

Zeroth Apartment Heat Pump with integrated cylinder

4 and 6 KW Heating only models

The Zeroth Heat Pump comes in two sizes, 4kW and 6kW. The integrated cylinder is made from Stainless Steel with a Heat Pump mounted underneath, in a removable module, which includes an inbuilt heating system circulation pump and either an inbuilt PIC valve or circulation pump/two port valve for the energy loop (varies on model type). The outer casing is made from painted white steel formed around a rigid frame, with adjustable feet. The heat pump can produce heating or hot water very efficiently as it extracts energy from an energy loop at 25 degrees. The end user controls are mounted flush on the front and all pipework and cable entries are on the top of the unit, except for a drain hose (connected at the back) and the discharge which can be piped left or right. through the knockout.



Provides DHW and heating for new build dwellings

Compact unit with 550mm x 560mm footprint, ideal for integrated kitchen or cupboard installation

Stainless steel tank with no requirement for sacrificial anode.

Very quiet operation due to free swinging compressor base plate, inverter compressor, variable speed pumps, acoustic insulation and flexible pipework connections.

Use with an energy loop reduces overheating risk and improves building energy performance

Prewired and Pre-plumbed, simplifying the installation

Available with inbuilt source pump and 2 port valve or PIC valve.

2 year manufacturers guarantee, which can be extended to 5 years.

		ZHP4H-180	ZHP6H-180
Operating Limits			
Heating water temperature (min/max)	°C	20/55	20/55
Energy loop temperature	°C	25	25
Performance data / Flow rates			
Heating output / CoP @ S25/W35	kW/CoP	4.0 / 9.3	6.4 / 8.4
Heating output / CoP @ S25/W55	kW/CoP	4.6 / 4.3	6.0 / 4.1
Heating output / CoP @ S20/W35	kW/CoP	4.2 / 8.0	6.2 / 7.2
Heating output / CoP @ S20/W55	kW/CoP	4.2 / 3.9	6.0 / 3.8
Heating output / CoP @ S15/W35	kW/CoP	4.1 / 6.5	6.2 / 6.0
Heating output / CoP @ S15/W55	kW/CoP	4.1 / 3.5	6.1 / 3.5
Minimum heating water flow rate (5K ΔT)	l/s	0.19	0.29
Required buffer volume	l	25	25
Available pump head @ nominal flow rate	kPa	54	35.5
Source data / flow rates			
Required capacity from loop @ S25/W35	kW	3.6	5.6
Minimum flow rate from loop (5K ΔT)	l/s	0.17	0.25
Maximum static pressure rating	Bar	10	10
Dimensions, Weights and Filling quantities			
Dimensions (w) x (d) x (h)	mm	550 x 560 x 2000	
Filled weight /weight without packaging (empty)	kg	353 / 178	
Loop / heating connections	mm	22 copper stub	
Drain discharge (19mm clear hose)	mm	1.5m length supplied loose	
Discharge (G3 T and P Valve)	mm	½" F BSP	
CWM inlet / DHW outlet connections	mm	22 copper stub	
IP rating		IPX4	
Expansion vessel (heating)	Litre	8	8
Refrigerant	Type/kg	R410A/1.05	R410A/1.05
Sound power level @ stand. rating condition	dB(A)	34	36
Noise rating	NR	35	35
Electrical connections			
Nominal Voltage/Phase/Frequency	V/P/Hz	230/1/50	230/1/50
Nominal power consumption @ S25/W35	kW	0.43	0.76
Maximum power consumption @ S25/W55	kW	1.06	1.46
Power Factor @ S25/W35	PF	0.98	0.98
Fuse protection (HP Module)	Rating	C 16A	
Immersion rating (cylinder)	kW	2.0	
Fuse protection (immersion)	Rating	B 10A	
Number of electrical supplies		2	
Hot water cylinder			
Type		Unvented	
Material / Insulation		Stainless Steel / EPS Foam	
T&P valve rating		7 Bar or 90°C	
Maximum water inlet pressure	bar	6	
Storage volume	L	172	
Mixed water at 40°C V40	L	709	
Declared ErP load profile		XXL	
Integrated electric immersion rating	kW	2.0	
Maximum temperature with immersion	°C	60	
Water regulations		G3 KIWA approval to EN12897	
T&P valve		Factory fitted	
Standing heat loss EN12897-2016 (KIWA)	kWh/24	1.97	
Standing heat loss EN15332-2007 (SAP)	kWh/24	1.63	
Cylinder heat up time (from 10 to 60°C)	hrs	2.75	2.0
Accessories Supplied Loose		Tundish, discharge pipework, 1.5m hose, adjustable feet	

Zeroth Apartment Heat Pump with integrated cylinder

4 and 6 KW Heating & Cooling models

The Zeroth Heat Pump comes in two sizes, 4kW and 6kW. The integrated cylinder is made from Stainless Steel with a Heat Pump mounted underneath, in a removable module which includes an inbuilt heating system circulation pump and either an inbuilt PIC valve or circulation pump/two port valve for the energy loop (varies on model type). The outer casing is made from painted white steel formed around a rigid frame, with adjustable feet. The heat pump can produce heating, cooling or hot water very efficiently as it extracts energy from an energy loop at 25 degrees. The end user controls are mounted flush on the front and all pipework and cable entries are on the top of the unit, except for a drain hose (connected at the back) and the discharge which can be piped left or right, through the knockout.



