



Features

Duplex stainless steel cylinder with large heat pump coil
60mm PU foam insulation for low standing heat losses
Over 60% in volume from recycled material
Surface mounted sensor devices for compatibility and ease of maintenance
Compatible with extensive Dimplex heat pump range
PU-insulation with GWP < 1 and ODP = 0
KIWA approved (water and building regulations)

Scope of delivery

Cylinder with one immersion	300 l
T+P valve	1/2", 7bar/90°C
Inlet group	PRV 3bar, ERV 6bar
2 port valve	-
Expansion vessel with fixing kit and connection hose	24 l
Tundish	15mm/22mm
Installation & User manual	✓
Terms and conditions	✓

Technical data: CONNECTION SIZES

Indirect coil	- mm
Heat pump coil	28 mm
Solar coil	- mm
Inlet/outlet pipe	22 mm
Secondary return	1/2" F BSP
T+P Valve	1/2" F BSP
Immersion heater	1 3/4" F BSP
Heating buffer	- mm

Technical data: RE-HEAT TIMES

Primary re-heat time ⁽¹⁾	20 mins
Aux. re-heat time ⁽¹⁾	-

Technical data: HEAT LOSS

Maximum standing heat loss ^(y)	1.9 kW/24h
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Technical data: VOLUME

Nominal volume	291.5 l
Primary hot water capacity ⁽¹⁾	267 l
Aux hot water capacity ⁽¹⁾	-
Indirect coil volume	-
Indirect coil heatable volume	-
Heat pump coil volume	10.5 l
Heat pump coil heatable volume	300 l
Solar coil volume	-
Dedicated solar storage vol. (KIWA) ⁽²⁾ nominal	-
Heating buffer volume	-
Expansion vessel volume	24 l
Minimum mains flow rate	15 l/min

(1) Determined in accordance with EN12897-2006

(2) Determined in accordance with KIWA document for unvented hot water storage cylinders to the requirements of the UK building regulations, Annex D

(3) All the dimensions are taken from the base of the cylinder to the centreline on the component

^(y) Heat loss figure calculated based on measured surface temperatures. Indicative only.

⁽⁺⁾ Calculated value

^(**) Calculated - based on measurements

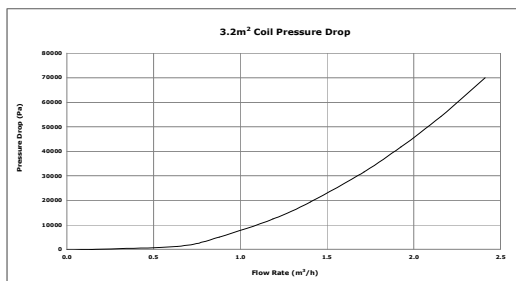
Cross-sectional drawing



Technical data: DIMENSIONS

Height ⁽³⁾	2080 mm		
Diameter	580 mm		
Tilt height	2160 mm		
Weight (empty)	53 kg		
CW Inlet ⁽³⁾	190 mm		
Secondary return ⁽³⁾	1255 mm		
HW Outlet ⁽³⁾	1850 mm		
T&P valve ⁽³⁾	1850 mm		
HP Buffer Immersion ⁽³⁾	- mm		
Btm. Immersion ⁽³⁾	Top Immersion ⁽³⁾	208 mm	- mm
HP return ⁽³⁾	HP flow ⁽³⁾	190 mm	930 mm
HP buffer return ⁽³⁾	HP buffer flow ⁽³⁾	- mm	- mm
Btm. Thermostat ⁽³⁾	Top Thermostat ⁽³⁾	1020 mm	- mm
ST return ⁽³⁾	ST flow ⁽³⁾	- mm	- mm
Indirect return ⁽³⁾	Indirect flow ⁽³⁾	- mm	- mm

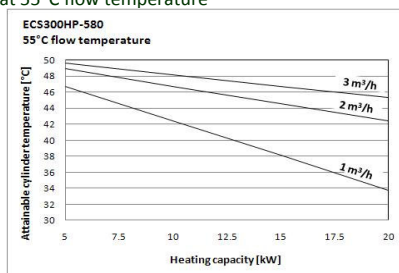
Pressure drop diagram of cylinder and coils



Technical data: COILS and Immersions

Indirect coil surface area	-m²
Indirect coil rating ⁽¹⁾	-kW
Indirect coil flow rate ⁽¹⁾	-l/min
Heat pump coil surface area	3.2 m²
Heat pump coil rating ⁽¹⁾	43 kW
Heat pump coil flow rate ⁽¹⁾	0.42 l/s
Solar coil surface area	-m²
Solar coil rating ⁽¹⁾	-kW
Solar coil flow rate ⁽¹⁾	-l/min
Immersion rating	2.7/3.0 kW at 230/240 VAC

Attainable cylinder temperature as a function of heat pump output, flow rate at 55°C flow temperature



Technical data: PRESSURE

Max. sply. Pres. at red. valve	12 bar
Pressure reducing valve setting	3 bar
Press. relief valve opening pres.	6 bar
T&P valve opening pres.	7 bar
Pre-charge expansion vessel	min 2 bar
Min. mains dynamic pres.	1.5 bar
Max. operating pres. cylinder	3 bar
Max. design pres. cylinder	12 bar
Max. op. pres. indirect coil	- bar
Max. op. pres. heat pump coil	3 bar
Max. op. pres. solar coil	- bar
Max. op. pres. buffer	- bar

Attainable cylinder temperature as a function of heat pump output, flow rate at 65°C flow temperature

