



From Conception
to Completion

HVAC SYSTEMS FOR MARINE AND OFFSHORE

AERON is a product of





AF Gruppen

AF Gruppen is one of Norway's leading contracting and industrial groups with operations in the areas of Civil Engineering, Environment, Building, Property, Energy and Offshore.

We have always been an independent company, proud of our strength and ability to perform complex tasks. Our entrepreneurial spirit is characterized by the ability and willingness to think differently and find better, more future-oriented ways in which to generate value. AF- Addressing Future!

AF Offshore

AF has considerable and varied activities aimed at the oil and gas industry, with core areas such as decommissioning of offshore installations and rig services. AF has a modern reception facility at Vats near Haugesund for the environmental clean-up of petroleum installations. AF Offshore business includes different Maintenance and Modifications EPCIC projects for marine, offshore and onshore installations.

AF Offshore AeronMollier is a part of AF Offshore, and a total contractor of complete Heating, Ventilation and AirConditioning - HVAC Systems to the global Marine and Offshore Industry, both for newbuilding's, maintenance and modifications. The Offshore business area is established in Norway, United Kingdom, Singapore and P.R China.

Our core values

The purpose of our business is to create value for our customers, owner, employees, suppliers and society. Our attractiveness is demonstrated by how we create and manage value.

- Reliable
- Freedom to exercise entrepreneurial spirit and discipline in relation to goals and requirements
- Thoroughness and hard work
- Persistence in achieving profitable growth
- Management through presence and involvement

Code of conduct

AF's Code of Conduct serves as the standard for the expectations and demands we make of our suppliers and subcontractors. In 2009, AF joined the United Nations Global Compact, which is based on ten fundamental principles for safeguarding human rights, working conditions, the environment and anti-corruption measures.



AF Offshore AeronMollier

AF Offshore AeronMollier is a total contractor of Heating, Ventilation, Air Conditioning and Refrigeration Systems (HVAC-R Systems). We design and deliver advanced HVAC-R Systems with focus on safety and efficiency to the global marine and offshore markets.

Energy Efficient HVAC-R systems

The world needs more energy effective solutions. Our commitment is to provide smart and energy efficient technical solutions that will benefit our customers and the environment even with the most demanding global comfort and safety requirements.

Organized in 3 departments

AF Offshore AeronMollier is divided into 3 departments in order to serve our customers and their requirements in the best way.

- Marine & Rig Newbuilding
- Marine & Rig Maintenance & Modifications (M&M)
- Fixed Installations Newbuilding and M&M

AERON® HVAC-R Products

Based on more than 35 years experience, we have developed an AERON® high quality product range, specially designed for shipboard and offshore environments. AERON® HVAC+R products are designed to ensure optimal climate solutions for personnel, cargo, machinery and instruments aboard modern ships and offshore installations.

We complete our product range with products from other well known suppliers, in order to give our customers the optimal solutions and fulfil our customers requirements. You will find more information of our products in this brochure. You will also find our standard product catalogue at our web site www.aeron.no

Your Reliable Lifecycle HVAC-R Partner

We want to be involved at all stages of the building process and for the lifetime of installed systems.

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



Your Local and Global HVAC-R Partner

AF Offshore AeronMollier offer the international markets customized solutions and global after-sales service. Our products and services are distributed worldwide through a network of subsidiaries and carefully chosen representatives. With our long experience, and deliveries to more than 1.000 installations worldwide, we are a leading contractor of HVAC-R systems to the global marine and offshore industry.

Norway, Close to the North Sea

With offices in Flekkefjord, Stavanger and Bergen along the Norwegian coast, and in Aberdeen in the UK, we are very close to the Norwegian and British Marine and Offshore business. We are well familiar with the demanding national authorities requirements in the North Sea, Norsok standards and the oil companies and classification societies requirements. We are able to serve our customers in order to fulfil these requirements.

Aeron Energy Technology Co Ltd in p.r. China

We have since 2000 delivered complete HVAC-R Systems to more than 150 Ships built in China and approximately 1000 Ships worldwide. 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.

