

ELECTRIC HEATERS

Compact,
Rapid Heating
for Heavy Fuel Oil,
Lubrication Oil
and Water



FARAD
HEAT EXCHANGERS

...we work on quality

Farad Electric Heaters are designed to work with high viscosity crude oils as well as lubrication oils and water when there is no other heating medium available. The EH series heat exchangers are primarily used for initial or extra heating of oil or water in the shipping industry. Their flexible design and wide heat range (from 9 kW to 225kW) makes them well suited for any application where backup or booster heating is required or where electric power is the cheapest or the only available power source.

Features and benefits

- ✓ Long life removable ceramic core heating elements are designed for optimum trouble-free service and ease of maintenance. A failed electric element can be replaced without the need to isolate and drain the heater.
- ✓ Low surface load (W/cm²) reduces the risk of damaging highly viscous fluids while improving flow ability of fuel oils. As a result, heating elements are protected from over-heating and failing prematurely.
 - Heavy fuel Oil: 1.5 W/cm²
 - Lubrication Oil: 1.5 W/cm²
 - Fresh Water: 3.0 W/cm²
- ✓ Optional, 3 to 5-steps startup configuration with all controls prewired.
- ✓ **Pump Interlock function** as a standard.
- ✓ Selector switch for operation based on viscosity signal prepared by shipyard.
- ✓ All Farad Electric Heaters from EH range are fitted with an **adjustable temperature** controller (with PT-100 temperature sensor) and an overheating safety thermostat.
- ✓ Materials, Carbon steel and SS316 only from **Top European manufacturers**.
- ✓ **Warranty 24** months after delivery.
- ✓ Delivery within 2-4 weeks from order placement.
- ✓ **Quality** means safety. Each unit built by FARAD undergoes hydraulic and electric testing.
- ✓ All electric heaters are compliant with European Legislation covering CE markings/PED approval and can be certified by various classification societies (ABS, BV, DNV-GL, LR) upon request.



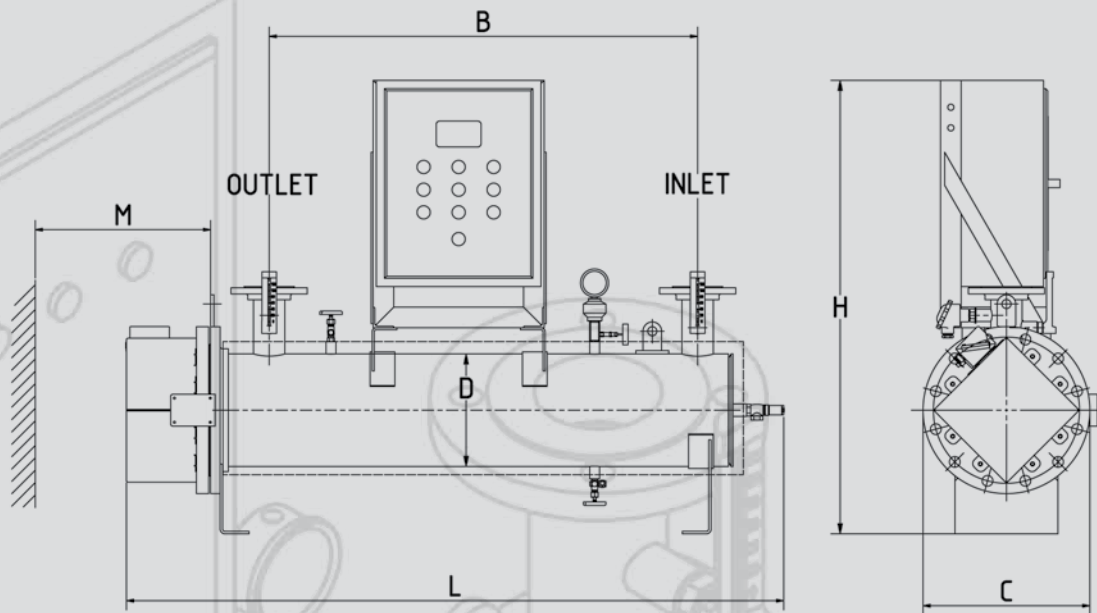
Accessories (included)

- Safety valve.
- Drain valve (AISI-316).
- Air vent valve (AISI-316).
- Thermometers (L-form), 2pcs.
- PT-100 sensor.
- Safety thermostat (Marine type).

