

UK



OSO HOTWATER

**WATER HEATERS
2020**



THINK FUTURE

WHAT WE OFFER

Quality

For more than 50 years we've perfected the stainless steel water heater. The ideal combination of premium materials, automated manufacturing, and intelligent solutions make our products last longer. OSO Hotwater use a unique spiral weld in the construction of our cylinders . The cylinder body is made from a roll of stainless steel using a continuous weld within a controlled atmosphere, to maximise production quality and efficiency. Individual cylinder bodies are then laser cut to size for each cylinder capacity, before the end caps are welded on to complete the finished pressure vessel

Efficiency

We design for minimum heat loss and maximum energy efficiency, without compromise, making your heating system cost-efficient.

Warranty

You can be confident that we stand behind our products. That's why we offer a 25 year warranty on the stainless tank*.

*Conditions apply



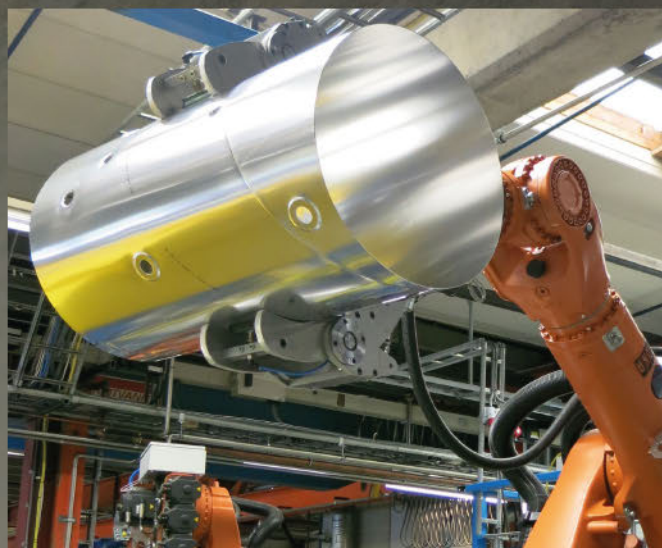
The water heating company.



Stainless steel spiral welded tubes waiting to be laser cut into different sized cylinders



Stainless steel roll feeding spiral weld



THINK FUTURE

KEY ADVANTAGES

Our stainless steel water heaters are in a class of their own when it comes to lifetime economy. Made in Norway by the family business OSO Hotwater since 1932.



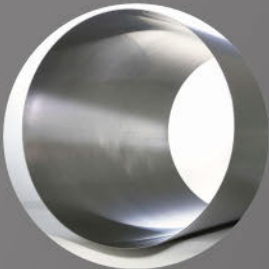
MORE HOT WATER

Substantially higher temperature storage (70°C+), very efficient mixing valve (no scalding), minimal heat loss and optimal design features provide up to 20 % more hot water and class leading capacity from our SX VIP range of cylinders.



PRO INSULATION

The use of NANOPUR™ with insulation values far surpassing Pentane, often in combination with VACUUM panels, ensures minimum heat loss and market leading energy efficiency.



STRONGER AND LIGHTER

EVERLAST™ titanium alloyed stainless steel in combination with OSO's unique ULTRAWEELD™ system and state-of-the-art passivation process equals excellent corrosion resistance, and are 40% lighter than enamelled products



BUILT TO LAST

INCOTEC™ electric immersion heaters with ultra high-grade Incoloy 825 stainless, DZR brass, zinc-free soldering and optimized calculations for surface loads result in maximum durability in hard water installations.



GREENER

Thanks to the loyalty of our customers, OSO has developed a synergy for the mass production of water heaters and protection of the environment. Products with an extremely long life cycle and the lowest heat loss of any storage tanks on the market is our biggest contribution to the environment, along with a production system producing zero emissions and no toxic waste. Love and care for nature is the basis for our engagement in protecting the environment, our objective is the same as 50 years ago: PROTECT OUR BEAUTIFUL PLANET.

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MADE IN NORWAY

EUROPE'S LEADING MANUFACTURER OF STAINLESS STEEL

THE LEADER

OSO is the largest manufacturer of stainless steel water heaters in Europe :

- Responsible for virtually every major innovation moving the UK and European markets forwards since 1932
- Pioneer of the VIP insulation system, and the only manufacturer offering a full range of ErP A-rated products
- Inventor of the bubble top system
- Inventor of the Super Series all on top principle
- First mass producing supplier of stainless steel units to the UK
- Owns and operates the most advanced water heater factory in the world
- The manufacturer of choice for many of the world's leading boiler and heat pump companies.



G EL WATER HEATERS

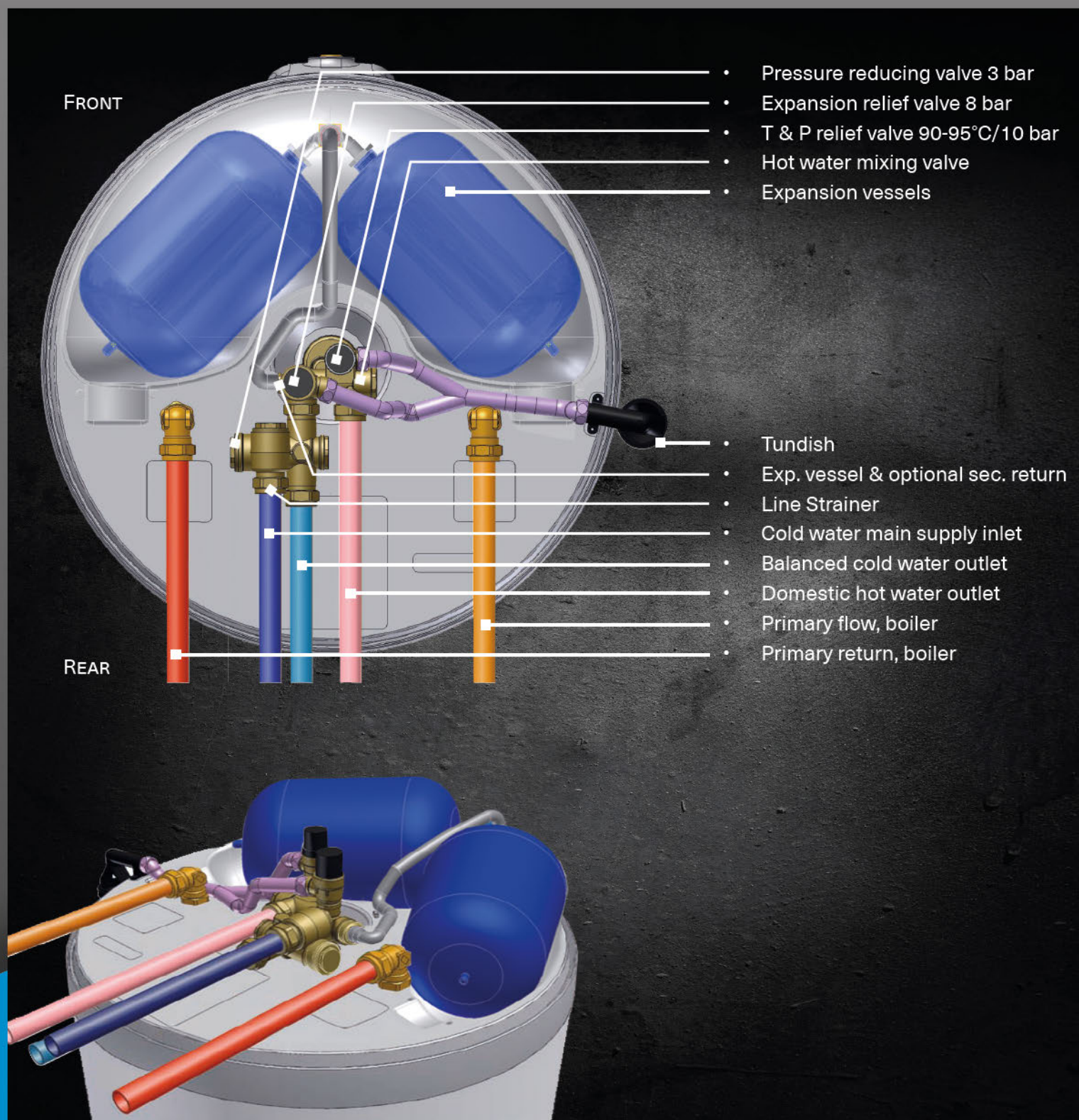


THE NUMBERS

With a multimillion euro investment incorporating high tech automation and robotics OSO can show impressive figures and statistics from its operation and manufacturing.

- More than 110,000 top quality water heaters manufactured annually
- A Super Series product rolls off the production line every 65 seconds
- One cylinder is manufactured in a mere 14 minutes, from stainless steel sheet to finished and packaged product
- More than 4 million units sold worldwide
- A massive 26 year average lifespan for stainless steel products worldwide
- 25 year warranty
- 19 000 m² (54 000 square feet) award-winning, environmentally friendly factory.

SEE THE PRODUCTS →



THINK FUTURE

PRODUCT ADVANTAGES

SUPER series stands out in the crowd with its seamlessly integrated design hiding all connections, expansion vessels and valves from view. The unique, top-mounted, factory-fitted valve set also features a mixing valve, enabling the SUPER XPRESS direct units to deliver up to 20 % more hot water than others for unbeatable performance. NEVER FOLLOW.

NANOPUR

HIGH GRADE INSULATION SURPASSING PENTANE

ULTRA WELD

SUPERIOR CORROSION RESISTANCE

INCOTEC

HIGH DURABILITY IN HARD WATER

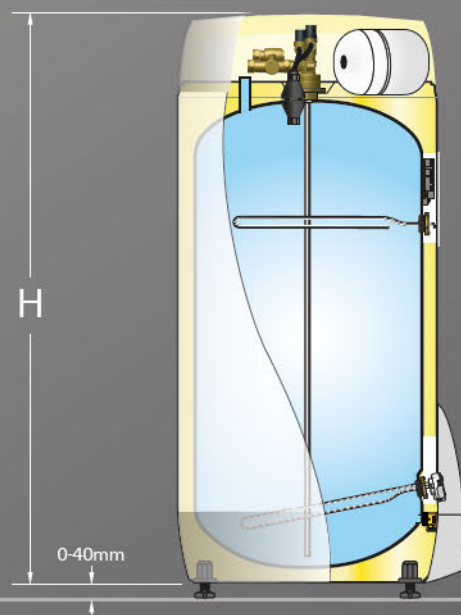
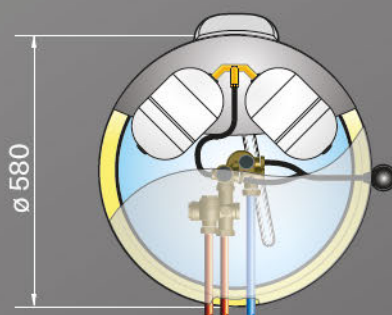
SMOOTH COIL

DOES NOT ENCOURAGE LIMESCALE BUILD UP

SUPER

SUPER XPRESS – SX

Pre-plumbed Direct cylinder with Vacuum Panel Insulation



WHY SUPER XPRESS?