AF Offshore Aeron Pte Ltd in Singapore

We have been operating in Singapore since 2007 and we have been a contractor of several turnkey HVAC-R projects both for the Marine and Offshore Industry. AF Offshore Aeron Pte Ltd was established in 2014 to be closer to our customers in the region and be able to give our customers even better services.



HVAC-R Systems From Conception to Completion

We are a reliable contractor of quality Heating, Ventilation and Air-Conditioning – HVAC systems specially designed for different types of ships, oil & gas and naval applications.

Our engineers are highly qualified and experienced, with in-depth knowledge of international rules and regulations of all leading classification societies. Our dedicated specialists have extended knowledge of the demanding marine and offshore rules and regula-

tions. We are well familiar also with requirements in the North Sea, Norsok standards, and the oil companies requirements.

We are a total turnkey contractor with competence and equipment for marine and offshore environments. Our engineers provide a thorough advisory and follow up from conception to completion. With highly skilled employees in all disciplines, we take the complete responsibility for our customers HVAC-R Systems.



The Feeling of Fresh Air

It is a known fact how important a well dimensioned HVAC system is for the indoor environment. Fresh air is vital to both personnel and machinery. Feeling good improves productivity.

With AERON® HVAC Products installed - you are sure to get the feeling every hour, every day, every year and all around the world – The Feeling Of Fresh Air...

One of our specialities are the medium and high-speed systems. These systems meet the requirements for less space consumption onboard ships and offshore installations, and eliminate noise and vibration problems. We supply all types of AERON® HVAC products to all sections of ships, rigs and offshore installations.





HSE and Quality Control

AF's mission is to create value through future-oriented contracting, energy and environmental operations with an uncompromising attitude towards safety and ethics.

HSE - Health, Safety and Environment

In the marine and offshore industry, HSE is a major focus area. HSE and QA is an integrated part of our working methods and routines. It is a requirement at AF that all work must be performed such that the safety and health of those who are involved are looked after in a satisfactory manner. This is an obligation of our managers, employees and subcontractors. We will work on the basis of the precondition that all work must be planned and carried out such that no damage occurs to people, machines or the environment.

The management system at AF integrates health, safety and the environment (HSE) in all processes. The system is built up in accordance with the principles in the ISO standards 9001, 9004 and 14001. HSE work is extremely central in the development of managers and employees.

Preventive work is fundamental in order for us to be successful with HSE in our projects. Job Analysis and Safe Job Analysis (SJA) are tools that we use to survey the risks with respect the HSE and in order to plan production in the safest and most appropriate manner. Through participation in SJA, everyone becomes aware of their tasks and the risks associated with such.

Quality Assurance

The Group policy defines quality as one of the elements in the AF Group's operational strategy. AF Offshore AeronMollier AS is focusing on a good reputation, created by satisfied customers. Therefore, a well-functioning, handed over system with correct standards, is our understanding of the word quality. Our ambition is that every plant/system we deliver, shall comply with our customers' specification.

When doing a job, we understand both the risks and opportunities involved and know how to manage them. We take pride in delivering as we promise. From the very start of the engineering process, quality is a key word during the whole project, and in every project. AF complies with relevant standards and authorities for the market segments and geographical locations in which we operate.

The management system of AF Offshore AeronMollier is certified by Det Norske Veritas – DNV according to ISO 9001:2008.

We are also approved by Achilles, Sellichha and registered in FPAL. We have wide experience with deliveries according to Norsok standards.





Marine & Rig Newbuilding

For more than 35 years, our HVAC Systems has been installed on most kind of vessels worldwide. With our wide experience, we have been a total contractor of HVAC-R systems to offshore rigs and the following types of ships:

- Merchant Ships
- Fishing Vessels
- Research Vessels
- Cargo vessels
- Ferries & Ro/Pax Vessels
- Coast Guard Vessels
- High speed Catamarans
- Cable Laying Vessels
- Platform - PSV and Anchor Handling Tug Supply - AHTS
- Diving Support and Offshore Construction Vessels
- Multi purpose Vessels
- Seismic Research Vessels
- Other special ships

As a total contractor of HVAC systems, we take full responsibility in every step of a project in order to give the customer the optimal climate solution for personnel and machinery. We have proven competence to run major turnkey projects worldwide, and provide prompt support to meet short delivery times.

