

SCR-HP by PBST

The world's most compact SCR system

Holistic NOx solutions

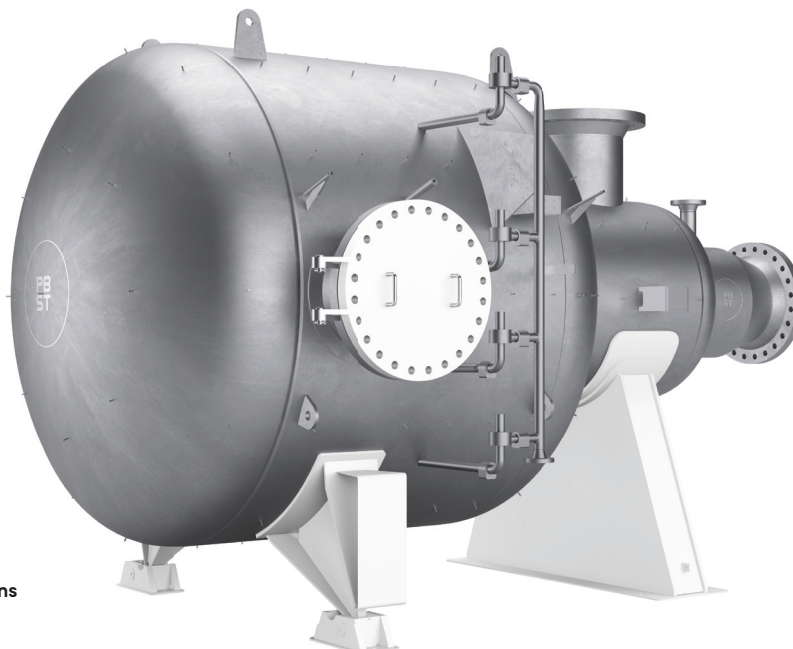
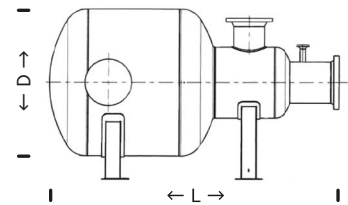
PBST is the only manufacturer capable of delivering both exhaust gas after treatment solutions within the 2-stroke sector. Exhaust gas recirculation (EGR) is an internal engine process that prevents the formation of NOx by controlling the combustion process, while Selective Catalytic Reduction (SCR) is an after-treatment method that uses a catalyst and an additive to reduce the NOx generated by the combustion process. This unique portfolio allows customers to choose their preferred option as best fits their situation.

PBST offers the market's most compact SCR system. It reduces – through internal catalytic reaction – NOx exhaust emissions to current IMO Tier III limits. With specially developed catalyst elements and honeycomb materials, as well as an integrated mixing unit, the overall size of the reactor has been drastically reduced compared to low-pressure SCR systems

Our advanced SCR-HP comes in six frame sizes, covering the entire 2-stroke engines portfolio up to 25 MW per reactor.

Dimensions

Cluster	Reactor diameter [mm]	Reactor length [mm] < 0.1% sulphur	Reactor length [mm] < 3.5% sulphur
1	2,000	4,800	5,800
2	2,400	5,000	6,000
3	2,900	5,500	6,500
4	3,400	5,900	6,900
5	3,900	6,300	7,300
6	4,500	6,900	7,900

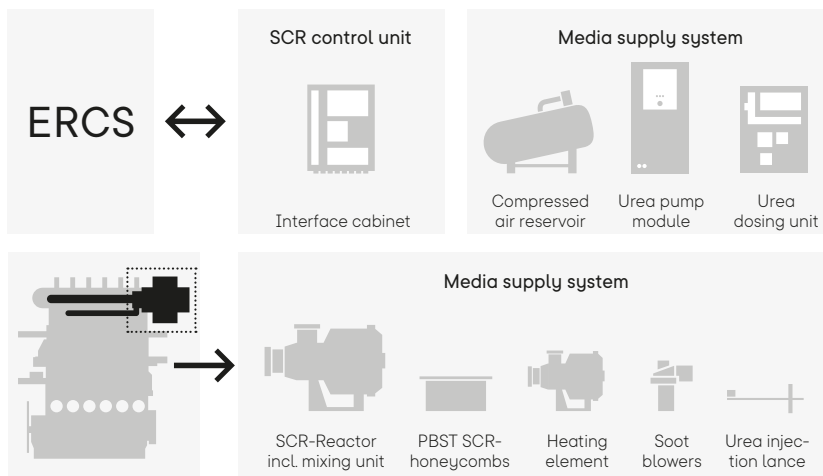


➤ Illustration contains optional features

The system consists of the reactor – including mixing unit, urea injection lance, catalyst elements in honeycomb style and soot blowers – along with a module-based supply system, as well as the reactor’s control unit that communicates with the engine-control system.

The SCR-HP reactor can be mounted in each position and is capable of running on all fuels.

The development of the new system is based on our in-house competence with four-stroke engines, for which it can already reference more than 650,000 operating hours.



Applications

→ 2-stroke

