42.394536.06-31 Lo26 P44.3044.20 Me31 Lo26 1.2 M42.394536.06-31 Lo26 P44.3944.20 Me31 Lo26 1.2 M42.394537 P44.3944.20 Me31 Lo26 1.2 M42.394537 P44.3944.20 Me31 Lo26 1.2 M42.394537 M41.3944.20 Me31 1.2 M42.394537 M41.3944.20 Me31 1.3 M42.394537 M41.3944.20 Me31 1.4 M41.394747 M41.3944.20 Me31 1.5 M41.3944.20 Me31 M41.3944.20 Me31 1.6 M41.394747	116 - 200	133 - 233		
Outside air int	ake				Pos	sible			
Panel					TC-PSAE-5AW-E (Honeycorr	b) / TC-PSAGE-5AW-E (Grid)			
Air filter, Q'ty					Pocket Plastic n	et x1 (Washable)			
Remote control)	(noitqc			1	vired:RC-EXZ3A, RC-E5, RCH	-E3 wireless:RCN-TC-5AW-E	3		
Installation da	ta			Liquid line:#6.35(1/4")			Liquid line:#6.35(1/4")		
Refrigerant pipi	ng size	nnin		Gas line:#9.52(3/8")			Gas line:ø12.7(1/2")		
1 The data is me	an und un	day the	following conditions (IAS / N7S 3933 3	Cooling Indograms of 27/CDR 10	P/02/20 to construction ber RM2	Leating Index terms of 2010DB and	autorations from at 2000 BIOMP		

INDOOR UNITS

Two Way Ceiling Cassette FDTW Series Model No. FDTW28KXE6F FDTW45KXE6F FDTW56KXE6F FDTW71KXE6F FDTW90KXE6F FDTW112KXE6F FDTW112KXE6F FDTW140KXE6F FDTW28-71 FDTW90-140 Individual Louvre Control Installation Workability With the ability to individually control each louvre's position and with an improved outlet design, you can deliver powerful airflow in four different directions, allowing for even air distribution. Drainage spout Drainage flow test can be done easily by use of this drainage spout.





The louvre can swing within the range of upper and lower louvre position selected with wired remote control.

Max swing range Selecte



Model FDTW28XXE6F Neniral cooling capacity W 2.8 Keniral heating capacity W 3.2 Power source M 3.2 Specifications See page 95 for exterior of WYE6E EDTW14 8.0 220-240V, 5 5.0 10.0 12.5 hase 2 Power Cooling KW - Cooling Consumption Heating KW - Sound power level & dB(A) Sound pressure level * dB(A) 0.09 0.14 30 Hi:38 Me:34 Lo:31 Hi:45 Me:41 Lo:37 Exterior din H x W x D mm Unit:325x820x620 Panel:20x112 Unit:325x1535x620 Panel:20x1835x680 Net weight kg Unit:20 Panel:8.5 Arflow range lis Outside air intake Panel Unit:23 Panel:8.5 Unit:21 Panel:8.5 150 - 242 Unit:35 Panel:13 334 - 517 TW-PSA-26W-E Pocket Plastic net x2 (Washable TW-PSA-46W-E Pocket Plastic net x3 (Washable) Air filter, Q'ty Remote control(option) Installation data Refrigerant piping size mn(n) Gas line:xe6.35(1/4") Gas line:xe9.52(3/8") Wi Liquid line:¢6.35(1/4") Gas line:¢12.7(1/2") :2 Liquid line:ø9.52(3/8'') Gas line:ø15.88(5/8")

1. The data is measure 2. Sound pressure level 3. Motor input kW and 4. The operation data in



FDTW Series Two Way Ceiling Cassette



750mm Drain Pump

Drain can be discharged upwar 750mm from the ceiling surface close to the indoor unit. a high 1 on



IND OOR UNITS

the i	ndividual	It allows a piping lay degree of freedom the installation locat	yout with a depending ion.
	FDTW56KXE6F	FDTW71KXE6F	FDTW90

N2S 3823 2), Cooling: Indoor temp. of 27°CDB, nambar: During operation these values are some selection Data erated at 240V 50Hz for 1 phase. 228/45/55/71 42dB(A), FDTW90/112/140 484B(A)

FDTS Series One Way Ceiling Cassette

INDOOR UNITS

Remote Control (option)

111 -

RC-EXZ3A RC-E5

-

One Way Ceiling Cassette FDTS Series

Model No. FDTS45KXE6F FDTS71KXE6F



Individual Louvre Control

With the ability to individually control each louvre's pu you can deliver airflow in two different directions, allo even air distribution.



Wireless remote control and RCH-E3 is not applicable to the indivi-louvre control system and the louvre control system.

Specifications

~	RCH-E3
	Compact Design
osition, wing for	Indoor unit size (W11,150 x D:565) brings easy installation for 1,200 x 600 ceiling and Panel size (1,250 x 650) is suitable for 1,200 x 600 ceiling, Height is the industry's lowest height level 220mm and weight is 27/28kg only.
	600mm Drain Pump

p Drain can be discharged upward by 600mm from the ceiling surface close to the indoor unit. It allows a piping layout with a high degree of freedom depending on the installation location.



RCN-TS-E2

Wireless Remote Control For wireless remote control simply attach an additional panel with infrared receiver on the right side of the main decorative panel.



See page 96 for exterior dimensions

MH-RC-WIFI-1B

ltem N	fodel	FDTS45KXE6F	FDTS71KXE6F				
Nominal cooling capacity	kW	4.5	7.1				
Nominal heating capacity	kW	5.0	8.0				
Power source		1 Phase 220	-240V, 50Hz				
Power Cooling	1.000	0.04	0.09				
consumption Heating	NW.	0.04	0.09				
Sound power level	dB(A)	60	61				
Sound pressure level ++	dB(A)	Hi:40 Me:38 Lo:35	Hi:46 Me:41 Lo:36				
Exterior dimensions H x W x D	mm	11440 Weidd Coudd Unit:220x1150x565 Panel:35x1250x650					
Net weight	kg	Unit:27 Panel:5	Unit:28 Panel:5				
Airflow range	l/s	159 - 217	159 - 283				
Outside air intake		Pos	sible				
Panel		TS-PSA	-3AW-E				
Air filter, Q'ty		Pocket Plastic n	et x2 (Washable)				
Remote control(option)		wired:RC-EXZ3A, RC-E5, R	CH-E3 wireless:RCN-TS-E2				
Installation data Refrigerant piping size	mm(in)	Liquid line:s6.35(1/4") Gas line:s12.7(1/2")	Liquid line:ø9.52(3/8") Gas line:ø15.88(5/8")				
1. The data is measured un	der the f	olowing conditions (AS / NZS 3823.2). Cooling: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 38°CDB. I	Heating: Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.				

Bit data is illustrative livel indicates the value in an anochoic chamber. During operation these v. 3. Motor input W and Current please refer to Ecolution VFF Salection Data 4. The operation data indicate when the air-conditioner is operated at 240V 60Hz for 1 phase. 9 PownH-H F can be selected. Sound pressure level: FDIS14 626BJ, FDIS11 446BJU.

INDOOR UNITS

FDU Series High Static Pressure Ducted



						See page 9	7 for exterior dimensio	
lodel	FDU45KXE6F	FDU56KXE6F	FDU71KXE6F	FDU90KXE6F	FDU112KXE6F	FDU140KXE6F	FDU160KXE6F	
kW	4.5	5.6	7.1	9.0	11.2	14.0	16.0	
kW	5.0	6.3	8.0	10.0	12.5	16.0	18.0	
				1 Phase 220-240V, 50H	z			
	0.	10	0.	25	0.32	0.36	0.43	
KW I	0.	10	0.	25	0.32	0.36	0.43	
Sound power level dB(A) 60			65					
dB(A)	Hi:32 Me	:29 Lo:26	Hi:33 Me	:29 Lo:25	Hi:38 Me:36 Lo:30	Hi:38 Me:36 Lo:30 Hi:40 Me:34 Lo:29		
mm	280x7	60x635	280x950x635			280x1370x740		
kg	2	9	3	14		54		
l/s	134	217	167 - 400 317 - 600			334 - 650	367 - 800	
Pa				200				
				Possible				
				Procure locally				
			wired:RC-EXZ3	A, RC-E5, RCH-E3 wirele	ss:RCN-KIT4-E2			
mm(n)	Liquid lines Gas lines	96.35(1/4") 912.7(1/2")			Liquid line:ø9.52(3/8") Gas line:ø15.88(5/8")			
	odel kW kW dB(A) dB(A) mm kg l/s Pa mm(n)	ddi F0U4SIX265F iii 4.5 iii 6.0 iii 0.0 ii	Display FOUESVEES FOUESVEESVEES FOUESVEESVEES FOUESVEESVEESVEESVEESVEESVEESVEESVEESVEESV	Diametric FDU/EXCEF <	Dot FDU20XCEF FDU20XCEF FDU20XCEF m 4.5 5.6 7.1 0.00 m 5.6 7.1 0.00 0.0 m 0.0 0.25 0.0 0.0 m 0.0 0.25 0.0 0.0 m 0.0 0.25 H13Me21L25 H13Me21L25 m 220/750x33 280x650x35 280x650x35 m 220/750x33 280x650x35 200x650x35 m 134 - 217 167 - 400 Possable Protecter Address	Dot FDUESNCESF FDUESNCESNCESS FDUESNCES	Dot FOULSKXEGF FOULSKXEGF	

The data are measured under the behaviory (Left (MS 2002)), Coorge more area used or execution of the set of

IND OOR UNITS

FDU Series High Static Pressure Ducted

INDOOR UNITS

RC-E5 BCH-E3

RCN-KIT4-E2

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Wi-Fi

r the EDLL earlies

MH-RC-WIFI-1B

High Static Pressure Ducted FDU Series

Model No. FDU224KXZE1 FDU280KXZE1



External Static Pressure (E.S.P) Control By manually setting the external static pressure during installation, the indoor unit will control the fran-speed to ensure rated air flow volume at each fan speed setting, Using the set air flow rate and pressure loss of the ducts connected you can set the required E.S.P. using the wired remote control. Ester RC-E E.S.P. button sure (E.S.P.) can be External Static Pres set by E.S.P. button. Duct Longer Duc ₽ Outlet 1 lo.9 No.10 No.11 N 12 No.13 90Pa 100Pa 110Pa 120Pa 130Pa 140Pa 150Pa