We deliver a complete package of services related to HVAC-R projects.

- Pilot studies & Engineering
- Complete Equipment delivery
- Turnkey Installation & Supervising
- Worldwide Commissioning
- Operator Training
- After Sales services

Engineering

Our highly skilled engineers have wide experience in delivering large complex new build projects and extensions & modifications of existing HVAC installations. We have in-house E&I capabilities and production of all HVAC related control & starter panels.

We deliver a complete package of services related to engineering of marine HVAC-R projects.

- Complete design & supply of HVAC-R systems
- All necessary heat transmissions calculations
- Calculations of all airflows, heating and cooling capacities
- Complete design of all HVAC-R Systems
- Automation & Control panels for all HVAC-R Systems
- Complete supply of chilled water and DX refrigeration plants
- Complete supply of Provision room refrigeration
- Cargo hold and tank ventilations
- Supply of all ventilation for Engine room and Technical rooms
- All necessary documentation for installations, operations and maintenance.
- Noise and vibration calculations
- Compact equipment design and high pressure air conditioning systems
- Complete HVAC Equipment for hazardous and non hazardous areas.



Marine & Rig Maintenance & Modifications

Our Maintenance and Modification -M&M Department is the customer's link and lifeline to service, maintenance and spare parts for HVAC-R Systems. 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 M&M department will be at your service.

Maintenance and service is vital to ensure optimum air quality and long life for the HVAC-R plants. We offer both service "on demand" and a range of service agreements, which can be adapted to customer requirements. Aeron will be at your service with professionals ready to analyze and solve any problem before they become critical.

We deliver a complete package of M&M services related to HVAC-R projects.

- Supervising and inspections
- Commissioning
- Operator training
- Preventive maintenance
- Modifications, upgrading and conversions
- Complete Equipment deliveries of HVAC-R Systems
- All necessary documentations for HVAC-R Systems
- Noise and vibration reductions
- Cleaning of ducts and equipment
- Readjustments of the plants
- Pressure control of HVAC Systems for accommodation
- Energy efficient temperature control of technical rooms
- Temperature and pressure control of engine room fans
- Cleaning and control of water flow for cooling and heating

Spare parts

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

- An extensive stock of filters and spare parts available
- AERON® air filters and coal filters available in our warehouse.
- Quality spare parts with attractive prices
- Spare parts sent by courier same day as ordered
- Worldwide service network
- Experienced marine service engineers at your service

Flat Packed HVAC-R Products

We have developed a special system which makes it possible to supply 'flat-pack' HVAC equipment as an alternative to fully assembled. This unique system means that the units can be taken down to the ventilation compartment in pieces, and assembled there. This saves a lot of time and cost, compared to cutting a hole in the hull to take in large products.

Neither does the work has to be performed at a shipyard, as much work can be done anywhere in the world, and even while the ship is in transit. We upgrade and install the HVAC-R products all over the world and we take full responsibility for the complete upgrading and installation for all disciplines related to the upgrading of the HVAC-R System.



Fixed Installations

Fixed offshore installations are installations for diverse purposes, which are fixed on the seabed and designed to operate permanently or for a defined period at an offshore site.

The following types are included in fixed installations portfolios:

- Installations permanently fixed by piling (pile foundation)
- installations resting on the sea bed by action of gravity foundation)
- installations (platform/ship) with excess of buoyancy, connected to a base by tensioned anchoring elements (tension leg foundation)

Typically, platforms like Ekofisk, Gullfaks, Statfjord, Visund, Åsgard FPSO, Valemon, Veslefrikk etc

In addition, Fixed Installations are responsible for serving customers operating production facilities onshore (Mongstad, Kollsnes, Snøhvit, etc)

Preliminary Studies

The main concern within HVAC-R Systems is providing a safe environment both for personnel and equipment. We will always focus on giving our customers optimal solutions keeping in mind correct functionality and cost.