- 20% MORE HOT WATER than other cylinders enabling cylinder to be DOWNSIZED
- Downsizing reduces heat loss figure
- Integral expansion vessels
- Practically pre-plumbed unit
- Labour saving up to 70%
- Shortest cylinder system on the market
- Unique patented design with a 25 year warranty
- Pipes and cables hidden
- Fitting template provided
- Maintenance Friendly

COMPONENTS

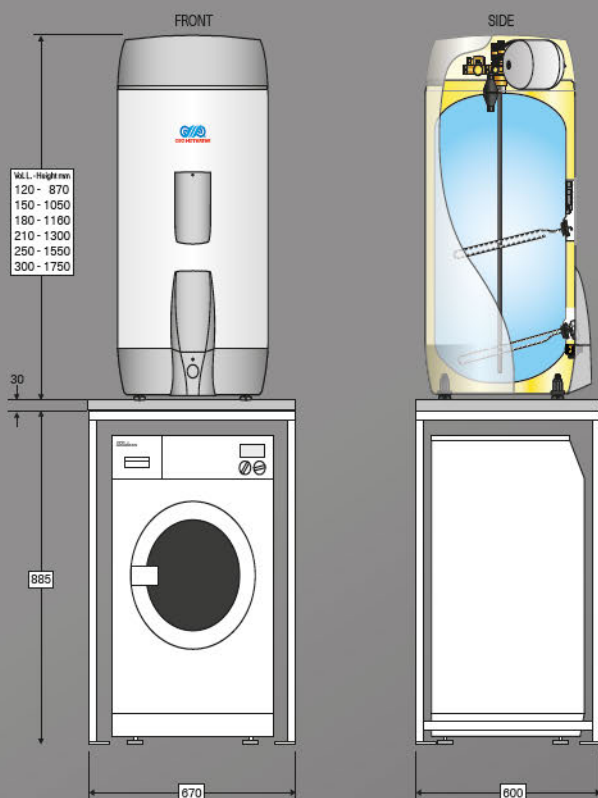


Mixing valve - Preset 60°C
 Thermostat - Adjustable 40-70°C - Preset 70°C
 immersion 3kW
 P&T safety valve 10 bar - 90-95°C
 Integrated G3 kit including:
 Expansion vessel 2 x 6L supplied factory fitted*
 Strainer
 PRV
 Expansion relief
 Drain cock
 Tundish

*not 300 L .1 vessel on 120L

TECHNICAL DATA

Prod. No.	Product code:	Capacity persons	V 40 L	Weight kg.	Dia x height mm.	Actual volume	Thermostat setting °C	Heat loss kWh/d
1080 2661	SX 120 - 2.8 kW @ 230V / 3.0 kW @ 240V VIP	1,5	162	37	ø580x 870	111	65	0.96
1080 2662	SX 150 - 2.8+ 2.8 kW @ 230V / 3.0+3.0 kW @ 240V VIP	2,5	254	42	ø580x1050	143	70	1.128
1080 2663	SX 180 - 2.8+ 2.8 kW @ 230V / 3.0+3.0 kW @ 240V VIP	2,5	304	47	ø580x1160	164	70	1.224
1080 2664	SX 200 - 2.8+ 2.8 kW @ 230V / 3.0+3.0 kW @ 240V VIP	3,5	323	52	ø580x1300	193	70	1.344
1080 2665	SX 250 - 2.8+ 2.8 kW @ 230V / 3.0+3.0 kW @ 240V VIP	3,5	386	59	ø580x1550	242	70	1.388
1080 2666	SX 300 - 2.8+ 2.8 kW @ 230V / 3.0+3.0 kW @ 240V VIP	4,5	463	65	ø580x1750	281	70	1.632



SX to 210 litres can share a footprint with a washing machine using additional washing machine frame

Top valve and expansion vessels



Calculated V40 figures at different stored temperatures

Cylinder Volume	120	150	180	210	250	300
V40 @ & 70 °C	192	254*	304*	323*	386*	463*
V40 @ & 65 °C	162*	217	267	309	369	405
V40 @ & 60 °C	148	198	248	281	355	376

*factory settings

The SX VIP has a unique pre-plumbed patented design making the installation quick and efficient with concealed cable routing, integral expansion vessels and all the pipework connections on top of cylinder hidden under a lid.

Utilising unique Vacuum Panel Insulation

During peak use the SX VIP heats the water to 70°C, and blends hot water draw-off temperature down to 60°C, this storage of extra energy allows the capacity to be downsized compared to similar sized competitor units.

Downsizing saves space and improves the already low heat loss figure, helping with SAP/part L compliance.

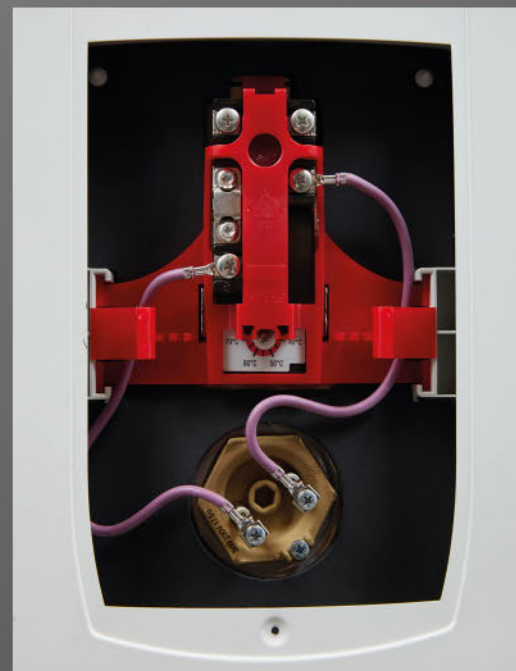
SX VIP to 210 litres can share a footprint with a washing machine using additional washing machine frame

HOTTER STORAGE temperature means much more hot water.

OSO produces more than any other cylinder on the market blended delivery temperature is 60°C.

V40 is the volume created at 40°C.

ALWAYS use the V40 figure to size your cylinder, NOT the capacity.



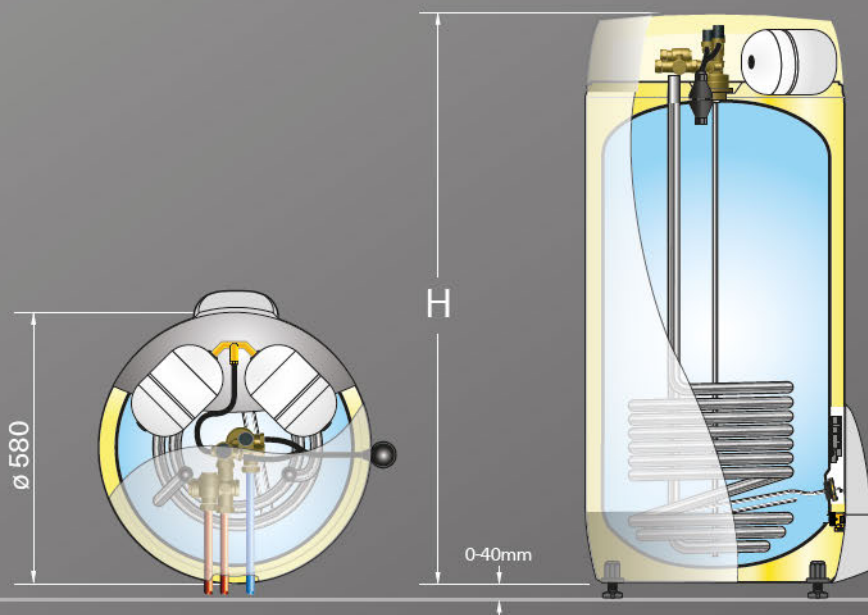
Electric junction box

ErP RATING C

Heat loss W	Recovery time Min bottom element	Heat up time Min bottom element	Recovery time Min upper element	Heat up time Min upper element	Load Profile ErP	Efficiency %	AEC kWh/a	ErP Rating
40	91	130	N/A	N/A	L	37.2	2752	C
47	121	174	52	74	XL	37.6	4453	C
51	141	201	71	101	XL	37.2	4499	C
56	165	235	95	135	XL	37.8	4434	C
62	208	297	92	132	XL	37.2	4507	C
68	243	347	92	132	XL	37.3	4490	C

SUPER COIL – SC

Virtually pre-plumbed Indirect cylinder for System Boilers



WHY SUPER COIL?

- Labour saving up to 70% compared to competitor products
- Pre-plumbed unit for system boiler
- Integral expansion vessels
- Shortest cylinder system in the market
- Unique space efficiency
- Unique patented design with a 25 year warranty
- Pipes and cables hidden
- Fitting template provided
- Maintenance friendly

COMPONENTS



Mixing valve - Preset 60°C
 Thermostat - Adjustable 40-70°C - Preset 60°C
 Immersion 3kw
 P&T safety valve 10 bar - 90-95°C
 Integrated G3 kit including:
 2 port zone valve (honeywell)
 Strainer
 PRV
 Expansion relief
 Drain cock
 Tundish
 Expansion vessel 2 x 6L supplied factory fitted*
 *not 300 L.1 vessel on 120L

TECHNICAL DATA

Prod. No.	Product code:	Capacity persons	V 40 L	Weight kg.	
1080 2951	SC 120 - 2.8 kW @ 230V / 3.0 kW @ 240V+coil 0,5m ²	1,5	148	32	
1080 2952	SC 150 - 2.8 kW @ 230V / 3.0 kW @ 240V+coil 0,8m ²	2,5	198	40	
1080 2953	SC 180 - 2.8 kW @ 230V / 3.0 kW @ 240V+coil 0,8m ²	3,5	248	43	
1080 2954	SC 200 - 2.8 kW @ 230V / 3.0 kW @ 240V+coil 0,8m ²	4,5	281	46	
1080 2955	SC 250 - 2.8 kW @ 230V / 3.0 kW @ 240V+coil 0,8m ²	5,5	355	49	
1080 2956	SC 300 - 2.8 kW @ 230V / 3.0 kW @ 240V+coil 0,8m ²	6,5	376	50	

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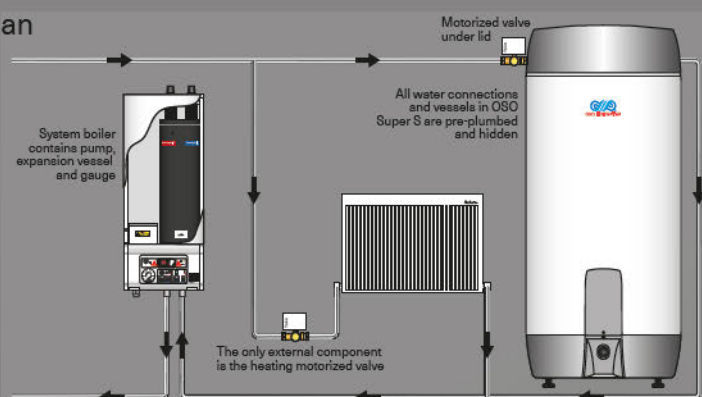


Illustration of System boiler with SC cylinder, requiring only an additional Motorised valve for heating circuit



Top valve, expansion vessels and coil connections



Electric junction box

The SUPER COIL has a unique patented design making te installation quick and efficient. In conjunction with a System boiler the SUPER COIL becomes a part pre-plumbed cylinder.

