



ecolution
AIR CONDITIONING

Mini VRF Hyper-INVERTER KX Multi System

FDCA140

Mitsubishi Heavy Industries VRF FDCA140 systems are high specification, variable capacity cooling/heat pump, for small applications where individual room control is required. Up to 8 indoor units can be connected to one outdoor unit

FDCA140 VRF Hyper-INVERTER

Power supply 1 phase

Nominal Cooling: 14.6kW

Nominal Heating: 16.6kW



Air conditioners and heat pumps for commercial and residential applications



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Mitsubishi RCE1 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 FDCA140 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 100m total pipe length
- Superior Controls Specification
- DC INVERTER Compressor
- High Performance: C.O.P. up to 3.73
- 12 indoor unit types - 61 different models
- Slim profile outdoor unit



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
- Fully charged with refrigerant – no need to add refrigerant on site
- Simple control wiring – 2-core non-polar ‘Superlynk’ network
- Central Controller options available including advanced BMS interface
- Single phase power supply with low start current – 5A
- Low ambient operation down to -15°C in heating mode.
- Indoor unit connection capacity:
150% for up to 6 indoor units
130% for up to 8 indoor units
- System design using the Mitsubishi “e-solution” programme

FDCA Inverter Outdoor Unit

Nominal Cooling:	14.6kW
Nominal Heating:	16.6kW
Capacity Index:	112 to 210 for 2 to 6 units 112 to 182 for 2 to 8 units
C.O.P. (Heating)	3.73
EER (Cooling)	3.48
Dimensions mm H x W x D	1300 x 970 x 370
Weight	125kg
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)

Please refer to Manufacturer’s Engineering Data for installation and technical information.

FDCA140 - KX4 Indoor Units

	2.2	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0
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
FDTA Ceiling Cassette		✓	✓	✓	✓	✓	✓	✓	✓
FDTCA Compact Cassette	✓	✓	✓	✓	✓				
FDKA Wall mounted	✓	✓	✓	✓	✓	✓			
FDEA Ceiling suspended			✓	✓	✓	✓		✓	✓
FDTQA 1-way Compact Cassette	✓	✓	✓						
FDTSA 1-way Ceiling Cassette	✓	✓	✓	✓		✓			
FDTWA 2-way Ceiling Cassette		✓		✓	✓	✓	✓	✓	✓
NEW FDUMA Ducted	✓	✓	✓	✓	✓	✓	✓	✓	✓
NEW FDQSA Compact Ducted	✓	✓	✓	✓	✓				
FDFLA Floor		✓		✓		✓			
FDFUA 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 144 indoor units



BMS Interface for LON or BACNET



Centre Console SLA2AE for up to 48 units

