Aeron – total contractor of HVAC Systems to the global shipping and offshore industry
AF Offshore Aeron is a total contractor for marine and offshore Heating, Ventilation and Air-Conditioning - HVAC systems. We are a leading supplier of complete HVAC systems to the global shipping and offshore industry with headquarters in the Norwegian coastal city of Flekkefjord.

AERON HVAC SYSTEMS are designed to ensure optimal climate solutions for personnel, cargo, machinery and instruments on board all types of ships and offshore rigs. We want to be involved at all stages of the building process and for the entire lifespan of installed systems.

With more than 35 years of experience in the HVAC business, we have developed a high quality product range specially designed for shipboard environments. Years of experience have made us a reliable company with a good track record.

We make shipbuilding even more attractive through providing specialised products and services tailored for modern quality ships. We offer complete Heating, Ventilation and Air-Conditioning system packages comprising:

- Pilot studies / Analyses
- Design & Engineering
- Equipment delivery
- Installation/Supervising
- Commissioning/Testing
- Operator Training
- After Sales services

You will find more technical information in our product catalogue at our web site www.aeron.no
As a total contractor of HVAC systems, AF Offshore Aeron want to take full responsibility in every step of a project in order to give the customer the optimal climate solution for personnel and machinery.

PRE-STUDIES
It is important to involve us in the early stage of a project. Pre-studies are essential to clarify the customer’s requirements. We can contribute with a wide range of important information such as technical and economical consequence calculations and analysis.

This approach ensures high quality HVAC systems and reduces installation and operational costs. An increasing number of customers have seen the true benefit of using AF Offshore Aeron as their reliable partner for HVAC solutions.

DESIGN & ENGINEERING
Providing designs for a variety of HVAC applications requires innovation, flexibility and experience. AERON make extensive use of state-of-the-art software to design and optimise HVAC systems tailor made for each customer. Instructions for installation, operation and maintenance are available on CD-ROM or as paper printouts.

DELIVERY
We have a lean and effective organisation with a short and secure delivery time of all necessary components and systems. All parts are manufactured by skilled workers using modern technology in our OEM partners manufacturing plants. All parts are manufactured in compliance with AERON’s strict specifications and quality assurance standards.

SUPERVISION AND COMMISSIONING
Correct installation and adjustments are important factors for overall performance and end result. Our experienced service engineers can provide supervisory and commissioning services on site. Undertaking skilled inspection, measuring, regulation and testing all around the world.

TRAINING
When delivering a plant to the customer, we find it important to make sure that the staff involved are trained in the use of the HVAC systems. Learning the right procedures for operation and maintenance are equally important. We offer a wide range of general training programs related to our HVAC technology. Customised training programs for a specific installation are also available on request.

Aeron Energy Technology Co Ltd was established in 2009 and is our main HVAC centre in Asia, serving our customers in the marine and offshore industry in China and part of Asia.

Aeron has since 2000 delivered complete HVAC systems to more than 150 Ships built in China and approximately 1000 Ships worldwide.

We are a supplier to all kind of ships and offshore rigs, and we are a leading supplier of complete HVAC Systems to all kind of offshore Ships.

All our products and systems will be delivered in accordance with the classification society rules and regulation. The management system of Aeron is certified by DNV, Det Norske Veritas.
We have always worked closely with our customers learning their needs and meeting their special requirements. The experience gained has been incorporated into our products and made AF Offshore Aeron a highly competent supplier of marine HVAC systems.

With our extensive experience, we have developed a large range of high quality products that are specially designed for shipboard and offshore environments.

In our ongoing product development, we put high emphasis on increased functionality, and noise reduction in every part of our systems.

Our Product Catalogue contains technical information of all our standard products. The Product Catalogue is available on CD-ROM and our website www.aeron.no
AERON AIR HANDLING UNITS AND AUTOMATION

Example of Aeron Air Handling Unit

Aeron air handling units are designed to satisfy HVAC requirements for all accommodation spaces onboard ships. We offer a flexible range of units. The units are made up of modules that enable us to deliver solutions tailor made to each vessel and ventilation room. Our products come in selections of single or dual-pipe units, low or high pressure units.

AERON Marine Air Handling Units:
- are assembled from a wide range of standard sections
- are available in 12 sizes up to 51000 m3/h
- have very good acoustic and thermal insulation
- can be delivered both as galvanised or stainless steel
- are delivered with wave breakers and water traps
- fan and motor are mounted on vibration dampers with flexible connections

AERON Marine Air Handling Units are delivered with all necessary accessories in order to minimise installation work at the yard. The heat exchangers and evaporators can be delivered in any type of materials the customer demands.