Concealed wire routing, integral expansion vessels and all pipework connections on top of cylinder hidden under a lid give the SC a unique design within the market.

Smooth limescale resisting heating coil ensuring efficient heat transfer.

The SC comes standard with ultra grade INCOTEC immersion heater as back up which can be connected to Solar panels.

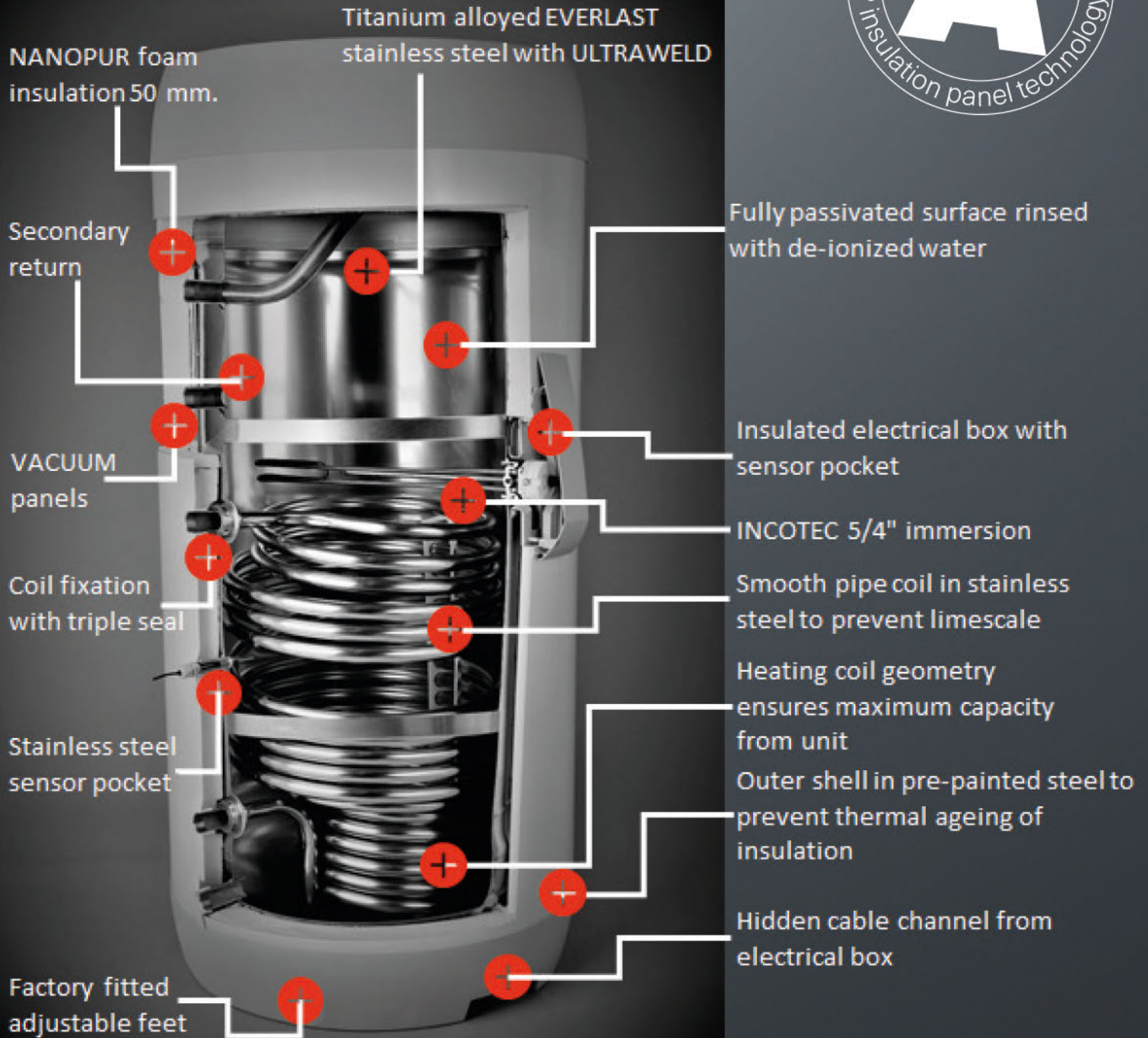
SC range to 210 litres can share a footprint with a washing machine using an additional washing machine fram



Elegant covers for electric box & drain cock

ErP RATING B/C

	Dia x height mm.	Actual volume l.	Thermostat setting °C	Heat loss kWh/d	Heat loss W	Coil rating kW	Recovery time Min.	Heat up time Min.	Rating ErP
	ø580x 870	109	60	1.06	44	13	19	28	B
	ø580x1050	142	60	1.30	54	16	21	29	B
	ø580x1160	163	60	1.46	61	17	24	34	C
	ø580x1300	190	60	1.61	67	17	27	39	C
	ø580x1550	239	60	1.92	80	17	34	48	C
	ø580x1750	277	60	2.13	89	17	38	54	C



Secondary return only available on 210L - 300 L cylinders

THINK FUTURE

PRODUCT ADVANTAGES

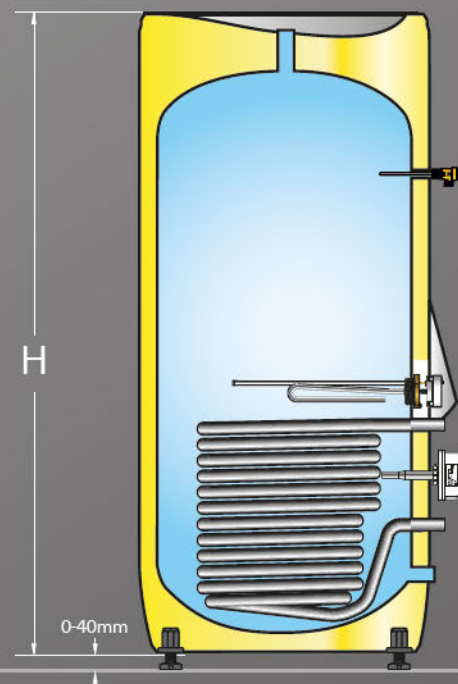
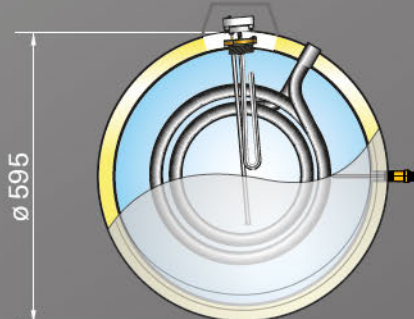
- ONLY FULL RANGE "A" RATED ON THE MARKET
- VIP INSULATION PANEL TECHNOLOGY
- 30 - 50% HIGHER EFFICIENCY THAN RIVALS,
TRANSLATING INTO SUBSTANTIAL ENERGY SAVINGS
AND DIRECT SAP GAINS

Everything we've learned over the last 50 years of manufacturing stainless steel water heaters is embodied in the DELTA series. The unique outer design, class leading VIP insulation, highly efficient heat transfer and durable construction makes this the best OSO unit ever. BUILT TO LAST.

DELTA

DELTA COIL – DC

Full range A-rated Indirect cylinder - Ideal for all boilers



DELTA series is the most efficient hot water cylinder available, utilising unique Vacuum Panel Insulation and is the only full range of ErP* A-rated cylinders available from 150 - 300 L. . DELTA series can save enough energy to pay for the entire cylinder over its lifetime.

DELTA COIL—DC is elegant and functional in its design, and is compatible with all boilers

The DC units can be controlled either via its own thermostat or using a thermistor probe. DELTA uses a high performance fully flooded design, with separate expansion vessel, and an ultra-grade INCOTEC immersion heater as back-up above the heating coil, providing maximum operational safety. A complete set of inlet control valves comes standard. DELTA COIL is also supplied with a digital thermostat compatible with both S & Y plan systems which displays the water temperature.

WHY DELTA COIL?

- Reduce heat loss by 400 kWh**/year with NANOPUR and VIP*
- ErP "A" rating and the most efficient cylinder on the market
- Helps housebuilders achieve SAP energy requirements
- 25 year warranty on the stainless steel tank
- Smooth scale resistant coil
- Delta has holiday and anti-legionella functionality.

COMPONENTS

Immersion th.stat	Adjustable 20-70°C - Preset 60°C
Cylinder th. stat	Electronic dual cylinder thermostat
T&P relief valve	10 bar - 90-95°C
G3 kit	Strainer/PRV/exp. relief/drain cock/tundish
Motorized valve	Honeywell V4043H1056C
Expansion vessel	12-24 L supplied
Appliance feet	Adjustable - Factory fitted

TECHNICAL DATA

ErP RATING A

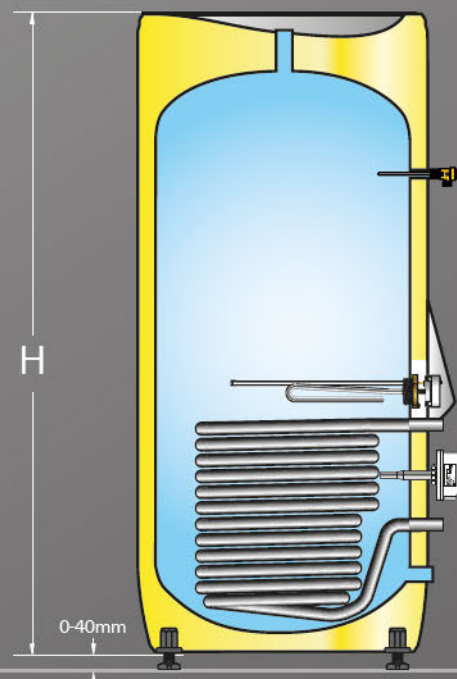
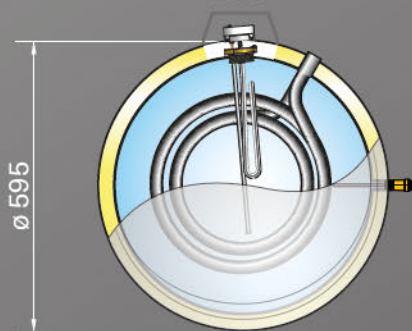
Prod. No.	Product code:	Capacity persons	Weight kg.	Dia x height mm.	Actual volume	Coil rating W	Heat loss kWh/d	Heat loss W	Temp. setting °C	Recovery time Min.	Heat up time Min.	Rating ErP
1020 1400	DC 150 - 3kW/1x240V+HX 0,8m ²	2,5	40	ø595x1005	145	17	0.94	39	60	17	24	A
1020 1500	DC 180 - 3kW/1x240V+HX 0,8m ²	3,5	42	ø595x1170	175	17	0.98	41	60	21	30	A
1020 1600	DC 210 - 3kW/1x240V+HX 0,8m ²	4,5	44	ø595x1270	194	17	1.03	43	60	22	32	A
1020 1700	DC 250 - 3kW/1x240V+HX 0,8m ²	5,5	52	ø595x1540	245	17	1.1	46	60	30	43	A
1020 1800	DC 300 - 3kW/1x240V+HX 0,8m ²	6,5	58	ø595x1750	285	17	1.18	49	60	34	49	A

* Energy-related Products Directive – 2009/125/EC.

