

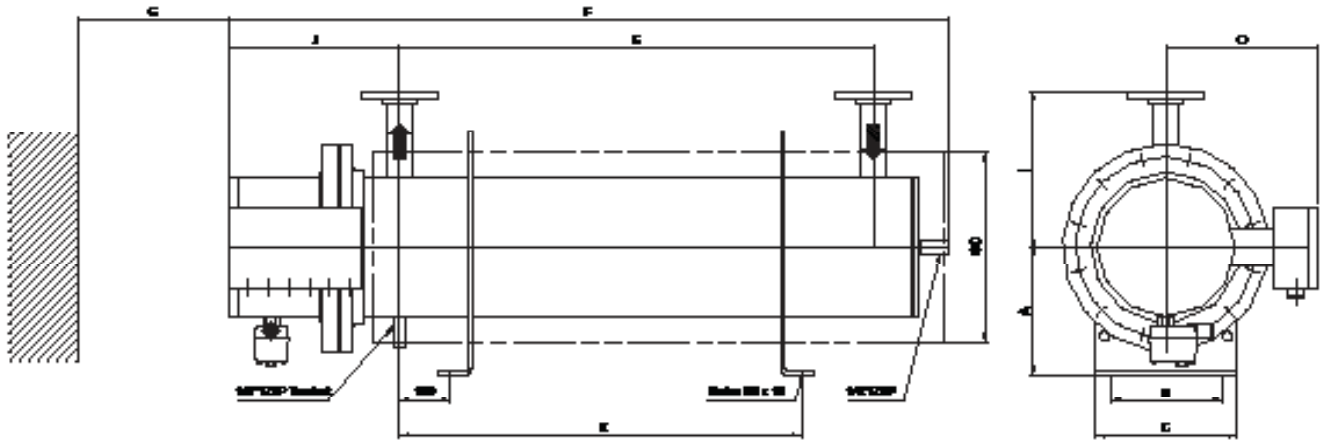


## Aalborg EH

Versatile electrical booster, auxiliary oil and water heater



Aalborg EH is a flow-through electrical heater, ideal for heating of oil or water. Its heat load capacities range from 3 to 367 kW, with design conditions up to 16 bar and 160°C. The standard Aalborg EH can be mounted both vertically and horizontally, but is also available as outflow suction heater or tank mounted immersion heater. The Aalborg EH heater is approved by all major marine classification societies, and is CE/PED approved.



All dimensions are a guideline only.  
Dimension drawing will be made upon request.

Electric power supply terminals (110-690 V AC/DC), safety thermostat and the optional control thermostat are located on the top hood.

**Design pressure:** 16 bar (EH40-15 bar)  
**Design temperature:** 160°C  
**Flanges:** PN 16/JIS-16K/EN1092-1 PN16

**Mounting style:**  
Vertically or horizontally  
Dimensions in mm  
Weights in kg

**Surface loads:**  
Lubrication oil 1.0 W/cm<sup>2</sup>  
Heavy fuel oil 1.4 W/cm<sup>2</sup>  
Water 3.0 W/cm<sup>2</sup>

**Accessories (optional):**  
Safety valve  
Drain valve  
Pressure gauge  
Thermometer  
Pt. 100 sensor (optional)

## Standard product range

## Capacity and dimensions

Type	EH 15			EH 20			EH 25				EH 30				EH 35				EH 40							
Capacity kW	Lub. oil (kW)	5	7	8.5	12	14	17	21	23	26	29	33	37	40	45	48	51	59	63	74	78	96	100	111	116	121
	Fuel oil (kW)	7	10	12	17	20	24	30	33	36	40	47	52	56	63	68	72	83	88	104	110	135	141	156	164	171
	Water (kW)	15	21	26	36	42	51	64	70	77	85	101	111	120	135	146	154	178	188	223	235	289, 302, 335, 351, 369				
No of elements	9			18			27	30	27	30	42	39	42	39	42	54	51	54	51	54	66	69	63	66	69	
Flange size DN	DN 25, 30, 40			DN 25, 32, 40, 50, 65			DN 32, 40, 50				DN 40, 50, 65, 80				DN 40, 50, 65, 80				DN 50, 65, 80							
Elements length	600	850	1000	850	850	1000	850	850	1000	1000	850	1000	1000	1200	1200	1000	1200	1200	1500	1500	1500	1500	1800	1800	1800	
A	200			250			250				250				250				300							
B	220			220			220				220				300				300							
C	270			280			280				280				350				350							
E	420	670	820	670	670	820	670	670	820	820	670	820	820	1020	1020	820	1020	1020	1320	1320	1300	1300	1600	1600	1600	
F	891	1141	1291	1137	1137	1287	1142	1142	1292	1292	1152	1302	1302	1502	1502	1309	1509	1509	1809	1809	1814	1814	2114	2114	2114	
G	570	820	970	820	820	970	820	820	970	970	820	970	970	1170	1170	970	1170	1170	1470	1470	1470	1470	1770	1770	1770	
I	254			280			307				332				348				373							
J	327			322			337				342				347				363							
K	280	530	680	530	530	680	530	530	680	680	530	680	980	1020	1020	680	880	880	1180	1180	1160	1160	1460	1460	1460	
ØD incl. insulation	ø270			ø324.5			ø380				ø425				ø460				ø510							
O	255			275			300				335				380				400							
Net weight kg.	55	65	71	102	109	112	137	140	163	166	206	225	228	254	258	294	327	331	381	386	486	495	555	560	565	

