

indirect single coil cylinder



- 316 stainless steel
- High density polyurethane foam insulation
- Plastic coated galvanised steel case
- PED compliant
- Suitable for vented or unvented systems
- Immersion heaters sold separately
- Inlet safety group, temperature and pressure relief valve and expansion vessel sold separately, if being used on an unvented system

GENERAL DATA

Max working pressure	3 bar
Design pressure	3 bar
Test pressure	9 bar
Design temperature	0-95°C

Hycore Lite indirect single coil cylinder

ORDER CODE	HCL170	HCL200	HCL250	HCL300	HCL400	HCL500
Nominal Capacity	170 litre	200 litre	250 litre	300 litre	400 litre	500 litre
Height	1279mm	1468 mm	1718 mm	1757 mm	1507 mm	1864 mm
Diameter	552 mm	552 mm	552 mm	602 mm	702 mm	702 mm
Primary Duty	16.5 kW	16.5 kW	25 kW	25 kW	32 kW	46 kW
Primary Flow Temp	80°C	80°C	80°C	80°C	80°C	80°C
Primary Return Temp	60°C	60°C	60°C	60°C	60°C	60°C
Req. Primary Flow Rate	20 l/min	20 l/min	20 l/min	20 l/min	20 l/min	20 l/min
Cold Feed & Hot Draw-off Connections	22 mm	22 mm	28 mm	28 mm	1¼"	1¼"
Primary Connections	22 mm	22 mm	28 mm	28 mm	28 mm	28 mm
Secondary Return Connection	22 mm	22 mm	22 mm	22 mm	1"	1"
Heat Exchanger Pressure Drop (kPa)	9.04	10.81	11.70	11.70	7.23	11.02
Cylinder Recovery Time from 10C to 60C	36 min	42 min	35 min	42 min	44 min	38 min
Weight Empty	55 Kg	62 Kg	74 Kg	95 Kg	108 Kg	131 Kg
Weight Full	225 Kg	262 Kg	324 Kg	395 Kg	508 Kg	631 Kg
Standing Heat Loss at 60C (kWh/24hrs)	0.96	1.08	1.25	1.43	1.55	1.85
Immersion Heater Connections	2 x 1¾"	2 x 1¾"	2 x 1¾"	2 x 1¾"	2 x 1¾"	2 x 1¾"
No Of Thermostat Pockets	2 x ½"	2 x ½"	2 x ½"	2 x ½"	2 x ½"	2 x ½"
T&P Connection (if unvented)	½"	½"	¾"	¾"	1"	1"

indirect single coil cylinder

- 316 stainless steel
- High density polyurethane foam insulation
- Plastic coated galvanised steel outer case
- PED compliant
- Suitable for vented or unvented systems
- Immersion heaters sold separately
- Inlet safety group, temperature and pressure relief valve and expansion vessel sold separately, if being used on an unvented system

GENERAL DATA	
Max working pressure	6 bar
Design pressure	6.7 bar
Test pressure	10.05 bar
Design temperature	0-95°C



Hycore indirect single coil cylinder

ORDER CODE	HC160	HC200	HC300	HC400	HC500	HC750	HC1000
Nominal Capacity	160 litre	200 litre	300 litre	400 litre	500 litre	750 litre	1000 litre
Height	1157 mm	1468 mm	1757 mm	1577 mm	1864 mm	1853 mm	1884 mm
Diameter	552 mm	552 mm	602 mm	702 mm	702 mm	852 mm	1002 mm
Primary Duty	25 kW	32 kW	46 kW	56 kW	64 kW	72 kW	80 kW
Primary Flow Temp	80°C	80°C	80°C	80°C	64°C	72°C	80°C
Primary Return Temp	60°C	60°C	60°C	60°C	60°C	60°C	60°C
Req. Primary Flow Rate	19.05 l/min	23.15 l/min	32.89 l/min	39.68 l/min	46.3 l/min	45.96 l/min	45.79 l/min
Cold Feed & Hot Draw-off Connections	1"	1"	1"	1¼"	1½"	2"	2"
Primary Connections	28 mm	28 mm	1¼"	1¼"	1¼"	1¼"	1¼"
Secondary Return Connection	22 mm	22 mm	22 mm	1"	1"	1½"	1½"
Heat Exchanger Pressure Drop (kPa)	2.17 kPa	3.98 kPa	4.01 kPa	4.46 kPa	7.85 kPa	7.79 kPa	7.76 kPa
Cylinder Recovery Time from 10C to 60C	21 min	22 min	23 min	25 min	27 min	36 min	44 min
Weight Empty	55 kg	66 kg	102 kg	120 kg	147 kg	213 kg	284 kg
Weight Full	215 kg	266 kg	402 kg	520 kg	647 kg	963 kg	1284 kg
Standing Heat Loss at 60C (kWh/24hrs)	0.96	1.08	1.43	1.67	1.85	2.4	2.88
Immersion Heater Connections	2 x 1¼"	2 x 1¼"	2 x 1¼"	2 x 1¼"	2 x 1¼"	2 x 1¼"	2 x 1¼"
No Of Thermostat Pockets	2 x ½"	2 x ½"	2 x ½"	2 x ½"	2 x ½"	2 x ½"	2 x ½"
T&P Connection (if unvented)	¾"	1"	1"	1¼"	1¼"	1¼"	1¼"