- Offshore surveys on existing HVAC-R plants
- Conceptual studies
- Propose solutions and cost estimates
- Smoke and gas ingress analysis

Examples: pre studies and feasibilities studies Statoil Kitchen hoods Statfjord & Gullfaks - NCS, Feasibilities studies noise reduction measurements for HHI - Valemon Korea

Newbuildings and modification projects

We cover all aspects of offshore installation, from living quarters, technical rooms, process, drilling, power generation and distribution. We deliver a complete package of offshore services related to HVAC-R projects.

- All calculations of airflows, heating and cooling
- Complete engineering and supply of HVAC-R Systems
- Total project execution of HVAC-R projects - EPCIC
- Complete PLC based Control panels for all HVAC-R Systems
- Complete pre-fabricated freezer and cold storage packages
- Electro and automation
- Piping and plumbing
- Fire and gas systems
- Control panels with PLC and MCC arrangements
- Noise and vibration reduction
- Technical safety and working environments
- Preventive and corrective maintenance.
- Complete HVAC Equipment for hazardous and nonhazardous areas.
- Self-developed ex cooling plants for AC Systems.
- CFC/ HCFC refrigerant gas reclaim and replacement with "ozone-friendly" alternatives
- Custom made cooling machines for hazardous and nonhazardous areas.
- Custom made container solutions with HVAC-R Systems.

Examples: Complete delivery of provision & refrigeration systems to SMOE in Singapore – 2/4L platform to ConocoPhillips. Complete delivery of Module HVAC to Statoil Gullfaks CCR

Commissioning & Maintenance

We ensure that all new and modified installations are operated in accordance to required performance standards.

- Pressurization of secure areas in adjacent to hazardous areas
- Commissioning of installations to ensure the correct water and airflows.
- Ventilation of polluted areas to meet working environment requirements
- Satisfy temperature requirements in manned areas
- Substantiate achieved values towards design
- Preventive and corrective Maintenance of HVAC and Refrigeration systems
- Cleaning of HVAC Systems, mechanical and with dry ice
- Spare parts management

Examples: Frame agreement with Statoil, ConocoPhillips, GDF Suez and Wintershall for maintenance and service of all HVAC equipment

HVAC & R packages

Delivery of suitable quality equipment according to regulations and in compliance with customer's philosophy

- Partner for thoughtful and reliable solutions
- On time delivery
- Documentations according to requirements

Examples: Delivery of complete HVAC package for Gudrun Module – Aibel/Statoil, Delivery of complete HVAC package Johan Sverdrup – Aker/Statoil





AERON® Control Panel with PLC system



Marine Air Handling Unit in galvanized steel

AERON® Air Handling Units and Automation

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.

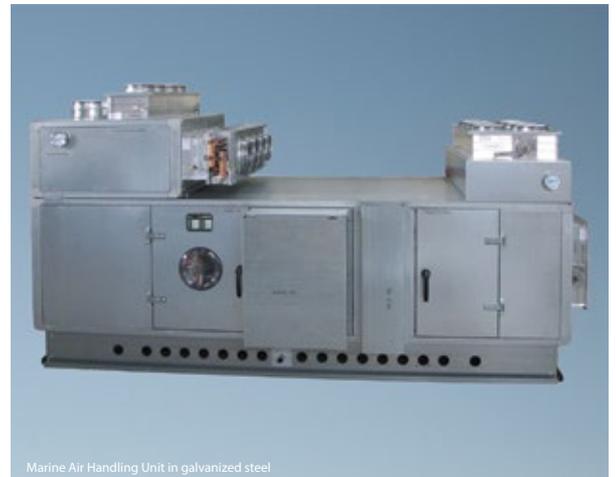
AERON® Marine Air Handling Units:

- 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.

Automation and Control Systems

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 HVAC systems.