**Compared to 200 L cylinder with EPS insulation

DELTA COIL PRE-PLUMBED – DCPD

Full range A-rated Indirect cylinder - Installation made easy



DELTA PRE-PLUMBED has all the advantages of the DELTA coil cylinder with the addition of a preplumbed kit attached.

DELTA PRE-PLUMBED is provided with all valves and controls required to connect a heat only boiler and create an S plan heating system. An optional sealed system kit for the heating circuit is also available.

The DELTA PRE-PLUMBED is supplied factory fitted with full G3 kit, heating circulator, zone valves, filling loop, pressure gauge, auto-bypass, AAV, heating and hot water controls.

COMPONENTS



Immersion th.stat	Adjustable 20-70°C - Preset 60°C
Cylinder th. stat	Electronic dual cylinder thermostat
T&P relief valve	10 bar - 90-95°C
G3 kit	Strainer/PRV/exp. relief/drain cock/tundish
Motorized valve	Danfoss
Expansion vessel	12-24 L supplied
Appliance feet	Adjustable - Factory fitted
with preplumbed:	
heating circulator	
zone valves	
filling loop	
pressure gauge	
auto-bypass	
AAV	
heating and hot water controls.	

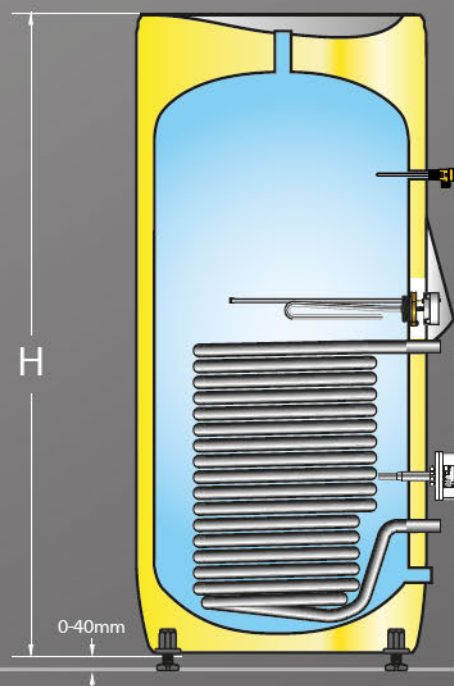
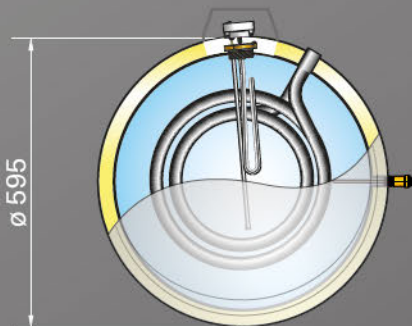
TECHNICAL DATA

ErP RATING A

Prod. No.	Product code:	Capacity persons	Weight kg.	Dia x height mm.	Actual volume	Coil rating W	Heat loss kWh/d	Heat loss W	Temp. setting °C	Recovery time Min.	Heat up time Min	Rating ErP
137-180	DC180PP-3 kW/1 × 230 V + HX 0,8 m ²	3,5	42	ø595x1170	175	17	0.98	41	60	21	30	A
137-210	DC210PP-3 kW/1 × 230 V + HX 0,8 m ²	4,5	47	ø595x1270	194	17	1.03	43	60	22	32	A
137-250	DC250PP-3 kW/1 × 230 V + HX 0,8 m ²	5,5	54	ø595x1540	245	17	1.1	46	60	30	43	A
137-300	DC300PP-3 kW/1 × 230 V + HX 0,8 m ²	6,5	64	ø595x1750	285	17	1.18	49	60	34	49	A

DELTA GEOCOIL – DGC

Full range A-rated Indirect cylinder - Designed for heat pumps up to 15 kW



DELTA GEO series is the most efficient heat pump cylinder available, utilising unique Vacuum Panel Insulation and is the only range of ErP* A-rated heat pump cylinders available from 200 - 300 L.

DELTA series can save enough energy to pay for the entire cylinder over its lifetime.

DELTA GEOCOIL—DGC is ideal for domestic hot water production from heat pumps up to 10 kW (200 L / 1,4m²) or 15 kW (250 L and 300 L / 1,8m²). DGC can also be fitted with gas or oil boilers for super fast heat up times.

The DGC units can be controlled either via its own digital thermostat or using thermistor probe(s). Compatible with S & Y plan systems.

COMPONENTS



Immersion th.stat	Adjustable 20-70°C - Preset 60°C
Cylinder th. stat	Electronic dual cylinder thermostat
T&P relief valve	10 bar - 90-95°C
G3 kit	Strainer/PRV/exp. relief/drain cock/tundish
Motorized valve	Honeywell V4043H1056C
Expansion vessel	18,24 L supplied
Appliance feet	Adjustable - Factory fitted

WHY DELTA GEOCOIL?

- Reduce heat loss by 400 kWh*/year with NANOPUR and VIP**
- Helps housebuilders achieve SAP energy requirements
- Ultra-grade INCOTEC immersion heater as booster above the heating coil, raising the DHW temperature to increase capacity.
- 25 year warranty on the stainless steel tank
- Smooth scale resistant coil
- Delta has holiday and anti-legionella functionality.

TECHNICAL DATA

ErP RATING A

Prod. No.	Product code:	Capacity persons	Weight kg.	Dia x height mm.	Actual volume	Coil Rating	Heat loss W	Heat loss kW/h	Recovery time Min.	Rating ErP
1022 1600	DGC 200 - 3kW/1x240V+HX 1,4m ²	2,5	57	595x1270	191	26	43	1.03	14.6	A
1022 1700	DGC 250 - 3kW/1x240V+HX 1,8m ²	2,5	54	595x1540	239	32	47	1.13	15.8	A
1022 1800	DGC 300 - 3kW/1x240V+HX 1,8m ²	3,5	67	595x1750	279	32	49	1.18	18.3	A

* Energy-related Products Directive – 2009/125/EC.

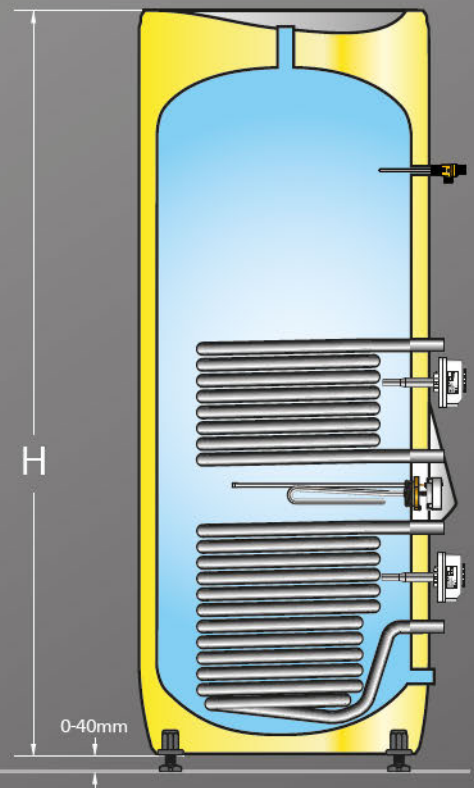
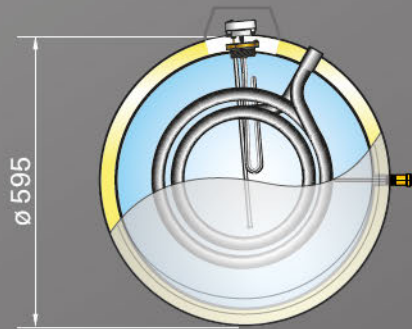
**Compared to 200 L cylinder with EPS insulation

DELTA TWINCOIL – DTC

Best in class - Ultimate energy flexibility for hot water



VIP
INSULATION PANEL
TECHNOLOGY



DELTA TWINCOIL series is the most efficient solar thermal cylinder available, utilising unique Vacuum Panel Insulation enabling ErP* B-rated cylinders from 200 - 300 L. DELTA series can save enough energy to pay for the entire cylinder over its lifetime.

DELTA TWINCOIL—DTC is ideal for domestic hot water production from solar collectors up to 12 m² in combination with other controllable heat source on upper coil;

DELTA TWINCOIL is the most efficient solar cylinder available and can provide up to 60 % of annual DHW requirements from solar collector. A complete set of inlet control valves comes standard.

The DTC units can be controlled either via its own digital thermostat or using thermistor probe(s). DELTA TWINCOIL is compatible with both S & Y plan systems.

COMPONENTS



Immersion th.stat	Adjustable 20-70°C - Preset 70°C
Cylinder th. stat	Electronic dual cylinder thermostat
T&P relief valve	10 bar - 90-95°C
G3 kit	Strainer/PRV/exp. relief/drain cock/tundish
Motorized valve	Honeywell V4043H1056C
Expansion vessel	12-24 L supplied
Appliance feet	Adjustable - Factory fitted

WHY DELTA TWINCOIL?

- Reduce heat loss by 400 kWh*/year with NANOPUR and VIP**
- Ultra-grade INCOTEC immersion heater as booster (or back-up)
- 25 year warranty on the stainless steel tank
- Smooth scale resistant coil
- Delta has holiday and anti-legionella functionality.

TECHNICAL DATA

ErP RATING B

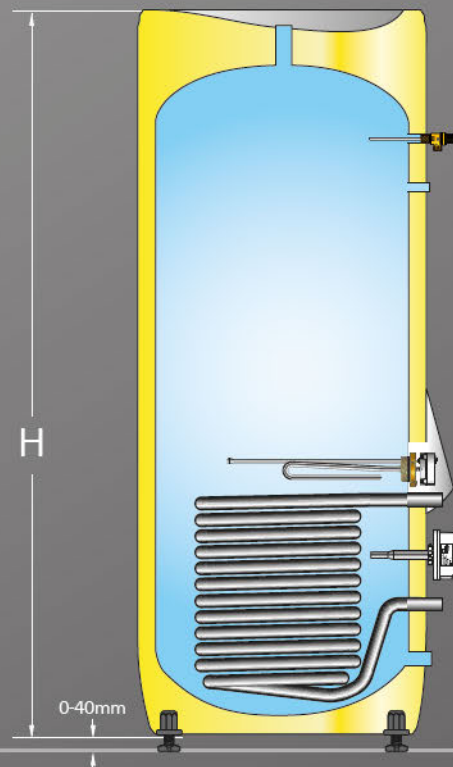
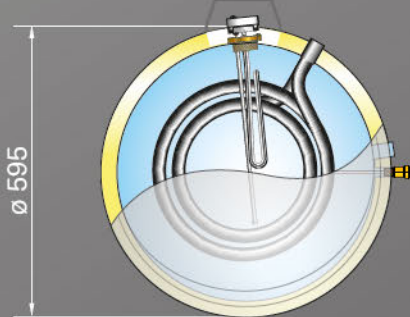
Prod. No.	Product code:	Capacity persons	Weight kg.	Dia x height mm.	Actual Volume L	Dedicated solar volume L	Upper coil rating kW	Heat loss W	Heat loss kWh/d	Rating ErP
1021 1600	DTC 200 - 3kW/1x240V+HX 0,8+0,5m ²	4,0	44	ø595x1270	190	94	16.9	49	1.18	B
1021 1700	DTC 250 - 3kW/1x240V+HX 0,8+0,5m ²	5,0	52	ø595x1540	242	104	16	54	1.30	B
1021 1800	DTC 300 - 3kW/1x240V+HX 0,8+0,5m ²	6,0	58	ø595x1750	284	104	15.2	58	1.39	B

*Energy-related Products Directive – 2009/125/EC.