indirect twin cylinders



- 316 stainless steel
- High density polyurethane foam insulation
- High quality plastic coated galvanised steel outer case
- PED compliant
- Manufactured in the UK
- Suitable for vented or unvented systems
- Immersion heaters sold separately
- Inlet safety group, temperature and pressure relief valve and expansion vessel sold separately, if being used on an unvented system

GENERAL DATA	
Max working pressure	6 bar
Design pressure	6.7 bar
Test pressure	10.05 bar
Design temperature	0-95°C

Hycore indirect twin coil cylinder

	HCT300	HCT400	HCT500	HCT750	HCT1000
Nominal Capacity	300 litre	400 litre	500 litre	750 litre	1000 litre
Height	1757 mm	1577 mm	1864 mm	1853 mm	1884 mm
Diameter	602 mm	702 mm	702 mm	852 mm	1002 mm
Primary Duty Coil 1	46 kW	56 kW	65 kW	64 kW	64 kW
Primary Duty Coil 2	14 kW	14 kW	14 kW	14 kW	14 kW
Primary Flow Temp	80°C	80°C	80°C	80°C	80°C
Primary Return Temp	60°C	60°C	60°C	60°C	60°C
Req. Primary Flow Rate	32.89 l/min	39.68 l/min	46.3 l/min	45.96 l/min	45.79 l/min
Cold Feed & Hot Draw-off Connections	1"	1¼"	2"	2"	2"
Primary Connections Coil 1	1¼"	1¼"	1¼"	1¼"	1¼"
Primary Connections Coil 2	22 mm	22 mm	22 mm	22 mm	22 mm
Secondary Return Connection	22 mm	28 mm	1½"	1½"	1½"
Heat Exchanger Pressure Drop (kPa) Coil 1	4.01 kPa	4.46 kPa	7.85 kPa	7.79 kPa	7.76 kPa
Heat Exchanger Pressure Drop (kPa) Coil 2	2.00 kPa	1.83 kPa	3.86 kPa	3.89 kPa	3.88 kPa
Cylinder Recovery Time from 10C to 60C	18 min	20 min	22 min	30 min	37 min
Weight Empty	102 kg	108 kg	148 kg	214 kg	285 kg
Weight Full	402 kg	508 kg	648 kg	964 kg	1285 kg
Standing Heat Loss at 60C (kWh/24hrs)	1.43	1.55	1.85	2.4	2.88
Immersion Heater Connections	2 x 1¼"	2 x 1¼"	2 x 1¼"	2 x 1¼"	2 x 1¼"
No Of Thermostat Pockets	2 x ½"	2 x ½"	2 x ½"	2 x ½"	2 x ½"
T&P Connection (if unvented)	1¼"	1¼"	1¼"	1½"	1½"

Hycore Lite unvented combination valve

ORDER CODE	TYPE
HCG22S	Standard flow 22 mm
HCG22H	High flow 22 mm
HCG28H	High flow 28 mm

- 3 bar pressure reducing valve
- 6 bar safety valve
- Balanced hot & cold outlet
- Expansion vessel connection
- For use with Hycore Lite cylinders



Hycore unvented inlet group

ORDER CODE	SIZE
HCG1	1"
HCG114	1¼"
HCG112	1½"
HCG2	2"

- Adjustable pressure reducing valve
- Spring check valve
- 7 Bar safety valve
- For use with Hycore single & twin coil cylinders or buffers



Hycore unvented immersion heater

ORDER CODE	SIZE	KW
UIH3	1¾" x 14"	3 kW
UIH6	1¾" x 16", 1 Ph	6 kW
UIH9	1¾" x 16", 3 Ph	9 kW

- Durable incoloy construction
- Dual function thermostat with cut out
- Supplied with O ring for secure installation
- Maintains consistent water temperatures
- Suitable for all Hycore cylinder & buffer range



immersion heater plug

ORDER CODE	SIZE
IPH134	1¾"
IPH214	2¼"



stainless steel buffer vessels



- 316 stainless steel
- High density polyurethane foam insulation 50 mm thickness
- Plastic coated galvanised steel case
- PED compliant
- Manufactured in the UK
- Suitable for vented or unvented systems
- Immersion heaters sold separately
- Inlet safety group, temperature and pressure relief valve and expansion vessel sold separately, if being used on an unvented system

