

Accessories for Water Heaters and Storage Vessels

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.



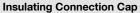
Insulation mantles

100mm Fleece insulation mantle (polyester fibre)

- Polyester fibre-fleece insulation mantle with a polystyrene outer shell and lid.
- Approximately 25% reduction of heat loss compared to soft foam insulation.
- Thickness: 100 mm.
- Easy to install by means of a hook attachment.

25mm Vapour-tight insulation mantle

- Temperature range: -200 105 °C.
- Thickness: 25 mm (if used as insulation).



 Insulating cap (EPP) for unused connections of Flamco water heaters



and buffer vessels.



Anodes

FSA no-maintenance anode

Electric anode.



Magnesium anode (MgA)

• Replaceable Mg-anode.

Thermostats and thermometers

ATH thermostat for external mounting

· Including safety temperature limiter



TH thermometer

Including immersion pipe.



TR immersion pipe

• For temperature sensor.



Prescor T&P valve

Prescor T&P

- Controls and limits the temperature and pressure in water heaters or storage vessels.
- Opening temperature: 89 96 °C.
- Set pressure: 3.5 / 7.0 bar.



Heating elements

EHF heating element

· Electric heating element (Incoloy) including flange.



EHK heating element

Electrical screw-in heating element.



EHK-E stainless steel heating element

· Electrical screw-in heating element for stainless steel calorifiers.



RWT ribbed heating coil

• With blind flange.



IVS insulation coupling
• For ribbed heating coil RWT.



Flanges and gaskets

Reducing flange

 Glass lined, including gasket and M12 bolts.



Reducing flange - Stainless steel

 Flange DN 110 with G 1 ½' connection for combining accessories such as an additional immersion heater (EHK-E) with a stainless steel calorifier.



Blind flange

- Corrosion protection is equal to the corresponding vessel.
- · Including bolts and gasket.





Other accessories

Foot height adjuster

• Set of three adjustable feet.



PSV connector

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



Circulation set

For Duo FWS and FWP.

 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.

Oval lid for service hatch -Stainless steel



 Oval lid for stainless steel calorifiers, complete with gasket and fixing strap.





Accessories for Calorifiers and Storage Vessels

			G 11%"				Heating element	lige Hon					meter		External thermostat		Dibbod tubo boot	unde mear der	i .		pipe 1)				Magnesium anode							in heating	element						Maintenance-iree			lendation counting			
			m socket				Heating						Thermometer		Externa		Dibbod	exchanger			Plunge pipe 1)				Magne							Screw-	elemen					P.M. C. L.	Mainte	allone		lentatio			ector
Item		Inspection port	Reducing Flange Gasket DN 110-F / DN 110 m. socket G 11/2"	EHF 2.5	EHF 3	8	EHF 5	EHF 6		EFF 10	EHF 12	TH 63/100	TU 50/40	Ruilt-in thermometer	ATH	RWT 1	RWT 1,8	RWT 2,3	RWT3	RWT 4,6	TR %" L = 300 mm	MGA 500-M	MGA 700-M	MGA 700-L 22	MGA 900-M	MGA 1100-M	MGA 1500-IM	FHK 2	EHK 3	EHK 4,5	EHK 6	2			EHK-E 4,3	EHK-E 6	EMK-E 10	FSA 400	FOA 404	FSA 801	1 34 00 I	IVS - G %	IVS - G 1"	Foot-height adjuster	PSV buffer vessel connector
Duo	120 150 200 300 400 500 750 1000 1500 2000 3000	110 110 205 205 205 205 205		• R R R R R	R R R	• • R R R R R	• • R R R R R R	• • R R R R R R	• R R R R R	• RRRRRRRR	R R R R	7,000		Stalldard			1 1 1 1 1	1 1 1 1 1	I I I I		Standard	•	•				• [C C C A A C C C	CCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	C C C A A C C	_	CCC								C	F. D.V.T.4	For RWT1 8 - 3	For RWT4.6	•	
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(A)				10 m. socket G 1½"			Heating element	with flange	connection					Thermometer		External thermostat		Dibbod tube beet	Archanger	gyniaiiga		Plunae pipe 1)					Magnesium anode								Screw-in heating	element							Maintenance-free	anode			Isulation coupling			nnector
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- = Can be used without additional accessories.
- A = Can be built in using blank 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 liter model).
- B = Can be built in using blank DN 110 flange adapter including sleeve/socket G 1½" (order code 18967).
- $C = Can be fitted directly into sleeve/socket G 1 \frac{1}{2}" above the lower coil.$
- $D = For Duo 1000 \varnothing 850$ (old model) only.
- E = Can be fitted directly into sleeve/socket G 11/2" 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 enamelled 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 Calorifiers and Storage Vessels

