

Accessories for Water Heaters and Storage Vessels

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With a product range that includes ribbed-tube heat exchangers, insulation fittings and capillary dip tubes for temperature sensors, Flamco's range of accessories for water heaters and storage vessels is extensive.

As with the calorifiers and storage vessels, the range of accessories is made from the highest quality materials and contributes to the efficiency of the system.

EPS insulating mantle



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25mm Vapour-tight insulation mantle



P. 209

Insulating Connection Cap



P. 209

Reducing flange



P. 210

Reducing flange - Stainless steel



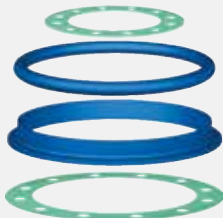
P. 210

Blind flange



P. 210

Gaskets



P. 210

EHF heating element



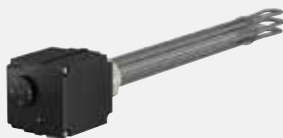
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EHK heating element



P. 211

EHK-E stainless steel heating element



P. 211

RWT ribbed heating coil



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IVS insulation coupling



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Prescor T&P



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TH thermometer



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ATH wall-mounted thermostat



P. 213

TR immersion pipe for temperature sensor



P. 213

FSA no-maintenance anode



P. 213

Magnesium anode (MgA)



P. 213

Foot height adjuster



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PSV connector



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Circulation set



P. 214

Oval lid for service hatch - Stainless steel



P. 214

Accessories for Water Heaters and Storage Vessels

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Type				Inspection port		Reducing Flange		Gasket DN 110-F / DN 110 m. socket G 1½"		Heating element with flange connection		Thermometer		Plunge pipe 1)		Magnesium anode (spare part)		Screw-in heating element		Maintenance-free anode		Insulation coupling	
LS	200																						
	300																						
	500	110			•	•																	
	750	110			•	•	•	•															
	1000	110			•	•	•	•	•														
	1500	110			•	•	•	•	•	•													
	2000	110			•	•	•	•	•	•	•												
LS-E	3000	110			•	•	•	•	•	•													
	300																						
	500																						
	750	110	•	•																			
	1000	110	•	•																			
	500	110			•	•	•	•	•	•													
	750	2 x 110			•	•	•	•	•	•	•												
DWH	1000	2 x 110			•	•	•	•	•	•	•												
	1500	2 x 205			R	R	R	R	R	R	R												
	2000	2 x 205			R	R	R	R	R	R	R												
	3000	3 x 205			R	R	R	R	R	R	R												
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				R	R	R	R	R	R														

• = Can be used without additional accessories.

A = Can be built in using DN 110 flange adapter including sleeve/socket G 1½" (order code 18967); alternatively can be fitted directly into sleeve/socket G 1½" above the lower coil (Mg anode must be replaced with maintenance-free anode from EHK 3 in 400 and 500 litre model).

B = Can be built in using DN 110 flange adapter including sleeve/socket G 1½" (order code 18967, for stainless steel calorifiers in combination with stainless steel reducing flange DN 110 including socket G 1½" (order code 19458)).

C = Can be fitted directly into sleeve/socket G 1½" above the lower coil, or with the Duo, Duo Solar <400 in between the lower coil.

D = For Duo 1000 Ø 850 (old model) only.

E = Can be fitted directly into sleeve/socket G 1½" above the lower coil; Mg anode must be replaced with maintenance-free anode in 400/500 litre models.

I = Use in combination with IVS insulation coupling only; a prerequisite for glass lined water heaters.

K = For models with cleaning flange only.

R = Can be built in using adapter flange. DN 205/DN 110 (order code 18920).

1) Standard here means that the plunge pipe is already built in. (Varies in length depending on the type).

Accessories for Water Heaters and Storage Vessels

Type				Inspection port		Reducing Flange		Gasket DN 110-F / DN 110 m. socket G 1/2"		Heating element with flange connection		Thermometer		ATH External thermostat		Plunge pipe 1)		Magnesium anode (spare part)		Screw-in heating element		Maintenance-free anode		Isulation coupling		Foot-height adjuster		PSV buffer vessel connector	
PS	200																												
	300																												
	500																												
	600																												
	750																												
	825																												
	850																												
	1000																												
	1200																												
	1500																												
	1800																												
	2000																												
	3000																												
	4000																												
	5000																												
PS-R	300																												
	500																												
	600																												
	750																												
	850																												
	1000																												
	1200																												
PS-T	600																												
	750																												
	850																												
	1000																												
	1200																												
	1500																												
PS-K	500																												
	750																												
	1000																												
	1500																												
	2000																												
	2500																												
	3000																												

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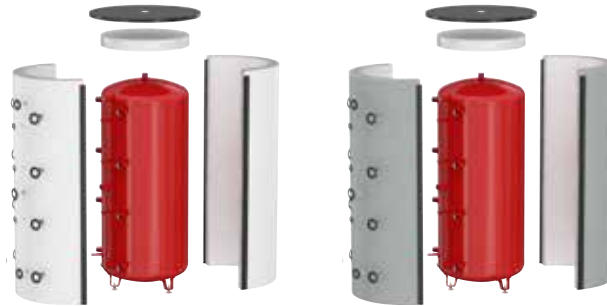
- = Can be used without additional accessories.