Pa is set at ex-factory default. Pa is available by setting SW8-4 switch on at site

Specifications

(Sound pressure level 45dB(A) in Lo	mode)
Improved Serviceability	
The fan unit (comprised of impeler and motor) is easily accessible from either the side or bottom of the unit and can be pulled out for easy maintenance. (Common for FDUM22–160KXE6F & FDU45–160KXE6F)	Pipe Fan unit
Optional Drain Pump	
Durale Durane D IO 454 400 4 (au allabla	

Quiet Operation: 45dB(A)

art) provides of indoor unit Drain Pump F 600mm upwa



Speci	ILC	allons	See page 98 for exterior dimension					
ltern M	Model	FDU224KXZE1	FDU280KXZE1					
Nominal cooling capacity	kШ	22.4	28.0					
Nominal heating capacity	kW	25.0	31.5					
Power source		1 Phase 220	1 Phase 220-240V, 50Hz					
Power Cooling		1.20	1.20					
consumption Heating	×W	1.20	1.20					
Sound power level	dB(A)	—						
Sound pressure level	el dBA Hi:50 / Me:47 / Lo:45							
Exterior dimensions H x W x D	m	n 379x1600x893						
Net weight	kg	8	9					
Airflow range	l√s	933 -	1333					
Maximum external static pressure	Pa	2	00					
Outside air intake		Possible(on	return duct)					
Air filter		Procure	e locally					
Remote control(option)		wired:RC-EXZ3A, RC-E5, RC	H-E3 wireless:RCN-KIT4-E2					
Installation data Refrigerant piping size	nn(r)	Liquid line:#9.52(3/8") Gas line:#19.05(3/4")	Liquid line:#9.52(3/8") Gas line:#22.22(7/8")					
1. The data are measured u 2. Sound pressure level indi	nder the	following conditions (AS / AZS 3823.2). Cooling: Indoor temp: of 27°CDB, 19°CWB, and outdoor temp: of 39°CDB. He e value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.	ating: Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB. External static pressure of indoor unit is 72Pa.					

Mator input kW and Current please refer to Esolution VFF Selection Data 4. The operation data indicate when the air-conditioner is operated at 24/07 60Hz for 1 phase. IP PowerM-H can be selected. Sound pressure level FDU224/280 52dB)A).

INDOOR UNITS

Low/Medium Static Pressure Ducted **FDUM Series**

Model No. FDUM22KXE6F FDUM28KXE6F FDUM36KXE6F FDUM71KXE6F FDUM90KXE6F FDUM112KXE6F FDUM45KXF6F FDUM140KXE6F FDUM56KXE6F FDUM160KXE6F









MH-RC-WIFI-1B RCN-KIT4-E2 Slim Profile The height of all FDUM models is only 280mm 70mm less H 350 H 280



FDUM Series

Low/Medium Static Pressure Ducted

Remote Control (option)

Name of Column 100

Wi-Fi

Wired

-

RC-EXZ3A RC-E5 BCH-E

Wireless

Improved Serviceability The fan unit (comprised of impeller and motor) is easily accessible from either the side or bottom of the unit and can be outled out for easy maintenance.

Transparent Inspection Window Transparent window allows for the drain pan to be checked for dirt without removing it from the unit.

Specifications

ltern	Model	FDUM22KXE6F	FDUM28KXE6F	FDUM36KXE6F	FDUM45KXE6F	FDUM56KXE6F	FDUM71KXE6F	FDUM90KXE6F	FDUM112KXE6F	FDUM140KXE6F	FDUM160KXE6F
Nominal cooling capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0
Nominal heating capacity	kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0	18.0
Power source						1 Phase 220	I-240V, 50Hz				
Power Coolin	9			0.10			0.20		0.29	0.33	0.45
consumption Heating	g			0.10			0.	20	0.29	0.33	0.45
Sound power level	dB(A)			60			6	35	_		
Sound pressure level	o dB(A)		Hi:32 Me:29 Lo:26					Hi:33 Me:29 Lo:25		Hi:40 Me:34 Lo:29	Hi:40 Me:35 Lo:30
Exterior dimensions H x W x D	mm		280 x 750 x 635				280 x 950 x 635		280 x 1370 x 740		
Net weight	kg			29			34 54				
Airflow range	l/s			134 - 217			167	- 400	317 - 600	334 - 650	367 - 800
Maximum external static pressure	Pa					1	00				
Outside air intake						Pos	sible				
Air filter					Filter k	it:UM-FL1EF/UM-	FL2EF/UM-FL3EF	(option)			
Remote control(option)					wired:RC-I	EXZ3A, RC-E5, RC	H-E3 wireless:R0	CN-KIT4-E2			
Installation data Refrigerant piping size	mm(in)	Liquid line: Gas line:	ø6.35(1/4") ø9.52(3/8")	Lic	uid line:#6.35(1/4 Gas line:#12.7(1/2	\$") 2")	Liquid line:ø9.52(3/8") Gas line:ø15.88(5/8")				

See.

Motor iput KW and Damme plasme refer to Sociation VPF Selection Data"
 The operation due tandataris when the all-concidence is operated at 2407 VOR-to r1 phase.
 Powerful-H can be selected. FDUM2228/36/45/85 37:48[A], FDUM71:09.38:48[A], FDUM112.44:48[A], FDUM140.45:48[A], FDUM106.47:48[A]

IND OOR UNITS

FDUT Series Low Profile, Low Static Pressure Ducted

Aco -

INDOOR UNITS

-Sear.

Slim Profile, Low Static Pressure Ducted **FDUT Series** Remote Control (option) 515





Speci	fic	ations					See page 10	0 for exterior dimensions
ltern	Model	FDUT15KXE6F-E	FDUT22KXE6F-E	FDUT28KXE6F-E	FDUT36KXE6F-E	FDUT45KXE6F-E	FDUT56KXE6F-E	FDUT71KXE6F-E
Nominal cooling capacity	kW	1.5	2.2	2.8	3.6	4.5	5.6	7.1
Nominal heating capacity	kW	1.7	2.5	3.2	4.0	5.0 6.0		8.0
Power source					1 Phase 220-240V, 50H;	2		
Power Coolin		0.06		0.07		0.	0.08	
consumption Heating	- ^{KW}	0.06		0.07		0.08		0.07
Sound power level	dB(A)		52		57	58	5	i9
Sound pressure level ①	dB(A)	Hi:28 Me:26 Lo:22	Hi:28 Me	:26 Lo:22	Hi:33 Me:30 Lo:26	Hi:34 Me:32 Lo:28	Hi:35 Me:33 Lo:30	Hi:35 Me:31 Lo:28
Sound pressure level @	dB(A)	Hi:32 Me:29 Lo:25	Hi:32 Me	:29 Lo:26	Hi:37 Me:34 Lo:28	Hi:36 Me:33 Lo:27	Hi:38 Me:33 Lo:29	Hi:41 Me:37 Lo:32
Exterior dimensions H x W x D	mm		200x7	50x500		200x9	220x1150x565	
Net weight	kg		21		22	2	25	31
Airflow range	1/s	67 - 100	84 -	117	92 - 142	117 - 192	120 - 209	159 - 267
External Static pressure	Pa		Standard:1	0, Max:35			Standard:10, Max:50	
Outside air intake					Possible from return duo	t		
Air filter				Filter set:U1	-FL1EF/UT-FL2EF/UT-FL	.3EF(option)		
Remote control(option)				wired:RC-EXZ3/	, RC-E5, RCH-E3 wirele	ss:RCN-KIT4-E2		
Installation data Refrigerant piping size	nn(r)		Liquid line:ø6.35(1/4") Gas line:ø9.52(3/8")			Liquid line:ø6.35(1/4" Gas line:ø12.7(1/2")	Liquid line:ø9.52(3/8*) Gas line:ø15.88(5/8*)
1. The data is measured u 2. The data of nominal con	ider the f	ollowing conditions (AS / NZS 38 heating capacity and sound press	23.2). Cooling: Indoor temp. of 27 ure level are measured with 10Pa	CDB, 19°CWB, and outdoor tem of external static pressure.	p. of 35°CDB. Heating: Indoor ter	mp. of 20°CDB, and outdoor temp	of 7°CDB, 6°CWB. External stati	c pressure of indoor unit is 10Pa

The data of nominal acceleration of the second secon

Duct Connected (Compact & Flexible) Remote Control (option) **FDUH Series** Wirod 110 -Model No. FDUH22KXE6F FDUH28KXE6F FDUH36KXE6F RCH-E RC-EXZ3A BC-E5 Wi-Fi Drain up kit (option) UH-DU-E MH-RC-WIFI-1B RCN-KIT4-E2 Filter kit (option) UH-FL1E Compact, Lightweight Design Quiet Operation The lowest sound level in the industry can ensure comfortable stay and rest in hotels. Our leading high technology has realized the best solution for air conditioning in hotels with compact and thin size units and high energy efficiency. In addition, weight is only 20kg. 570mm 257 mm Installation Flexibility Control box and drain piping can be installed on both side of the unit and air intake to the unit is available from bottom or back side. Our highest technology can satisfy diverse installation requirements. Wired remote control Simple remote control Control box Considering specialized usage in hotel rooms, control buttons are limited only to minimum required functions such as ON/OFF, mode, temperature setting and fan speed. It is really simple and easy to use. 50 . 8 111.0 RCH-E3 (option) Drain piping See page 101 for exterior d Specifications DUH26KYE6E 3.2 Power source Power Cooling Cooling W Consumption Haiting W Sound power level dB(A) Sound pressure level dB(A) Folder American Hillich mm 1 Phase 3 P-Hi:39 Hi: 33 Me: 30 Lo: 27 Exterior dimensions Hollkol mm Net weight kg Air flow nolhin External static pressure Pa 257x570x530 22 P-Hi:8.5 Hi: 7 Me: 6.5 Lo: 6 30 Outside air intake Air filter Possible from return duct Filter kit:UH-FL1E(option) d:RC-EX23A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2

wired:RC-E) Liquid line:ø6.35(1/4") Gas line:ø9.52(3/8") Installation data mm(n) Refrigerant piping size ues mm.dH32c(u/d*)

1. The data is measured ander the bioloxing conditions (US, I/L23 3822 2), Cooling Hodor targe, of 27/C08, 1970KB, and autoor targe, of 39/C08

2. Sound pressure level includes the value in an anochoic chamber. Duing operation these values are somewhat hyber due to ambient conditions.
3. Moor rays (W and Cumer plases where the Sciences or assettat of 2014) Visite in target.
4. The operation due dues where the according rest constant of 2014/Visite in target.
4. The operation due dues where the according rest constant of 2014/Visite in target.