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				m cocket	III. SOCROL		:	Heating element	With flar					Thermometer			External		Ribbed 1	exchanger	,		Plunge pipe 1)				Magnes								Screw-ir							Mainten	anode		-	Isulatio		nontar
	yp .		Inspection port	Gasket DN 110-F / DN 110	EHF 2.5	EHF3	EHF 3,8	EHF5	EHF 6	EHF 7,5	EF 10	EHF 12	TH 63/100	TH 80/100	TH 50/40	Built-in thermometer	АТН	RWT 1	RWT 1,8	RWT 2,3	KWI 3	KW I 4,6	TR %" L = 500 mm	MGA 500-M	MGA 700-M	MGA 700-L 22	MGA 900-M	MGA 1100-M	MGA 1500-M	MGA 1500-L 22	EHK 2	CHK 3	FHK 6	EHK 7.5	EHK 9	EHK-E 3	EHK-E 4,5	EHK-E 6	EHK-E 8	EHK-E 10	FSA 400	FSA 800	FSA 401	FSA 801	IVS - G ½"	IVS - G 1"	Foot-height adjuster	PSV huffer vessel connector
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	+ 🕒	0 m.socket G 1½"		,	Heating element with flange	connection			i	Inermometer	Extornol thormostot	External thermostat	Dilliand Archaelle	Kibbed tube neat exchanger	,	Plunge pipe 1)			Mono miloomon	Magnesium anode						Screw-in heating	element					Maintenance-free	anode		Isulation coupling		Johnson	IIIECTOI
Тур	J	Inspection port Reducing Flange Gasket DN 110-F / DN 110 m. socket G 11%"	EHF 2.5	EHF 3,8	EHF 5	EHF 6	EHF 10	EHF 12	TH 63/100 TH 80/100	TH 50/40	Built-in thermometer	RWT 1	RWT 1,8	RWT 2,3	RWT 3 RWT 4.6	TR ½" L = 300 mm TR ¾" L = 200 mm	MGA 500-M	MGA 700-M	MGA 700-L 22	MGA 1100-M	MGA 1500-M	MGA 1500-L 22 EHK 2	EHK 3	EHK 4,5	EHK 6	EHK 9	EHK-E 3	EHK-E 4,5	EHK-E 6	EHK-E 8	FSA 400	FSA 800	FSA 401	FSA 801	IVS - G %"	IVS - G 1"	Foot-height adjuster	רטע שמוופו עפטפו עטו
FWP	500 750 1000 1500								• • • • • •			•				•						•	•	•	•	• •												•
КРВ	500/155 600/155 750/155 850/175 1000/215								• • • • • • • • • • • • • • •							•	•						•	•	•	• •					•							•
Duo FWS	500 750 1000 1500								• •		,	•				•						•	•	•	•	• •												•
KPS	500/155 600/155 750/155 850/175 1000/215								• • • • • • • • • • • • • • • • • • •			•				•	•						•	•	•	• •					•							• • •

• = Can be used without additional accessories.



Flamco Fleece Insulation: The Solution For Reduction Of Heat Losses

Fleece insulation jackets from Flamco are supplied as a complete set, can be quickly fitted and is highly versatile.

The advantages of fleece insulation:

- Lightweight.
- Good fit.
- Easy to fit.
- · Ready assembled.
- Fire-safety class B2, according to DIN 4102.



Versatile

Our fleece insulation is available for the PS, PS-R and PS-T storage vessels and the FWP and Duo FWS combi heaters. Above 750 litres all (except Supastor) water heaters and storage vessels for potable water are fitted with fleece insulation mantles as standard.

Moreover, the new materials conform to the B2 fire-safety class under the terms of DIN 4102.







PS

PS-R

Quickly and easily fitted

With the aid of the hooked fastening strips the fleece insulation can be easily and quickly fitted in a few simple steps.



The insulating jacket is fitted around the vessel and secured in place using the hooked fastening strips. The jacket can be smoothed and lightly tapped with the hand until it fits snugly to the surface of the vessel. Then the fastening strips can be tightened, working from top to bottom, so that the jacket fits tightly all around the vessel. Once fitting is complete, the fastening strips can be conveniently concealed with the covering strips provided.

