



**ecolution**  
AIR CONDITIONING

# Ceiling Mounted Systems

FDE

Mitsubishi Heavy Industries has further extended its development in world leading technology applied to high efficiency air conditioning and heat pump systems

## FDE Ceiling Mounted Systems

Cooling Range: 4.7 - 14.5kW

Heating Range: 6.3 - 16.5kW



Air conditioners and heat pumps for commercial and residential applications



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The ADVANCED FDE Ceiling Mounted System range is a high specification product, with energy saving INVERTER technology, extended pipe runs and sophisticated operation and service control functions. It is ideal for rooms that do not have a ceiling void for other types of air conditioner.

- 7-Day/24-hr Programmable Timer - included in standard wired controller
- Mitsubishi INVERTER Scroll Compressors are used throughout the range
- Significant savings in running costs
- Up to 50m pipe runs
- Compact Outdoor Units have now been introduced, with lower sound levels and smaller physical size, ideal for installation in restricted locations



## Key Features

- 7-Day Programmable Timer
- Two on/off settings each day
- Different temperatures for each set period
- External timer/BMS switching for Group (up to 16 units)
- Wall Controller - hard wired
- Integral temperature sensor
- Infra-red wireless controller optional
- INVERTER technology on all models
- Low profile attractive white unit casing
- Improved air discharge louvre
- Low ambient control included
- Auto re-start after power interruption
- Reduced sound levels
- Compatible with Multi Systems



RCE3 Wired Controller



Optional 'Wireless' Controller

Energy Saving up to **38%** with **INVERTER Technology**

## Superior Controls Specification

The Mitsubishi RCE3 remote controller 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.

Infra-red wireless controller is available as an option. (Limited control function)

## Ceiling Suspended indoor unit

Now has stylish rounded side panels, and a slimmer profile - only 210mm on smaller models. The FDE can be installed adjacent to a side wall, allowing the pipe connections and electrical wiring to be concealed.

## INVERTER technology

INVERTER systems constantly adjust the cooling/heating output, dependent on the varying room requirement, providing consistent and comfortable temperature control and lower energy costs.

		CEILING MOUNTED						
		FDE 40VN	FDE 50VN	FDE 60VN	FDE 71VN	FDE 100VN*	FDE 125VN*	FDE 140VN*
Power source		1 ph	1 ph	1 ph	1 ph	1 ph*	1 ph*	1 ph*
COOLING (nominal) range	kW	1.8 to 4.7	2.2 to 5.6	2.8 to 6.3	3.2 to 8.0	6.1 to 11.2	6.54 to 14.0	6.7 to 14.5
UK Cooling (max)	kW	4.56	5.43	6.11	7.68	10.36	12.95	13.41
Energy label in cooling		A	A	A	A	A	C	tba
HEATING (nominal) range	kW	2.0 to 5.4	2.5 to 6.3	3.1 to 7.1	3.6 to 9.0	5.6 to 12.5	6.2 to 16.0	6.3 to 16.5
C.O.P.		3.41	3.44	3.58	3.72	3.77	3.54	tba
Energy label in heating		B	B	B	A	A	B	tba
INDOOR UNIT H x W x D	unit (mm)	210 x 1070 x 690	210 x 1070 x 690	210 x 1320 x 690	210 x 1320 x 690	250 x 1620 x 690	250 x 1620 x 690	250 x 1620 x 690
Net weight	kg	30	30	36	36	46	46	46
OUTDOOR UNIT H x W x D	unit (mm)	640 x 871 x 290	640 x 871 x 290	640 x 871 x 290	750 x 968 x 340	845 x 970 x 370	845 x 970 x 370	845 x 970 x 370
Net weight	kg	45	45	45	60	74	74	74
Power Source Rating MCB	A	16A	16A	16A	16A	20A	25A	30A
Ref. max piping length	m	30	30	30	50	50	50	50

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

\*3PH UNITS ALSO AVAILABLE 100, 125 & 140 VS

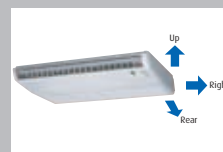
## FDE Series Top Specification High Performance Systems



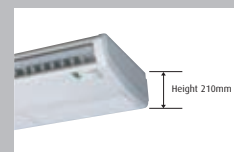
New compact outdoor units (single fan) up to 14/16kW



INVERTER Multi Systems up to 25/28kW



Pipe connection from side, top or rear



Reduced height 210mm on smaller models

Technical features & Accessories