INDOOR UNITS

Liquid line:ø6.35(1/4" Gas line:ø12.7(1/2")

IND OOR UNITS

FDUH Series

FDK Series Wall Mounted

INDOOR UNITS

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Remote Control (option)

Wired

110

Wall Mounted **FDK Series**

Model No. FDK15KXZE1 FDK22KXZE1 FDK28KXZE1 FDK15-56 FDK28KXZE1 FDK36KXZE1 FDK45KXZE1 FDK56KXZE1 FDK71KXZE1 FDK90KXZE1

Elegant and Timeless Design Developed by award winning Italian designers TENSA, the FDK series (15-56K/2E1) features a sleek and stylish design that allows it to effortlessly integrate into any residential or commercial interior.

1				-
	_	_		

Louvre Control Set the louvres to swing between the maximum upper and lower louvre positions or set the louvres at a fixed position. *The wireless remote co the flap control system

Upper position Movable range Lower





			auons						See page 102 fi	or exterior dimensio
tem	N	lodel	FDK15KXZE1	FDK22KXZE1	FDK28KXZE1	FDK36KXZE1	FDK45KXZE1	FDK56KXZE1	FDK71KXZE1	FDK90KXZE1
Nominal cooling c	apacity	kill	1.5	2.2	2.8	3.6	4.5	5.6	7.1	9.0
Nominal heating capacity		kill	1.7	2.5 3.2		4.0	5.0	6.3	8.0	10.0
Power source						1 Phase 220	-240V, 50Hz			
Power	wer Cooling Law 0.02				0.03		0.04	0.05		
consumption	Heating	KIII		0.02			0.03	0.04	0.05	
Sound power	level	dB(A)	54	55		5	58 Cooling:58 Heating:61		59	61
Sound pressure	Cooling	49(0)	Hi:34 Me:31 Lo:28	Hi:36 Me:32 Lo:28		Hi:38 Me:33 Lo:28	Hi:41 Me:36 Lo:33	Hi:41 Me:36 Lo:33	Hi:40 Me:37 Lo:35	Hi:42 Me:39 Lo:3
level 👳	Heating	ub(A)	Hi:34 Me:31 Lo:28	Hi:36 Me	:32 Lo:28	Hi:38 Me:33 Lo:28	Hi:41 Me:36 Lo:33	Hi:42 Me:37 Lo:33	Hi:40 Me:37 Lo:35	Hi:42 Me:39 Lo:3
Exterior dimen H x W x D	sions	mm			290 x 8	70 x 230		339 x 1197 x 262		
Net weight		kg	11.5	1	1		11.5	17		
Airflow range		lis	60 - 95	83 -	141	116 - 183	133 - 200	133 - 200	233 - 366	266 - 383
Outside air inta	ike					Not po	ossible			
Air filter, Q'ty						Polypropylene n	et x2 (Washable)			
Remote control(o	ption)				wired:RC-E	XZ3A, RC-E5, RCH-E3	wireless:RCN-K-E2,	RCN-K71-E2		
Installation dat Refrigerant pipir	a no size	mm(n)		Liquid line:#6.35(1/4 Gas line:#9.52(3/8	') ')		Liquid line:#6.35(1/4 Gas line:#12.7(1/2	Liquid line:#6.35(1/4") Liquid line:#9.52(3/8") Gae line:#12 7(1/2") Gae line:#15 88(7/8")		

Naka Kara, Konstein Tiero oliaka ze szmelná highar du b zmiseti covanova,
 Konstei a 240 Wert i práca,
 Konstein Zava Vert i práca,
 Konstein Zava Vert

INDOOR UNITS





Individual Louvre Control Set the louvres in a number of fixed positions for effective air distribution



New Slim Design By reducing the number of fan motors, the weight of the FDE has been reduced Previous Cur

BCN-E-E3

Remote Control (option)

firest.

RC-E5

FDE Series

RCH-E3

Wi-Fi

MH-BC-WIEI-1B

IND OOR UNITS

FDE71	37		33	4kg less!!
FDE112	49		43	6kg less!!
FDE140	49	•	43	6kg less!!

FDE112

FDE140



FDE45

The industry's lowest sound pressure levels were achieved one fan motor and optimizing casing and distributor shape. levels were achieved by decreasing air flow volume, decreasing pressure loss with employment of

FDE56



FDE71



del FDE36(XXZE1 kW 3.6 kW 4.0	FDE45KXZE1 4.5 5.0	FDE56KXZE1 5.6 6.3	FDE71KXZE1 7.1	FDE112KXZE1 11.2	FDE140KXZE1	
KW 3.6 KW 4.0	4.5 5.0	5.6 6.3	7.1	11.2		
4.0	5.0	6.3			14.0	
			8.0	12.5	16.0	
		1 Phase 220-240V, 50Hz				
	0.05		0.07	0.10	0.13	
KW .	0.05		0.07	0.10	0.13	
B(A)	60		62	-	-	
B(A) Hi:38 Me:31 Lo:26	Hi:38 Me:36 Lo:31	Hi:38 Me:36 Lo:31	Hi:39 Me:37 Lo:32	Hi:42 Me:38 Lo:34	Hi:43 Me:40 Lo:35	
nm	210 x 1070 x 690		210 x 1320 x 690	250 x 16	20 x 690	
kg	28		33	4	.3	
lis 91 - 216	116	- 216	166 - 333	275 - 466	283 - 533	
		Not pr	issible			
		Pocket Plastic n	et x2 (Washable)			
		wired:RC-EXZ3A, RC-E5, F	CH-E3 wireless:RCN-E-E2			
m(t)	Liquid line:#6.35(1/4") Gas line:#12.7(1/2")			Liquid line:ø9.52(3/8") Gas line:ø15.88(5/8")		
B(A) B(A) nm kg Is m(n)	Hi:38 Me:31 Lo:26 91 - 216 56ouing conditions (MS / NZS 3820	0.03 0.03 Hi-38 Mer31 Lo26 Hi-38 Mer36 Lo.31 210 × 1070 x 690 28 91 - 216 116 Lipadel line set 351(147) Gas line set 351(147) Usaget grandline gl/1/023 302.0, Codig holos kmp. gl/27020, 18	0.03 60 H1:38 Mc/31 Lo.26 H1:38 Mc/36 Lo.31 210 x 1070 x 600 28 91 - 216 116 - 216 Vector Hastic on Product Pastic on Statistical Interest 35(147) Liquid Interest 35(147) Site Interest 20(127) Site Interest 20(127)	Uxx3 Uxx3 Uxx3 H :38 Me:31 Lo 26 H :38 Me:36 Lo 31 H :38 Me:36 Lo 32 210 x 130 x 680 33 91 - 216 116 - 216 168 - 33 He:38 Me:37 Lo 26 x 680 33 91 - 216 168 - 216 168 - 33 Het oposite Pocket Pratic net #2 Washabitition wired RC-E223, RC ES, RO H = 3 wireles, RO H = 2 wireles, RO H	UL33 UL34 UL34 <th< td=""></th<>	

Sound pressure level inclustes the value in an americal chamber. During operation these values are somewhat higher clus to ambient conditions.
 The operation during inclustes when the acronollism is operated at 24W (30Hz re) typaxe.
 Motor input W and Cumum plasses refer to Escubion VIPE Selection Data
 Powerful-H can be selected. Sound pressure Werk EREGRADS 66 464(B), ICE11 47:68(B), CPE112 45:68(A), Air four: PEE36145/96 13m

FDFW Series Two Way Floor Standing

INDOOR UNITS

Wi-Fi

RCN-FW-E2 MH-RC-WIFI-1B

Remote Control (option)

BC-EXZ3A BC-E5 BCH-E3

Quiet Operation

Wired

Two Way Floor Standing FDFW Series

Model No. FDFW28KXE6F FDFW45KXE6F

FDFW56KXE6F



Sophisticated Design

With classy semi flat front panel in chic white, the new series is suitable for a variety of applications and can be installed as a floor standing unit, as a wall hung unit or even within a fireplace.

Louvre Control



Easy to Use Operations Use the airflow button to activate airflow from both the lower and upper air outlets or just the upper outlet. More options are available by using the remote control



Thanks to optimum balance of air outlet direction and sufficient air flow volume, the sound level has been minimised. The level of FDFW28KXE6F in cooling mode is 30dB(A) only (to fan speed)

Specif	Specifications See page 104 for exterior dimensions								
ltern	Model	FDFW28KXE6F	FDFW45KXE6F	FDFW56KXE6F					
Nominal cooling capacity	kW	2.8	4.5	5.6					
Nominal heating capacity	kW	3.2	5.0 6.3						
Power source			1 Phase 220-240V, 50Hz						
Power Cooling		0.02	0.02	0.03					
consumption Heating	1	0.02	0.02	0.03					
Sound power level	dB(A)	55	57	60					
Sound pressure level	dB(A)	Hi:36 Me:34 Lo:30	Hi:38 Me:36 Lo:33	Hi:44 Me:37 Lo:33					
Exterior dimensions H x W x D	nn								
Net weight	kg	19	2	20					
Airflow range	l/s	117	- 150	134 - 184					
Air filter, Q'ty			Polypropylene net x1 (Washable)						
Remote control(option)			wired:RC-EXZ3A, RC-E5, RCH-E3 wireless:RCN-FW-E2						
Installation data Refrigerant piping size	nn(r)	Liquid line:ø6.35(1/4") Gas line:ø9.52(3/8")	Liquid line Gas line	::#6.35(1/4") :#12.7(1/2")					
1. The data is measured un	ider the	following conditions (AS / NZS 3823.2). Cooling: Indoor temp. of 27°CDB, 19°C	WB, and outdoor temp. of 35°CDB. Heating: Indoor temp. of 20°CDB, and out	door temp. of 7°CDB, 6°CWB.					

