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Product



Kawasaki Boiler for FPSO / FLNG

Since 1880 to date, Kawasaki delivered many various land boilers and marine boilers to the world. Through a series of experiences of designing such boilers, accumulated technology expertise from both land and marine boilers are integrated into Kawasaki reliable boiler for FPSO / FLNG.

Applied technologies from Marine Boilers

Boiler Compact Design Philosophy, Structural design technology for Vessel Motion and Deliver as Modularized Boiler, Control for fuel change over, Applicable to various class.

Applied technologies from Land Boilers

Combustion technology for various fuel type including low calorific fuel, Design technology for High Pressure & High Temperature steam conditions and Long life Design. Control technology of load change and Coordinated control of a number of boilers.

Dedicated Facility for Modularized Boiler

Through manufacturing experiences of 7 Boilers for FLNG Prelude, Kawasaki has dedicated facility for modularized boiler, which can realize continuous and / or simultaneous manufacturing of a number of boilers.

Features

- Robust, Reliability
 Proven Stable operation, Proven Construction, Long term operation, Explosion-proof performance
- Fuel Flexibility
 Wide flexibility for applicable fuel including Low calorific fuel (CO2 / N2 rich gas from well)

- Easy & Optimized Operation
- Stable Operation, Quick & Easy Fuel Switch Over (Gas to Oil and vice versa), Quick Load change realized by Kawasaki original system
- Optimized Installation Technique
 Supplied main equipment of boiler as "Packaged"
- Maintenance Friendly
 Low maintenance cost & Easy maintenance design

Product Range and Applicable Fuels / Certifications / Rules

- Steam Capacity: ~ 220 ton/hour
- Steam Pressure : ~ 70 barg
- Steam Temperature : ~ 525 Degree C
- Applicable Fuel: Natural Gas, Low calorific associated gas etc., MGO, MDO
- Flexibility for Classification: Major class such as LR / ABS / NK / BV and DNV / GL
- Applicable Rules : NR13, IECEs, API

Record —

Reference Project

Kawasaki Boiler for FLNG / FPSO has delivered and been installed into the world's first Floating LNG facility, "Shell Prelude FLNG" as the largest size ever in the capacity for marine use.

Boiler for FLNG Prelude

- UFE Type 220 x 7 Units
- Steam Capacity / Pressure / Temperature: 220 t/h x 69 barg x 480 degC
- Fuel : Gas or Diesel Oil
- Dimension (W / L / H) : 11 x 13 x 15 m (approx.)
- Weight: 500 ton per 1 unit (approx.)

Package

Kawasaki can offer boiler for FLNG / FPSO use with below items.

- (1) Main Boiler
- (2) Piping Skids (between boiler and turbine)
- (3) Forced Draught Fan
- (4) Burner Management System etc.

