

ACUTUS PRODUCT LINE 2022



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Water Chiller Units

Chilled water systems for all needs onboard vessels!



Steam Humidifying system

Tailor made as chiller and/-or heat pump

Easy to maintenance and use

Heating with electrical heater, steam, hot water, thermal oil resources

Corrosion protections for heat-exchangers and body structure

Optional power supply 400VAC/3Ph/50Hz or 440VAC/3Ph/60Hz (690VAC/3ph on request)

Shell & tube seawater or freshwater condensers

Environmentally friendly refrigerants zero ozone depletion & low global warming potential

Low GWP with refrigerant R513a, 631 GWP

Semi-hermetic reciprocating or Semi-hermetic screw compressors

Designed for 24/7 smooth running and continuous operation



Water chiller units provide chilled water inside ships for air handling units, cabin units, fan coils and different air conditioning solutions where many water-operated cooling systems are needed. These systems, which have the widest cooling capacity range among Acutus Marine Cooling systems, are completely tailor-made for your needs. It is built to work with sea

water and fresh water, mainly with shell & tube type heat exchangers and sometimes with plate heat exchangers, together with semi-hermetic reciprocating and screw compressors. New water chillers can be designed and produced in a modular way with a tailor-made solution logic for the replacement of old units on ships.

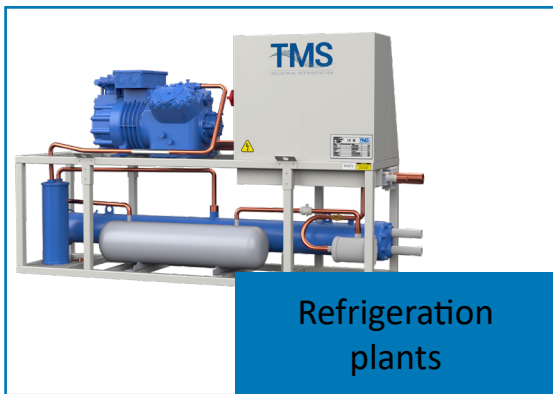
Applications

Tender Garage Coolers, Galley Cooling Units, Cabin Units, Battery Room Cooling



Water Cooled Condensing Units

Condensing units for provision stores.



Tailor made

Corrosion protections for heat-exchangers and body structure

Designed for 24/7 smooth running and continuous operation

Shell & tube seawater or freshwater condensers, or air cooled

Semi-hermetic reciprocating or Semi-hermetic screw compressors

Easy to maintenance and use

Optional power supply 400VAC/3Ph/50Hz or 440VAC/3Ph/60Hz (690VAC/3ph on request)

Capacity control, step or stepless

Environmentally friendly refrigerants zero ozone depletion & low global warming potential

Refrigeration plants provide liquid phase refrigerant to cold storages, morgues and freezers on ships. They can also engage with air handling units when the distance between units is short - thus the complete system becomes simpler than Water Chiller units. Refrigeration plants, which have air-cooled, fresh water and

seawater cooling options, can serve rooms operating at different temperatures. Systems equipped with capacity control features provide maximum efficiency. Refrigerants in use are environmentally friendly with zero Ozone Depletion and low Global Warming.

Applications

Cold Storage Rooms, Freezers, Mortuary Rooms



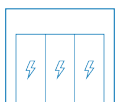
HSC Series

Air & water-cooled marine and industrial chillers. Tailor made for your needs.

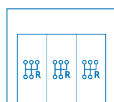


Forget traditional water chillers! The HSC Series provide a robust and sustainable solution for requirements in water cooling operations. The units can be optimized to work in dusty, explosive, corrosive environments with their water-cooled or air-cooled types. HSC Series provides the widest operating range among the

water cooling units in the market. Acutus makes it possible for you to customize units according to project requirements. The Series can be delivered containerized with all complementary equipment such as water reserve tanks, pumps, expansion tanks in a plug&play form.



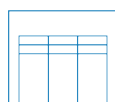
Electrical & Automation rooms



Control & Pulpits rooms



Laboratories



Containers & Shelters

Industries

Steel, metallurgy, mining, cement, oil&gas, food, pharmaceutical, printing, machinery, energy, automotive, shipbuilding, aviation, marine, composite & defense




IAC Series

Marine and industrial air conditioners manage and condition the air locally!
Tailor made solutions without limits.




- Tailor made
- Low sound level
- Designed for 24/7 smooth running
- Hermetic scroll or Semi-hermetic reciprocating compressors
- Built-in or remote Fresh water and Seawater condensers
- Corrosion protections for heat-exchangers and body structure
- Low GWP with refrigerant R513a, 631 GWP
- Optional power supply 400VAC/3Ph/50Hz or 440VAC/3Ph/60Hz (690VAC/3ph on request).



