

YORK NAVY SYSTEMS

Cool under pressure



To keep you cool under pressure we offer an extensive range of HVAC solutions



NAVAL WATER CHILLER UNITS

Open type screw compressors

- Sea water cooled condensers with CuNi exchanger tubes, shell & tube design
- Dry expansion evaporator with separate refrigerant circuits, shell & tube design
- Shock and vibration resistant
- Up to 2,400kW cooling capacity



HVAC SYSTEMS

Naval Air Treatment Unit (ATU)

- Stainless steel 316L construction throughout
- 50mm mineral wool sandwich panels for thermal and acoustic insulation
- 15G shock rating
- Motor starters on-board
- Air inlet & outlet to suit duct layout



Open type centrifugal compressor

- Flooded evaporator
- Sea water cooled condenser with CuNi 90/10 tubes
- Automatic alignment motor/compressor
- Up to 3,000 kW cooling capacity



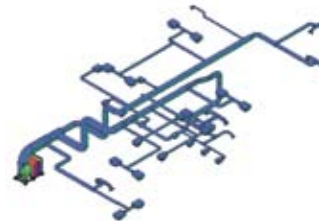
Nuclear, Biological and Chemical filter

- Packaged unit
- Sealed filter units
- Compact design
- Bespoke design
- Integrated with ship design



Semi-hermetic magnetic bearing chiller

- Superior Reliability
- High Efficiency
- Low Noise and Vibration
- Totally Oil Free System
- Low Inrush Current <1
- Up to 1,000kW cooling capacity



Integrated HVAC system design

- Heat load and airflow calculation
- Duct work sizing and layout
- Full HVAC design including NBCD (TACS)
- Compliant to Navy standards DEFSTAN, MILSTD, NATO-STANAG

Serving a global market

York Navy Systems is a specialist division within Johnson Controls. It is dedicated to the supply of heating, ventilation, air-conditioning and refrigeration (HVAC&R) systems for use on all types of Navy vessels. All equipment supplied by York Navy Systems is designed, manufactured, tested and installed to meet the specific demands of customers working in this unique environment. A global support infrastructure ensures vessels are kept operational wherever they may be deployed.

Navy HVAC&R Equipment

York Navy Systems applies its extensive experience of shipboard air-conditioning and refrigeration systems to ensure the best solution is applied to applications on Navy ships of all kinds, from submarines to aircraft carriers. With the vast Johnson Controls product portfolio available, York Navy Systems can tailor systems to meet the exact requirements of each application. Whether it is a bespoke design to meet the exacting specifications demanded by a submarine, or a commercial off-the-shelf product more suited to a fleet auxiliary vessel, all equipment is manufactured to the highest quality standards.



Applications

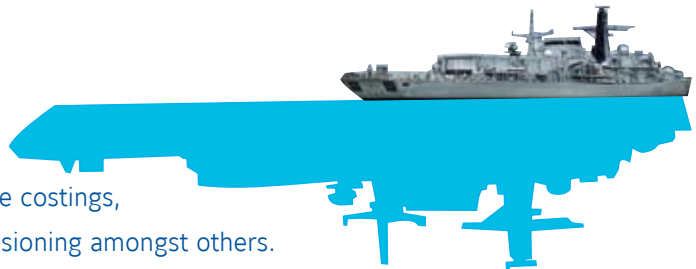
York Navy Systems are unrivalled in the supply of air conditioning and refrigeration equipment for Naval applications. With equipment in service on over 1,300 ships worldwide, including all the NATO nuclear powered submarine fleet, York Navy Systems are unequalled in their Navy experience. From a small refrigeration plant for a coastal patrol vessel to a complete HVAC package for an aircraft carrier, York Navy Systems have the solution.

Integrated Logistic Support

York Navy Systems employ the latest integrated logistic support analysis techniques to accurately predict equipment availability, reliability and maintainability, life cycle costings, planned maintenance schedules and spares provisioning amongst others. To guarantee equipment complies with contractual requirements, these analysis techniques are applied throughout all phases of a project, from design and component selection to final build.

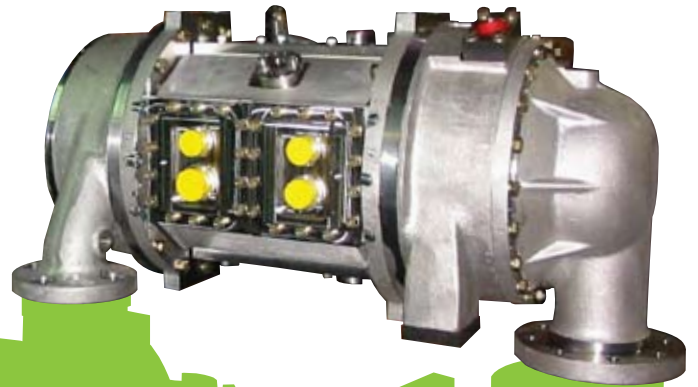
Support Network

With over 5,000 highly skilled technicians, based in 500 offices, in 125 countries, York Navy Systems offer an unrivalled worldwide support network. With the ability to use local technicians, or rapidly deploy specialist resources from a suitable location, vessels are never far from expert assistance.



Control

Johnson Controls are industry leaders in fully automated control systems. These systems can be integrated into the HVAC equipment to provide accurate process control, optimise operational efficiencies, and reduce man machine interface. In addition the systems can be customised to interface with various platform management protocols. Sophisticated control panels incorporate the facility to record historic system operating parameters, this data can be accessed at any time for remote interrogation. The information acquired can be used for system performance analysis, fault diagnosis and for the generation of maintenance regimes to minimise equipment downtime.



Research & Development

York Navy Systems is committed to continuous improvement and is dedicated to the development of new technologies to further improve capability for the end user. Continual research and development in compressor, heat exchanger and control system design ensures the very latest technology is available to our customers. This R&D effort results in improvements in reliability, efficiencies, performance and human interface.

The Future

York Navy Systems welcomes the new challenges that are constantly evolving in the Navy arena. We are committed to supplying only the best product to meet our customers requirements whilst providing a more comfortable, safe and sustainable environment for everyone.



Johnson Controls is a global diversified technology and industrial leader serving customers in over 150 countries. Our 130,000 employees create quality products, services and solutions to optimize energy and operational efficiencies of buildings; lead-acid automotive batteries and advanced batteries for hybrid and electric vehicles; and interior systems for automobiles. Our commitment to sustainability dates back to our roots in 1885, with the invention of the first electric room thermostat.

Through our growth strategies and by increasing market share we are committed to delivering value to shareholders and making our customers successful.



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