

OILON MARINE BURNERS



For ships and offshore
applications

Combustion solution for your needs

For more than 50 years Oilon has supplied combustion solutions for various marine applications such as steam and water boilers, thermal oil heaters and waste incinerators. Heavy oil, marine diesel oil, marine gas oil, ultra-low sulphur marine gas oil, natural gas (LNG), methanol, even VOC gases, you name it! Whether you need a ship or an offshore installation, Oilon can offer you a combustion solution!

Approvals according to ABS, BV, CCS, DNVGL, KR, LR, NKK, RINA, RS and RRR.

Handling the boil-off gas (BOG)

Dual fuel (oil/gas) burner, used in a boiler, is an environmentally safe and economical solution for handling boil-off gas (BOG), the evaporated gas that can increase the LNG tank pressure. BOG can be burned

with a burner, even supplied in low pressure and with high concentration of N_2 . The heat can be utilized in the vessel. If the heat demand is lower than the heat amount from burned BOG, excess heat can be dumped. Burner can handle high concentration of N_2 , up to 100 %, when firing on oil support flame. This can be very useful, when the LNG needs to be emptied for inspection. Instead of visiting a disposal terminal, the gas and N_2 mixture can be burned.

Global service

Oilon provides global service. In addition to Oilon own offices, located in Finland (headquarters), Brazil, China, Russia and USA, Oilon has a global distributor network of professionals.

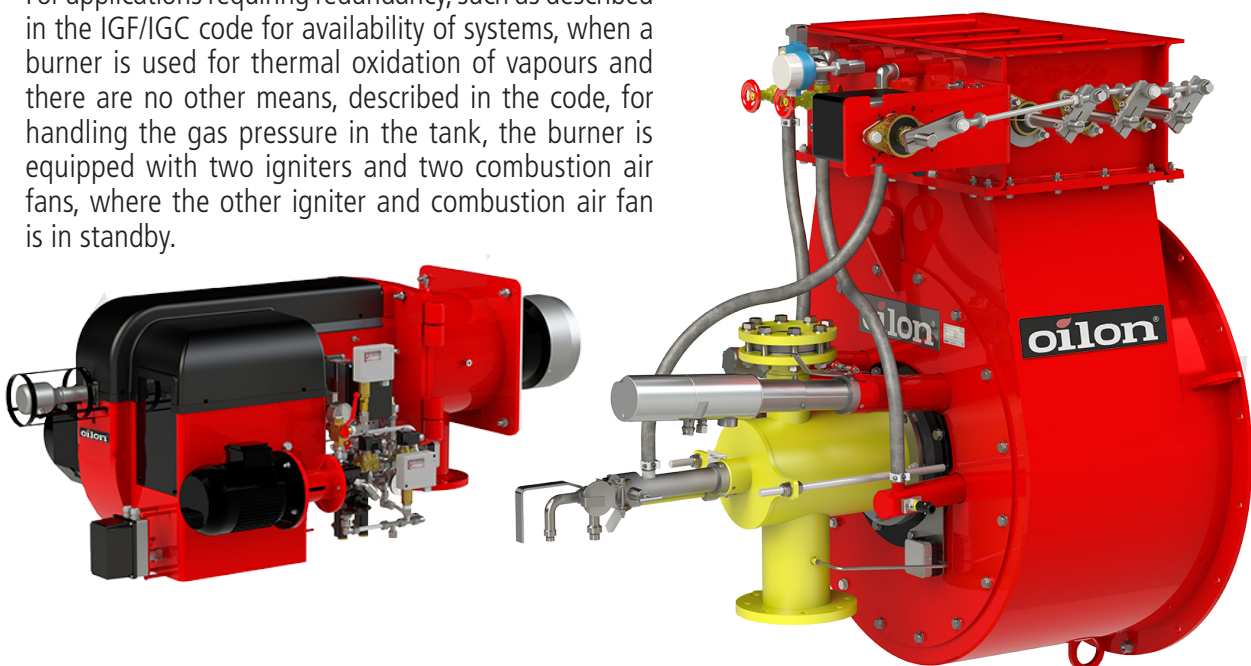
Oilon pressure jet marine burners

Oilon pressure jet burners are suitable for various liquid fuels such as HFO, MDO and MGO/ULSMGO. Dual fuel pressure jet burners are suitable for natural gas (LNG), natural gas and N_2 mixtures, biogas and LPG in gaseous form. Oilon pressure jet marine burners are intended to be used in a gas safe engine room as standard, and on request, in ESD protected engine room. Monoblock pressure jet burners, with internal combustion air fan, for capacities up to 13,300 kW. Duoblock pressure jet burners, with external combustion air fan, for capacities up to 29,500 kW.