**Compared to 200 L cylinder with EPS insulation

DELTA POWERCYL – DCF

Indirect - Ultimate energy efficiency and maximum flow rate



DELTA POWERCYL -1" hot and cold DHW connections allow for Delta Powercyl to achieve considerably higher flow rates(Up to 80 litres / minute) when compared with a cylinder with $\frac{3}{4}$ connections. Delta Powercyl is the ideal choice for larger domestic and semi commercial applications and benefits from having an adjustable PRV. Expansion vessels are also larger to accommodate the increased volume of thermal expansion.

DFC is a perfect partner to the SUPERSTREAM system where mains flow rates are insufficient. DELTA series is the most efficient hot water cylinder available utilising unique Vacuum Panel Insulation.

DELTA series can save enough energy to pay for the entire cylinder over its lifetime.

DELTA POWERCYL can be controlled either via using a thermistor probe or its own digital thermostat with digital display of water temperature.

WHY DELTA POWERCYL?

- 1" connections for high flow rates
- Reduce heat loss by 400 kWh*/year with NANOPUR and VIP*
- Helps housebuilders achieve SAP energy requirements
- 25 year warranty on the stainless steel tank
- Smooth scale resistant coil
- Delta has holiday and anti-legionella functionality.

COMPONENTS

Immersion th.stat	Adjustable 20-70°C - Preset 60°C
Cylinder th. stat	Electronic dual cylinder thermostat
T&P relief valve	10 bar - 90-95°C
G3 kit	Strainer/PRV/exp. relief/drain cock/tundish
Motorized valve	Honeywell V4043H1056C
Expansion vessel	24 - 35 L supplied
Appliance feet	Adjustable - Factory fitted

TECHNICAL DATA

ErP RATING A/B

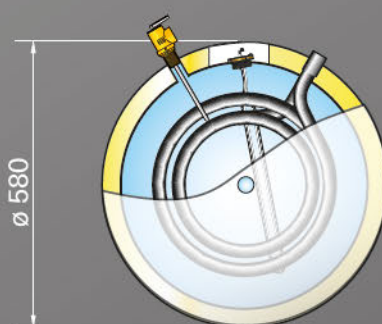
Prod. No.	Product code:	Capacity persons	Weight kg.	Dia x height mm.	Actual Volume L	Coil rating W	Heat loss W	Heat Loss kWh/d	Recovery time Min.	Heat up time Min.	Temp. setting °C	Rating ErP
1023 1700	DCF 250 - 3kW/1x240V+HX 0.8m ²	4.5	51	595x1570	245	17	47	1.13	32	43	60	A
1023 1800	DCF 300 - 3kW/1x240V+HX 0.8m ²	5.5	58	595x1750	284	17	49	1.18	37	49	60	A
1023 1900	DCF 380 - 3kW/1x240V+HX 0.8m ²	7.0	79	595x2225	379	17	70	1.68	46	66	60	B

* Energy-related Products Directive – 2009/125/EC.

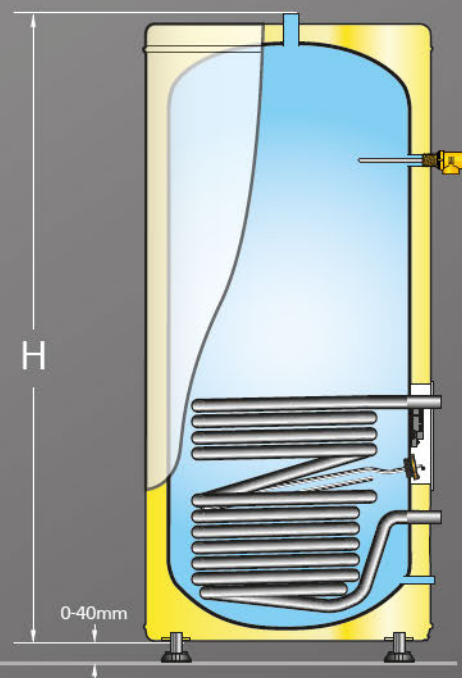
**Compared to 200 L cylinder with EPS insulation

ECOLINE COIL – RI

High quality generic style Indirect cylinder



ø 580



H

0-40mm

ECOLINE COIL - RI is a generic design high performance unvented cylinder with full OSO quality and at a competitive price. Ecoline is compact and takes up less height in an airing cupboard than any other cylinder, typically 20 - 30cm lower. Ecoline is supplied with full G3 kit, including drain elbow and can interact with a boiler via thermostat or probe thermistor. back-up INCOTECH immersion heater.

ECOLINE COIL has low heat losses through use of NANOPUR* insulation. Smooth heating coils restrict the accumulation of limescale and provide fast heat up and recovery time. As with all OSO cylinders, the inner cylinder is has the superior corrosion resistance of ULTRAWEELD and is guaranteed for 25 years. With a generic design at an affordable price, Ecoline is perfect as a replacement cylinder.

WHY ECOLINE COIL?

- Ecoline is compact and takes up less height in an airing cupboard
- Dog-leg coil to heat the entire contents of the cylinder
- Reduce heat loss by 300 kWh*/year with NANOPUR*
- Compatible with standard or thermistor controlled boilers
- Smooth scale resistant coil
- 25 year warranty on the stainless steel tank

COMPONENTS



Immersion th.stat	Adjustable 40-70°C - Preset 60°C
Cylinder th. stat	Adjustable 40-70°C - Preset 60°C
T&P relief valve	10 bar - 90-95°C
G3 kit	Strainer/PRV/exp. relief/drain cock/tundish
Motorized valve	Honeywell V4043H1056C
Expansion vessel	12-24 L supplied
Appliance feet	Adjustable - Factory fitted

TECHNICAL DATA

ErP RATING B/C

Prod. No.	Product code:	Capacity persons	Weight kg.	Dia x height mm.	Actual Volume	Heat loss W	Heat Loss kWh/d	Recovery time Min.	Heat up time Min.	Temp. setting °C	ErP rating
1327030	RI 120 - 3kW/1x240V+HX 0.5m ²	1.5	32	ø580x730	108	43	1.03	15	21	60	B
1327040	RI 150 - 3kW/1x240V+HX 0.8m ²	2.5	37	ø580x910	141	51	1.22	17	24	60	B
1327050	RI 180 - 3kW/1x240V+HX 0.8m ²	3.5	39	ø580x1020	160	58	1.39	21	30	60	C
1327060	RI 210 - 3kW/1x240V+HX 0.8m ²	4.5	43	ø580x1160	186	62	1.49	22	32	60	C
1327070	RI 250 - 3kW/1x240V+HX 0.8m ²	5.5	50	ø580x1410	233	74	1.78	30	43	60	C
1327080	RI 300 - 3kW/1x240V+HX 0.8m ²	6.5	56	ø580x1610	271	81	1.94	34	49	60	C

* Energy-related Products Directive – 2009/125/EC.

**Compared to 200 L cylinder with EPS insulation

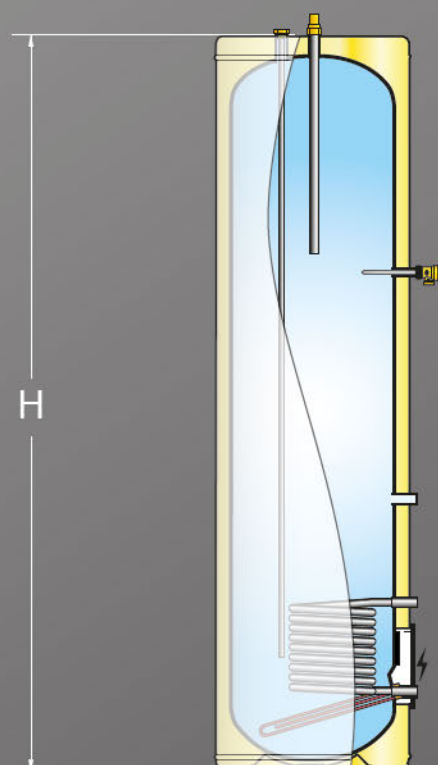
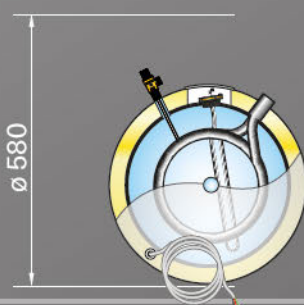
Subject to changes without notice

SLIMLINE – RI

Indirect domestic cylinder for installation in tight spaces



VIP
INSULATION PANEL
TECHNOLOGY



SLIMLINE is the slimmest domestic cylinder available at only 430 mm diameter, making the cylinder ideal for installation in tight spaces. The cylinder has a large heating coil for fast heating and also back-up electric heating from an immersion heater. Low heat loss comes from utilising unique Vacuum Insulation Panel technology with NANOPUR insulation. High flow rates provide powerful showers.

The cylinder is floor mounted and is supplied with a wall bracket for stabilization. An external expansion vessel is supplied, complete with its own wall bracket.

SLIMLINE is easy to fit and follows a similar installation technique to the OSO Delta and Ecoline cylinders. Heating coils in OSO cylinders are made of smooth coil that will not encourage lime-scale deposits and offer longer and more efficient life than finned or rippled coils. OSO coils have increased length compared to finned coils, carry more heating fluid and therefore have a greater heat transfer capacity.

WHY SLIMLINE?