Marine Air Handling Unit in galvanized steel



Offshore Air Handling Unit in stainless steel



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 AERON® spiro pipe systems comes in uninsulated and preinsulated types, that complies with EUROVENT 2.2 Class C specifications for tightness and withstands negative and positive pressure up to 3000 Pa.

The preinsulated spiro pipes is made of galvanized steel sheet and insulated with 16mm mineral wool that provides an excellent guarantee against heat loss during the winter, and against condensation in the period of cooling all through the summer. The fittings and pipes are ready for easy assembling as the fittings are supplied with a sealed rubber-ring to ensure tightness.

The uninsulated and preinsulated spiro pipes can also be delivered in stainless steel, suitable for outdoor installation in offshore environments.





AERON® Refrigeration unit with Chilled Water



AERON® Refrigeration unit for provision room Chilled Water



AERON® Self Contained Unit with plenum chamber

AERON® Refrigerations Plants

AERON's range of refrigerating products will cover every need for refrigeration onboard modern ships and offshore installations. All refrigeration machineries and cooling products will be delivered according to requirements from yards, owners, classification society, and national authorities.

Our refrigeration machineries are constructed for marine and offshore applications. Components and materials are chosen on the basis of our customers requirements and our long experience in the business. Emphasis is put on safety, energy efficiency, 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 chilled water plants for indirect cooling. Our plants can be delivered with aircooled or water cooled condensers, compressors for reciprocating or screw type systems, or as multi compressor units fitted with several compressors. Whatever the requirements, we will provide an optimal designed plant that meet your demands.

Our refrigeration products may be delivered for ATEX or non ATEX areas.

- Air cooled or water cooled Chilled water refrigeration units – CW.
- Air cooled or water cooled Refrigeration units with Direct expansion – DX.
- Air cooled or water cooled Split AC units for ATEX or non ATEX.
- Fan coils for Chilled water or ATEX air-cooled refrigeration units.
- Complete Provision room refrigeration systems.
- Self Contained Units for return air or fresh air supply.
- Compact Deck units with Air Handling Units and refrigeration units built together.
- Taylor made cooling systems in ATEX or non ATEX.
- Antenna cooling units



AERON® Fan Coil Cabinet type B



AERON® Fan Coil Unit type A



AERON® Refrigeration unit with Chilled Water



AERON® Air-cooled refrigeration unit in ATEX

AERON® ATEX Products for Cooling of Hazardous Areas

The AERON® range of HVAC-R cooling products for hazardous areas is ATEX compliant, reliable and suitable for location within or in connection with hazardous areas.

Our ATEX product ranges comply with the ATEX directive and consist of both standard products and products tailor made to our customers' requirements and operation environments.

Our long experience in the market and continuing developments of ATEX products, has led us to be one of the leading companies in cooling for hazardous areas in the marine and offshore business.



AERON® Antenna cooling unit AM-0



AERON® Antenna cooling unit AM-05

AERON® Antenna Cooling Units

AERON® Antenna unit type AM is a light-weight, compact cooling unit designed for cooling of antenna systems. The AM unit is equipped with compressor, evaporator and air-cooled condenser all fitted together in a "ready to use" unit.

The AM can operate at surrounding temperatures up to 65°C. The units will be delivered with thermostat and complete control panel for easy operation.

The AM Unit is a compact, flexible and quiet running air-condition unit. The unit is designed to operate inside or below radar domes in a non EX zone. The unit normally has a cooling capacity of 2,5 - 3.5 kW.

The unit is built in stainless steel chassis AISI 316 quality for long lasting lifetime. The construction is strong due to the harsh environment often found in demanding marine and offshore installations.



AERON® Offshore louver unit in stainless steel



AERON® Inlet louver with Droplet Separator and hatch

AERON® Weather Louvers, Droplet Separators & Cowls

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.