- comparison of the second second

INDOOR UNITS

FDFL Series - Floor Standing With Casing FDFU Series - Floor Standing Without Casing

Floor Standing (with casing) **FDFL Series** Floor Standing (without casing) **FDFU Series**

Model No. FDFL71KXE6F FDFU28KXE6F FDFU45KXE6F FDFU56KXE6F FDFU71KXE6F











FDFL

Specifications See page 105 for exterior dir FDFL71KX8 EDEU71KXE6E 4.5 5.0 1 Phase 220-240V, 50H 6.3 Т ver Cooling sumption Heating KW Pov 0.10 Sound power level dB/ Sound pressure level dB/ 58 Hi:41 Me:38 Lo:36 60 Hi:43 Me:41 Lo:40 62 Hi:43 Me:41 Lo:40 Exterior dir H x W x D 630x1087x225 630x1481x225 630x1372x22 Net weight Airflow range Air filter, Q'ty kg Vs 40 25 32 200 - 300 25
167 - 200
167 - 234
Polypropylene net x1 (Washable)
wired RC-EZ3A, RC-ES, RCH-E3 wireless:ROH-KIT-4-E2
Ungel Inew:85(R)(47)
Gas Inew952(R)(47)
Gas Inew952(R)
Gas Inew952 200 - 300 Liquid line:ø9.52(3/8") Gas line:ø15.88(5/8") Liquid line:ø9.52(3/8") Gas line:ø15.88(5/8") Installation data Refrigerant piping size

The data is measured under the following conditions (AS / ASS 3820.3), Cooling Indoor time, of 2PCOB, 19°CMB, and outdoor time, of 39°COB.
 Sound pressure load indicates the value in an anombinic durating outputs on these values are consential higher due to ambient conditions.
 This opposite data indicates within the air conditions is special at 24% (3D's bit) press.
 Nucleor special Vision regional conditions (Section Vision) and the air conditions.
 Nucleor special Vision regional conditions (Section Vision) and the air conditions.

IND OOR UNITS

FDU-F Series Outdoor Air Processing Unit

INDOOR UNITS

Outdoor Air Processing unit FDU-F Series

Model No. FDU650FKXZE1 FDU1100FKXZE1 FDU1800FKXZE1 FDU2400FKXZE1



Contained External Air Intake

Outdoor Air processing unit can be connected in a KXZ system as one of indoor unit series and can create fresh and comfortable air supply together from our high advanced technology.



Compact Design

Compact design at just 280(650, 1100), 379(1800, 2400)mm in height, high static pressure of 200Pa and the industry's lowest noise level can meet various kind of installation location for office, refresh room, restroom and kitchen of restaurant etc.



ums a se specie unit to processar (be existed or a theoperate closer to the non temportance for conditioning the mount temportance a document of the imparture a document. The conditional is the mount is the processar (be existed or a straight of the imparture of conditional); and in mounts the document of the existence of the imparture of conditional is the mount on temportane conditional is the mount on temportane condition of the existence of the imparture of the existence of e of remote control for this unit and the location of the air outlet. out the fo ione tha ins

INDOOR UNITS

FDU-F Series Outdoor Air Processing Unit

Connectivity with Outdoor units

FDU-F series are connectable to 22.4~168 units, not connectable to 11.2~15.5kW, KXZP Lite.





Spe	Specifications See page 106-107 for exterior dimensions							
ltem	M	odel	FDU650FKXZE1	FDU1100FKXZE1	FDU1800FKXZE1	FDU2400FKXZE1		
Nominal cooling ca	apacity	kW	9.0	14.0	22.4	28.0		
Nominal heating capacity kill 6.5 10.5		10.5	16.0	21.5				
Power source 1 Phase 220-240V, 50Hz								
Power	Cooling		0.25	0.36	1.20	1.20		
consumption	Heating	NII	0.25	0.36	1.20	1.20		
Sound pressur	e level	dB(A)	Hi:31	Hi:37	Hi:42	Hi:45		
Exterior dimens HxWxD	sion	nn	280x950x635	280x1370x740	379x160	379x1600x893		
Net weight		kg	34	54	89	89		
Airflow (Standa	ard)	l/s	Hi:184	Hi:300	Hi:500	Hi:667		
External static pr	ressure	Pa		200 (at H	i Air flow)			
Air filter, Q'ty				Procure	locally			
Remote control(c	(notiqu			wired:RC-EXZ3A, RC-E5, RC	H-E3 wireless:RCN-KIT4-E2			
Installation data Refrigerating pipir	ng size	nn (r)	Liquid line: Gas line:ø1	#9.52(3/8") 5.88(5/8")	Liquid line:ø9.52(3/8") Gas line:ø19.05(3/4")	Liquid line:#9.52(3/8") Gas line:#9.05(3/4") Gas line:#9.05(3/4")		
1. The data is mea	isured und	er the fi	allowing conditions (AS / NZS 3823.2). Cooling: Indoor temp	o of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heat	ng: Indoor temp. of 20'CDB, and outdoor temp. of 7'CDB	, 6°CWB.		

Sourd presume their indicates the task in an amendoic sharters. During operations there wakes are somewith their data to artisteric conditions.
 Sourd present are register of the starter of t

IND OOR UNITS

SAF Series Fresh Air DX Assembly

INDOOR UNITS

Remote Control (option)

-10.0

BC-E5 BCH-E3 Wi-F

Wiroloco -

BCN-KIT4-E2

MH-BC-WIFI-1B

Fresh Air DX Assembly

Model No. SAF-DX250E6 SAF-DX350E6 SAF-DX500E6 SAF-DX800E6 SAF-DX1000E6



SAF-DX is a heating or cooling coll incorporating KXZ series controls. It can be used in combination with our SAF series of total heat approach.

Drain up kit (option, built-in type)

DXA-D

exchanger. Combination of SAF-DX together with other indoor units is possible. The capacity code index of each model is shown below and must be used when making the system selection. Total capacity code index must be within 100% of outdoor unit capacity code index. Remote control option is the same as with other holoor units (see above). Connection to all Superlink controls is also possible. Optional controlerast lift mechanism is also available (600mm helpfn). Pletum air temp. control or supply air temp. control can be selectable.



SAF-DX can provide he SAF series. or cooling to the fresh air supplied through a 3rd party air handling unit or total heat e ior such as our

Specifications

Speci	tic	ations			Se	e page 108 for exterior dimensio
ltem	Model	SAF-DX250E6	SAF-DX350E6	SAF-DX500E6	SAF-DX800E6	SAF-DX1000E6
Nominal cooling capacity	1 KW	2.0	2.8	3.6	5.6	6.3
Nominal heating capacity	2 KW	1.8	2.2	2.8	4.5	5.6
Capacity code		22	28	36	56	71
Power source		1 Phase 220-240V, 50Hz				
Power Cooli	Cooling _ 7.2					
consumption Heati	g "	7.2				
Exterior dimensions H x W x D	m	315 x 4	52 x 422	315 x 537 x 422	315 x 682 x 422	315 x 822 x 422
Net weight	kg	1	2.3	13.6	16.1	18.4
Airflow (Standard)	1/s	69	97	139	222	278
Internal resistance	Pa	38		6	6	
Remote control(option)			wirec	I: RC-E5, RCH-E3 wireless: RCN-KI	T4-E2	
Installation data Refrigerant piping siz	, m(r)	Liquid line Gas line	:#6.35(1/4") :#9.52(3/8")	Liquid line:# Gas line:#1	i.35(1/4") 2.7(1/2")	Liquid line:ø9.52(3/8") Gas line:ø15.88(5/8")
1. The data is measured 2. Motor insuit kW and C	under the	following conditions (AS / NZS 3823.2). Cooling on the second sec	rg: Indoor temp. of 27°CDB, 19°CWB, and out	door temp. of 35°CDB. Heating: Indoor temp. o	f 20°CDB, and outdoor temp. of 7°CDB, 6°CV	VB.

W and Current please refer to Esolution VRF Selection Data n data indicate when the air-conditioner is operated at 240V 50Hz for 1 phase.

EEV-KIT

EEV-KIT

- EEV-KIT is the control kit for operating the locally provided AHU or FCU with direct expansion heat exchanger coils in connection with the KXZ / KXE6
- system. (AHU : Air Handling Unit, FCU : Fan Coil Unit) EEV-KIT is composed of one EEV-Control ASSY and one EEV-Set. EEV-KIT



Features

Refrigeration system	EEV-Control Assy		
	EEVKIT6-E-M	EEVKIT6-E-C	
Single	Not Use	1 box-Many boxes	
Multiple	1 box (for master)	Many boxes(for slave)	

 Type
 EEV6-71-E
 EEV6-160-E
 EEV6-280-E

 Capacity (kW)
 2.2-7.1
 9.0-16.0
 22.4-28.0

Single Refrigerant System

- Single refrigeration system is one that can have multiple outdoor units on one refrigerant pipe work circuit.
 There are 2 types of EEV-KIT systems that can be built into the single refrigeration system.
 System A : one EEV-KIT.
 System B : multiple EEV-KIT's.

System A

This system has only one set of 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 28.0kW



System B

systems

System B is a system that has multiple EEV-KIT's built into one indoor unit with multiple heat exchangers on one refrigerant circuit.
This system can be applied up to 168kW (for KXZ)

Single refrigeration system EEVKIT6-E-C ··· Possible with multiple Multiple refrigeration system EEVKIT6-E-M (1) + EEVKIT6-E-C, etc possible with multiple (Max32)
 EEVKIT6-E-C is common for both single and multiple refrigeration

KXZ Outdoor units

Date: No.