INSULATION MANTLES

EPS insulating mantle

EPS insulating mantle with a polypropylene outer shell and lid (white, RAL 9010 / white aluminium, RAL 9006).

- Approximately 25% reduction of heat loss compared to soft foam insulation.
- EPS insulating mantle: fire category B1 according to DIN 4102.
- Thermal conductivity = 0.032 W/(m.K) according to DIN EN 12667.
- Easy to install using a zip.



Type	Colour	Thickness [mm]		Order Code
200 PS	white	80	1	18675
200 PS	white aluminium	80	1	18676
300 PS, PS-R	white	80	1	18678
300 PS, PS-R	white aluminium	80	1	18679
500 PS, PS-R, KPB, KPS, Duo FWS, FWP	white	80	1	18681
500 PS, PS-R, KPB, KPS, Duo FWS, FWP	white aluminium	80	1	18682
600 PS, PS-R, PS-T, KPB, KPS	white	80	1	18684
600 PS, PS-R, PS-T, KPB, KPS	white aluminium	80	1	18685
750 PS, PS-R, PS-T, KPB, KPS, Duo FWS, FWP	white	80	1	18687
750 PS, PS-R, PS-T, KPB, KPS, Duo FWS, FWP	white aluminium	80	1	18688
850 PS, PS-R, PS-T, KPB, KPS	white	80	1	18690
850 PS, PS-R, PS-T, KPB, KPS	white aluminium	80	1	18691
1000 (Ø 790) PS, PS-R, PS-T, KPB, KPS, Duo FWS, FWP	white	80	1	18693
1000 (Ø 790) PS, PS-R, PS-T, KPB, KPS, Duo FWS, FWP	white aluminium	80	1	18694
1000 (Ø 850) PS, PS-R, PS-T	white	80	1	18696
1000 (Ø 850) PS, PS-R, PS-T	white aluminium	80	1	18697
1200 PS, PS-R, PS-T	white	100	1	18699
1200 PS, PS-R, PS-T	white aluminium	100	1	18700
1500 PS, PS-R, PS-T, Duo FWS, FWP	white	100	1	18702
1500 PS, PS-R, PS-T, Duo FWS, FWP	white aluminium	100	1	18703
1800 PS	white	100	1	18705
1800 PS	white aluminium	100	1	18706
2000 PS, PS-R, PS-T	white	100	1	18708
2000 PS, PS-R, PS-T	white aluminium	100	1	18709
3000 PS	white	100	1	18711
3000 PS	white aluminium	100	1	18712
4000 PS	white	100	1	18714
4000 PS	white aluminium	100	1	18715
5000 PS	white	100	1	18717
5000 PS	white aluminium	100	1	18718

25mm Vapour-tight insulation mantle

Vapour-tight insulation for use in cooling water installations.

- Fire category B1 according to DIN 4102.
- λ – value according to DIN EN 12667:
0.031 W/(m.K) at -20 °C
0.035 W/(m.K) at +20 °C
- Temperature range (min./max.): -200 °C / +105 °C.
- Diffusion resistance according to EN 12086 (DIN 52615): $\mu = 10000$.
- Thickness: 25 mm (if used as insulation).
- Corrosion risk according to DIN 1988/7: pH neutral.



Type	Colour		Order Code
500 PS-K	black	1	18270
750 PS-K	black	1	18271
1000 PS-K	black	1	18272
1500 PS-K	black	1	18273
2000 PS-K	black	1	18274
2500 PS-K	black	1	18275
3000 PS-K	black	1	18276

Insulating Connection Cap

Insulating cap (EPP) for unused connections of Flamco Water Heaters and Storage Vessels.



Type	For connection	Ø [mm]		Order Code
Type 1	$\leq 1 \frac{1}{2}"$	100	1	18938
Type 2	$1 \frac{1}{2}" < x \leq 2"$	232	1	18939

FLANGES AND GASKETS

Reducing flange



- With high quality glass lining.
- Including gasket and M12 bolts.

Type		Order Code
Reducing flange DN 205 / DN 110	1	18920
Reducing flange DN 110 / G 1 1/2 *	1	18967
Reducing flange DN 205 / G 1 1/2 *	1	18969

* Including socket G 1 1/2". For mounting the screw-in heating element EHK.

