

Domestic Heating

Product Information

Ecodan Air Source Heat Pumps
Kingspan Aerocyl Plus-me Cylinder

Making a
World of
Difference



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

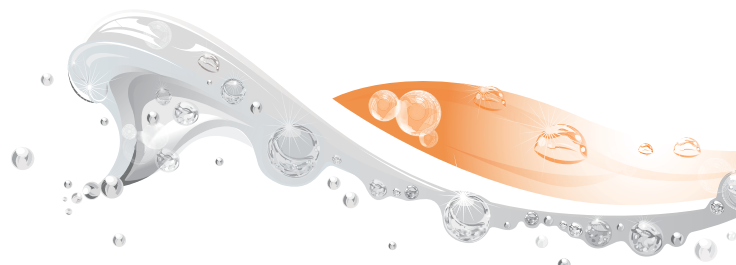
The specially optimised Kingspan Aerocyl Plus-me cylinders work in harmony with the Mitsubishi Electric Ecodan air source heat pump. Using the pre-plumbed Kingspan Aerocyl Plus-me simplifies installation, saving time and money. The range of 5 unvented stainless steel cylinders provides hot water at pressures perfect for homes of all sizes.

Key Features

- Optimised cylinder coil designed for use with an Ecodan air source heat pump
- 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
- Solar twin coil option available (see separate product information sheet)



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CHECKLIST FOR KINGSPAN AEROCYL PLUS-ME CYLINDER

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:



Expansion
Vessel



Room
Thermostat



Danfoss 2
Channel Timer



High Limit
Thermostat



Manuals



Flow Setter
Valve

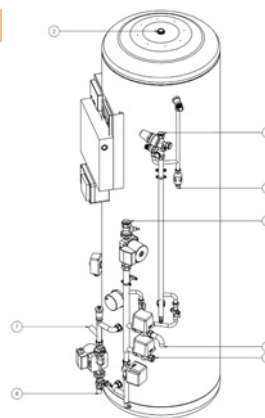


KINGSPAN AEROCYL PLUS-ME CYLINDER		HU150CPR2	HU180CPR2	HU210CPR2	HU250CPR2	HU300CPR2
Nominal domestic hot water storage volume (litres)		150	180	210	250	300
Overall cylinder dimensions Height x Width x Depth (mm)		1410x550x700	1410x550x700	1495x550x720	1700x550x720	2050x550x720
Minimum Installation Requirements		1710x750x750	1710x750x750	1795x750x750	2000x750x750	2350x750x750
Weight (Kg)	(Empty / Full)	48/198	50/230	55/265	60/310	67/367
Unvented store expansion vessel	Nominal Volume (litres)	12	19	19	19	24
	Charge Pressure (bar)	3.0	3.0	3.0	3.0	3.0
	Mains Inlet Pressure Regulator	12.0 bar	12.0 bar	12.0 bar	12.0 bar	12.0 bar
Control / relief valve pressure settings	Expansion Relief Valve (CW)	3.0 bar	3.0 bar	3.0 bar	3.0 bar	3.0 bar
	P & T Valve	7.0 bar & 90°C	7.0 bar & 90°C	7.0 bar & 90°C	7.0 bar & 90°C	7.0 bar & 90°C
Backup immersion heater rating		3kW	3kW	3kW	3kW	3kW
Performance Rating of Cylinder Coil: BS 12897 (kW)		23.2	28.3	28.1	27.4	26.7
Surface Area of Heat Pump Coil (m²)		3.0	3.0	3.0	3.0	3.0
Heat up 15°C to 60°C (80°C flow @ 15 l/m)		19min 12sec	23min 50sec	27min 22sec	34min 16sec	35min 14sec
Heat up 70°C to 60°C (80°C flow @ 15 l/m)		15min 40sec	17min 41sec	19min 18sec	23min 25sec	26min 10sec
Insulation thickness (mm)		50	50	50	50	50
Insulation Ozone Depletion Potential (ODP)		ZERO				
Insulation Global Warming Potential (GWP)		1.1				
Heat pump circuit circulating pump		UPSO 25-40		GRUNDFOS UPSO 25-55		
System circulating pump (DHW and zone 1 CH)		UPSO 25-40		GRUNDFOS UPSO 25-55		
DHW circuit zone valve - type HP22 (mm)		22	22	22	22	22
CH circuit zone valve - type HP22 (mm)		22	22	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	80°C	80°C
	Voltage	230 - 240v	230 - 240v	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		1.38	1.63	1.90	2.21	2.43

Applicable Ecodan Units

Ecodan PUHZ-W50VHA	✓	✓			
Ecodan PUHZ-W85VHA2	✓	✓	✓		
Ecodan PUHZ-HW140VHA2/YHA2			✓	✓	✓

DIMENSIONS	Dimension from base (mm)	150L	180L	210L	250L	300L
	1. Cold Feed	915	915	1105	1365	1685
	2. Hot Water Draw Off	1290	1290	1479	1729	2042
	3. Tundish	416	604	792	1042	1355
	4. Heat Pump Flow	1151	1151	1151	1151	1151
	5. Heating Flow	567	567	567	567	567
	6. Secondary Heating Flow (Not 150)	N/A	590	665	665	665
	7. Heating Return	414	414	414	414	414
	8. Return to Heat Pump	90	90	90	90	90



For further information
please refer to technical
installation manuals



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Mitsubishi Electric's commitment
to the environment

