MARINE AND OFFSHORE

BURNERS

FLARES

INCINERATORS

PARTS & SERVICE
Advanced Combustion Technology.

Put Zeeco’s decades of experience to work on your most challenging marine and offshore applications. Zeeco is a global leader in innovative combustion and environmental solutions for complex applications in the refinery, production, petrochemical, power, marine, and offshore industries. Because marine and offshore applications are mission-critical and downtime is not an option, you need a provider with proven expertise in every aspect of combustion equipment for your ship, FPSO, LNGC, FLNG, FSRU, or offshore platform. Choose Zeeco.

Common Marine Applications.

Marine and offshore applications operate in harsh and isolated environments. Dependable equipment purpose-built to withstand both the elements and the process demands is essential to successful operation. From marine burners for ship’s auxiliary boilers to the design, engineering, and fabrication of a complete boiler module or smokeless flare system, Zeeco offers unmatched quality, service, and delivery. In addition to burners for boilers and fired heaters, Zeeco also designs and supplies gas combustion units (GCUs) to safely and effectively dispose of boil-off gas (BOG). As a full-line combustion technology company, Zeeco designs burners, flares, incinerators, pilots (diesel or gas), ignition systems, flame scanners, and the associated pipework skids, pump sets, fans, and PLC based control systems.

GB Low-NOx Burner.

Our field proven, high efficiency, and flexible GB burners can achieve high heat outputs of up to 100MW per burner with low NOx emissions. Engineered for easy installation and commissioning, the GB burner can be fitted to main and auxiliary steam boilers on all types of ships, FPSOs, FLNG, and FSRUs. The cost-effective GB burner series can fire a wide range of fuels, including natural gas, heavy fuel oil (HFO), marine diesel, low sulphur gas oil, crude oil, field produced gases, and waste streams. With a compact, stable flame shape, and wide turndown capabilities, the GB burner is designed to easily fit in both new and existing boilers. Highly efficient combustion and low excess air allows the boiler flue gases to be used for cargo tank inerting.

Call +44 0 1780 765 077 or email marine@zeeco.com to learn more about Zeeco’s Marine and Offshore products.
Control Systems.

ZEECO® Burner Management Systems (BMS) and Combustion Control Systems (CCS) are engineered and supplied to ensure your combustion plant operates safely and reliably at all times. BMS/CCS systems are supplied with Classification Society approved PLC controllers from internationally recognized manufacturers and can be supplied with a full range of panel mounted or standalone HMI. All systems are designed in accordance with local, regional, and worldwide standards, and are fully tested using hardwired simulators.

Offshore Flares.

Offshore flaring presents unique challenges such as space availability, heat radiation, noise, and environmental pollution. Zeeco’s extensive range of offshore flare systems are designed, manufactured, tested, and serviced by our combustion experts who offer complete product life capabilities. Our offshore, FPSO, and FLNG flare systems operate around the world, including the South China Sea, South America, India, Africa, and the North Sea. Zeeco flares deliver high destruction efficiencies, stable flame patterns across a wide operating envelope, and are designed to meet the pressure, flow, and gas composition ranges required for FPSO, FLNG, and offshore platform applications. Flare systems can be designed with our HSLF hurricane-proof pilot, ballistic pellet ignition systems, and state-of-the-art monitoring systems.

Vapor Recovery and Combustion.

Zeeco’s Vapor Recovery Systems minimize VOC emissions that occur during the loading of a vessel. Vapor that would normally be vented to the atmosphere is recovered, reducing atmospheric emissions and their associated hazards. Unrecovered VOCs (light ends) can be used as fuel in boilers to produce steam for process use or power generation.
Aftermarket Team.

All Zeeco marine and offshore products are backed by our experienced Aftermarket Products and Services team anytime, anywhere. Whether you need commissioning, service, or training, you can rest assured our engineers are fully offshore certified and trained in the latest standards and certifications including BOSIET, HUET, and EBS. Comprehensive global service and support plus dedicated manufacturing facilities mean we can better serve our customers wherever they operate.

When you need the right part, right now, you can depend on speedy service and a quick response within 24 hours. Our purchasing department works hand-in-hand with our sales and engineering department to meet your needs – quickly, efficiently, effectively, and easily. We’re not simply a supplier, but a true partner for your long-term success.

Turnkey Solutions.

From concept to commissioning, Zeeco will engineer and design the most cost-effective solution for your application. Zeeco’s Turnkey Services include design, engineering, safety analysis and assurance, contract management, equipment purchasing, fabrication, installation, site supervision, commissioning, and training.

Research and Development.

Zeeco’s Combustion Research and Test Facility at our corporate headquarters was the first of its kind in the world to be ISO-certified. Zeeco is capable of testing a wide variety of combustion systems under simulated field conditions. In addition, we use state-of-the-art practices, including physical flow modeling and advanced Computational Fluid Dynamics (CFD) to model specific conditions against actual equipment design.
Customer Service Delivered.

Zeeco delivers on time and on budget, and we work where you work, across the globe. We understand the problems you face and the deadlines you work under. That’s why we locally manufacture cost-competitive parts in your time zone, ensuring you meet the strictest delivery requirements. From flare tips, burners, pilots, and ignition systems, to burner management systems, we’re economical on price and unmatched in experience. When you call, you’ll talk to an experienced combustion expert. Choose Zeeco for quick turnarounds for quotes, fast shipping for parts, and top-notch diagnostics and service. We’re there when you need us, worldwide.

The Zeeco Difference.

Zeeco is a privately held company with thousands of installations to our name, and our only business is the combustion business. With nearly 40 years of industry experience, we understand the true meaning of partnership and tackle the most challenging projects. With more than 20 global locations, comprehensive aftermarket service and support, and a team of engineers dedicated to your mission, Zeeco is the natural choice to improve operations and reduce your carbon footprint. Call or email us today to learn more about our full line of combustion products for your marine and offshore applications.

<table>
<thead>
<tr>
<th>GB Low-NOx Burner</th>
<th>Our field proven, high efficiency, and flexible GB burners can achieve high heat outputs of up to 100MW per burner with low NOx emissions.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control Systems</td>
<td>ZEECO® Burner Management Systems (BMS) and Combustion Control Systems (CCS) are engineered and supplied to ensure your combustion plant operates safely and reliably at all times.</td>
</tr>
<tr>
<td>Offshore Flares</td>
<td>Offshore flaring presents unique challenges such as space availability, heat radiation, noise, and environmental pollution.</td>
</tr>
<tr>
<td>Vapor Recovery and Combustion</td>
<td>Zeeco’s Vapor Recovery Systems minimize VOC emissions that occur during the loading of a vessel.</td>
</tr>
<tr>
<td>Aftermarket Team</td>
<td>All Zeeco marine and offshore products are backed by our experienced Aftermarket Products and Services team anytime, anywhere.</td>
</tr>
<tr>
<td>Turnkey Solutions</td>
<td>From concept to commissioning, Zeeco will engineer and design the most cost-effective solution for your application.</td>
</tr>
<tr>
<td>Research and Development</td>
<td>Zeeco’s Combustion Research and Test Facility at our corporate headquarters was the first of its kind in the world to be ISO-certified.</td>
</tr>
</tbody>
</table>
Zeeco Europe Ltd.
The Woolfox Building
Great North Road, Rutland, UK LE15 7QT
Phone: +44 0 1780 765077
Fax: +44 0 1780 757121
E-mail: marine@zeeco.com