Reducing flange - Stainless steel



Flange DN 110 with G 1 1/2" connection. The G 1 1/2" connection of the flange allows to combine accessories such as an additional immersion heater (EHK-E) with a stainless steel calorifier.

- Stainless steel 1.4301.
- For LS-E 750 - 1000, Duo HLS-E 750 - 1000 and Duo HLS-E Solar 750 - 1000.

Type		Order Code
Reducing flange DN 110 / G 1 1/2" - Stainless steel	1	19458

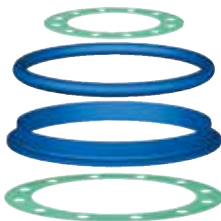
Blind flange



- With high quality glass lining.
- Including gasket and bolts.

Type		Order Code
Blind flange DN 110	1	18980
Blind flange DN 205	1	18922

Gaskets



Type		Order Code
Gasket DN 110 - Surface-sealing	1	18990
Gasket DN 110 - Lip seal	1	18993
Gasket DN 120	1	18992
Gasket DN 205	1	18923

HEATING ELEMENTS

EHF heating element



Electric heating element (Incoloy) including flange.

Type	Power supply [V]	Power output [kW]	Built-in length [mm]	System connection		Order Code
EHF 2.5	400	2.5	450	DN 110	1	18910
EHF 3	400	3.0	450	DN 110	1	18911
EHF 3.8	400	3.8	450	DN 110	1	18912
EHF 5	400	5.0	450	DN 110	1	18913
EHF 6	400	6.0	450	DN 110	1	18914
EHF 7.5	400	7.5	450	DN 110	1	18915
EHF 10	400	10.0	450	DN 110	1	18916
EHF 12 *	400	12.0	530	DN 110	1	18917
EHF 15 *	400	15.0	630	DN 110	1	17340
EHF 25 *	400	12.5 / 25	620	DN 205	1	17346
EHF 45 *	400	15 / 30 / 45	620	DN 205	1	17345

* External relays for temperature regulation and temperature limiter are mandatory.

EHK heating element



Electrical screw-in heating element for glass lined calorifiers.

Type	Power supply [V]	Power output [kW]	Built-in length [mm]	Connection		Order Code
EHK 2 ^{1) 2)}	230	2.0	320	G 1 1/2"	1	18930
EHK 3 ^{1) 2)}	400	3.0	390	G 1 1/2"	1	18931
EHK 4.5 ^{1) 2)}	400	4.5	470	G 1 1/2"	1	18932
EHK 6 ²⁾	400	6.0	620	G 1 1/2"	1	18933
EHK 7.5	400	7.5	720	G 1 1/2"	1	18934
EHK 9	400	9.0	780	G 1 1/2"	1	18935

¹⁾ EHK 2 - 4.5 for building into Duo 120 - 300, Duo Solar 300: Also order a reducing flange DN 110 including G 1 1/2" (18967).

²⁾ Duo/Duo Solar 300 and over may be fitted with a built-in element using a G 1 1/2" connection above the lower heater exchanger. In this case the Mg anode should be replaced with an FSE type anode within vessels of 400 and 500 litres in which elements EHK 3 and above are used. The EHK 6 may only be used in cylinders of 400 litres and above.

EHK-E stainless steel heating element



Electrical screw-in heating element for stainless steel calorifiers.

- Reducing flange DN 110 including G 1 1/2" connection (order code 19458) can be ordered separately.

Type	Power supply [V]	Power output [kW]	Built-in length [mm]	Connection		Order Code
EHK-E 3	400	3.0	290	G 1 1/2"	1	19453
EHK-E 4.5	400	4.5	350	G 1 1/2"	1	19454
EHK-E 6	400	6.0	450	G 1 1/2"	1	19455
EHK-E 8	400	8.0	650	G 1 1/2"	1	19456
EHK-E 10	400	10.0	750	G 1 1/2"	1	19457

RWT ribbed heating coil



- With blind flange.
When installed in glass lined calorifiers, insulating fittings are required.

Type	Connection		Built-in length [mm]	Heating surface area [m²]		Order Code
	Flange [DN]	Thread				
RWT 4.6	205	G 1" M	790	4.6	1	18944

IVS insulation coupling



- Set for ribbed heating coil RWT.
- 1 set = 2 pieces.

Type		Order Code
IVS - G 1/2	1	18945
IVS - G 3/4	1	18946
IVS - G 1	1	18947

PRESCOR T&P VALVE

The Prescor T&P temperature and pressure relief valves control and limit the temperature and pressure of the hot water contained in a domestic water heater or storage vessel and prevent it from being able to reach temperatures that are too high.

On reaching the settings, the valve discharges a sufficient amount of water into the atmosphere so that the temperature and pressure return within the system's operating limits.