DX : Direct expansion coil

System Configuration

DX-AHU



EEV-KIT Multiple Refrigerant System Multiple refrigeration system is an AHU system with 1) Multiple independent refrigerant circuits 2) One master control to control the whole system. Advantages AHU Large systems are possible with max capacity 896kW. (Indoor unit : 28kW x 32) External control Capacity step control /s1 <u>[</u>5] (FAN) [] [] Additional parts over a single refrigeration system [s]- One master control The slave EEV control and EEV set are the same as a single <u>[]</u> refrigeration system Master Master EEV-KIT aster EEV-Control bo Slave EEV-KIT #1 Slave EEV-KIT #2 #3 • • • • Sensor (2pqs) Ð Slave EEV-Control box Sensor x 3 EEV x 1 Statier Statier e EEVer temp. 1,R2,R3) inger temp. i-R1,R2,R3) ì Heat exchange Sensor (Thi-R1 Sensor x 3 EEV x 1 **Connection to SUPERLINK-II** Single Refrigeration System \checkmark SC-ADNA-E SL4 Г 10 DX-FCU Ł [FDT Single System A Remo d line KXZ KXZ DX-FCU 11 Single System B KXZ Multiple Refrigeration System rlink Adapter SC-ADNA-E SL4 П DX-FCU [FDT 1 Single System A ≩ Rem KXZ KXZ ≩ KXZ KXZ Slave2) Slave3 € Slave4 DX-AHU Multiple System

DIMENSIONS - OUTDOOR UNITS

KX MICRO

All measurements in mm.

FDC112 - 155KXEN6, FDC140 - 155KXES6

20



DIS-22-1G DIS-180-1G



Mark	Content	
A	Service valve connection (gas side)	ø15.88 (5/8") (Flare)
В	Service valve connection (liquid side)	ø9.52 (3/8") (Flare)
С	Pipe/cable draw-out hole	4 places
D	Drain discharge hole	ø20 x 3 places
E	Anchor bolt hole	M10 x 4 places
F	Cable draw-out hole	ø30 x 3 places

Notes: (1) It must not be surrounded by wells on the four sides. (2) The unit must be fixed with anothor bolts. An anothor bolt must not protoude more than 15mm. (3) Where the unit is ablight of strong writes, bit is such a direction that be blower outlet faces preparedicularly to the dominant wind direction. (4) Laver in on row space above the unit, be units height. (6) A wall in found in the blower outlet must not exceed the units height.

Refrigerant piping





UTDOOR UNIT

KX MICRO

FDC90-140KXZEN1-W, FDCA155KXZEN1-W / FDC112-140KXZES1-W, FDCA155KXZES1-W



TTOLD IN	oomon	
Α	Service valve connection (gas side)	ø15.88 (5/8") (Flare)
В	Service valve connection (liquid side)	ø9.52 (3/8") (Flare)
С	Pipe/cable draw-out hole	
D	Drain discharge hole	ø20 x 3 places
E	Anchor bolt hole	M10 x 4 places
F	Cable draw-out hole	ø30 x 3 places

at not be surrounded by walls on the four sides. unit must be fixed with another blots. An another bolt must not protroude more than 15mm. The unit is subject to strong winds, lay it is such a direction that the blower outlet faces includingly be the dominant wind direction. It is not more space above the unit. If is not not subject with unit and uncoded the units helpft. d the units height. ht corner of the front pane

Refrigerant piping





11111 mm HEAD4-22-1G HEAD6-180-1G

DIMENSIONS - OUTDOOR UNITS



Mark	Item	224	280	335	Notes:
A	Service valve connection of the attached connecting pipe (gas side)	ø19.05 (3/4") (Flare)	ø19.05 (3/4") (Flare)	ø19.05 (3/4") (Flare)	 (1) It must not be surrounded by wails on the four sides. (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
В	Service valve connection (liquid side)	ø9.52 (3/8") (Flare)	ø9.52 (3/8") (Flare)	ø12.7 (1/2") (Flare)	(3) Where the unit is subject to strong winds, the blower
С	Pipe/cable draw-out hole	4places	4places	4places	outlet shoud face perpendicularly to the dominant wind direction
D	Drain discharge hole	ø20 x 4places	ø20 × 4places	ø20 × 4places	(4) Leave a 1m or more space above the unit.
E	Anchor bolt hole	M10 × 4places	M10 x 4places	M10 × 4places	(5) A wall in front of the blower outlet must not exceed the
		ø30 × 2places (front)	ø30 × 2places (front)	ø30 × 2places (front)	units height. (6) The model name label is attached on the lower right.
F	Cable draw-out hole	ø45 (side)	ø45 (side)	ø45 (side)	corner of the front.
		ø30 × 2places (back)	ø30 × 2places (back)	ø30 × 2places (back)	(7) Connect the Service valve with local pipe by using the
G	Connecting position of the local pipe.	ø19.05 (3/4*)(Brazing)	ø22.22 (7/8")(Brazing)	ø25.4 (1")(Brazing)	pipe of the attachment.(Gas side only) (8) Mark % shows the connecting position of the local

Refrigerant Piping

KXEG

Outdoor unit (kW)		22.4	28	33.5	
Gas pipe	Furthest indoor unit	ø19.05	ø22.22	ø28.58	
Liquid pipe	uid pipe =<90m		ø9.52		
Gas pipe	Furthest indoor unit	¢22.22 ¢28.58			
Liquid pipe	=<90m		ø12.7	7	

DIS-22-1G DIS-180-1G

DIMENSIONS -DUTDOOR UNITS

DIMENSIONS - OUTDOOR UNITS



main	Itom	
А	Service valve connection of the attached connecting pipe (gas side)	ø19.05 (3/4") (Flare)
В	Service valve connection (liquid side)	ø9.52 (3/8") (Flare)
С	Cable draw-out hole (front - side)	ø30 × 2places
D	Cable draw-out hole (front - side)	ø45 × 2places
E	Cable draw-out hole (back)	ø50
F	Pipe/cable draw-out hole	4places
G	Drain discharge hole	ø20 × 3places
Н	Anchor bolt hole	M10 × 4places

Refrigerant Piping







KXZEI

FDC280 - 335KXZE1



		000	005		
Mark	Content	280	335		
A	Refrigerant gas piping connection pipe	ø22.22(Brazing) ø25.4(Brazing)			
В	Refrigerant liquid piping connection pipe	ø9.52(Flare) ø12.7(Flare)			
C	Refrigerant piping exit hole	ø88(or ø100)			
D	Power supply entry hole	ø50 (right · left · front), long hole 40 x 80 (bottom)			
F	Anchor bolt hole	M10 x 4 places			
G	Drain waste water hose hole	ø45 x 3 places			
Н	Drain hole	ø20 x 10 places			
K	Refrigerant oil equalisation piping connection pipe	ø9.52	(Flare)		
L	Carrying in or hole for hanging	230	x 60		



UTDOOR UNITS

Dimensions	1	2
Lı	500	Open
L2	10(30)	200
Ls	100	300
L4	10(30)	Open
Ls	10(30)	400
Ls	10(30)	400
Hi	1500	Open
H2	No limit	No limit
Ha	1000	No limit
H4	No limit	Open

Ha





Mark	Content	400	450, 475, 500, 560	
Α	Refrigerant gas piping connection pipe	ø25.4(Brazing)	ø28.58(Brazing)	
В	Refrigerant liquid piping connection pipe	ø12.7(Flare)		
С	Refrigerant piping exit hole	ø88(or ø100)		
D Power supply entry hole		ø50 (right · left · front), long hole 40 x 80 (bottom)		
F	Anchor bolt hole M10 x 4 places		places	
G Drain waste water hose hole		ø45 x 3 places		
Н	Drain hole	ø20 x 10 places		
K	Refrigerant oil equalization piping connection pipe	ø9.52(Flare)		
L	Carrying in or hole for hanging	230 x 60		

Dimensions	1	2
L1	500	Open
L2	10(30)	10(30)
Ls	100	100
L4	10(30)	Open
Hi	1500	Open
H2	No limit	No limit
Hs	1000	No limit
H4	No limit	Open

Carrying in or h

ble for hanging

DIMENSIONS - OUTDOOR UNITS





230 x



DIMENSIONS -DUTDOOR UNITS

DIMENSIONS - OUTDOOR UNITS







lr	nstallation exam	ple
Dimensions	1	2
L1	500	Open
L2	10(30)	10(30)
Ls	100	100
L4	10(30)	Open
Hi	1500	Open
H2	No limit	No limit
H3	1000	No limit
H4	No limit	Open

() In case it is the promised installation location that the outdoor unit is used on conditions with the ambient temperature of 43°C or more.

installation example				
Dimensions	1	2		
L1	500	Open		
L2	10(30)	200		
Ls	100	300		
L4	10(30)	Open		
Ls	10(30)	400		
Ls	10(30)	400		
Hı	1500	Open		
H2	No limit	No limit		
Hs	1000	No limit		
H4	No limit	Open		

KXZRC2 FDC224 - 335KXZRE2



Mark	Content	224	280	335	
Α	Refrigerant suction gas piping connection entrance	ø19.05(Brazing)	ø22.22(Brazing)	ø25.4(Brazing)	
В	Refrigerant liquid piping connection entrance	ø9.52	Flare)	ø12.7(Flare)	
С	Refrigerant discharge gas piping connection entrance	ø15.88(Brazing)	ø19.05(l	Brazing)	
D	Power supply entry hole	ø50(right · left · front),long hole 40x80(Bottom)			
F	Anchor bolt hole	M10 x 4 places			
G	Drain waste water hose hole	ø45 x 3 places			
Н	Drain hole	ø20 x 11 places			
Κ	Refrigerant oil equalization piping connection entrance	ø9.52(Flare)			
L	Carrying in or hole for hanging	230x60			
Ν	Refrigerant piping exit hole	ø88(or ø100)			

Ls L4 H H2 No limi No li Нз 1000 No limit H4 No limit Ope () In case it is the promised in that the outdoor unit is used o

DIMENSIONS -OUTDOOR UNITS





Mark	Content	400	450	475	500
Α	Refrigerant suction gas piping connection entrance	Ø25.4 (Brazing)		ø28.58(Brazing)	
В	Refrigerant liquid piping connection entrance			ø12.7(Flare)	
С	Refrigerant discharge gas piping connection entrance			ø22.22(Brazing)	
D	Power supply entry hole	ø50(right · left · front),long hole 40x80(Bottom)			
F	Anchor bolt hole	M10 x 4 places			
G	Drain waste water hose hole	ø45 x 3 places			
Н	Drain hole	ø20 x 11 places			
K	Refrigerant oil equalization piping connection pipe	ø9.52(Flare)			
L	Carrying in or hole for hanging	230x60			
N	Refrigerant piping exit hole	ø88(or ø100)			

Installation example						
Dimensions	1	2				
L1	500	Open				
L2	10(30)	10(30)				
Ls	100	100				
L4	10(30)	Open				
Hı	Open					
H2	No limit					
Hз	No limit					
H ₄ No limit Open						
() In case it is the promised installation location that the outdoor unit is used on conditions with the ambient temperature of &°C or more.						