Well Insulated

The new insulating jacket ensures that heat losses can be reduced to a minimum. This insulating jacket comprises insulating material which is particularly ecologically sound as it contains 50% recycled material. The precise fit ensures minimum convection losses. This keeps the heat where it belongs.

Completely equipped

The Flamco insulation set contains all you need for the best in heat insulation and comprises 100 mm of polyester fleece insulation and a polystyrol jacket, flexible fleece inserts for the top and bottom, a cover, a set of escutcheons, fastening strips and two covering strips to secure the connections.















KPB



INSULATION MANTLES

100mm Fleece insulation mantle (polyester fibre)

Polyester fibre-fleece insulation mantle with a polystyrene outer shell and lid.

- Approximately 25% reduction of heat loss compared to soft foam insulation.
- 50% of the polyester fibre-fleece is recycled.
- Fire category B2 according to DIN 4102.
- Thermal conductivity = 0.043 W/(m.K) according to DIN EN 12667.
- Thickness: 100 mm.
- Easy to install by means of a hook attachment.
- Retrofitting is not possible. Mantles for retrofitting are available upon request.



Туре	Colour		Order
		🕶	Code
200 PS	white	1	18732
200 PS	silver	1	18746
300 PS, PS-R	white	1	18611
300 PS, PS-R	silver	1	18626
500 PS, PS-R, KPB, KPS, Duo FWS, FWP	white	1	18762
500 PS, PS-R, KPB, KPS, Duo FWS, FWP	silver	1	18769
600 PS, PS-R, PS-T, KPB, KPS, Duo FWS, FWP	white	1	19381
600 PS, PS-R, PS-T, KPB, KPS, Duo FWS, FWP	silver	1	19382
750 PS, PS-R, PS-T, KPB, KPS, Duo FWS, FWP	white	1	18765
750 PS, PS-R, PS-T, KPB, KPS, Duo FWS, FWP	silver	1	18775
850 PS, PS-R, PS-T, KPB, KPS, Duo FWS, FWP	white	1	18868
850 PS, PS-R, PS-T, KPB, KPS, Duo FWS, FWP	silver	1	18867
1000 (Ø 790) PS, PS-R, PS-T, KPB, KPS, Duo FWS, FWP	white	1	18870
1000 (Ø 790) PS, PS-R, PS-T, KPB, KPS, Duo FWS, FWP	silver	1	18879
1000 (Ø 850) PS, PS-R, PS-T	white	1	18858
1000 (Ø 850) PS, PS-R, PS-T	silver	1	18014
1200 PS, PS-R, PS-T, Duo FWS, FWP	white	1	18877
1200 PS, PS-R, PS-T, Duo FWS, FWP	silver	1	18894
1500 PS, PS-R, PS-T, Duo FWS, FWP	white	1	18882
1500 PS, PS-R, PS-T, Duo FWS, FWP	silver	1	18908
1800 PS	white	1	18884
1800 PS	silver	1	18008
2000 PS, PS-R, PS-T, Duo FWS, FWP	white	1	18887
2000 PS, PS-R, PS-T, Duo FWS, FWP	silver	1	18010
3000 PS	white	1	18674
3000 PS	silver	1	18012
4000 PS	white	1	19341
4000 PS	silver	1	19342
5000 PS	white	1	19345
5000 PS	silver	1	19346

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: -200 105 °C.
- Diffusion resistance according to EN 12086 (DIN 52615): μ = 10000.
- Thickness: 25 mm (if used as insulation).
- Corrosion risk according to DIN 1988/7: pH neutral.





Туре	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 buffer vessels.



Туре	For connection	Ø [mm]		Order Code
Type 1	≤ 1 ¹/₂"	100	1	18938
Type 2	1 ¹/₂" < x ≤ 2"	232	1	18939



ANODES

FSA no-maintenance anode

Power supply 230V / 50 Hz.

Туре	Suitable for	Connection	Built-in length [mm]	*	Order Code
FSA 400	Duo 120-500, Duo Solar 200-500, UHP 110-160 basic, LS 200-750, KPS	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	M8M	400	1	18962
FSA 801	Duo 1000 (Ø 850)	M8M	800	1	18963



Magnesium anode (MgA)

Replaceable.