Standard Features

- Flanges PN16 DIN 86030/EN1092-1
- Electric power supply terminals 440V/ AC
- Design Pressure: 16 bar
- Test Pressure: 24 bar
- Design Temperature: 160°C

Type series	Fuel Oil (kW)					Water (kW)				
EH-125-1200	9					18				
EH-150-1200	13,5		18			27		36		
EH-200-1200	22,5		27			45		54		
EH-250-1200	31.5	36	40.5	45	49.5	63	72	81	90	99
EH-300-1200	54	58.5	63	67.5	72	108	117	126	135	144
EH-350-1200	76.5		81	85.5	90	153	162	171	180	
EH-400-1200	94.5	99	104	108	113	189	198	207	216	225

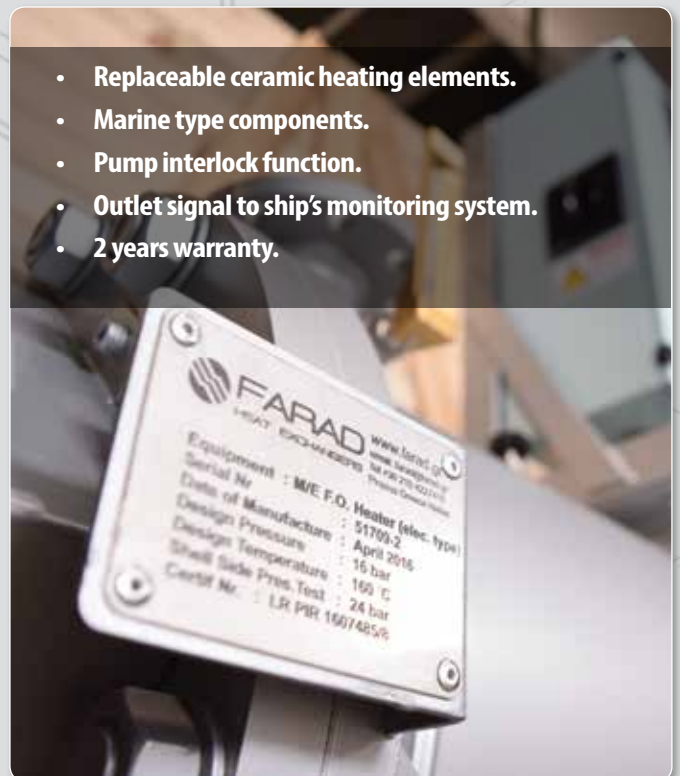


Type series	B	C	D	H	L	M
EH-125-1200	1060	250	141.3	900	1575	1300
EH-150-1200	1050	285	168.3	940	1575	1300
EH-200-1200	1040	340	219.1	1010	1575	1300
EH-250-1200	1040	405	273.1	1100	1600	1300
EH-300-1200	1040	460	323.9	1190	1610	1300
EH-350-1200	1040	520	355.6	1230	1615	1300
EH-400-1200	1040	580	406.4	1310	1620	1300

*All dimensions are for guidance only.
Dimension drawing will be produced upon request.*



- 12 point Quality Control Checks before delivery
- Tight controls to raw materials
- 2 years FARADs Warranty
- Computerized production line
- Integrated Quality Management System



- Replaceable ceramic heating elements.
- Marine type components.
- Pump interlock function.
- Outlet signal to ship's monitoring system.
- 2 years warranty.



ELE

HEA



FARAD

HEAT EXCHANGERS

14 ALON str., 18540
PIRAEUS, GREECE

Tel.: +30 2104227410, Fax.: +30 2104227303
www.farad.gr, e-mail: info@farad.gr