Dimensions in mm

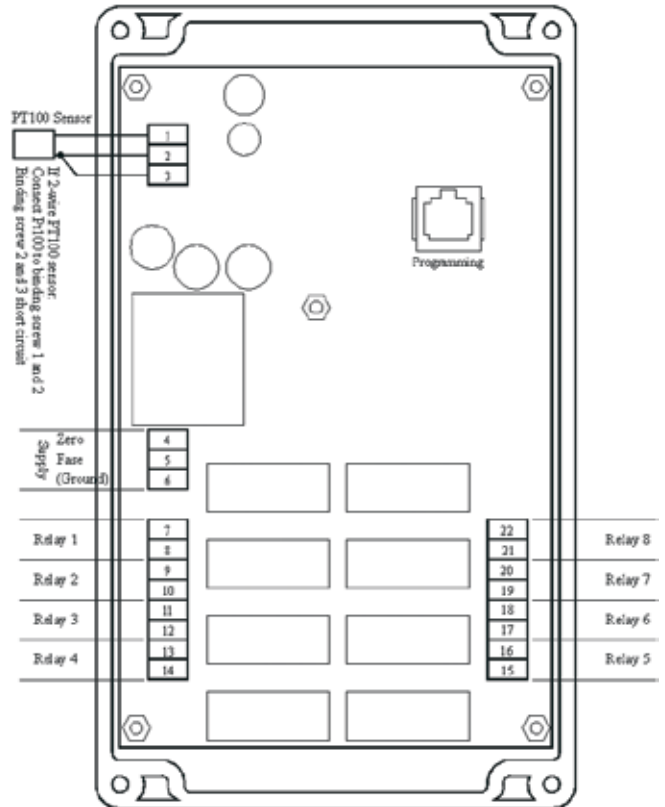
## Electronic thermostat

The Aalborg thermostat type TC-E 8/4 is an electronic P-controller for use with electrical heaters.

The thermostat is based on a PT100 sensor mounted in the electric heater and is operating the up to 8 individual power relays.

The desired outlet temperature is programmed on the unit and the actual temperature is indicated on the display. Fluctuations in flow will result in changes of the measured temperature and thus the signal to the controller which in return will further engage or disengage the number of heating elements in the electrical heater.

The thermostat is very accurate and used in applications where it is essential that the temperature is kept constant at all times.



## Ordering key

Part No.	Number of steps	Size in mm L x W x H	Supply	Enclosure
60T3006	4	120 x 80 x 70		IP54
56L1030	3, 4, 5, 6, 7 & 8	200 x 120 x 80	1 x 220/240 V - 50/60 Hz	IP56

## Main technical data

Part No.	807000019 Mechanical 4 steps	56L1030 Electronic 3, 4, 5, 6, 7 & 8 steps
Range °C	20 - 200°C	0 - 200°C
Ambient temp. °C	-20 - 0 +70°C	-20 - 0 - +60°C
Hysteresis °C	3.0 °C	2.0 °C
Min- temp. between each step °C	1.5 °C	1.0°C
Supply max. Volt/Amp	250 VAC / 10 Amp	250 VAC / 10 Amp
Cable entries	1 x PG13.5	1 x PG13.5
Sensor	Thermostatic expansion in Cu probe	1 x Pt100 in stainless steel

**Control panel for Aalborg heaters for regulation in steps inclusive of indicating lamps.**



Control panel for the Aalborg EH electrical heater



Control panel for the Aalborg EH-S heater

MDD00239EN 1507

**How to contact Alfa Laval**

Contact details for all countries are continually updated on our website. Please visit [www.alfalaval.com](http://www.alfalaval.com) or e-mail to [aalborgheaters@alfalaval.com](mailto:aalborgheaters@alfalaval.com) to access the information..