To control the system we deliver everything from simple, virtually maintenance-free plants to state of the art computerised systems. All necessary control panels, starters, frequency converter systems, valves, motors, sensors and other accessories necessary for controlling and monitoring of AERON HVAC systems.

AERON CABIN UNITS AND SPIRO PIPES

AERON Marine Cabin Units and air terminals are designed for use in high speed marine air conditioning systems. Their task is to control the flow of air, its distribution and temperature. The units are tested for optimum performance. Important factors includes air throw, air induction, insulation capability and sound attenuation.

We have a comprehensive range of Cabin Units. A range containing units for wall mounting or ceiling suspension, units for 1-pipe, 2 pipe, 1 pipe with reheat and a wide selection of air terminal units for low pressure systems. Air diffusers for the ceiling Cabin Units are available in square or circular shapes to fit ceiling panels.

The Cabin Units is ready for easy and quick installation and may be delivered according to IMO resolution A.754 (18) for false ceilings with fire resistance rating B15. The units satisfies the Comfort Class requirements for noise, vibrations and indoor climate from Det Norske Veritas.

SPIRO PIPES

Our spiro pipe systems and Cabin Units complies with EUROVENT 2.2 Class C specifications for tightness and withstands negative and positive pressure up to 3000 Pa.

The preinsulated spiro pipes provide an excellent guarantee against heat loss during the winter, and against condensation in the period of cooling all through the summer.
AERON REFRIGERATIONS PLANTS

Aeron’s range of refrigerating units will cover every need for refrigeration onboard modern vessels and offshore rigs. Tailor made to fulfill all requirements from yards, owners, classification and national authorities.

Our refrigeration machineries are constructed for marine applications. Components and materials are chosen on the basis of our long experience in the marine refrigeration business. Emphasis is put on small dimensions, low weight and easy maintenance as well as site installation friendly solutions.

The refrigeration plants can be delivered either as direct expansion systems or as chilling-water plants for indirect cooling. Our plants can be delivered with compressors for reciprocating or screw type systems, or as multi-compressor units fitted with several compressors and different degree of prefabrication, for instance so called “Deck-units”.

Whatever the requirements, AERON will provide an optimal designed plant that meet your demands.

Our self contained units come in a high quality finish designed for installation in both accommodation areas and technical areas. The units can be used with all common refrigerants from 4 to 96 kW. Custom made units can be delivered for larger capacities. You will find more products and details in our Product Catalogue.

AERON VENTILATION FANS

Aeron are offering all types of fans needed to create an optimal ventilation system for marine and offshore applications. With requisite certificates according to class and governmental requirements.

**AXIAL FANS.**
Typical applications for these fans are mechanical ventilation of technical rooms like engine rooms, cargo rooms, a.o. where you transport large air volumes at relative small pressure drops.

**EXPLOSION-PROOF FANS FOR HAZARDOUS AREA.**
Hazardous areas onboard offshore rigs, chemical tankers, oil tankers and gas carriers, have very stringent requirements with regard to design and execution of the ventilation fans, concerning safety. We offer a wide range of special fans for installation in these areas.

**CENTRIFUGAL FANS.**
Typical applications for these fans are exhaust air from different rooms in accommodation areas, or as supply or exhaust fans for any room with narrow spaces that requires small ducts with high speed air distribution.

**DAMPERS AND FIRE-DAMPERS**
We deliver any types of heavy duty dampers for marine and offshore applications, including certified fire-dampers approved by classification societies.

**SILENCERS.**
We deliver any type of square and circular high efficiency silencers.
Humidity does more damage than most people realise. Humidity leads to corrosion which will shorten the lifespan of machinery, metal structures, electrical installations and electronic systems.

Installation onboard offshore platforms and various types of ships are often exposed to extreme environmental conditions. Louvers in general, particular the intake louvers, are often exposed to larger amounts of water from heavy rain, strong winds, green sea and water spray. To ensure the longevity of the louvers, but also to increase the lifespan and performance of machinery, electronic systems and more, a well dimensioned and high quality intake louver systems is always well invested money.

AERON droplet separators are heavy duty, high efficient water and moisture eliminators that yield high efficiency with low operating pressure drop. The separators are available in sea water resistant aluminium alloy or in stainless steel. The droplet separators can be combined with a filter coalescor system for water and dust separation.

