

# Ducted Systems

FDUMVA

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

## FDUMVA Ducted Systems

Cooling Range: 5.6 - 14.5kW

Heating Range: 6.3 - 16.5kW



Air conditioners and heat pumps for commercial and residential applications



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The ADVANCED FDUMVA Horizontal Ducted System is a high specification product, with energy saving INVERTER technology, extended pipe runs and sophisticated operation and service control functions. FDUMVA units are concealed within the ceiling space above the room to be air conditioned, utilising a ductwork system to distribute the air to a series of grilles for maximum comfort.

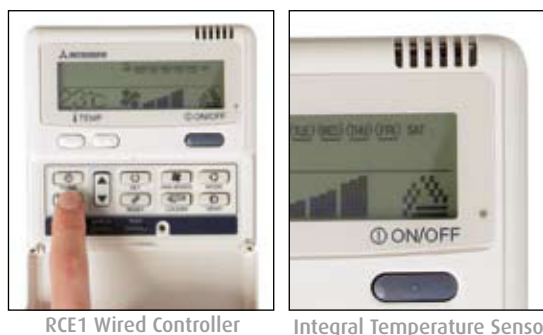
- 7-Day/24-hr Programmable Timer - included in standard wired controller
- Mitsubishi INVERTER Scroll Compressors are used throughout the range
- Significant savings in running costs
- Up to 50m pipe runs
- Compact Outdoor Units have now been introduced, with lower sound levels and smaller physical size,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

# Ducted Systems

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## 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
- INVERTER technology on all models
- Bottom or back return air - interchangeable
- Condensate Lift Pump included
- Low ambient control included
- Auto re-start after power interruption
- Reduced sound levels
- Pre-charged for 30m of pipework
- Compatible with Multi Systems



RCE1 Wired Controller

Integral Temperature Sensor

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

## Superior Controls Specification

The Mitsubishi RCE1 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.

**FDUMVA Ducted** units are of robust construction and are fitted with large diameter fans for optimum air volume. A condensate lift pump is included. Discharge spigots are included (200mm diameter). 2 no. - FDUMA 202, 3 no. - FDUMA 252/302, 4 no. - FDUMA 402/502/602.

**External Static** pressures for standard air flow are listed below. Always refer to manufacturer's fan performance graphs when designing ductwork.

## INVERTER technology

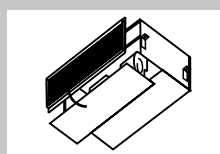
INVERTER systems constantly adjust the cooling/heating output, dependent on the varying room requirement, providing consistent and comfortable temperature control, and lower energy costs.

		DUCTED SYSTEMS					
		FDUMVA 202 HEN	FDUMVA 252 HEN	FDUMVA 302 HEN	FDUMVA 402 HEN	FDUMVA 502 HEN	FDUMVA 602 HEN
Power source		1 ph	1 ph	1 ph	1 ph*	1 ph*	1 ph*
COOLING (nominal) range	kW	2.2 to 5.6	2.8 to 6.3	3.5 to 8.0	6.1 to 11.2	6.2 to 14.0	6.7 to 14.5
UK Cooling (max)	kW	5.43	6.11	7.68	10.36	12.95	13.41
Energy label in cooling		A	A	A	A	B	C
HEATING (nominal) range	kW	2.5 to 6.3	3.1 to 7.1	4.0 to 9.0	6.0 to 12.5	6.2 to 16.0	6.3 to 16.5
C.O.P.		3.42	3.52	3.62	4.00	3.69	3.61
Energy label in heating		B	B	A	A	A	A
INDOOR UNIT H x W x D	unit (mm)	299 x 750 x 635	299 x 950 x 635	299 x 950 x 636	350 x 1370 x 635	350 x 1370 x 636	350 x 1370 x 637
Net weight	kg	34	40	40	59	59	59
Air Volume at 50Pa (standard)	m <sup>3</sup> /s	0.18/0.23	0.23/0.30	0.25/0.33	0.37/0.47	0.45/0.57	0.45/0.57
Maximum external static	Pa	85	85	85	90	85	85
OUTDOOR UNIT H x W x D	unit (mm)	595 x 847 x 290	595 x 847 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	40	40	60	63	63	63
Power Source Rating MCB	A	16A	16A	16A	20A	25A	30A
Ref. max piping length	m	40	40	50	50	50	50

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

\*3PH UNITS ALSO AVAILABLE 402, 502 & 602

## FD-A Series Top Specification High Performance Systems



Technical features & Accessories

New models include 200mm circular duct spigots

Interchangeable Panel - Return air-filter not included

Compact outdoor units

Multi systems, 2, 3, 4 indoor units to one outdoor unit