

PARAT ECS

# Electrical Circulation Steam Boiler



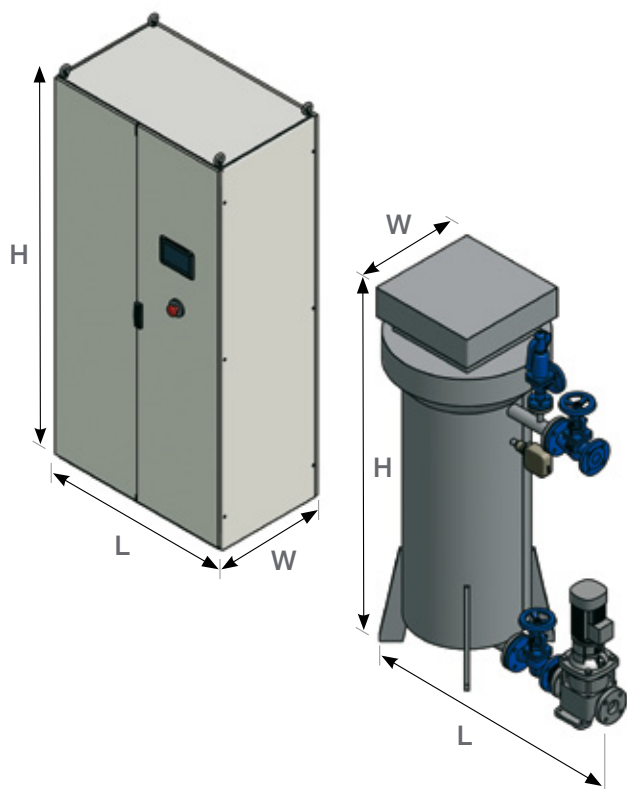
# Technical data

- **Optimized for retrofitting to existing steam boilers**
- **Alternative to MGO firing of aux boiler**
- **Modular design**
- **Turnkey solution**
- **Can be installed during transit**
- **Low turndown and stable operation**
- **Simple installation**

The PARAT Electrical circulation steam boiler was designed to meet the request for a modular and easy to install alternative to MGO fuel for auxiliary boilers on existing vessels in operation. By integrating the ECS in your boiler you have the option to maintain your steam pressure from an electrical power source (shore power, spare generator power etc.). The unit can be installed on any kind of existing steam boiler system and is also a good solution for newbuilds where increased fuel flexibility for the steam system is required.

The electrical cabinet is not directly connected to the boiler unit. This ensures a low temperature in the electrical components. The cabinet is standardized, and type approved according to the NEK 400. Included are fuses, contactors and complete safety system. As an option the unit can be delivered with a main power switch. The boiler unit is designed for vertical or horizontal installation depending on the layout and space availability around the main auxiliary boiler. Inlet and outlet connections to main boiler will be done on site.

The ECS can be delivered as a standard modular unit in capacities up to 400kW, which is equivalent to 600kg steam per hour. Larger capacities can be provided upon request.



<b>Effect (kW)</b>	50	100	200	400
<b>Capacity (kW)</b>	75	150	300	520
<b>L (mm)</b>	1200	1200	1200	1250
<b>H (mm)</b>	1900	1900	1900	1900
<b>W (mm)</b>	450	600	600	750
<b>Tr. Weight (kg)</b>	275	400	400	620
<b>Op. Weight (kg)</b>	300	450	450	750

#### Control Panel

<b>L (mm)</b>	800	800	800	1000
<b>H (mm)</b>	1800	1800	1800	2000
<b>W (mm)</b>	600	600	600	600

We reserve the right to make changes.