Туре	Application	Connection	Built-in length [mm]		Order Code
MgA 500 - N	Duo 120-300, LS 200-500, UHP 110- 160 basic, KPS	G 1 1/4" M	500	1	18970
MgA 700 - N	Duo 400-500, Duo Solar 300-400, LS 750	G 1 ¹ / ₄ " M	700	1	18971
MgA 700 - L	TS 120-200, UHP (B) 110-160	M8M	700	1	18974
MgA 900 - N	Duo Solar 500, LS 1000, Duo HLS 300-400, HLS-Solar 400	G 1 ¹ / ₄ " M	900	1	18973
MgA 1100 - N	Duo HLS 500, Duo Solar 500	G 1 1/4" M	1100	1	18977
MgA 1500 - N	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



THERMOSTATS AND THERMOMETERS

ATH wall-mounted thermostat

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

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



TH thermometer

Including immersion nine

Including infinersion pipe.		
Туре		Order Code
TH 50/40 1/2"	1	18928
TH 63/100 ½"	1	18925
TH 80/100 ½"	1	18926
Built-in thermometer with capillary sensor	1	18927



Th initiersion pipe for temperature sensor					
Туре	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	



HEATING ELEMENTS

EHF heating element

Electric heating element (Incoloy) including flange.

Туре	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	25.0	630	DN 110	1	17346
EHF 45 *	400	15 / 20 / 30 / 35 / 45	630	DN 165	1	17345



EHK heating element

Electrical screw-in heating element.

Туре	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 ½" (18967).

²⁾ Duo/Duo Solar 300 and over may be fitted with a built-in element using a G 1½" 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.

Туре	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						
Туре	Conn Flange [DN]	ection Thread	Built-in length [mm]	Heating surface area [m²]	*	Order Code
RWT 4.6	_	G 1" M	790	4.6	1	18944



IVS insulation coupling

For ribbed heating coil RWT.

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



^{*} External relays for temperature regulation and temperature limiter are mandatory.

FLANGES AND GASKETS

Reducing flange

• Glass lined, including gasket and M12 bolts.

Туре		Order Code
Reducing flange DN 205 / DN 110	1	18920
Reducing flange DN 180 / DN 110	1	18919
Reducing flange DN 110 / G 1 1/2 *	1	18967
Reducing flange DN 180 / G 1 1/2 *	1	18968
Reducing flange DN 205 / G 1 1/2 *	1	18969



Reducing flange - Stainless steel

Flange DN 110 with G 1 $\frac{1}{2}$ " connection. The G 1 $\frac{1}{2}$ " 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.

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



Blind flange

- Corrosion protection is equal to the corresponding vessel.
- · Including bolts and gasket.

Туре	*	Order Code
Blind flange DN 110	1	18980
Blind flange DN 180	1	18981
Blind flange DN 205	1	18922



Gaskets		
Туре		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
Gasket DN 180	1	18991



OTHER ACCESSORIES

Foot height adjuster

• Set of three adjustable feet.

-			
Туре	Application		Order Code
Foot height adjuster	Duo 120 - 500, Duo Solar 200 - 500, Duo HLS 300 - 500 en HLS Solar	1	18989
Foot height adjuster	FWS/FWP 750-1000	1	18152



PSV connector

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

- Complete with plastic connectors on both sides.
- Max. length: 300 mm.
- Max. working pressure: PN 6.
- Max. working temperature: 80 °C 100 °C .
- Max. torque: 35 Nm.

Туре	Connection	*	Order Code
PSV	1 1/2" M	1	18996



 $^{^{\}star}$ Including reducing ring G 1 ½". For mounting the screw-in heating element EHK.

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.

Туре		Order Code
Circulation set	1	18937

Oval lid for service hatch - Stainless steel

Oval lid for stainless steel calorifiers, complete with gasket and fixing strap.

• For LS-E, Duo HLS-E, Duo HLS-E Solar, WPS-E, WPS-E XL and WPS-E Solar.

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



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:

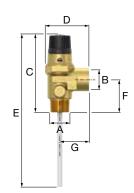
- **Temperature**: the thermostat compound inside the temperature sensor, submerged in the hot water storage heater, expands as the temperature increases. This expansion causes a thrust pin to move and act on the obturator, opening the valve.
- **Pressure**: The obturator, opposed by a set spring, raises 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 96 °C.
- Min./Max. working temperature: -10 °C / 120 °C.
- Peak load: 140 °C.





Туре		Set pressure [bar]	Conn A	ection B	C [mm]	Di D [mm]	mensio E [mm]	rs F [mm]	G [mm]	Heating capacity [kW]		Order Code
Prescor T&P - 3.5 ba	r	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