- It is the slimmest domestic cylinder available at only 430 mm
- Reduce heat loss by 300 kWh**/year with NANOPUR and VIP
- Smooth scale resistant coil
- 25 year warranty on the stainless steel tank

COMPONENTS



Thermostat	Adjustable 40-70°C - Preset 65°C
P&T safety valve	10 bar - 90-95°C
Integrated G3 kit	Strainer/PRV/exp. relief/drain cock/tundish
Expansion vessel	Supplied, incl. wall bracket
Stability bracket	Stainless steel - included

TECHNICAL DATA

ErP RATING C

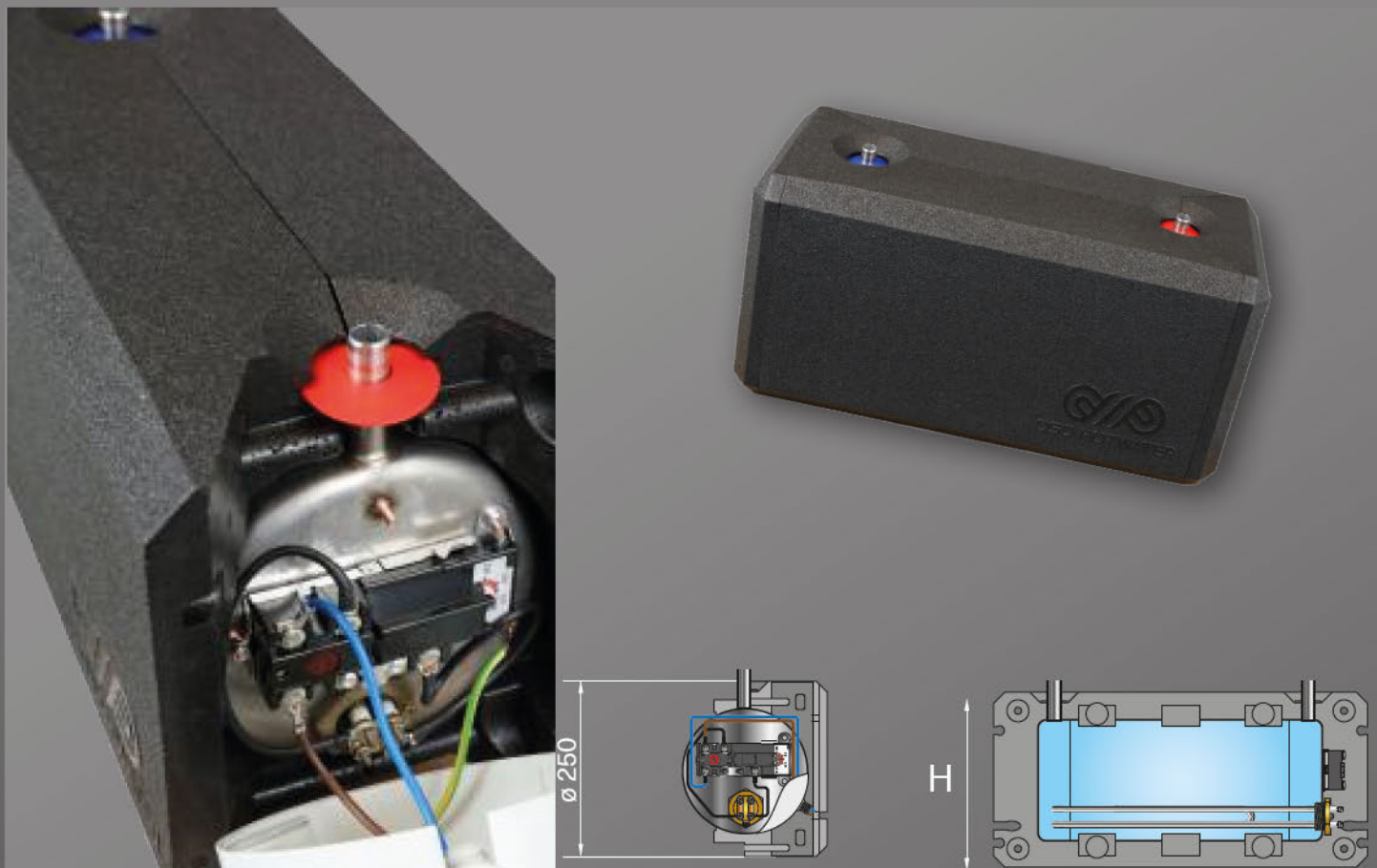
Prod. No.	Product code:	Capacity persons	Weight kg.	Dia x height mm.	Actual Volume L	Coil rating W	Heat Loss kWh/d	Heat loss W	Recovery time Min.	Heat up time Min.	Temp. setting °C	Rating ErP
1326200	RI 150 - 2kW/1x240V+coil 0.7m ²	2.5	46	ø430x1610	141	17	1.82	76	17	24	60	C

* Energy-related Products Directive – 2009/125/EC.

** Compared to 200 L cylinder with EPS insulation

NANO – N5

5 Litre point-of-use water heater with full capacity in 8 minutes



NANO — N is ideal as a point-of-use unit .

NANO fits easily under sink and more than adequate for hand wash, kitchenettes or similar demands.

NANO comes standard with 3 kW ultra-grade INCOTEC immersion heater. The unit is ready for use after just 8 minutes, with a capacity of 7L 40°C hot water / hour.

NANO can be fitted anywhere due to its modest size, and wall bracket as well as safety valve is included.

COMPONENTS



Thermostat	Adjustable 40-70°C - Preset 65°C
El. power cable	Not including plug - 2,5 m
Wall mount	Stainless steel - included

WHY NANO?

- Perfect for point-of-use installations or limited hot water needs
- 7 L 40°C / hour, fully charged after only 8 minutes
- 10 year warranty on the stainless steel pressure tank

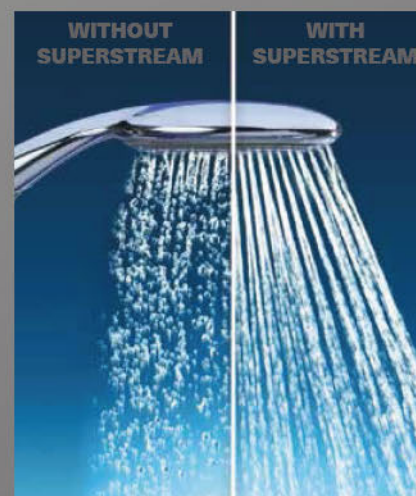
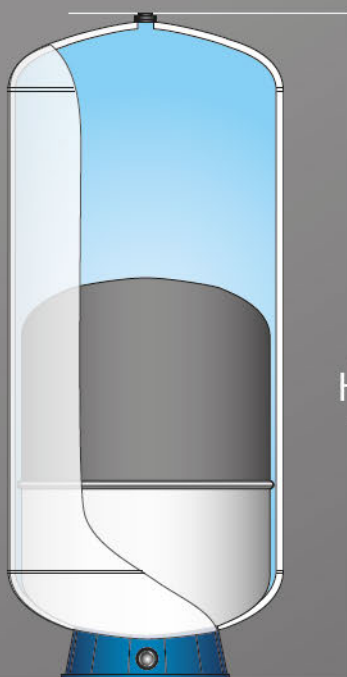
TECHNICAL DATA

ErP RATING A

Prod. No.	Product code:	Capacity persons	Weight kg.	Dimensions mm.	Freight vol. m ³	V 40 L	AEC kWh/a	Heat loss W	Temp. setting °C	Energy eff. %	Rating ErP	Profile ErP
10806051	N 5 - 3 kW / 1x240V	0.5	12	250x234x500	0.03	7	525	13	65	35	A	XXS

SUPERSTREAM – OSI - ACCUMULATOR TECHNOLOGY

For BOOSTED flow rate performance



THE SUPERSTREAM EFFECT

SUPERSTREAM provides boosted performance for poor mains supplies. Cold water storage using patented accumulator technology guarantees unrivalled pressure and flow rates for multi-outlet demand. Traditional unvented cylinders depend on incoming mains pressure and water volume to produce high flow rates. When mains performance is compromised, SuperStream uses stored cold water in a large virgin butyl diaphragm to deliver enhanced performance to hot and cold outlets.

SUPERSTREAM has a composite construction which is resilient and lightweight and is guaranteed for 5 years. The system is typically used in large properties with multiple outlets or commercial situations with high water demand. If static mains pressure is poor, a Charger Pump can be used, contact OSI for details. SuperStream requires an additional purchase of an Upstream fittings kit which is supplied separately in 22 or 28mm to connect to the cold mains and hot water cylinder. 200 and 250 litre models can be installed horizontally in optional cradle.

WHY SUPERSTREAM?

- Boost performance for poor mains supply
- No moving parts - silent operation
- Perfect with Delta PowerCyl DCF Cylinder
- 5 year warranty on the tank
- Composite lightweight body

COMPONENTS



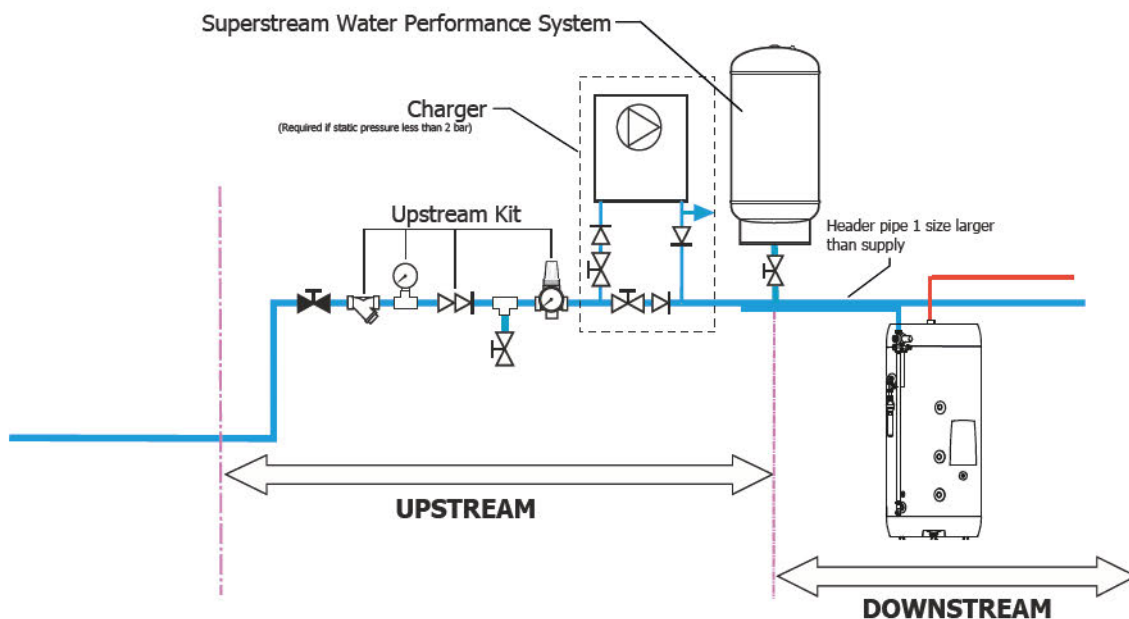
SUPERSTREAM requires an additional purchase of an Upstream fittings kit supplied separately in 22 or 28mm.

200 and 250 litre models can be installed horizontally in optional cradle.

