

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	210 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	19 l
Tundish	15mm/22mm
Installation & User manual	✓
Terms and conditions	✓

Technical data: VOLUME	
Nominal volume	199 l
Primary hot water capacity ⁽¹⁾	180 l
Aux hot water capacity ⁽¹⁾	-
Indirect coil volume	-
Indirect coil heatable volume	-
Heat pump coil volume	9.85 l
Heat pump coil heatable volume	210 l
Solar coil volume	-
Dedicated solar storage vol. (KIWA) ⁽²⁾ nominal	-
Heating buffer volume	-
Expansion vessel volume	19 l
Minimum mains flow rate	15 l/min

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 ⁽³⁾	12 mins
Aux. re-heat time ⁽¹⁾	-

Technical data: HEAT LOSS	
Maximum standing heat loss	1.41 kWh/24h

(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

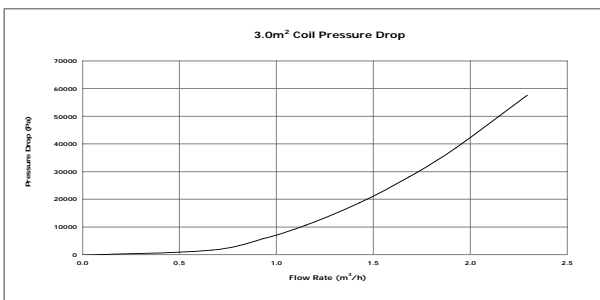
Cross-sectional drawing



Technical data: DIMENSIONS

Height ⁽³⁾	1505 mm		
Height (packaged) ⁽³⁾	1804 mm		
Diameter	580 mm		
Diameter (packaged)	587 mm		
Tilt height	1612 mm		
Weight (empty)	42 kg		
Weight (packaged)	53 kg		
CW Inlet ⁽³⁾	190 mm		
Secondary return ⁽³⁾	967 mm		
HW Outlet ⁽³⁾	1275 mm		
T&P valve ⁽³⁾	1275 mm		
HP Buffer Immersion ⁽³⁾	- mm		
Btm. Immersion ⁽³⁾	Top Immersion ⁽³⁾	208 mm	- mm
HP return ⁽³⁾	HP flow ⁽³⁾	190 mm	895 mm
HP buffer return ⁽³⁾	HP buffer flow ⁽³⁾	- mm	- mm
Btm. Thermostat ⁽³⁾	Top Thermostat ⁽³⁾	732 mm	- mm
ST return ⁽³⁾	ST flow ⁽³⁾	- mm	- mm
Indirect return ⁽³⁾	Indirect flow ⁽³⁾	- mm	- mm

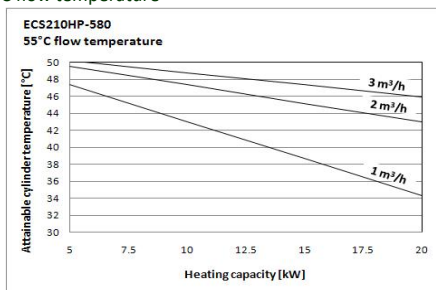
Pressure drop diagram of cylinder and coils



Technical data: COILS and Immersions

Indirect coil surface area	-m ²
Indirect coil HX performance ⁽¹⁾	-kW
Indirect coil flow rate ⁽¹⁾	-l/min
Heat pump coil surface area	3.0 m ²
Heat pump coil HX performance ⁽¹⁾	47 kW
Heat pump coil flow rate ⁽¹⁾	0.41 l/s
Solar coil surface area	-m ²
Solar coil HX performance ⁽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
Operating pres. cylinder	3 bar
Max. design pres. cylinder	6 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

