



## Marine Boiler, Inert Gas & Incinerator Services

*Safe Operation • Energy Efficiency • Class & Environmental Compliance*

**Al Qaqnoos Services** is a leading marine engineering company providing comprehensive repair, retrofit, and maintenance solutions for Boiler Systems, Inert Gas Systems (IGS/IGG), and Marine Incinerators. With extensive experience across all major makers and ship types, we ensure reliable, safe, and efficient operation of onboard systems in full compliance with international marine standards and class requirements.



### Our Core Expertise

#### 1. Marine Boiler Services

We offer complete solutions for Auxiliary, Composite, and Exhaust Gas Boilers including:

##### ➤ Retubing & Repair Works:

- ✓ Retubing, pressure part replacement, and welding repairs for Main Boilers and Economizers.
- ✓ Extensive experience with leading makers such as Osaka Boiler, Aalborg, Tortoise Engineering, Gadelius, Miura, Mitsubishi, and others.

##### ➤ Automation & Control Upgrades:

- ✓ Retrofit and reprogramming of Automatic Combustion Control (ACC) systems, Automatic Boiler Controls (ABC), and Burner Management Systems (BMS).
- ✓ PLC and HMI upgrades to the latest models for improved reliability and monitoring.

##### ➤ Calibration & Troubleshooting:

- ✓ Electrical component testing and calibration of FD Fan Actuators, Pressure Transmitters, Fuel Oil, and Feed Water Control Valves.
- ✓ Overhauling and recalibration of Feed Water Level Transmitters and Actuators.



##### ➤ Spare Parts Supply:

- ✓ Genuine and compatible parts for Burners (Volcano, Sunflame, Weishaupt, Monarch) and all boiler brands.
- ✓ Supply of Safety Valves, Fittings, D/P Transmitters, and all related accessories.

##### ➤ Testing & Inspection:

- ✓ IRIS Ultrasonic Thickness Gauging for boiler tubes.



- ✓ Plate Cooler Chemical Cleaning using specialized solutions (Alfa Laval, Hisaka, etc.).

## 2. Inert Gas System (IGS) / Inert Gas Generator (IGG) Services



Our skilled engineers provide full technical support for Tankers, Oil Carriers, and Gas Vessels equipped with IGS/IGG systems.

- ✓ Troubleshooting and maintenance of Control Panels and system wiring.
- ✓ Overhauling of Atmospheric Valves, Uptake Valves, and Main Valves using OEM repair kits.
- ✓ Calibration and functional testing of Pressure Transmitters, Pressure Switches, and Limit Switches.
- ✓ Verification and recalibration of Main & Atmospheric Valve Operations.
- ✓ Inspection and testing of Scrubber Level Switches, Probes, and Blower Inlet/Outlet Valves.
- ✓ Oxygen Analyzer and Deck Pressure Transmitter recalibration and performance testing.
- ✓ Complete system function checks in accordance with SOLAS and Class requirements.



## 3. Marine Incinerator Services



We perform complete inspection, maintenance, and repair services for marine incinerators in compliance with MARPOL Annex VI.

- ✓ Repair and refurbishment of combustion chambers, burners, and control systems.
- ✓ Calibration and troubleshooting of incinerator control panels and sensors.
- ✓ Supply and replacement of genuine spare parts for Volcano, Sunflame, and Miura incinerators.
- ✓ Performance testing and system tuning to meet environmental emission standards.

## 4. Our Strengths

- ✓ Certified marine service engineers
- ✓ Drydock & afloat repair capability
- ✓ 24/7 emergency attendance
- ✓ OEM & approved equivalent spare parts access
- ✓ Proven retrofit & overhaul experience

## Your Trusted Partner for Safe Thermal & Gas Systems at Sea

With **ALQAQNOOS**, your Boilers, Inert Gas Systems & Incinerators operate with maximum safety, efficiency, and environmental compliance.