TECHNICAL DATA

Prod. No.	Product code:	Nominal Capacity L	Weight Kg	Dia x height mm.	Water capacity L*	Water connection
OSI130	Accumulator 130 l	130	16	ø418x1227	65	1" BSP male
OSI200	Accumulator 200 l	200	22	ø542x1098	100	1 1/4" BSP male
OSI250	Accumulator 250 l	250	27	ø542x1303	125	1 1/4" BSP male
OSI350	Accumulator 350 l	350	35	ø614x1448	175	1 1/4" BSP male
OSI450	Accumulator 450 l	450	46	ø614x1831	225	1 1/4" BSP male

*with 1.5bar differential



SUPERSTREAM CHARGER

- Use in conjunction with the SUPERSTREAM
- Pump direct from the incoming main, without the need for break tanks
- Increases water pressure to a maximum of 3.5Bar
- Green Energy saving bypass
- Low energy consumption
- Quiet running - 38dBA
- Flexibility of location
- Minimal maintenance
- 2 year warranty on Charger MJ1 pump
- Patent protected design
- Dimensions 287 x 464 x 185 mm



For a site visit to help design your solution
please contact OSO direct
Tel01914820800

SPARES BY CYLINDER TYPE

SUPER SERIES SX - SC - SXIQ - SX VIP

90412	DRAIN COCK
91995	TUNDISH
91900	FLEXIBLE Y DISCHARGE HOSE
90423	8 BAR EXPANSION RELIEF
90232	MIXING VALVE
33237	STOP MIX ASSEMBLY
91911	FLEXIBLE HOSE TO EXPANSION VESSEL
550853	10 BAR TEMPERATURE & PRESSURE RELIEF
90231	PRESSURE REDUCING VALVE
115800	EXPANSION VESSEL 5.3 LITRE
80030	CYLINDER THERMOSTAT
8015192	3KW INCOLOY IMMERSION HEATER - SX/SC/SXVIP & UPPER SXIQ
71248	3KW INCOLOY IMMERSION HEATER -SXIQ LOWER
73450	IMMERSION BOX SPANNER
80322	SMART IMMERSION CONTROLLER (SXIQ LOWER 120)
80323	SMART IMMERSION CONTROLLER (SXIQ LOWER 150-300)

16 SERIES / 20 SERIES / ECOLINE

355045	MULTIBLOC 2.1 BAR
355030	MULTIBLOC 3 BAR
250440	COMMISSIONING VALVE
214005	6 BAR EXPANSION RELIEF CARTIDGE (ECOLINE)
510505	8 BAR EXPANSION RELIEF (16/20 SERIES)
550853	10 BAR TEMPERATURE AND PRESSURE RELIEF
219005	TUNDISH
80030	CYLINDER THERMOSTAT
8015192	3KW INCOLOY IMMERSION
73450	IMMERSION BOX SPANNER

DELTA - DC/DTC/DGC/DCF

355030	MULTIBLOC 3 BAR - DC/DTC/DGC
214005	6 BAR EXPANSION RELIEF CARTIDGE - DC/DTC/DGC
550853	10 BAR TEMPERATURE AND PRESSURE RELIEF
80345	CYLINDER THERMOSTAT
80314	IMMERSION THERMOSTAT
71242	3KW INCOLOY IMMERSION
73450	IMMERSION BOX SPANNER
C352306	MULTIBLOC ADJ 1.5-5.5 BAR 28MM FOR DCF ONLY
219005	TUNDISH

15RD-15RI SLIMLINE

355045	MULTIBLOC 2.1 BAR
355030	MULTIBLOC 3 BAR
510505	8 BAR EXPANSION RELIEF
550853	10 BAR TEMPERATURE AND PRESSURE RELIEF
80020	IMMERSION THERMOSTAT
80030	CYLINDER THERMOSTAT
70629	2KW IMMERSION
73410	IMMERSION BOX SPANNER FOR 2KW ABOVE
71210	3KW IMMERSION - 15RD/RI
73450	IMMERSION BOX SPANNER FOR 3KW ABOVE

OTHER


AX12	POTABLE EXPANSION VESSEL 12 LITRE
AX18	POTABLE EXPANSION VESSEL 18 LITRE
AX24	POTABLE EXPANSION VESSEL 24 LITRE
AX35	POTABLE EXPANSION VESSEL 35 LITRE
81024	1/2" STAINLESS STEEL THERMOSTAT POCKET - ALL MODELS
250445	3/4 DRAIN COCK & INLET ELBOW 15, 16, 20 SERIES / ECOLINE
250446EL	1" DRAIN COCK & INLET ELBOW - DCF & POWERCYL



INSULATION FOR PROS






VACUUM INSULATION PANELS offer the ultimate in insulation capabilities, and is up to 10 times better than traditional alternatives. 10 mm of VIP insulation equals 60 mm of foam. The OSO DELTA SERIES is equipped with VIP panels, offering the lowest heat loss of any cylinder on the market, and an ErP A-rating from 150 – 300 L.

NANOPUR™ is polyurethane foam insulation utilizing an ultra-low GWP (Global Warming Potential) of 1, non-flammable, energy-efficient blowing agent. NANOPUR™ offers considerable advantages increasing energy efficiency by 10 % vs. PENTANE, and more against other common types of foam insulation. When covered with a steel casing, thermal ageing is negligible.



COMMERCIAL UNITS

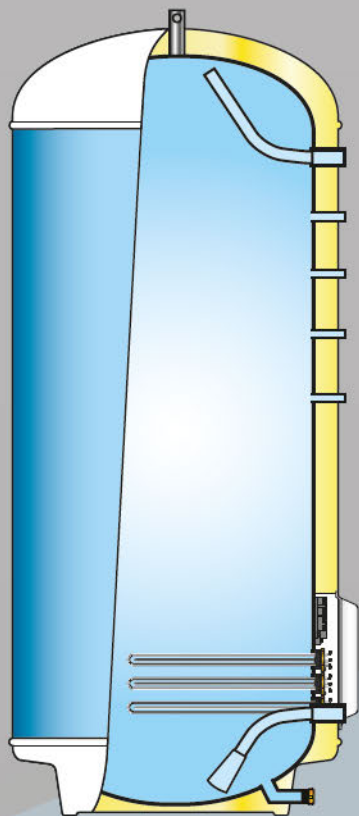
Sizing and product information chart

		Available volumes				
		<div> <div>SYMBOLS</div> <div> <div>Y</div> = Possible <div>N</div> = Not possible/ not supplied </div> </div>				
Product name	Designation	 400 L ø595 x 2085mm	 600 L ø780 x 1900mm	 1000 L ø1000 x 2100mm	 2000 L ø1300 x 2440mm	 3000 L ø1500 x 2695mm
MAXI STANDARD	MS	8001552	8001553	CONTACT OSO	CONTACT OSO	CONTACT OSO
MAXI XPRESS	MX	CONTACT OSO	CONTACT OSO	8001654	CONTACT OSO	CONTACT OSO
MAXI COIL	MC	8001752	8001753	8001754	CONTACT OSO	CONTACT OSO
MAXI GEOCOIL	MGC	8001852	8001853	8001854	CONTACT OSO	CONTACT OSO
MAXI ACCU	MA	8001352	8001353	8001354	CONTACT OSO	CONTACT OSO

Series descriptions

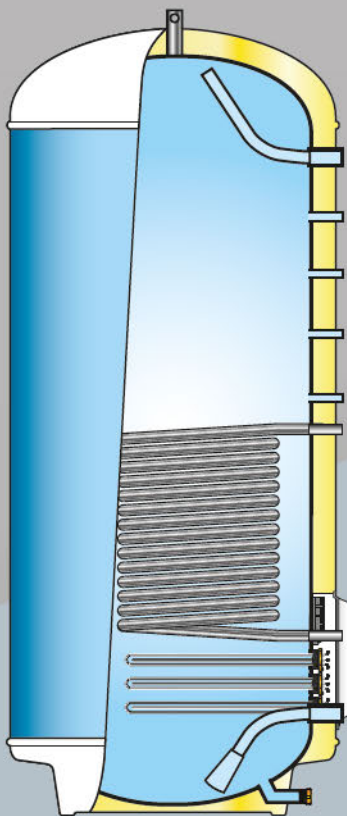
The MAXI series has shown class-leading operational durability for commercial hot water systems through the last 50 years. MAXI has been constructed with EVERLAST™ high-alloy stainless steel in combination with ULTRAWELD™ technology for optimal corrosion resistance. MAXI series can be modified according to customer requirements.

MAXI STANDARD - MS



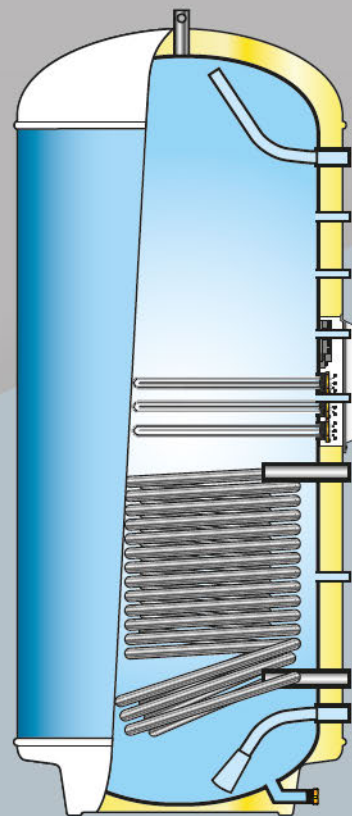
Electric heating of DHW in larger systems. 15 kW immersion. 400-600 litre

MAXI COIL - MC




Cylinder with 1,00m² stainless steel coil for indirect heating from external heat source. Electric backup available 15kW. 400 - 1000 litre

MAXI GEOCOIL - MGC



Designed especially for indirect heating with geothermal heat pump. 2.6 - 4.6m² coils. Electric backup 15 kW. 400 - 1000 litre

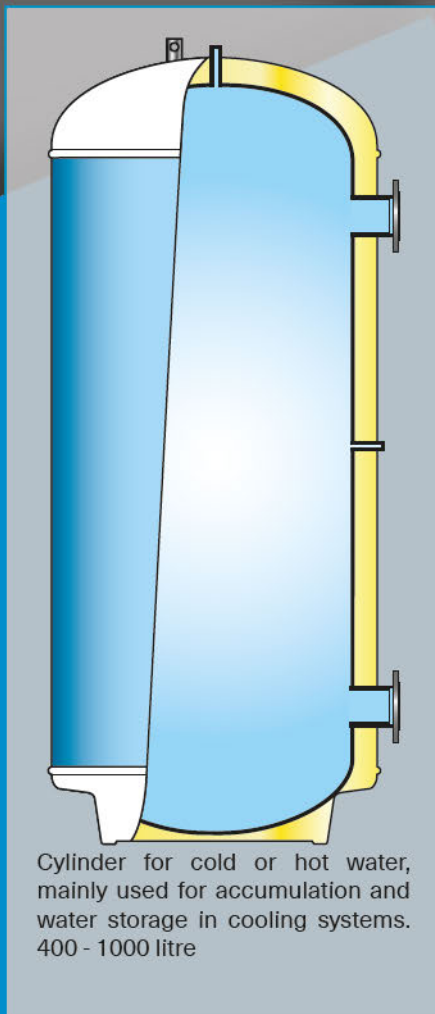
	 5000 L ø1700 x 3180mm	Area of use		Heating method				Functions				Insulation			
		Domestic hot water	Accumulation	Solar ready / electric	Electric direct	Heat pump / Low temperature	Boiler / High temperature	Electric backup	Pre-heating (electric / coil)	Booster (electric)	Hot water circulation	Safety valve	Isoflex	Nanopur	VIP vacuum panels
CONTACT OSO		Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y**	Y*	Y**
CONTACT OSO		Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y**	Y*	Y**
CONTACT OSO		Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y**	Y*	Y**
CONTACT OSO		Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y**	Y*	Y**
CONTACT OSO		N	Y	N	N	Y	Y	N	N	N	N	N	Y**	Y*	N