All our louvers and droplet separators that can be delivered in combination with a damper or hatch for weather-tight closing. In addition to the advanced moisture eliminators, we also supply all kind of simple louvers, hoods and goose necks.

Our Maintenance and Modification Department is the customer’s link and lifetime to service and spare parts. Regular follow-ups of systems in operation are offered to all our customers. As when it comes to supervision and suggestions for alterations and improvements of systems, whenever regulatory authorities require it, or when new and better technology is available.

Our staff will ensure that our plants continue to live up to the customer’s expectations. Our Maintenance and Modification Department will always be at hand. A variety of service programs are available. From service on demand, service contracts for preventive maintenance to system management. AERON will be at your service with professionals ready to analyse and solve any problem before they become critical.

To maintain smooth operation and minimal downtime of the installed equipment, AERON holds an extensive stock of spare parts available though an efficient parts service system. In conjunction with our international representatives and business partners we do our utmost to satisfy our customers needs.

- Supervising and inspections
- Commissioning
- Operator training
- Service and maintenance
- Modifications, upgrading and conversions
- spare parts
1. **POLAR ONYX**  
   Owner: GC REBER SHIPPING  
   Shipyard: Ulstein Verft, Norway  
   Design: Ulstein SX121 OCV  
   Type: Offshore Construction Vessel  
   Year: 2014

2. **Far Sword**  
   Owner: Farstad Shipping  
   Shipyard: STX Brevik, Norway  
   Design: UT 712  
   Type: Supply Vessel, Tug  
   Year: 2006

3. **OPV 80**  
   Owner: Armada the Chile  
   Shipyard: Aumar, Chile  
   Design: 80 m Offshore Patrol Vessel  
   Type: Fassmer OPV 80  
   Year: 2012

4. **CSS DERWENT**  
   Owner: Hallin Marine  
   Shipyard: Drydock World SEA, Singapore  
   Design: STX Canada Marine  
   Type: Demand Compact 5000 Submersible  
   Year: 2013

5. **Boldtern**  
   Owner: Fred Olsen Windcarrier  
   Shipyard: Lamprell Energy Ltd, Dubai  
   Design: GustoMCS  
   Type: Jack Up Vessel  
   Year: 2012

6. **Havila Venus**  
   Owner: Havila Shipping  
   Shipyard: Havyard Leirvik, Norway  
   Design: Havyard 845  
   Type: Anchor Handling Tug Supply  
   Year: 2009
7. Ramform Titan
Owner: PGS-Petro Geo Services
Shipyard: Mitsubishi Heavy Industries, Japan
Type: Seismic Research Vessel
Year: 2013

8. Fugro Synergy
Owner: Fugro Well Services
Shipyard: Bergen Group BMV, Norway
Design: MT 6060L
Type: Light Drill Ship
Year: 2009

9. Voldstad Surveyor
Owner: Voldstad Shipping
Shipyard: Freire Shipyard, Spain
Design: ST213
Type: ROV Survey Vessel
Year: 2010

10. Amazon Warrior
Owner: Western Geos
Shipyard: Flensburger Schiffbau Gesellschaft, Germany
Design: FSG 760
Type: Offshore Seismic vessel
Year: 2013

11. H/S Dodekanisos Pride
Owner: Dodekanisos Seaway, Greece
Shipyard: Bissera Marine, Norway
Type: High Speed Catamaran
Year: 2006

12. Stena Traveller
Owner: Stena Line
Shipyard: Bergen Group Fosen, Norway
Design: Bergen Group
Type: 212m Ro-Ro vessel
Year: 2006

13. Viking Poseidon
Owner: Eidesvik
Shipyard: Ulstein Verft, Norway
Design: Ulstein SM121
Type: Offshore Construction Vessel
Year: 2010
AERON REFERENCES

14 West Linus
Owner: North Atlantic Drilling
Yard: Jining Shipyard Pte, Ltd
Type: Drilling Jack up
Year: 2013

15 COSL Pioneer
Owner: COSL
Customer: COSL
Maintenance & Modifications

16: Rem Ocean
Owner: Rem Ship
Shipyard: Kleven Verft, Norway
Design: HT 6023, Yard 152
Type: Diving Support and Construction Vessel
Year: 2014

17: SBM Installer
Owner: SBM Offshore
Shipyard: Keppel Singmarine, Singapore
Design: MT 6024, Yard 366
Type: Diving Support and Construction Vessel
Year: 2013

For updated information regarding our representatives, refer to our web site – www.aeron.no

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