DIMENSIONS - OUTDOOR UNITS

KXZW



Α	High/low gas line	Refer to piping size	Dimonologi	224,280	335	High/low gas line	ø19.05	ø22.22	ø25.4	Flange
В	-	Not to use.	C1	142	139	Liquid line	ø9.52	ø9.52	ø12.7	Flore
С	Liquid line	Refer to piping gize	C2	322	316	Oil equalization line	ø9.52	ø9.52	ø9.52	Tible -
D	Oil equalization line	nelei to pipilig size								
F	Water inlet	R1 1/4		stallation	4					
G	Water outlet	R1 1/4	Dimension	example	1					
Н	Drain outlet	Rp 1/2,2places	L1		600 or more					
J	Power source intake	ø35	L2		20 or more					
K	Signal wiring intake	ø35	L3		500 or more					
L	Anchor bolt hole	ø18,4places	L4		20 or more					
			L5		300 or more					

One Way Compact Ceiling Cassette FDTQ22-36KXE6F

urements in mm. r panel (TQ-PSA-15W-E) All m Direct nel (TQ-PSB-15W-I 20088-20087 - 551509 20091-590 - #2315721 5 VP15 C0 D 32 ____ el (QR-PNA-14W-ER) NB-14W-ER Duct p Supply oir duc: Supply nir duct ----30 50 150 150 30 30 490 X 2 64 Holes for Tepping screves 12-64 Holes he topping screvs 150 150 3 30 30 74() (Cer 82, 576 (Supervior tolls cite 286 _____288 250 Hanger blots for suspension ball langer øldte fo suspension beit 288 S 8 100 Drain hose piece (Accessory) (installed on sille 3 Croin nate pleas (Accessory) <u>65</u> (Installed on site)) or (trail 259 61 0 spiler: 3. N <u>61 वि</u> Contro Penel Lefecter Panel ő93 269 4- 04 Holes for 1500 more 130 pr mare :00 7 mar 600 or Jess. 213 Æ . Zo 125 rne label is actoched on the fam con 85 at more sprecking we spreck top socket (MP2C) on site signed for 2X2 grip celling, blav prel 210 De ve odoel a b а 248 P B b Ċ Air relam ar ki d \₄-retı C D Dimension Table Dimension Table a b c d 625 514 650 580 780 514 650 580 a b c 8 b c 625 650 580 780 650 580 model TQ-PSA-15W-TQ-PSB-15Wmodel QR-PNA-14W-ER

DIMENSIONS - INDOOR UNITS

Four-Way Ceiling Cassette FDT28-160KXZE1, KXZE1-W



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NIMENSIONS -NDOORUNITS

Compact Four-Way Ceiling Cassette FDTC15-56KXZE1, KXZE1-W



DIMENSIONS - INDOOR UNITS

Two Way Ceiling Cassette FDTW28-140KXE6F







FDTW90KXE6F, 112KXE6F, 140KXE6F



1.5



IMENSIONS -

One Way Ceiling Cassette FDTS45-71KXE6F









		2001011
	Vicae	45 /1
A.	Gas pipels	612.7 (1721) (Flare) 6/5.88 (5781) (FIGO
3	Liquid bioing	46.35 (174°) (Flore) #9.57 (378°) (Here)
. C	Drois alping	VP25 (10.25., 0.0.32) Note (2)
2	Hole for wining	
-	Suspension belts	(919)
<i>n</i> .	Outside aix opening	(Zeeskie I)
~	for clicting	13 - Mar 2017
-	Drois piping	3925 0 1 25 0 H 321
	Chan (1) a datala ana).	M COCHARD (MORALE)

DIMENSIONS - INDOOR UNITS

High Static Pressure Ducted FDU45-160KXE6F, KXE6F-W





DIMENSIONS -INDOORUNITS

High Static Pressure Ducted FDU224-280KXZE1



to upper (bottom) of fan upper (bottom) of unit.

that pipes are

DIMENSIONS - INDOOR UNITS

Low/Medium Static Pressure Ducted FDUM22-160KXE6F, KXE6F-W



FDUM71KXE6F, 90KXE6F FDUM71KXE6F-W, 90KXE6F-W







FDUM112KXE6F, 140KXE6F, 160KXE6F FDUM112KXE6F-W, 140KXE6F-W, 160KXE6F-W





DIMENSIONS -INDOORUNITS

100000

¥25-63 ¥25-63 ¥28

Low Profile, Low Static Pressure Ducted FDUT15-71KXE6-E, KXE6F-W

DIMENSIONS - INDOOR UNITS





NIMENSIONS -NDOORUNITS

Wall Mounted FDK15-90KXZE1, KXZE1-W

FDK15KXZE1, 22KXZE1, 28KXZE1, 36KXZE1, 45KXZE1, 56KXZE1 FDK15KXZE1-W, 22KXZE1-W, 28KXZE1-W, 36KXZE1-W, 45KXZE1-W, 56KXZE1-W



FDK71KXZE1, 90KXZE1 FDK71KXZE1-W, 90KXZE1-W



DIMENSIONS - INDOOR UNITS

Ceiling Suspended FDE36-140KXZE1







102

103

DIMENSIONS -INDOORUNITS

Two Way Floor Standing FDFW28-56KXE6F



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/ce space)

Syrros		Senteri.	
	Mode.	301328-03 63	FOFW45KX569,56KX56
A 601 ((d)ra	19.52 (3/87) (Field	0 \$777(227 ¹) (Refe)
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D-a-	hase	SE.	5 (1016)
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n a folde	(for picing (or both side)		

Notes - (1) The mode memoritated is intracties on the right-left of the unit. - (2) In cess of well respond too, some the unit (50mm on less from the flow).

DIMENSIONS - INDOOR UNITS

Floor Standing With Casing - FDFL71KXE6F Floor Standing Without Casing - FDFU28-71KXE6F



FDFU28KXE6F, 45KXE6F, 56KXE6F, 71KXE6F



2

(Service space) 20465

Outdoor Air Processing Unit FDU650FKXZE1



Symbol	Content	
A	Gas piping	Ø15.88 (5/8") (Flare)
В	Liquid piping	ø9.52 (3/8") (Flare)
C1	Drain piping	VP25(0.D.32)
C2	Drain piping(Gravity drainage)	V20(0.D.26)
D	Hole for wiring	
E	Suspension bolts	M10
F	Outside air opening for ducting	(Knock out)
G	Air outlet opening for ducting	(Knock out)
н	Inspection hole	(450X450)

DIMENSIONS - INDOOR UNITS

Outdoor Air Processing Unit FDU1100-2400FKXZE1



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IMENSIONS -IDOORUNITS

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Fresh Air DX Assembly SAF-DX250-10000E6





DIMENSIONS - INDOOR UNITS

Refrigeration Flow Controller



DIMENSIONS -INDOORUNITS

		Wired Remote Control	
Module		No.	-
Model	RCH-E3	RC-E5	RC-EXZ3A
Description	Simple	Press Button	Touch Screen
Max Connectable Indoors	16	16	16
		OPERATION	
ON/OFF	=	=	=
Operating Modes	=	=	=
Room Temperature Setting	=	=	-
Fan Speed	•	•	-
Louvre Direction		-	-
Filter Sign Reset		•	-
High Power Operation			-
Auto Temp Set Back			•
Administrator Setting		-	-
Enable/Disable Setting	•	•	=
Test Run		•	=
Motion Sensor			
		DISPLAY	
Error Indication	•	•	•
Error Code	•	•	=
"ON" Indication	•	•	=
Room Temperature Reading		•	=
Ventilation Display	•	•	=
Current Time		•	-
Day of Week		•	=
Address Display	•		•
Central Control Display	•	•	=
Backlight			=
Connected Air Con No.	•	-	•
		TIMER	
On/Off Timer		-	-
Sleep Timer		-	-
Peak-Cut Timer			•
Holiday Setting		-	-
Daily Schedule		-	•
Weekly Schedule			•
Annual Schedule			
	ADDI	TIONAL CONTROLS	
Error History			
Emergency Stop		-	-
Energy Consumption			
USB Connectable			-
Multi Language			=

CONTROLLERS

Image: second				Wireless Rei	mote Control (Option)			
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1616161616161616161616III	For FDTQ, FDU, FDUT, FDUM, FDUH, FDFL, FDFU, FDU-F, SAF-DX	For FDT	For FDTC	For FDFW	For FDTS	For FDE	For FDTW	For FDK22-56	For FDK71
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ADDITIONAL CONTROLS	-			•	•	•	•	•	
				ADDITH		c	l		
				ADDITIC	CONTROL	3			
*The SC-BIKN2-E and SC-ADNA-E will implement the function via terminal interface	L	1	1	*The	SC-BIKN2-F a	nd SC-ADNA-F	will implement ti	i ne function via ta	rminal interface