*300/400 l. volumes only

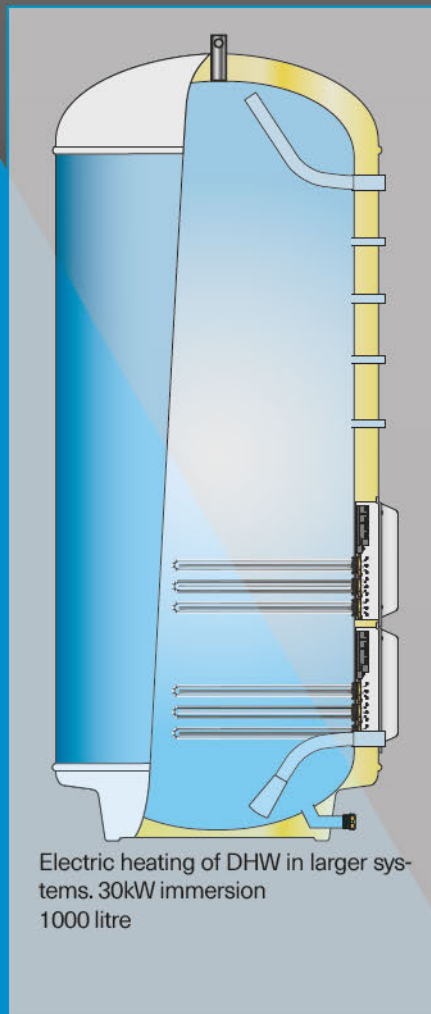
**600/1000 l. volumes only

OUR STANDARD COMMERCIAL CYLINDERS RANGE COME WITH 1½" HOT AND COLD TAPPINGS G3 KIT AND 10 YEAR WARRANTY.

MAXI ACCU - MA



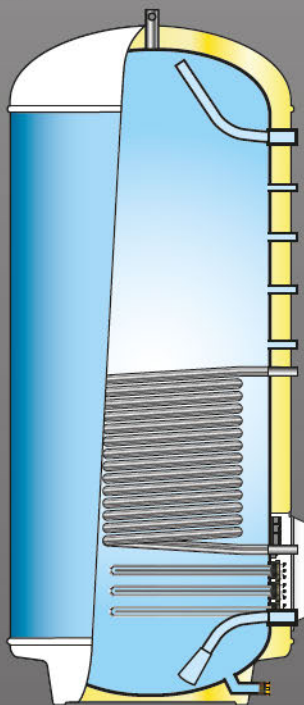
MAXI XPRESS - MX



Recovery and heat up times in minutes (82° - 72°)

Vol		30kW	80kW	135kW	210kW
400	Heat up	44	22		
	Recovery	31	16		
600	Heat up	64	32	14	
	Recovery	45	22	10	
1000	Heat up	105	52	23	15
	Recovery	73	37	16	10
2000	Heat up	216	107	47	30
	Recovery	151	75	33	21
3000	Heat up	309	154	69	44
	Recovery	216	108	48	31
5000	Heat up	570	285	127	81
	Recovery	399	199	89	57

Cylinders made to order



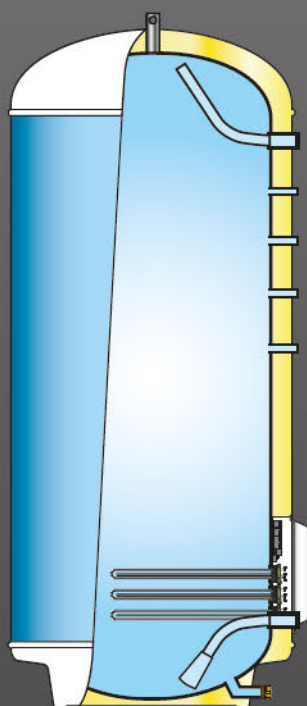
COIL SIZES



D 1,0	30kW	1,00m ²	1" connection for 400-1000
D 2,0	60kW	1,98m ²	1" connection for 600-1000
D 4,6	135kW	4,60m ²	1 1/2" connection for 600-1000
D 7,0	210kW	7,00m ²	1 1/2" connection for 1000

Other sizes may be available upon request

kW ratings based on 82°- 72° flow and return temperature



IMMERSION CONFIGURATIONS



15kW - 3x5kW
20kW - 4x5kW
25kW - 5x5kW
30kW - 6x5kW

Other configurations may be available upon request

Our commercial range of cylinders are made to specification, the lists above are not exhaustive, please call OSO for more information and options.

We normally offer a lead time of 4 - 6 weeks although more popular sizes could be available with lead times of around 2 - 3 days.

Cylinders are complete with G3 Kit

Please call to request current lead times

Call OSO Technical department on 0191 4827049

WARRANTY CONDITIONS

1. Scope

OSO Hotwater UK(hereinafter called OSO) warrants for 2 years from the date of purchase, that the Product will: i) conform to OSO specification, ii) be free from defects in materials and workmanship, subject to conditions below. All components carry a 2-year warranty.

The warranty is voluntarily extended by OSO to 25 years for the stainless steel inner tank. This extended warranty only applies to Products purchased by a consumer, that has been installed for private use and that has been distributed by OSO or by a distributor where the Products have been originally sold by OSO.

The extended warranty does not apply to Products purchased by commercial entities or for Products that have been installed for commercial use. These shall be subject only to the mandatory provisions of the law. The conditions and limitations set out below shall apply.

2. Coverage

If a defect arises and a valid claim is received within the statutory warranty period, at its option and to the extent permitted by law, OSO shall either; i) repair the defect, or; ii) replace the product with a product that is identical or similar in function, or; iii) refund the purchase price.

If a defect arises and a valid claim is received after the statutory warranty period has expired, but within the extended warranty period, OSO will supply a product that is identical or similar in function. OSO will in such cases not cover any other associated costs. In addition, for every year after the statutory warranty period, the claimant must contribute 4 % of the list price of the cylinder in question to OSO.

Any exchanged Product or component will become the legal property of OSO. Any valid claim or service does not extend the original warranty. The replacement Product or part does not carry a new warranty.

3. Conditions

The Product is manufactured to suit most public water supplies. However, there are certain water chemistries (outlined below) that can have a detrimental effect on the Product and its life expectancy. If there are uncertainties regarding water quality, the local water supply authority can supply the necessary data.

The warranty applies only if the conditions set out below are met in full:

- The Product has been installed by a professional installer, in accordance with the instructions in the installation manual and all relevant Codes of Practice and Regulations in force at the time of installation.
- The Product has not been modified in any way, tampered with or subjected to misuse and no factory fitted parts have been removed for unauthorized repair or replacement.
- The Product has only been connected to a domestic mains water supply in compliance with the European Drinking Water Directive EN 98/83 EC, or latest version. The water should not be aggressive, i.e. the water chemistry shall comply with the following:
 - Chloride < 250 mg / L
 - Electric Conductivity (EC) @25°C < 750 µS / cm
 - Saturation Index (LSI) @80°C > - 1,0 / < 0,8
 - pH level > 6,0 / < 9,5

- The immersion heater has not been exposed to hardness levels exceeding 10°dH (180 ppm CaCO₃). A water softener is recommended in such cases.
- Any disinfection has been carried out without affecting the Product in any way whatsoever. The Product shall be isolated from any system chlorination.
- The Product has been in regular use from the date of installation. If the Product is not intended to be used for 60 days or more, it must be drained.
- The immersion heater element must be removed for inspection on service after 5 years. The threads must be checked for corrosion. If signs of corrosion are evident, the element must be replaced. Subsequently the element must be removed and examined every 3 years. Failure to do so in areas of aggressive water may result in the element separating from the cylinder with consequential escape of water.
- Service and/or repair shall be done according to the installation manual and all relevant codes of practice. Any replacement parts used shall be original OSO spare parts.
- The Service record logbook has been completed and updated after each annual service. Invoices should be kept as proof of service.
- The Commissioning Checklist certificate has been completed at the time of installation.
- Any third-party costs associated with any claim has been authorized in advance by OSO in writing.
- The purchase invoice and/or installation invoice, a water sample as well as the defective product is made available to OSO upon request.

Failure to follow these instructions and conditions may result in product failure, and water escaping from the Product.

4. Limitations

The warranty does not cover:

- Any fault or costs arising from incorrect installation, incorrect application, lack of regular maintenance in accordance with the installation manual, neglect, accidental or malicious damage, misuse, any alteration, tampering or repair carried out by a non-professional, any fault arising from the tampering with or removal of any factory fitted safety components or measures.
- Any consequential damage or any indirect loss caused by any failure or malfunction of the Product whatsoever.
- Any pipework or any equipment connected to the Product.
- The effects of frost, lightning, voltage variation, lack of water, dry boiling, excess pressure or chlorination procedures.
- The effects of stagnant (de-aerated) water if the Product has been left unused for more than 60 days consecutively.
- Damage caused during transportation. Buyer shall give the carrier notice of such damage.
- Costs arising if the Product is not immediately accessible for servicing.
- Connection to a private water supply

These warranties do not affect the Buyer's statutory rights.

THINK FUTURE

PROCESS **BENEFITS**



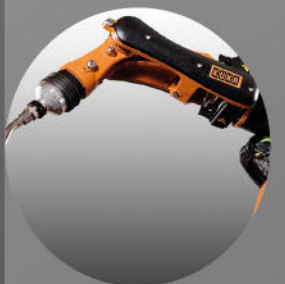
UNIQUE TECHNOLOGY

We build our own processes ensuring full ownership of the technology. In-house design, building and programming of advanced machinery with robotics, laser, and vision systems. Lean / Six Sigma philosophy and standardised process parameters ensures efficiency in manufacturing.



WELDING QUALITY

ISO 3834-2 certified (Quality requirements for fusion welding) manufacturing plant with WPS procedures supported by WPQR. Fully automated welding processes with 100 % control of key parameters in line. Minimal discoloration of HAZ post-weld. Full passivation of tanks, flushed with de-ionized water.



PROCESS CONTROL

Manufacturing in Norway has its advantages – we started automating 40 years ago. Today we're one of a few system integrators for KUKA Robotics. Automation provides us with the unique capability of implementing 100 % process control for all CTQ operations in line – without compromising efficiency.



THIRD PARTY CERTIFIED

Don't just take our word for it – independent third party certifications gives our customers peace of mind.

OHSAS 18001 (Health and Safety)

ISO 9001 (Quality)

ISO 14001 (Environment)

ISO 3834-2 (Welding)

OSO products are also approved by KIWA to building and water regulations



HOT WATER ASSOCIATION

Oso Hotwater UK is a charter member of the Hot Water Association (HWA). Charter members have had their products and literature independently audited to verify performance claims and to ensure that product meet or exceed appropriate standards and regulations.