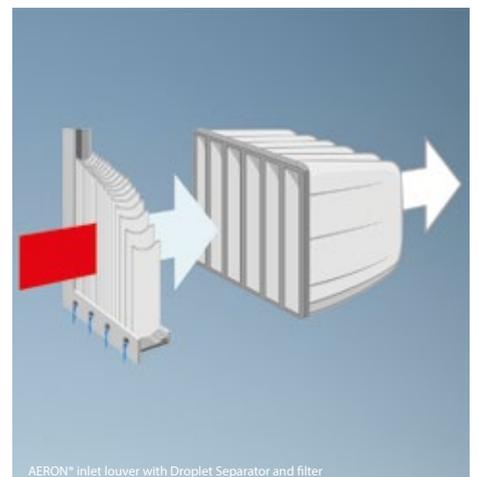
Installation onboard offshore platforms and various types of ships are often exposed to extreme environmental conditions. Louvers in general, particular the intake louvers, are often exposed to larger amounts of water from heavy rain, strong winds, green sea and water spray. To ensure the longevity of 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.



AERON® outlet louver with manual closure damper



AERON® inlet louver with Droplet Separator and filter



AERON® Axial fan with silencer



AERON® Axial fan with flexible connections



AERON® Axial fan with closure damper



AERON® Centrifugal fan



AERON® Fans, Closure Dampers, Fire Dampers and Silencers

We 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 hazardous 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

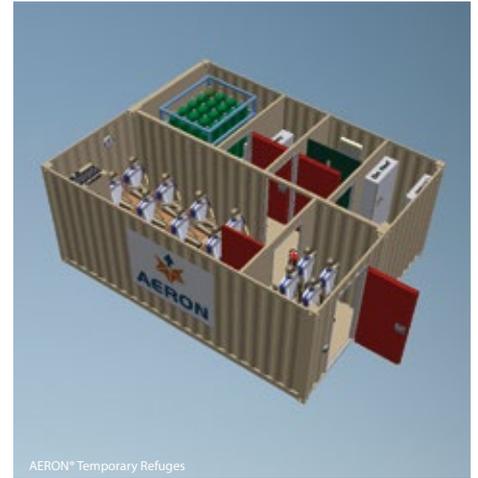
We deliver any types of heavy duty dampers for marine and offshore applications, including certified fire-dampers approved by classification societies.

Silencers

We deliver any type of square and circular high efficiency silencers.



AERON® HVAC Container



AERON® Temporary Refuges

AERON® Container Solutions

Our AERON® container's can be delivered both for marine and offshore applications. These can be delivered fully insulated and with necessary light, ventilation, cooling and heating. You only need to supply electricity and necessary water and ventilation ducts.

We may deliver containers for storage of special equipment in ATEX or non ATEX, and containers with complete HVAC-R systems for accommodation or technical rooms. The systems may be designed according to customers' requirements and all will be delivered in accordance with relevant rules and regulations.

Typical applications:

- Storage of lithium battery packages in ATEX with necessary HVAC
- Storage of painting equipment in ATEX with necessary HVAC.
- Container with complete HVAC Systems for accommodation
- Container for cooling of Instrumentroom or Technical rooms
- Container with complete provision room cooling system
- Containers for temporary refuges with necessary equipment.
- Other tailor made solutions in ATEX or non ATEX.

Examples of AERON® HVAC container.

- Containers with Mist Eliminator louvers, Air Handling Units, fans etc.
- Refrigeration machinery with air-cooled or water cooled condensers.
- Cooling system with necessary heat exchangers, integrated pumps.
- Complete solutions with integrated PLC automation & control system.



AERON® Storage container



AERON® Storage container



Marine References



1



2



3

1. POLAR ONYX

Owner: GC RIEBER SHIPING
Shipyard: Ulstein Verft, Norway
Design: Ulstein SX121 OCV
Type: Offshore Construction Vessel
Year: 2014

2. CSS DERWENT

Owner: Hallin Marine
Shipyard: Drydock World SEA,
Singapore
Design: STX Canada Marine
Type: Derwent Semi Submersible
Year: 2013



4



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3. OPV 80

Owner: Armada the Chile
Shipyard: Asmar, Chile
Design: 80 m Offshore Patrol Wessel
Type: Fassmer OPV 80
Year: 2012