	Central Controller				
Module	-	Server la			
Model	SC-SL1N-E	SC-SL2NA-E	SC-SL4-AE/BE	SC-WBGW256	SC-LGWNB
Description	Simple Press Button Central Controller	Press Button Central Controller	Touch Screen Central Controller	Web Gateway and BACnet Gateway	LonWorks Gateway
Max Connectable Indoors	16	64	128	256	96
		OPERATIO	DN NC		
ON/OFF					
Operating Modes					
Room Temperature setting					
Fan Speed				•	
Louvre Direction					
Filter Sign Reset					
High Power Operation					
Auto Temp Set Back					
Administrator Setting					
Enable/Disable Setting					
Test Run					
Motion Sensor					
		DISPLAY	Y		
Error Indication					
Error Code					
"ON" Indication				•	
Room Temperature Reading					
Ventilation Display					
Current Time					
Day of Week					
Address Display					
Central Control Display					
Backlight	_	_	-	-	
Connected Air Con No.					
		TIMER	1		
On/Off Timer			-		
Sleep Timer					
Peak-Cut Timer					
Holiday Setting					
Daily Schedule					
Weekly Schedule					
Annual Schedule					
		ADDITIONAL CO	ONTROLS		
Error History			-		
Emergency Stop					
Energy Consumption			BE only		
USB Connectable					
Multi Language					
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CONTROLLERS

			Op	otional Parts				
		0	0	0	Q	N.		
LB-T-5BW-E / LB-T-5BB-E	LB-TC-5W-E	LB-KIT	LB-E	LB-TW-6W	CNT	SC-BIKN2-E	SC-GIFN-E	SC-ADNA-E
Motion Sensor for FDT	Motion Sensor for FDTC	Motion Sensor for FDU, FDUM, FDUT, FDK & FDTS	Motion Sensor for FDE	Motion Sensor for FDTW	Interface Connector for External In/Output	Interface Kit for RAC (includes CNT)	Interface for OEM via Superlink	Superlink E Board and Network Adaptor
1	1	1	1	1	1	1	1	1
				PERATION				
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				DISPLAY				
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L			100151					
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					-	-	-	

CONTROLLERS

Individual Control Systems



2. Main Functions

	Function name	Description
	Enamy styling organization	Description Uncertainty is controlled submittedly logical on the outdoor farmerships anarray can be stand without logical control
Economy	Clean Emar	Service and opposity of conversion databases and a service and a service service service service service and a service
	Sat temperature subcreture	Set whe where persons need out to adopt or operatively. The demonstration of the term person of t
	Sat ON Smar by hour	When the add from adverse the site receiving use temperature.
2 Economy	Sat DEE timer by hour	Wind the set fine expect, us a Condition state.
Timor	Cat OII firmer hu shade	The six section of the section of the sections
11110	Cat OFE lines by clock	The air contribution of the act taking
	Weakly fimer	In er all Constantier stagts at une set unite.
	Peak-out timer	on on and on and be set on a weeky base.
	Homa Jama coardino	When the unit is not used for a lown named of final the more features to exist outside and any section of annuals but or real lamourshuse
	I see ICD & Teach errean ranal	I was 2.8 inch create his recited in inversal violations and marchillo
	Fasy medification of Individual flan control	like ca visible confirm and set the direction of first usion the visual disclay on the remote controller
Comfort	Automatic fan speed *1	The micro-commuter automotically artistis the airflow effectively to follow the channess of return air temperature
	Temp increment setting	Temperature increment for the change of the set temp can be changed
	Silent mode	Set the period of time to operate the Outdoor unit with prioritizion the quietness
	Function switch	The function switch allows user to select and set hun functions among seven available functions
	Favorite setting	Operation mode, set temperature, fan speed and air flow direction automatically adjust to the programmed favorite setting.
	Adjusting Brightness of the background light	The brightness of the background light can be adjusted by 10 stages.
	LCD contrast setting	This function allows user to adjust LCD display contrast.
Convenience	High power operation	High Power Mode increases the unit operating ability for 15 minutes to quickly adjust the room temperature to a comfortable level.
	Back light setting	This convenient function allows user to see controls under low light conditions.
	Administrator settings	This function only allows specific individuals to operate the unit.
	Setting temp range	Limited range of setting temperature in the heating or the cooling operation can be selected.
	External Input/Output Function	The external input/output of indoor unit by remote controller can set input/output based on user needs.
	Select the language	Set the language to be displayed on the remote control.
	USB connection (mini-B)	This function allows batch input of schedule timer settings and other settings involving a large amount of data.
	Error code display	This function allows user to check information displayed when abnormal function of the unit occurs.
	Operation data display	Displays various types of air conditioner operation data in real time.
Service	Contact company display	Address of the service contact is displayed.
	Filter sign	Announces the due time for cleaning of the air filter.
	Static pressure adjustment	Allows user to adjust duct static pressure using the remote control.
	Backup Control	Allows for rotation control, fault backup control, and capacity backup control.

CONTROLLERS



CONTROLLERS

SUPERLINK®-II Control System Misubishi Heavy Industries has now one when the similarity of installation with our highly sophisticated SUPEFLINK-II control system, to offer building womers and occupiers a comprehense control and management system, while providing complete commissioning and service maintenance assis-tance for installers and service engineers. The SUPERLINK-II network utilises two wire, non-polar cable - for further details of wiring.

SUPERLINK-II is an advanced high speed data transmission system that can connect up to 128 indoor units and 32 outdoor units as a network. Mitsubishi Heavy Industries offers a wide range of control options for the SUPERLINK-II network to suit any application large or small, as well as connection to new or existing building management systems. Individual Mitsubishi Heavy Industries split systems can also be integrated on to the SUPERLINK-II network using SC-ADNA-E.





CONTROLLERS

Central Controllers

SC-SL1N-E

- Start/stop control of up to 16 indoor units either individually or collectively with a simplied, centralised control.
- 1. The SC-SL1N-E is connected to the Superlink-II network via 2-core, non-polar wires ('AB'
- connection). 2. It will monitor and control the start/stop function of up to 16 units, with the 16 operation buttons. 3. The unit or group numbers in operation or in need of service are displayed with an LED. 4. Collective start/stop is also available through the simultaneous on/off button. 5. Up to 12.5 CALINE units can be connected to Superlink-I herowick (consisting of up to 128
- indoor units). 6. If a power failure occurs, the SC-SL1N-E will resume the operation of the system according to a stored operation condition, once power is restored.

SC-SL2NA-E

- Central control of up to 64 indoor units including weekly timer function as standard.
- 1. The SC-SL2NA-E is connected to the Superlink-II network via 2-core, non-polar wires ('AB'
- The SC-SL2M-E is connected to the Superlink-II network via 2-core, non-polar wires (AB' connection).
 It will monitor and control the start/stop function of up to16 units, or 16 groups of units, with the sisteen operation buttors.
 It also monitors and controls the following functions for individual units, groups of units, with the complete network: operation mode, set point temperature, neturn air temperature, louvre position, error code, artifo wand center took function.
 The unit or group numbers in operation or in need of service are displayed with an LCD.
 Collective start/stop is also available through the simultaneous on/of button.
 If a power failure occurit, the SC-SL2MA-E will resource the operation of the system according to a stored operation condition, once power is restored.
 The alc-SL2MA-E can be connected to one network are detailed on the table below.

Example setup of central control SC-SL2NA-E

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Note:Please consult dealer for combination of center controls and BMS interface units.

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An SC-SL2NA-E performs the start/stop control, monitoring and mode setting of up to 64 units. It is a high quality air conditioner control system that allows up to 64 indoor units to be freely grouped into 1 to 16 groups. It allows not only the start/stop control but also the monitoring, display of operation statuses such as in operation or in need of service and mode setting such as switching of operation modes of connected units collectively, by group or individually.

Outer dimensions: H120 x W215 x D25+35*mm. 35* is the measurement including the part contained in a recess.

SC-SL4-AE/BE

MHI Introduces the full colour touch screen central control SC-SL4-AE/BE, with 9 inch interactive LCD display. Offices control, monitoring, scheduling and service/maintenance functions for up to 128 indoor units. Control with PC is available by use of Internet Explorer.

Indoor units can be controlled, scheduled, monitored and either individually, as groups or as blocks of groups with the following functions:

System Diagram





Control	Monitoring	Scheduling	Administration/Service
Run/Stop	Operating state	Yearly schedule	Block definition
Mode (cool/heat/fan/dry/Auto)	Mode	Today's schedule	Group definition
Set temperature	Set temperature	Detailed daily schedule	Unit definition
Operation permitted/prohibited	Room temperature		Time and date setting
Fan speeds	Operation permitted/ prohibited		Alarm history
Air direction	Fan speed		Energy consumption calculation period
Filter sign reset	Air direction		Energy consumption, cumulative operation time
Demand control (3 steps)	Filter sign		
Emergency stop	Maintenance (1, 2 or back-up)		



SC-SL4-BE gives outputs as "electric power consumption kWh data -each indoor unit, each group, each SUPERLINK-II system and each power pulse system-".



	SC-SL4-BE
Method of data export	USB / LAN
Calculation software	Standard
Watt-hour meter pulse input (Maximum)	8
Connecting indoor units number (Maximum)	128

ltem Model		SC-SL4-AE/SC-SL4-BE
Ambient temperature during use		0 ~ 40°C
Pow	er supply	1 Phase 100-240V 50/60Hz
Pow	er consumption	9W
Exte (Hei	rnal dimensions ght x Width x Depth)	172mm x 250mm x 23 (+70) mm
Net	weight	2.0kg
Number of connectable units (indoor units)		up to 128 units
LCD touch panel		Colour LCD, 9 inches wide
	SL (Superlink) signal inputs	1 system (Superlink-∏)
52	Watt-hour meter pulse input*	8-point, pulse width 80ms or more
Input	Emergency stop signal input*	1 point, non-voltage a contact input continuous input (closed, forced stop)
	Demand signal input*	2 point, non-voltage a contact input continuous input (closed, demand control)
sting	Operation output	1 point, maximum rated current 40mA, DC24 V During full stop; Open. If even one unit is operating; Closed All units stop; Open, any unit operating;Close
ð	Error output	1 point maximum rated current 40mA, DC24 V Normal; closed. If even one unit is abnormal; Open

* The receiving side power supply is DC 12V (10mA). The air conditioning charges calculations of this unit are based on OIML, the international standard.