GENERAL DATA	
Max working pressure	6 bar
Design pressure	6.7 bar
Test pressure	10.05 bar
Design temperature	0-95°C

Hycore stainless steel buffer vessels

ORDER CODE	HCSB300	HCSB400	HCSB500	HCSB750	HCSB1000
Nominal Capacity	300 litre	400 litre	500 litre	750 litre	1000 litre
Height	1757 mm	1507 mm	1864 mm	1853 mm	1884 mm
Diameter	602 mm	702 mm	702 mm	852 mm	1002 mm
Weight Empty	91 kg	103 kg	125 kg	193 kg	261 kg
Weight Full	391 kg	503 kg	625 kg	943 kg	1261 kg
System Connections	7 x 1¼"	7 x 1½"	7 x 2"	7 x 2½"	7 x 2½"
Immersion Heater Connections	2 x 1¾"	2 x 1¾"	2 x 1¾"	2 x 1¾"	2 x 1¾"
No Of Thermostat Pockets	2 x ½"	2 x ½"	2 x ½"	2 x ½"	2 x ½"
T&P Connection (if unvented)	1¼"	1½"	2"	2½"	2½"

Note: The temperature & pressure safety valve (T&P) is sized according to the KW's heating the buffer - not the connection size on the buffer. If the KW's heating the buffer requires a safety valve larger than the T&P connection size, then one of the system connections can be used for an additional T&P valve. If on a vented system, the T&P connection can be used as an additional system connection.

mild steel buffer vessels

- Mild steel
- High density polyurethane foam insulation
- Plastic coated galvanised steel case
- Designed according to 2009/125/CE directive
- Energy efficiency class C

GENERAL DATA	
Max working pressure	6 bar
Design pressure	6.7 bar
Test pressure	10.05 bar
Design temperature	0-95°C



Hycore mild steel buffer vessels

ORDER CODE	HCB500	HCB800	HCB1000	HCB1500	HCB2000
Nominal Capacity	501 litre	788 litre	1034 litre	1432 litre	1970 litre
Height	1857 mm	1963 mm	1884 mm	1866 mm	2010 mm
Diameter	702 mm	852 mm	1002 mm	1202 mm	1302 mm
Weight Empty	136 kg	201 kg	256 kg	331 kg	400 kg
Weight Full	636 kg	1001 kg	1256 kg	1831 kg	2400 kg
System Connections	4 x 3"	4 x 3"	4 x 3"	4 x 3"	4 x 3"
AAV & Drain Off Connection	1¼"	1¼"	1½"	2"	2"
No Of Thermostat Pockets	5 x ½"	5 x ½"	5 x ½"	5 x ½"	5 x ½"

ORDER CODE	HCB2500	HCB3000	HCB4000	HCB5000
Nominal Capacity	2500 litre	3000 litre	4000 litre	5000 litre
Height	2540 mm	2980 mm	2634 mm	2422 mm
Diameter	1302 mm	1302 mm	1602 mm	1902 mm
Weight Empty	496 kg	570 kg	726 kg	1008 kg
Weight Full	2996 kg	3570 kg	4726 kg	6008 kg
System Connections	4 x 4" PN16	4 x 4" PN16	4 x 4" PN16	4 x 4" PN16
AAV & Drain Off Connection	2"	2"	2"	2"
No Of Thermostat Pockets	5 x ½"	5 x ½"	5 x ½"	5 x ½"

mild steel buffer vessels



- Mild steel
- High density polyurethane foam insulation
- Plastic coated galvanised steel case
- Designed according to 2009/125/CE directive
- Energy efficiency class C

GENERAL DATA

Max working pressure	4 bar
Design pressure	4,7 bar
Test pressure	7,05 bar
Design temperature	0-95°C

Hycore Lite mild steel buffer vessels

ORDER CODE	HCB25	HCB50	HCB100	HCB200	HCB300
Nominal Capacity	25 litre	50 litre	100 litre	200 litre	300 litre
Height	602 mm	809 mm	937 mm	1277 mm	1757 mm
Diameter	402 mm	402 mm	477 mm	552 mm	602 mm
Weight Empty	16 kg	19 kg	32 kg	51 kg	91 kg
Weight Full	41 kg	69 kg	132 kg	251 kg	391 kg
System Connections	4 x 1¼"	4 x 1¼"	4 x 1¼"	4 x 1¼"	1¼"
AAV & Drain Off Connection	½"	½"	½"	½"	½"
T&P Connection (if unvented)	½"	½"	½"	½"	½"
Immersion Heater Connection	1 x 1¾"	1 x 1¾"	1 x 1¾"	1 x 1¾"	1 x 1¾"
No Of Thermostat Pockets	2 x ½"	2 x ½"	2 x ½"	2 x ½"	2 x ½"