Provides DHW, heating and cooling for new build dwellings

Energy recovery features as standard by utilising simultaneous cooling and DHW

Compact unit with 550mm x 560mm footprint, ideal for integrated kitchen or cupboard installation

Stainless steel tank with no requirement for sacrificial anode.

Very quiet operation due to free swinging compressor base plate, inverter compressor, variable speed pumps, acoustic insulation and flexible pipework connections.

Use with an energy loop reduces overheating risk and improves building energy performance

Prewired and Pre-plumbed, simplifying the installation

Available with inbuilt source pump and 2 port valve or Cartridge PIC valve.

2 year manufacturers guarantee, which can be extended to 5 years.

		ZHP4C-180	ZHP6C-180
Operating Limits			
Heating water temperature (min/max)	°C	20/55	20/55
Cooling water temperature (min/max)	°C	8/25	8/25
Energy Loop Temperature	°C	25	25
Performance data / Flow rates			
Heating output / CoP @ S25/W35	kW/CoP	4.0 / 9.3	6.4 / 8.4
Heating output / CoP @ S25/W55	kW/CoP	4.6 / 4.3	6.0 / 4.1
Heating output / CoP @ S20/W35	kW/CoP	4.2 / 8.0	6.2 / 7.2
Heating output / CoP @ S20/W55	kW/CoP	4.2 / 3.9	6.0 / 3.8
Heating output / CoP @ S15/W35	kW/CoP	4.1 / 6.5	6.2 / 6.0
Heating output / CoP @ S15/W55	kW/CoP	4.1 / 3.5	6.1 / 3.5
Cooling output/EER @ S25/W10	kW/EER	4.0 / 5.1	4.4 / 5.1
Minimum heating/cooling water flow rate (5K ΔT)	l/s	0.19	0.29
Required buffer volume	l	25	25
Available pump head @ nominal flow rate	kPa	54	35.5
Source data / flow rates			
Required capacity from loop (heat) @ S25/W35	kW	3.6	5.6
Required capacity from loop (cool) @ S25/W10	kW	4.8	5.3
Minimum flow rate from loop (5K ΔT)	l/s	0.17	0.25
Maximum static pressure rating	Bar	10	10
Dimensions, Weights and Filling quantities			
Dimensions (w) x (d) x (h)	mm	550 x 560 x 2000	
Filled weight / Weight without packaging (empty)	kg	353 / 178	
Loop / Heating & Cooling connections	mm	22 copper stub	
Drain discharge (19mm clear hose)	mm	1.5m length supplied loose	
Discharge (G3 T and P Valve)	mm	½" F BSP	
CWM inlet / DHW outlet connections	mm	22 copper stub	
IP rating		IPX4	
Expansion vessel (heating)	Litre	8	8
Refrigerant	Type/kg	R410A/1.05	R410A/1.05
Sound power level @ stand. rating condition	dB(A)	34	36
Noise rating	NR	35	35
Electrical connections			
Nominal Voltage / Phase / Frequency	V/P/Hz	230/1/50	230/1/50
Nominal power consumption @ S25/W35	kW	0.43	0.76
Maximum power consumption @ S25/W55	kW	1.06	1.46
Power Factor @ S25/W35	PF	0.98	0.98
Fuse protection (HP Module)	Rating	C 16A	
Immersion rating (cylinder)	kW	2.0	
Fuse protection (immersion)	Rating	B 10A	
Number of electrical supplies		2	
Hot water cylinder			
Type		Unvented	
Material /Insulation		Stainless Steel / EPS Foam	
T&P valve rating		7 Bar or 90°C	
Maximum water inlet pressure	bar	6	
Capacity	L	172	
Mixed water at 40°C V40	L	709	
Declared ErP load profile		XXL	
Integrated electric immersion		2.0	
Maximum temperature with immersion	°C	60	
Water regulations		G3 KIWA approval to EN12897	
T&P valve		Factory fitted	
Standing heat loss EN12897-2016 (KIWA)	kWh/24	1.97	
Standing heat loss EN15332-2007 (SAP)	kWh/24	1.63	
Cylinder heat up time (from 10 to 60°C)	hrs	2.75	2.0
Accessories Supplied Loose		Tundish, discharge pipework, 1.5m hose, adjustable feet	