4. Boldtern

Owner: Fred Olsen Windcarrier
Shipyard: Lamprell Energy Ltd, Dubai
Design: Gusto MCS
Type: Jack Up Wessel
Year: 2012



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5. SMARAGD

Owner: Smaragd
 Shipyard: Havyard Ship Technology
 Design: Havyard HST 121
 Type: Fishing Vessel
 Year: 2013

6 Ramform Titan

Owner: PGS-Petro Geo Services
 Shipyard: Mitsubishi Heavy Industries, Japan
 Type: Seismic Research Vessel
 Year: 2013

7. Fugro Synergi

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

8. Loch Seaforth

Owner: Caledonian Maritime Assets Ltd.
 Shipyard: Flensburger Schiffbau Gesellschaft
 Type: Ro-pax
 Year: 2014

9. Amazon Warrior

Owner: Western Geco
 Shipyard: Flensburg Schiffbau Gesellschaft, Germany
 Design: FSG 760
 Type: Offshore Seismic wessel
 Year: 2013

10.H/S Dodekanisos Pride

Owner: Dodekanisos Seaway, Greece
 Shipyard: Båtservice Mandal; Norway
 Type: High Speed Catamaran
 Year: 2006

Offshore References



1 We are a total supplier of HVAC equipment to Johan Sverdrup field center

Illustration - Statoil



2 Ekofisk 2/4L – Worlds largest hotel platform with 552 single cabins. Development, delivery and commissioning of provision cooling plant storing food for 15 thousand meals a week.



3 We are a total supplier of HVAC Equipment and service package to the Gudrun platform.

Gudrun installation - Photo Eli Skjeveland Tengesdal - Statoil

1. Johan Sverdrup Field Center

Owner: Statoil
Customer: Statoil
Type: Fixed Installations
HVAC Equipment for 4 platforms.
Year: 2015 - 2018

2. Ekofisk 2/4L

Owner: Conoco Philips
Customer: SMOE Pte Ltd, (Sembcorp)
Type: Fixed Installations
Year: 2013

3. Gudrun

Owner: Statoil
Customer: Aibel
Type: Fixed Installations
HVAC Equipment package
Year: 2012

4. West Linus

Management: North Atlantic Drilling
Shipyard: Jurong SY, Singapore
Type: Drilling Jack Up
Building year: 2013



4

5. Songa Dee

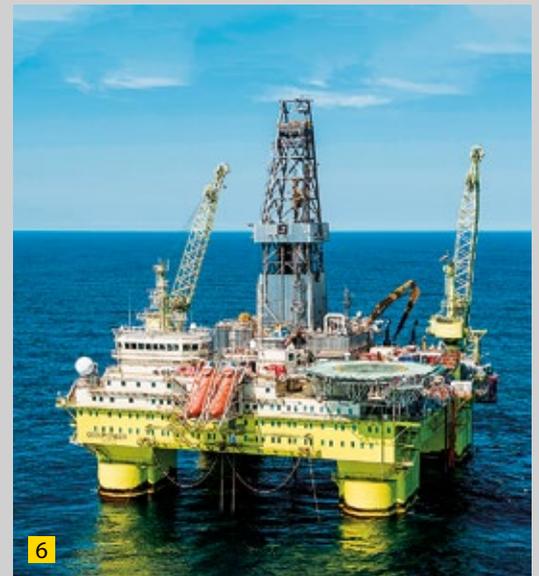
Owner: Songa Offshore
Customer: Songa Offshore
Type: Drilling Semi sub
Maintenance & Modifications
Year: 2014 - >



5

6. COSL Pioneer

Owner: COSL
Customer: COSL
Type: Drilling Semi sub
Maintenance & Modifications
Year: 2012 - >



6

7. Gina Krog FSO

Owner: Teekay
Customer: Teekay
Type: Floating, Storage & Offloading
HVAC Upgrade at Conversion
Year: 2015 - 2016



7

8. Rowan Viking

Owner: Rowan
Customer: Rowan Drilling Norway
Type: Drilling Jack Up
Maintenance & Modifications
Year: 2015 - >



8



Your local and global HVAC partner

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