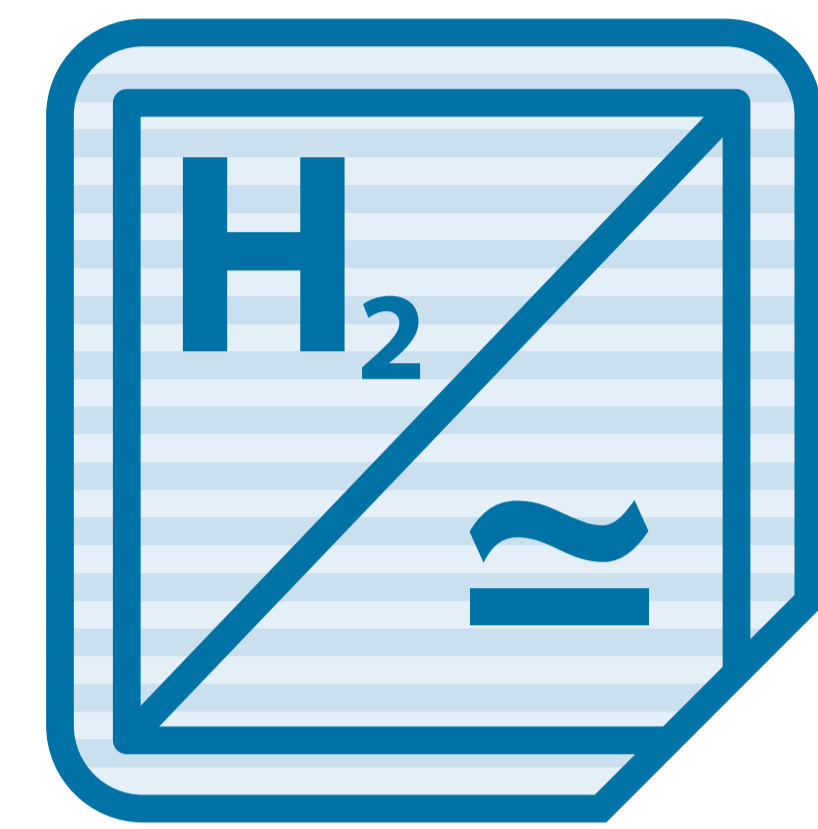


## Maritime fuel cell system for zero emission ship propulsion



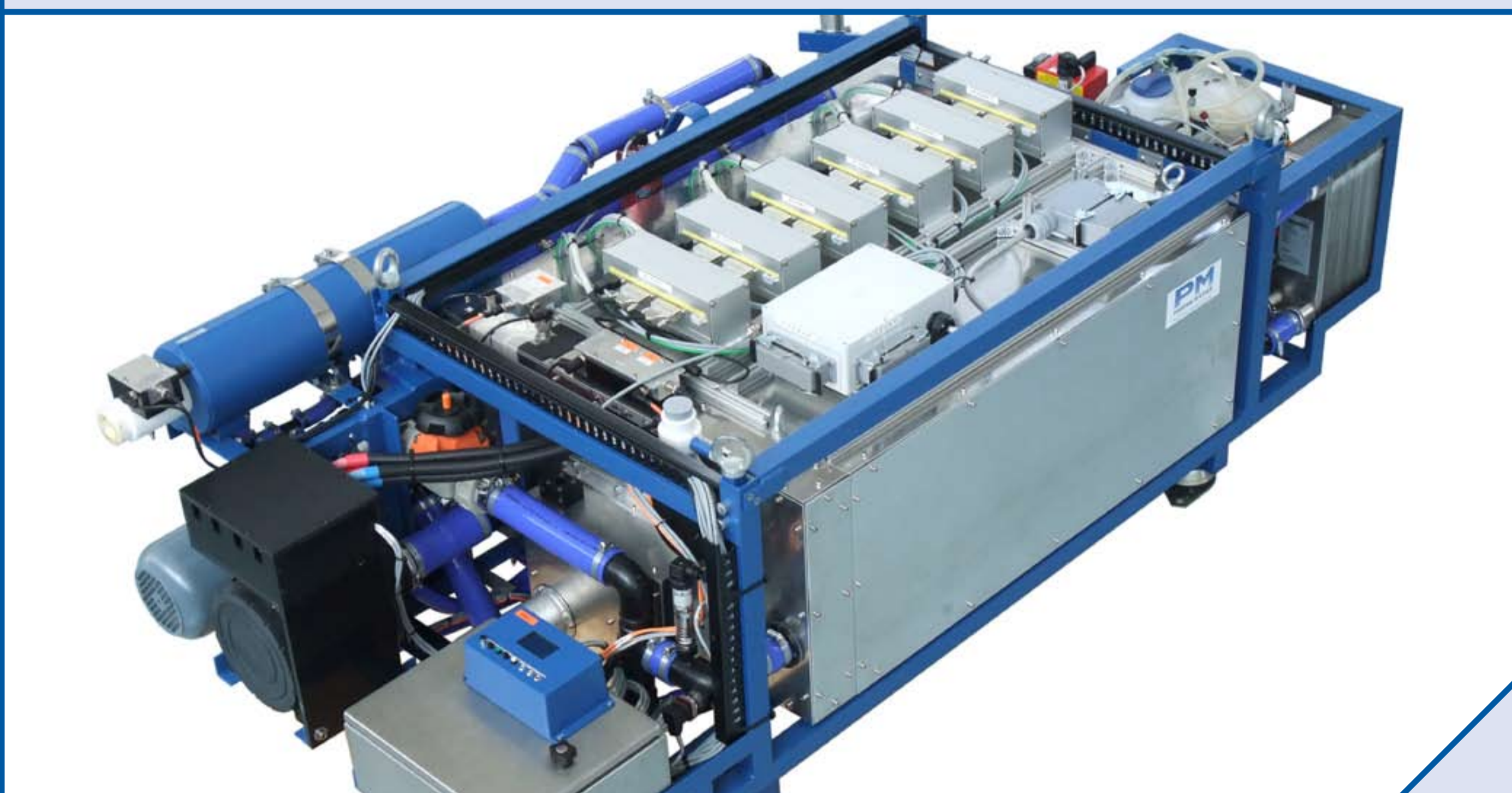
- No emissions
- No noise
- Highest efficiency
- No restrictions on protected waterways or lakes



*FCS Alsterwasser  
in operation in Hamburg*

### Fuel cell system *PM Basic A 50 maritime*

- 48 kW power
- Optimised for maritime use
- Certified by Germanischer Lloyd
- Compact design for integration under deck
- Optimal for ships with 40 – 300 kW power requirement



### FCS Alsterwasser

- The world's first fuel cell powered passenger ship in the 100 passenger class
- Operated by Alstertouristik GmbH in Hamburg harbour and Lake Alster
- In regular operation since Sept. 2008
- Typically twice as efficient as a Diesel-powered ship
- More than 14,000 passengers in one year