Building Management Systems



SC-LGWNB (LonWorks Gateway)

nterface device that converts Mitsubishi Heavy Industries Superlink-II ta to LonWorks code. Control and monitoring functions of the a/c system for up to the integrated to a central control point via the building management system





CONTROLLERS

KNX with SUPERLINK-II Integrated Into PAC System via Remote Control Line



Modbus with SUPERLINK-II Integrated Into PAC System via Remote Control Line





Protocol : Modbus RTU (RS-485)
Dimension : 93 x 53 x 58 mm
External Power supply : N/A

BACnet with SUPERLINK-II Integrated Into PAC System via Remote Control Line



Protocol : BACnet MS/TP (EIA485)
 Dimension : 93 x 53 x 58 mm
 External Power supply : N/A





INTESIS® Building Management Systems Interface

Intesis[®] ST Cloud Control

Intesis ST Cloud Control is a cloud-based solution from HMS which enables easy monitoring and control of any BACnet or Modbus device from an end user oriented app and a web based dashboard, Intesis ST Cloud Control uses HMS HubTM for communication between connected devices and the the dout interface. HMS Hub is an industrially proven edge connectivity solution by HMS Networks, which is now also brought to the building management arena to ensure safe and secure transformation of information. With ST Cloud Control you are able to connect all types of BACnet or Modbus devices to the cloud, for an intuitive and centralized remote device management through an app or a web interface using a common dashboard.

- BACnet IP/MSTP or Modbus TCP/RTU connectivity
 Up to 32 devices can be connected to each gateway
 Up to 12 widgets per device.
 Easy device configuration using Intesis MAPS
 Industrial grade connectivity now for Building Automation
 Fast and scalable real time edge connectivity over HMS HubTM
 Full data control and protection
 Secure and remote updates during the application lifetime



Modbus

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CONTROLLERS

INTESIS® AC-Cloud Wi-Fi

Intesis® AC Cloud Control - HVAC IoT Solution for Building and Facility Management

Intesis AC Cloud Control is an HVAC IoT solution created by Intesis for building and facility management. A cloud-based remote-control system, that allows comfortable and intuitive control of air conditioners and heat pumps from a smartphone, tablet, smart watch or from a system, that allows simple internet brow

The AC Cloud Control gateways, offer cloud connectivity to a wide range of compatible AC units. No cables are needed for cloud connectivity, as the devices use Wi-Fi technology to bring all the data to the cloud. The bidirectional communication between Intesis devices and the AC unit, ensures the end user can keep using the manufacturers remote controller if desired, while keeping the cloud system updated with the real status of the HVAC units.

The devices can be managed using a web-based dashboard, so no additional management tool needs to be be installed. User friendly Android and IOS apps are available. More advanced integrations are also available thanks to the professional Full REST API, available for cloud to cloud communication. The API is used for many cloud integrations like Google Assistant, Amazon Alexa or IFTTT among others.



Intesis® AC Cloud Control Main Features



unit

20

Multiple brands and multiple sites Organize any brand and model in three different levels.

Secondary users Manage who can monitor and control each

Email and push notifications

Be aware of everything that happens in your climate system.

F

Energy saving and maintenance functionalities Special functionalities to help increase energy efficiency



costs.

Connect your system to Intesis cloud solutions and offer bidirectional HVAC control

OEM projects Reduce the time to market and maintenance



CNT Terminal

The CNT terminal of the indoor unit control board accepts our 6 wire CNT wiring lead that provides for easy external control integration. The CNT terminal has been a standard inclusion of MHI ducted, in ceiling cassette and under ceiling models since inception.



SC-ADNA-E

This bated is used when conducting control of the single package (wired remote control unit) 1-type series using a network option (SO-SLIN-E, SC-SL2N-E, etc).

Functions (a) Transmits the settings from the network option to the indoor units. (b) Peturns the priority indoor unit and in response to a data request from the network option. (c) Inspects the error status of connected indoor units and transmits the inspection codes to the network option. (d) A maximum of 16 units can be controlled (if in the same operation mode).



SC-GIFN-E Interface Kit

The SC-GIFN-E interface kit is suitable for use with air ventilation fans and air purifiers. By using SC-GIFN-E together with central control such as SC-SL1N-E, SC-SL2NA-E and SC-SL4-AE/BE, you can start-stop, operate & monitor the operation of applicable products.



CONTROLLERS

Airzone Zoning Solution AIRZONE

Airzone

Suitable for commercial applications and compatible with MHIAA's VRF ducted systems, the Airzone variable air-flow zoning solution offers the ultimate level of comfort by providing complete temperature control over each individual zone and in turn, delivering high energy efficiencies and huge cost savings.



- Top of the line European design Allows for variable airflow
- Allows for variable almow
 High Efficiencies driving lower running costs
 Easy integration with a range of building management system
 Advanced features with simplified controls
 Aizone cloud app for smart devices for easy control and
 monitoring

Blueface Controller

Think Controller

Lite Controller





 E-ink screen with capacitive buttons
 Control up to 10 individual zones System mode settings
 Zone thermostat and controller

 Simplified zone temperature controller On/Off functionality

Zone thermostat and controller
 System mode settings

The Q-Adapt algorithm automatically selects the fan speed of the zoned indoor units depending on the number of zones calling for demand. This algorithm adapts the control system to the application of the installation and the air flow demand of each zone. This adaptation is done by assigning a weight (percentage) to each zone, which is mainly suitable for complex ducted installations with numerous zones.



Intuitive, 3.5" colour touch screen Control up to 10 individual zones

 System mode settings Technical system settings and data

Facilitates automatic system software updates via Wi-Fi

Q-Adapt Algorithm



MAINTENANCE AND MONITORING

chamber

KXZ Maintenance and Monitoring

The design of the outdoor units separates the air flow compartment from the mechanical compartment, allowing easy access to serviceable parts by simply removing the panel.

This design also means that the base plate of the air flow compartment acts as a drain tray connected to a drain pipe that runs through the mechanical compartment, so a simple connection of a drain hose to the base of the unit is all that is required, no need for a separate drain tray to be installed.

Service maintenance and trouble shooting tasks can be carried out easily via the wired remote controller, as well as a cooling test operation to assist commissioning.

The outdoor unit control box is also equipped with a switch to invoke a "test-run" mode. This function can be used to help detect any installation errors, indoorduoto unit matching errors, EEV and wele operation. A "pump-down" switch on the PCB allows refrigerant to be recovered with the compressor protected.

All outdoor unit PCBs are also equipped with a 7-segment digital display All obtation with POSs are also equipped with a Posignian digital display for detailed operation history and fault finding. Operation data is stored for the 30 minute period preceding a fault occurring and details are displayed on the 7-segment reading.















Indoor unit

OUR HERITAGE

The origin of MHI can be traced all the way back to 1884.

This shipbuilding business was later turned into Mitsubishi Shipbuilding Co., Ltd., and then launched as Mitsubishi Heavy-Indus-tries, Ltd. in 1974, establishing its position as the largest private firm in Japan, manufac-turing ships, heavy machinery, airplanes, and railroad cars.

Failude Las s. Following the end of World War II, a law aimed at dissolving "zaibatsu" or Nagasaki Shiyara & Machinery Works dismanting the over concentration of economic power was in effect. Thus, in 1950, MH was divided into three entities: West Japan Heavy-Industries, Ltd. Ld., Central Lapan Heavy-Industries, Ltd. It was later consolidate in 1964 and reborn as Mitsubishi Heavy Industries, Ltd.

Mitsubishi Heavy Industries, Ltd. In 1964, the same year Tokyo hosted the Summer Olympics, the three principal heavy industry companies reunited, creating today, s form of MHI Group. Its products expanded to encompass the fields of land, sea and air, and niculated oil drilling rigs, power plants, lankers and bridges. In addition, the successful lift-of to the H-1 launch vehicle occurred during this period, and the Group's participation in full-fieldged space development began. Since then, Mitsubishi Heavy Industries has launched multiple rockets into space, including the most recent being the HV-7 freighter which delivered goods to the international space station in late 2018.

MHI Group has always sought high efficienc and as the trend toward global environmen-tal conservation gains momentum and the concept of ecology becomes commonplace, the company's gas turbine, eco-ship and other technologies and product fields are expanding on a global scale. The Group is working to develop technologies and prod-ucts that help make societies more sustain-able while raising its profile worldwide as a comprehensive infrastructure company.



KOI series spe

OUR HERITAGE

MHI GLOBAL

Leveraging 130 years of engineering excellence, we incorporate our superior technology and design that comes from a history of being at home in the harshest environments into our high quality, high performance products.



- MHI has helped design and engineer a number of key land-based projects including forklifts, bridges, nuclear power plants, offshore wind farms, thermal power systems and gas turbines.
- One of the most famous includes the Tatara Bridge, Japan's longest cable-stayed bridge and the Dubai Metro - the world's longest unmanned, fully automatic rail system.



- Ship building has always been in our blood and MHI is proud to have been involved in delivering a number of projects including sea destroyers, deep sea drilling vessels and LNG transport vehicles.
- In 2014, MHI delivered TACHIBANA-MARU, the first cargo-passenger ship equipped with a tandem-hybrid contra-rotating propeller propulsion system designed to boost the vessels efficiency.
- MHI are also working on a milestone project that will deliver the worlds largest off-shore wind turbine by 2020.



IN SPACE

- Over the last 20 years MHI has been involved in many aeronautical projects including the design of fighter jets and a number of commercial jets.
- To be launched in 2020 is the Mitsubishi SpaceJet family of aircraft which will address demand in the under-served regional jet market by delivering ultimate comfort for passengers and unmatched performance with more profit potential for airlines.
- Since 2007, MHI has help design 5 rockets that have been launched into space including two destined for the international space station
- The most recent of these, the HTV-7 freighter, was launched in September 2018 and delivered 5 tonnes worth of important equipment and supplies to the International Space Station (ISS) that will allow the station to host more research experiments that will help to develop an advanced closed-loop life support system



MITSUBISHI HEAVY INDUSTRIES AROUND THE WORLD



NOTES NOTES



THE EXPERTS IN AIR

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