



OceanMaster Engineering Pte Ltd



A Global Leader in Marine and Offshore Solutions



OceanMaster Engineering at a glance

Founded in 1989 in Singapore, OceanMaster Engineering started its business operations with its core activity in ship repair and general engineering services. Today, OceanMaster has evolved as a global leader in the marine and offshore industry, providing full range of Maintenance, Repair & Overhauling (MRO) services such as emergency afloat repairs for merchant ships, oil rigs, platforms, FPSOs and other offshore vessels.

With a team of dedicated and experienced workforce, OceanMaster specialises in the field of marine and offshore air-conditioning works. The engineers and technicians are fully equipped with offshore medical and BOSIET certifications where a 24-hour response is guaranteed in deploying a team to any offshore rigs, platforms, FPSOs and other offshore vessels around the world.

OceanMaster Engineering is an ISO 9001 and ISO 45001 company. In 2013, the company has achieved the status of BizSAFE STAR. That same year, the Australian Refrigeration Council granted OceanMaster a Refrigerant Trading Authorisation certificate. The company achieved another milestone in 2014 by becoming a Certified On-The-Job Training Centre (COJTC) accredited by the Institute of Technical Education, Singapore. In 2017, OME became an approved Testing Organisation under VGI for the EPA 608 Technician Certification.

OceanMaster is also the stockist of Air conditioning equipment and spare parts for Johnson Controls (York and Sabroe), Carrier, Daikin, and Copeland. We carry a wide range of reconditioned compressors overhauled with genuine spare parts which we offer to our customers in our 'Compressor Exchange Program' to help them save costs and time under emergency and urgent situations.

OceanMaster Engineering Business Activities

REFRIGERATION, HEATING, VENTILATION, AND AIR-CONDITIONING (RHVAC)

A) Air-conditioning and Refrigeration System works

- Engineering and design study of RHVAC systems in accordance with CLASS society regulations.
- Complete marine and offshore RHVAC turnkey which includes:
 - Full project management
 - Design and Engineering
 - Procurement and Supply
 - Installation
 - Testing & Commissioning
 - Provision of the test report, as-built drawing, Project manuals and spare parts manual list upon job completion
- Construction of Customized Marine explosion proof Air-Conditioning unit for use in Zone 1 and Zone 2 Hazardous Area
- Construction of Customized Marine Air-Conditioning unit for E-house, installation, and commissioning
- Conversion of domestic/land-based air-conditioning unit into heavy duty Marine Air-Conditioning unit constructed with stainless steel casing
- Construction of new cold-room plant (chiller and freezer) which includes:
 - Insulated panel
 - Unit cooler and condensing unit
 - Stainless steel shelving
 - Waterproof flooring
- Supply and installation of:
 - Air / Water cooled condensing units
 - Air handling unit
 - Fan coil unit
 - Package unit
 - Single and multi-split unit
 - Other air-conditioning equipment
- Conversion of the air-conditioning system from ozone hazardous (CFC) to ozone friendly refrigerant (HFC)

- Fabrication, repair, and replacement of heat exchanger (condensing coils, evaporator coils, and heating coils)
- Overhauling and supply of reconditioned air-conditioning and refrigeration compressors:
 - CARLYLE (Carrier)
 - SABROE
 - STAL
 - FRICK
 - BITZER
 - COPELAND
 - DAIKIN

B) Ventilation, heating and duct works

- Temporary refuge (TR) integrity test
- Air testing, adjusting, and balancing works
- Space Pressurization test and controls
- Robotic and manual air duct cleaning
- Fumigation works
- Asbestos Abatement / Indoor Air Quality Survey
- Upgrading and modification of ducting system for accommodation and machinery space which includes:
 - Rectangular ducts (Mild steel and galvanized sheet ducting)
 - Spiral Ducts
 - Air diffusers, air grilles, and air louvers
 - Volume control dampers, non-return dampers and pressure relief dampers
 - Class approved fire dampers, shut-off dampers and modulating dampers
 - Ducting insulation
 - Axial and centrifugal fans
 - Silencer
 - Air ventilators (Mushrooms, Goosenecks & Louvers)
- Supply and installation of the heating system, humidifier, and dehumidifier





