

# **Kawasaki Boiler for FPSO/FLNG**

## **Marine Main Boiler for Process**

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### **Product 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

#### ■ **Easy & Optimized Operation**

Stable Operation,  
Quick & Easy Fuel Switch Over  
(Gas to Oil and vice versa),  
Quick load change realized by  
Kawasaki original control system

#### ■ **Optimized Installation Technique**

Supplied main equipment of boiler  
as "Packaged"

#### ■ **Maintenance Friendly**

Low maintenance cost,  
Easy maintenance design



#### FLNG Boiler for Prelude

- UFE Type 220 x 7 Units
- Steam capacity : 220 t/h
- Steam Pressure: 69 barg
- Steam Temperature: 480 degC
- Fuel: Gas or Diesel oil
- Dimension (W/L/H):  
11 x 13 x 15 m (approx.)
- Weight : approx. 500 ton per 1 unit
- Certification/Applicable rule : LR, NR13, IECEx

***Kawasaki is the sole supplier who delivered  
Largest boiler for topside in the world***

## Origin of FPSO/FLNG Boiler technology

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 FPSO/FLNG boiler.

### ■ **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 Boiler**

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

## Dedicated Facility for Modularized Boiler including FPSO/FLNG

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

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## Kawasaki Boiler for FPSO/ FLNG

Generated steam used for process of FPSO/FLNG and/or electrical production

## Product Range and Applicable Certificates/Rules

**Evaporation capacity** ~ 220 ton/hour

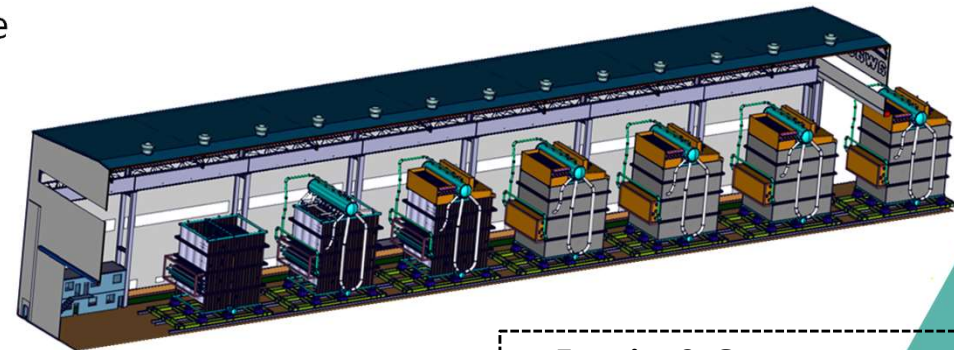
**Steam Pressure** ~ 70 barg

**Steam Temperature** ~ 525 Degree C

**Applicable Fuel** Natural gas,  
Low calorific associated gas etc.,  
**MGO, MDO**

**Certification:** Major classes such as  
LR, ABS, NK, BV, DNV/GL

**Rules:** NR13, IECEx, API



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