

Domestic Heating

Product Information

Ecodan Air Source Heat Pumps
Kingspan Solar Aerocyl Plus-me Cylinder

Making a
World of
Difference



Designed to meet
the demands of
today's domestic
heating needs

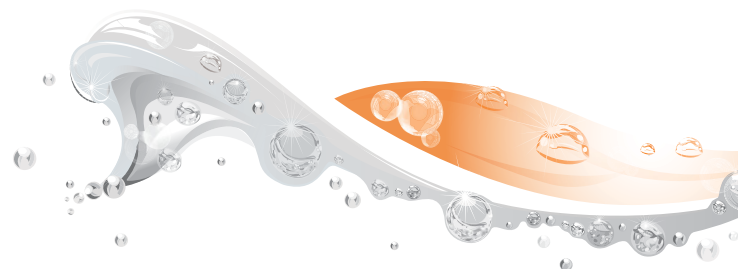
The specially optimised Kingspan Aerocyl Plus-me Solar cylinders work in harmony with the Mitsubishi Electric Ecodan air source heat pump as well as input from a solar thermal panel for extra energy savings. Using the pre-plumbed Kingspan Aerocyl Plus-me Solar cylinder simplifies installation, saving time and money. The range of 3 unvented stainless steel solar and heat pump optimised cylinders provide hot water at pressures perfect for homes of all sizes.

Key Features

- Optimised twin coil for Ecodan air source heat pump and solar thermal input.
- Pre-plumbed and wired for faster installation
- Low heat loss cylinder keeps stored water hotter for longer
- Industry standard end-user controls
- 3kW immersion heater for Legionella prevention cycle
- Single coil heat pump only option available
(see separate product information sheet)



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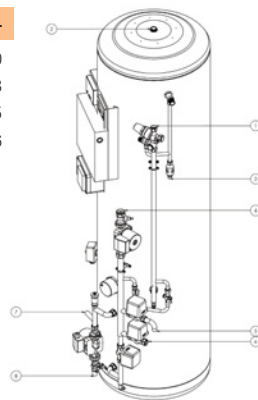
CHECKLIST FOR KINGSPAN SOLAR AEROCYL PLUS-ME

In addition to the pre-plumbed parts the Kingspan Aerocyl Plus-me has several loose parts within the package. Kingspan Aerocyl Plus-me comes complete with all the fittings you need to complete the installation, these components are pictured below:



KINGSPAN SOLAR AEROCYL PLUS-ME CYLINDER		HUS210CPR2ST	HUS250CPR2ST	HUS300CPR2ST
Nominal domestic hot water storage volume (litres)		210	250	300
Overall cylinder dimensions		Height x Width x Depth (mm)		
		1495x550x720	1700x550x720	2050x550x720
Minimum Installation Requirements		1795x750x750	2000x750x750	2350x750x750
Weight (Kg)	(Empty / Full)	60/270	65/315	72/372
	Nominal Volume (litres)	19	19	24
Unvented store expansion vessel	Charge Pressure (bar)	3.0	3.0	3.0
	Mains Inlet Pressure Regulator	12.0 bar	12.0 bar	12.0 bar
	Expansion Relief Valve (CW)	3.0 bar	3.0 bar	3.0 bar
Control / relief valve pressure settings	P & T Valve	7.0 bar & 90°C	7.0 bar & 90°C	7.0 bar & 90°C
	Backup immersion heater rating	3kW	3kW	3kW
Performance Rating of Cylinder Coil: BS 12897 (kW)		28.1	27.4	26.7
Surface Area of Heat Pump Coil (m ²)		3.0	3.0	3.0
Surface Area of Solar Coil (m ²)		0.963	0.963	0.963
Insulation thickness (mm)		50	50	50
Insulation Ozone Depletion Potential (ODP)		ZERO		
Insulation Global Warming Potential (GWP)		1.1		
Heat pump circuit circulating pump		GRUNDFOS UPSO 25-55		
System circulating pump (DHW and zone 1 CH)		GRUNDFOS UPSO 25-55		
DHW circuit zone valve - type HP22 (mm)		22	22	22
CH circuit zone valve - type HP22 (mm)		22	22	22
Control & overheat safety thermostat temperature settings	Control stat	Directly controlled by FTC2 using THS sensor		
	High limit stat	80°C	80°C	80°C
	Voltage	230 - 240v	230 - 240v	230 - 240v
	Electronic immersion time switch	Type - ETU8000		
Room thermostat & receiver (1no)		DANFOSS Type - TP5000Si FR & RX1		
7 day programmer, 24 hour 2 channel timer		DANFOSS Type - FP715Si		
Standing Losses kWh/24hours		1.90	2.21	2.43
Applicable Ecodan Units				
Ecodan PUAZ-W50VHA		✓	✓	
Ecodan PUAZ-W85VHA2		✓	✓	✓
Ecodan PUAZ-HW140VHA2/YHA2		✓	✓	✓

DIMENSIONS	Dimension from base (mm)	210L	250L	300L
	1. Cold Feed	1170	1370	1680
	2. Hot Water Draw Off	1730	1730	2043
	3. Tundish	792	1044	1355
	4. Heat Pump Flow	1516	1516	1616
	5. Heating Flow	892	892	992
	6. Heating Flow	796	796	897
	7. Secondary Heating Flow (Not 150)	779	779	879
	8. Heating Return	455	455	555
	9. Return to Heat Pump	365	365	365



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

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

Model	Designated Solar Volume	Heat Pump Volume	Total Capacity
HUS 210CPR2ST	65	145	210
HUS 250CPR2ST	90	160	250
HUS 300CPR2ST	100	200	300

For further information please refer to technical installation manuals



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Mitsubishi Electric's commitment to the environment



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