FIRE AND GAS SYSTEM

- Supply of complete fire fighting package that includes:
 - Local area watermist
 - Deck foam and dry powder
 - High/low pressure CO2
 - Hi-expansion
 - Fire detection
 - Gas detection
 - General alarm
- One stop service which includes:
 - Project management for installation works.
 - Installation and commissioning works on voyage, shipyard, anchorage, and port
 - Adhoc repair and after sales service

GENERAL ENGINEERING AND MECHANICAL WORKS

- 3D scanning and engineering design works
- Main engine / Auxilliary engine troubleshooting and repair
- Fabrication and custom-make of air coolers, shell and tube coolers
- Retubing of heat exchangers and coolers
- Reconditioning of engine parts, e.g. crankshaft, valves spindle, piston, bearings, connecting rod, etc.
- Servicing and overhaul of turbo charger
- Cleaning and servicing of air coolers
- Reconditioning / servicing of all kind of marine pumps
- General insulation works

MARINE CARPENTRY AND FLOORING WORKS

- Marine and Offshore carpentry works which includes:
 - Accommodation furniture supply and refurbishment
 - Weather-tight, water-tight and fire rated doors fabrication
 - Class-approved doors, windows, wall and ceiling panel fabrication
 - Retrofitting of wall and ceiling panels and wooden structure
 - Flooring repairs and renewal works (Vinyl sheet and epoxy flooring)

ELECTRICAL AND CONTROL AUTOMATION

- Complete electrical installation works which includes:
 - Cable pulling and laying
 - Electrical system and panel installation
 - Electrical termination
 - Commissioning
- Electrical and Automation troubleshooting works which includes:
 - Calibration of fixed and portable gas detector, UTI and MMC
 - Deck hydraulic systems
 - MSB and ESB service and calibration
 - Electrical motor and generator services
- Design and fabrication of Explosion proof electrical control panel
- Hazardous area electrical compliance audit and rectification works
- Lux survey and rectification works

STEEL FABRICATION AND OUT-FITTING, PIPE AND WELDING WORKS

- Welding Works which includes:
 - Shielded Metal Arc Welding (SMAW)
 - Gas Metal Arc Welding (GMAW/MIG)
 - Flux Cored Arc Welding (FCAW)
 - Gas Tungsten Arc Gas Welding (GTAW/TIG)
- Steel fabrication and outfitting works which includes:
 - Superstructure
 - Hull Plating
 - Deck plating
 - Bulwark
 - Cargo Hatches
 - Structural frames and stiffeners
 - Skid structure and foundation
- Piping works which includes:
 - Pre-fabrication of Pipe spools for Scrubber and Ballast water system
 - Pipe fabrication and modification
 - Radiography inspection and class approval



SUPPLY OF MANPOWER

- Project Supervisors
- Air-conditioning and Refrigeration Service Engineers (US EPA Approved)
 - Project management and commissioning works
- Electrical Service Engineers (CompEx certified)
 - Project Management, PLC troubleshooting and commissioning works
- Ducting Technicians
- Carpenters
- Welders and Fitters
- General Worker

RHVAC TRAINING

- Basic, Intermediate and Advanced Air-Conditioning Training courses jointly organized with the renowned air-conditioning equipment manufacturer, DAIKIN.
- EPA 608 Technician Course and Certification
- Customized air-conditioning training programs based on client's air-conditioning system and requirements



AUTHORISED DEALER & AFTER-SALES SERVICE AGENT



AUTHORIZED SPARE PARTS WAREHOUSE



AUTHORIZED SERVICE WORKSHOP



STOCKIST





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