For applications requiring redundancy, such as described in the IGF/IGC code for availability of systems, when a burner is used for thermal oxidation of vapours and there are no other means, described in the code, for handling the gas pressure in the tank, the burner is equipped with two igniters and two combustion air fans, where the other igniter and combustion air fan is in standby.

Oilon steam/air atomized marine burners

Oilon steam/air atomized burners are suitable for various liquid fuels such as HFO, MDO, MGO and ULSMGO. Dual fuel steam/air atomized burners are suitable for natural gas (LNG), natural gas and N_2 mixtures, biogas and LPG in gaseous form. Oilon steam/air atomized burners are also suitable for VOC gases and gases containing high amount of hydrogen. Oilon steam/air atomized burners are available for capacities up to 90,000 kW. Oilon steam/air atomized burners are intended to be used in a gas safe engine room, hazardous areas (Atex Zone), or even on open deck.





Oilon gas valve unit (GVU)

Oilon gas valve unit (GVU) is built in an enclosure with design pressure of 10 bar (g). The gas valve unit can be installed in horizontal or in vertical position. The components in the GVU are dimensioned case by case for optimal performance. The inlet pressure can be from few hundred millibars up to 10 bar (g), dimensioned case-specifically. The unit is equipped with valves controlling the gas flow to the burner, gas leakage detector, pressure and temperature sensors, mass flow meter and gas filter etc. The GVU is designed to be use in a gas safe engine room.

For applications requiring redundancy, such as described in the IGF/IGC code for availability of systems, when a burner is used for thermal oxidation of vapours and there are no other means, described in the code, for handling the gas pressure in the tank, the GVU is equipped with two gas control valves, where the other valve is in standby.

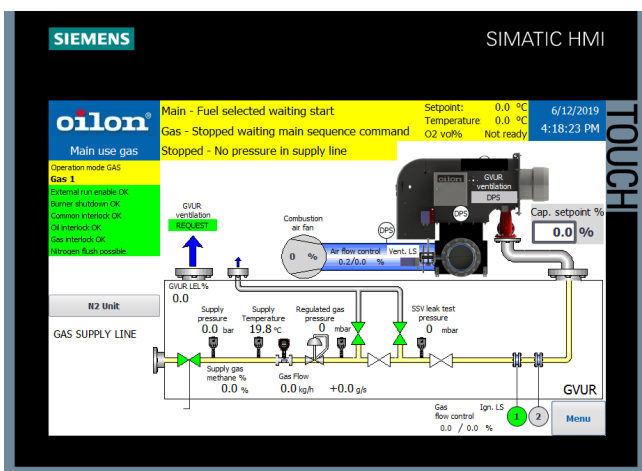
Oilon gas skids

Oilon gas skids are designed and manufactured on a case-by-case basis. The skids can be used in Hazardous area Zones 1 or 2, depending on specification. On request, the skids can also be used in open deck area.

Oilon burner management system (BMS)

Oilon burner management system (BMS) controls the burner and the GVU/gas skid. The BMS is equipped with a touch screen and with necessary switches and buttons for easy operation. The BMS communicates with boiler control and ship monitoring and control system. The communication method is selected case by case, according to customer specification. Basic communication such as safety loop and permission to start, with boiler control system and ship's gas supply system, are hard wired.

For applications requiring redundancy, such as described in the IGF/IGC code for availability of systems, when a burner is used for thermal oxidation of vapours and there are no other means, described in the code, for handling the gas pressure in the tank, two BMS units together with a signal distribution unit are supplied, where the other BMS is in standby.



Why to choose Oilon marine burner?

- We have more than 40 years experience on heavy fuel oil combustion, which ensures our burner's reliability.
- We have delivered burners for marine industry since year 1963.
- We use high quality components from international suppliers.
- We have worldwide service network.

Oilon is a privately owned Finnish company founded in 1961. Oilon provides energy production technology and services which are energy efficient and environmentally friendly. Oilon develops, produces and sells burners for liquid and gaseous fuels and heat pumps for domestic and industrial applications.

The logo for Oilon Oy, featuring the word "oilon" in a bold, blue, sans-serif font. A small red leaf-like shape is positioned above the letter "i". A registered trademark symbol (®) is located at the top right of the word.

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