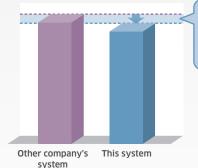


Hydrogen Liquefaction System

The hydrogen liquefaction system achieves industry-leading liquefaction efficiency(*).

The hydrogen liquefaction system has achieved industry-leading efficiency by repeatedly optimizing the components based on the liquefaction process developed independently. The expansion turbine, which has been developed in-house, works by hydrogen gas bearings. The hydrogen gas bearings can prevent the liquefaction process from contaminations, and provide easy maintenance because of non-contact bearing.

 * Liquefaction efficiency means necessary electric power consumption to produce 1 kilogram of liquefied hydrogen



Liquefaction efficiency [kWh/kg-H₂]

(estimated value)

By optimizing all the system, liquefaction efficiency has been improved in approximately 8%.



Kawasaki Ecological Frontiers S class



Kawasaki Heavy Industries, Ltd.