



**ecolution**  
AIR CONDITIONING

# Mini VRF Hyper-INVERTER

## KX6 M-VRF

FDC112/FDC140/FDC155

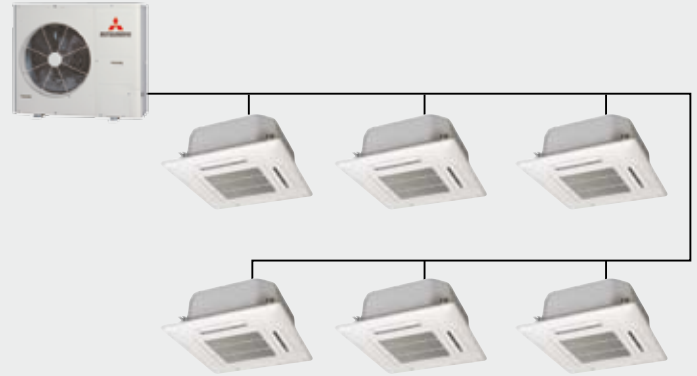
Mitsubishi Heavy Industries Mini VRF systems are high specification, variable capacity cooling/heat pumps, for small applications where individual room control is required. Up to 8 indoor units can be connected to one outdoor unit

### KX6 M-VRF 1 or 3 phase

**FDC112 FDC140 FDC155**

**Nominal Cooling: 11.2kW 14.0kW 15.5kW**

**Nominal Heating: 12.5kW 16.0kW 16.3kW**



Air conditioners and heat pumps for commercial and residential applications



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Mitsubishi RCE3 Controllers include all the basic user requirements – temperature setting, fan speed selection, mode and timer settings – including 24-hour/7-day programmer.

Check functions include service and operational data, fault diagnosis and operational history.

The KX6 mini-VRF system consists of a compact outdoor unit, connected to a selection of up to eight indoor units, allowing each to have individual control.

The system operates either on cooling or heating.

Each indoor unit includes capacity control valves, which constantly adjust to provide energy efficient performance, with stable and comfortable temperature conditions.

- Single Phase electrical power supply
- 70m max from outdoor unit to furthest indoor unit
- Pre-charged with refrigerant for 30m pipe length
- Superior Controls Specification
- DC INVERTER Compressor
- High Performance: C.O.P. up to 4.33
- 12 indoor unit types - 61 different models
- Slim profile outdoor unit



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A I R C O N D I T I O N I N G

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#### Key Features

- Compact outdoor unit
- Extensive indoor unit range – 61 models – see table below
- System operates for cooling or heating
- Small diameter system piping with branch or header connections
- Pre-charged with refrigerant for 30m pipe length
- Simple control wiring – 2-core non-polar New 'Superlynk II' network
- Central Controller options available including advanced BMS interface
- Single phase power supply with low start current – 5A. 3ph option - special order
- Low ambient operation down to -20°C in heating mode
- Indoor unit connection capacity: 150%  
6 units on 112  
8 units on 140, 155
- System design using the Mitsubishi "e-solution" programme

	FDC112	FDC140	FDC155
Nominal Cooling:	11.2kW	14.0kW	15.5kW
Nominal Heating:	12.5kW	16.0kW	16.3kW
Capacity Index:	90 - 168	112 - 210	124 - 233
C.O.P. (Heating)	4.33	3.71	3.72
EER (Cooling)	4.00	3.36	3.29
Dimensions mm H x W x D	845 x 970 x 370		
Weight	82kg		
Power Supply Rating MCB	32A		
Total pipe length	100m		
Pipe length max to furthest unit	70m		
Pipe length max to first branch	50m		
Max height from outdoor unit to indoor units	30m (outdoor unit above) 15m (outdoor unit below)		
Max height between indoor units	15m		

Please refer to Manufacturer's Engineering Data for installation and technical information.  
N.B. Use KX6 indoor units only.

KX6 Indoor Units									
Cooling kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0
Heating kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0
Model ref:	22	28	36	45	56	71	90	112	140
NEW FDT Ceiling Cassette		✓	✓	✓	✓	✓	✓	✓	✓
FDC Compact Cassette	✓	✓	✓	✓	✓				
NEW FDK Wall mounted	✓	✓	✓	✓	✓	✓			
FDE Ceiling suspended			✓	✓	✓	✓		✓	✓
FDTQ 1-way Compact Cassette	✓	✓	✓						
FDTs 1-way Ceiling Cassette	✓	✓	✓	✓		✓			
FDTW 2-way Ceiling Cassette		✓		✓	✓	✓	✓	✓	✓
NEW FDUM Ducted	✓	✓	✓	✓	✓	✓	✓	✓	✓
NEW FDQS Compact Ducted	✓	✓	✓	✓	✓				
FDFL Floor		✓		✓		✓			
FDFU Floor Concealed		✓		✓	✓	✓			

Cooling Nom: 27°Cdb/19°Cwb, Amb: 35°C UK Cooling: I/d: 23°Cdb/16°Cwb, Amb: 30°C Heating: I/d: 20°Cdb, Amb: 7°Cdb/6°Cwb

#### Options and Controls



SAF Heat Recovery ventilation units



Touch Screen Central Control for up to 128 indoor units



BMS Interface for LON or BACNET



Centre Console SL-SL2N-E for up to 64 units - with programmable timer



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Selected systems are listed on the Energy Technology List. This listing enables 100% tax allowance in the first year, on the total cost of Mitsubishi systems, plus the installation costs (including pipework and electrical supplies, materials, labour and design costs). Check ETL listing on government web site: [www.eca.gov.uk/etl](http://www.eca.gov.uk/etl)

