



EHPAC

Enhanced High Performance Air Conditioning

MITSUBISHI HEAVY INDUSTRIES, LTD.



Mitsubishi Heavy Industries has combined its advance technology of DC Inverter compressor design and heat exchanger construction, to significantly increase the cooling and heating performance of this new FDCA140 Compact Multi System.



1 Phase INVERTER MULTI

FDCA140 Compact
Multi System
14.6kW/16.6kW

Air Conditioners and Heat Pumps for
Commercial & Residential Applications

VRV Technology. The compressor is fully inverter controlled, allowing the compressor speed and output to match the variable combined demand for cooling or heating from the connected indoor units. (note: indoor units all operate in same mode: cooling or heating). It is an ideal solution where there is limited Single Phase power supply, typical applications are: offices, shops, banks, meeting rooms, restaurants, hotels, surgeries, hospitals, houses, flats, and many other locations. 3 Phase outdoor units are also available.

5 Amp Start Current. A big advantage where power supply is limited.

7-Day Programmable Timer - now included in standard controls specification.

The CoP (Coefficient of Performance) has been dramatically increased, up to 3.73 – depending on the combination of connected indoor units. This means the system can deliver 3.73kW of heating, whilst consuming only 1.0kW of electrical power. This has been achieved by combining advanced Mitsubishi technology with R410A.

R410A

Refrigerant of the Future

FDCA140 INVERTER multi

Air Conditioners and Heat Pumps for Commercial & Residential Applications



An **HRP** Company

Superior Controls Specification

The advanced controls specification for the latest high performance FDCA systems from Mitsubishi is sophisticated and comprehensive. It combines all the basic user requirements – temperature setting, fan speed selection, mode, and timer settings, with a comprehensive range of service data functions, inverter compressor speed indication, fault diagnosis, and operational history.

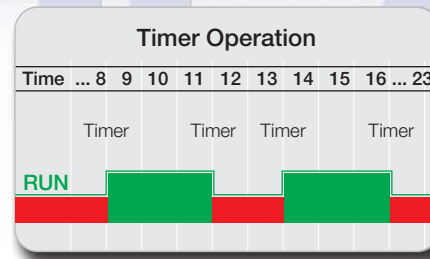
The FDCA140 Compact Outdoor Unit has a superior technical specification, enabling the compressor, inverter, fans and electronic expansion valve to be constantly adjusted, to create the optimum delivery of refrigerant to each indoor unit, depending on each individual unit's capacity requirement,

Indoor Unit Range

The range of connectable VRF indoor units is extensive, with models and sizes to suit most locations. Full details are available on request. The combined capacity limit of the indoor unit is 150% (for 2 to 6 units) and 130% (for 7 to 8 units). All units have electronic expansion valves for optimum variable refrigerant flow at part load conditions.



RCE1 Wired Controller



FDCA140 Compact INVERTER

- Connectable units quantity: 2 to 8
- Capacity index: 112 to 210 for 2 to 6 units
112 to 182 for 7 or 8 units
- Single Phase Power Supply 32A MCB
- Low Start Current – only 5Amp
- Outdoor unit – Slim profile with side blow fans
- 100m total max. piping length
- 70m to furthest indoor unit
- 50m to first branch

Indoor Units KX4 Series

- Wall Controller - hard wired (3 core)
- 7-Day Programmable Timer
- Two on/off settings each day
- Different temperature for each set period
- External timer/BMS switching for Group (up to 16 units)
- Simple 2-core wire system control connection
- Integral temperature sensor
- Group control option – 48 units max
- BMS interface available

Benefits for the installer

- Simplified interconnecting wiring - 2-core non-polar
- Pre-charged for 100 metres total pipe length
- Simple Branch or header connections

FD-KX4 Indoor Units (CP Denotes Condensate lift Pump Included)

The range of VRF indoor units is comprehensive to suit all applications. The range extends from 2.2kW to 14.0kW.

			2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00
	COOLING kW										
	HEATING kW		2.50	3.20	4.00	5.00	6.30	8.00	10.00	12.50	16.00
FDTA	Cassette 4-way	CP		•	•	•	•	•	•	•	•
FDTQA	Compact cassette 1-way	CP	•	•	•						
FDTCA	Compact Cassette 4-way	CP	•	•	•	•	•				
FDTSA	Cassette 1-way slim	CP	•	•	•	•		•			
FDQMA	Ducted compact	CP	•	•	•						
FDUMA	Ducted horizontal	CP				•	•	•	•	•	•
FDURA	Ducted (incl. filter)	CP				•	•	•	•	•	•
FDKA	Wall mounted		•	•	•	•	•	•			
FDEA	Ceiling mounted				•	•	•	•		•	•
FDTWA	Cassette 2-way	CP		•		•	•	•	•	•	•
FDFLA	Floor mounted			•		•		•			
FDFOA	Floor concealed			•		•	•	•			

Enhanced Capital Allowance

The FDCA 140 Inverter Multi is registered on the Energy Technology List and qualifies for 100% tax allowance on the first year, on the total cost of the products and installation costs (including pipework and electrical supply, materials, labour and design costs). (UK only).

