

# Heating

## Product Information

### HUS210-300FTC4ST

Pre-plumbed Solar Cylinder  
for Ecodan Monobloc Units

Making a  
World of  
Difference



Pre-plumbed space heating and domestic hot water solar solution for Ecodan monobloc air source heat pumps

The optimised pre-plumbed solar cylinder comes complete with integrated hydraulic components and advanced self-learning controls.

Designed to integrate with the Ecodan monobloc air source heat pump range, the pre-plumbed solar cylinder unit provides improved performance with a simple to use graphical interface controller. Fast on site commissioning is now available via a pre-programmed SD card.

#### Key Features

- Includes secondary coil for connection to solar thermal systems
- Simple graphical control
- 2-Zone energy efficient space heating control
- Compatible with Mitsubishi Electric wireless room controllers
- Pre-plumbed and wired for faster installation
- Factory fitted Fernox TF1 filtration system
- Bivalent function, for use with conventional boilers
- SD card commissioning
- Cascade function for multiple unit control



Manufactured in the UK



Air Conditioning | Heating  
Ventilation | Controls



**ecodan**<sup>®</sup>  
Renewable Heating Technology

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#### SELF LEARNING CONTROLLER

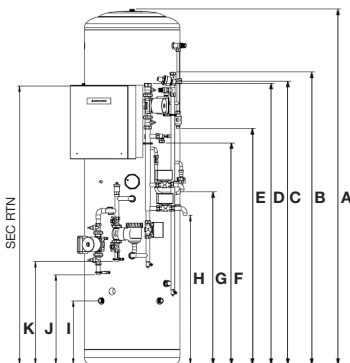


Mitsubishi Electric's fourth-generation controller includes intelligent, self-learning room temperature control as standard. This together with advanced weather compensation ensures the system delivers efficient, comfortable heating regardless of the season.

PRE-PLUMBED CYLINDER UNIT		HUS210FTC4ST	HUS250FTC4ST	HUS300FTC4ST
Nominal Domestic Hot Water Storage Volume (Litres)		210	250	300
Overall Cylinder Dimensions (mm)*	Width	550	550	550
	Depth	550	550	550
	Height	1719	1719	2032
Empty Cylinder Weight (kg)		102.2	108.6	122.2
Unvented Store Expansion Vessel	Nominal Volume (Litres)	19	19	24
	Charge Pressure (Bar)	3.0	3.0	3.0
Control / Relief Valve Pressure Settings	Mains Inlet Pressure Regulator (Bar)	3.0	3.0	3.0
	Expansion Relief Valve (CW) (Bar)	6.0	6.0	6.0
	P & T Valve (Bar / °C)	7.0 / 90	7.0 / 90	7.0 / 90
Backup Immersion Heater Rating (kW)		3	3	3
Insulation Thickness (mm)		50	50	50
Ozone Depletion Potential		0	0	0
Global Warming Potential		< 5	< 5	< 5
Heat Pump Circuit Circulating Pump		UPS2 25-60 130 (2no.)		
DHW Circuit Zone Valve (mm)		22 (1no.)	22 (1no.)	22 (1no.)
CH Circuit Zone Valve (mm)		22 (1no.)	22 (1no.)	22 (1no.)
Control & Overheat Safety Thermostat Temperature Settings	Control Stat (°C)	65	65	65
	Voltage, Hertz	230-240v, 50Hz	230-240v, 50Hz	230-240v, 50Hz
Wireless Room Thermostat		Optional - PAR-WT50-E		
Wireless Receiver		Optional - PAR-WR51-E		

\*Minimum cupboard footprint 750x750mm

#### DIMENSIONS



- A Hot Water Outlet
- B Cold Mains Inlet
- C Balanced Outlet
- D Heat Pump Flow
- E Tundish Outlet
- F Automatic Bypass Valve
- G Heating Zone Valve 1
- H Heating Zone Valve 2
- I Solar Connections
- J Heating Return
- K Heat Pump Flow

Model	HUS210FTC4ST	HUS215FTC4ST	HUS300FTC4ST
A	1729	1729	2042
B	1370	1370	1680
C	1318	1318	1628
D	1516	1516	1516
E	1031	1043	1356
F	1174	1274	1274
G	892	892	892
H	757	757	757
I	366	366	366
J	416	416	416
K	492	492	492

The Domestic Heating Compliance Guide document L1A and L1B provides advice in sizing both cylinder designated solar areas and heat exchangers to the surface area of the solar collectors.

Using this guide Mitsubishi Electric are able to offer the following sizing advice for specification.

Model	DESIGNATED SOLAR VOLUME	HEAT PUMP VOLUME	TOTAL CAPACITY
HUS210FTC4ST	65	145	210
HUS215FTC4ST	90	160	250
HUS300FTC4ST	100	200	300

For further information please refer to the installation manual



Telephone: 01707 282880

email: heating@meuk.mee.com web: heating.mitsubishielectric.co.uk

UNITED KINGDOM Mitsubishi Electric Europe Living Environmental Systems Division  
Travellers Lane, Hatfield, Hertfordshire, AL10 8XB, England General Enquiries Telephone: 01707 282880 Fax: 01707 278881  
IRELAND Mitsubishi Electric Europe Westgate Business Park, Ballymount, Dublin 24, Ireland  
Telephone: Dublin (01) 419 8800 Fax: Dublin (01) 419 8890 International code: (003531)

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