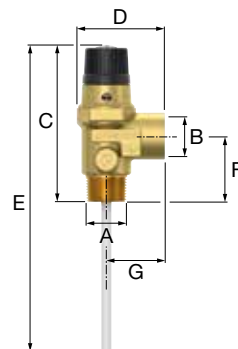
The valve opens the outlet on reaching the settings for:

- **Temperature:** the thermostat compound inside the temperature sensor, submerged in the hot water storage heater, expands as the temperature increases. This expansion causes a thrust pin to move and act on the obturator, opening the valve.
- **Pressure:** The obturator, opposed by a set spring, raises on reaching the pressure setting and opens the outlet completely. The pressure setting is chosen according to the maximum permissible pressure in the system.

As the temperature and pressure decrease, the opposite action occurs with the valve subsequently reclosing within the set tolerances.

Prescor T&P

- Opening temperature: 89 °C / 96 °C.
- Minimum/Maximum working temperature: -10 °C / 120 °C.
- Peak load: 140 °C.



Type	Set pressure [bar]	Connection		Dimensions					Heating capacity [kW]		Order Code
		A	B	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]			
Prescor T&P - 3.5 bar	3.5	22 mm	22 mm	110		198	51	47	23	1	27135
Prescor T&P - 7 bar	7.0	R 3/4"	G 3/4" M	101		198	42	38	23	1	27146

THERMOSTATS AND THERMOMETERS

TH thermometer



Type		Order Code
TH 50/40	1	18928
TH 80/100 1/2" *	1	18926
Built-in thermometer with capillary sensor	1	18927

* Including immersion pipe.

ATH wall-mounted thermostat



- Including safety temperature limiter.
- Temperature range (min./max.): 30 °C / 90 °C.
- Power supply 230V / 50 Hz.

Type	Switching load [A]	Connection		Order Code
ATH	16	1/2"	1	18951

TR immersion pipe for temperature sensor



Type	Connection	Length [mm]		Order Code
TR G 1/2 / 300	G 1/2"	300	1	18955
TR G 3/4 / 200	G 3/4"	200	1	18956

ANODES

FSA no-maintenance anode



- Power supply 230V / 50 Hz.

Type	Suitable for	Connection	Built-in length [mm]		Order Code
FSA 400	Duo 120-500, Duo Solar 200-500, UHP 110-160, LS 200-750, KPS, KPB	G 3/4" M	400	1	18960
FSA 800	Duo/Duo Solar 750-1000, LS 1000	G 3/4" M	800	1	18961
FSA 401	UHP 110-160, TS 120-200	M 8 M	400	1	18962
FSA 801	Duo 1000 (Ø 850)	M 8 M	800	1	18963

Magnesium anode (MgA)

- Replaceable magnesium anode.



Type	Application	Connection	Built-in length [mm]		Order Code
MgA 500 - M	Duo 120-300, LS 200-500, UHP 110-160, KPS, KPB	G 1 1/4" M	500	1	18970
MgA 700 - M	Duo 400-500, Duo Solar 300-400, LS 750	G 1 1/4" M	700	1	18971
MgA 700 - L 22	TS 120-200, UHP (B) 110-160	M 8 M	700	1	18974
MgA 900 - M	Duo Solar 500, LS 1000, Duo HLS 300-400, HLS-Solar 400	G 1 1/4" M	900	1	18973
MgA 1100 - M	Duo HLS 500, Duo Solar 500	G 1 1/4" M	1100	1	18977
MgA 1500 - M	Duo/Duo Solar 750 - 1000	G 1 1/4" M	1500	1	18975
MgA 1500 - L	Duo 1000 (Ø 850)	M 8 M	1500	1	18976

OTHER ACCESSORIES

Foot height adjuster



- Set of three adjustable feet.

Type	Application		Order Code
Foot height adjuster	Duo 120 - 500, Duo Solar 200 - 500, Duo HLS 300 - 500, HLS Solar	1	18989

PSV connector



For connecting two or more PS 500 - 2000 or PS-R 750 - 2000.

- Complete with plastic connectors and gasket on both sides.
- Maximum length: 300 mm.
- Maximum working pressure: PN 6.
- Maximum working temperature: 80 °C.
- Maximum torque: 35 Nm.

Type	Connection		Order Code
PSV	1 1/2" M	1	18996

Circulation set



- For Duo FWS and FWP.
- The set consists of various bronze fittings and a ribbed stainless steel pipe with brazed bronze double nipples for connecting the recirculation pipe to the hot water outlet connection.

Type		Order Code
Circulation set	1	18937

Oval lid for service hatch - Stainless steel



- Oval lid for stainless steel calorifiers.
- For LS-E, Duo HLS-E, Duo HLS-E Solar, WPS-E and WPS-E Solar.
 - Complete with gasket and fixing strap.

Type		Order Code
Oval lid for service hatch - stainless steel	1	19460