5 kW- 116 kW
Cooling range

-25°C/+60°C
Environmental
temperature range
for operation


SCU Air & Water



3 kW- 129 kW
Cooling range

+60°C Upper
limit ambient
temperature for
operation


Split Air & Water

5 kW- 192 kW
Cooling range

+60°C Upper
limit ambient
temperature for
operation

Rooftop Air & Water



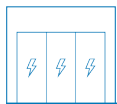
9 kW- 183 kW
Cooling range

+60°C Upper
limit ambient
temperature for
operation

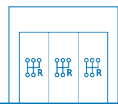
**Heavy Duty
Outdoor**

IAC Series, which with the options of the air-cooled or water-cooled condensers and split or package types, provides all the solutions required by projects and applications under compelling environmental conditions thanks to

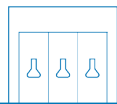
its wide capacity range and alternatives. Free cooling and economizer options maximize energy efficiency where cooling is your applications' only requirement throughout the year.



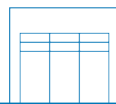
Electrical & Automation rooms



Control & Pulpits rooms



Laboratories



Containers & Shelters



E-House

Industries

Steel&iron, metallurgy, cement, oil&gas, food machinery, energy, marine, automotive & defense



VKS Series


Crane cab coolers. Strong solutions for your cranes in heavy industries.



2 kW- 7 kW
Cooling capacity

+95°C Upper
limit ambient
temperature for
operation

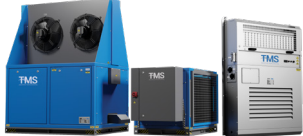
VC Compact



2,5 kW- 28 kW
Cooling capacity

+95°C Upper
limit ambient
temperature for
operation


**VP Package/
Monoblock**



2,5 kW- 46 kW
Cooling capacity

+95°C Upper
limit ambient
temperature for
operation

VS Split



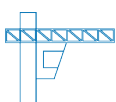
2 kW- 7 kW
Cooling capacity

-15°C/+80°C Upper
limit ambient
temperature for
operation

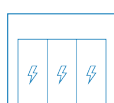
VM Medium

VKS is well known as the most durable, tough, and long-lasting series of Acutus. VKS Series Crane Cab Coolers always assure high performance even under the most severe conditions. Thanks to its 1.5 million variants,

fully meets the requirements of various projects and applications. VKS Series Crane Cab Coolers secure sustainable and continuous operation of your processes, under vibration, dusty, corrosive, and high-temperature environments.



Crane
Cabins



Electrical &
Automation rooms

Industries

Steel&iron, metallurgy, cement, oil&gas, energy, mining, machinery, marine&port



Airlab Series

Keep your air at the highest hygiene level! Destroys all dust mites, bacteria, virus, and mold fungus, in 5 levels!



Small Particle and Dust Filter

Can hold particles with a particle size of 0.4 μm , at a rate above 95%, brings the air to F9 class. Productivity: 95%+. Elimination: Medium and Small Dust, Bacteria, Mold Fungus

HEPA Filter

Has the ability to hold particles with a particle size of 0.3 μm , at a rate above 99.995%, bringing the air to H14 class. Holds fungus and bacteria. Productivity: 99,995%. Elimination: Small Dust Particles, Bacteria, Fungus

Dust and Large Particle Filter

Has the ability of holding dust (3-1 μm) at a rate above 90%, brings the air to EU4 class. Productivity: 90%. Elimination: Large Particles, Mold Fungus.

UV-C Filter

It destroys 99.98% of viruses, bacteria and mold fungus with sizes between 0.05 and 0.3 μm . Productivity: 100%. Elimination: Viruses and Bacteria

Active Carbon Filter

Active carbon filter helps to increase the ambient air quality by holding the bad odors in the environment and the low level of ozone (around 0.1 ppm) that may occur. Productivity: 98,7%. Elimination: Chemicals, Bad odors



Package A/C Units

Conditioned air distribution
station!



Tailor made

Semi-hermetic reciprocating or Semi-hermetic screw
compressors

Packaged A/C units brings the air to the desired cooling and heating conditions, free from dust, and ready for distribution. This integrated structure consisting of DX type AHU and condensing unit can be detached from each other according to the dimensions of the settlement and used in different places. When located on

Easy to maintenance and use

Steam Humidifying system

Heating with electrical heater, steam, hot water, thermal oil resources or designed with heat pump

Environmentally friendly refrigerants zero ozone depletion & low global warming potential

Corrosion protections for heat-exchangers and body structure

Optional power supply 400VAC/3Ph/50Hz or 440VAC/3Ph/60Hz (690VAC/3ph on request)

Low GWP with refrigerant R513a, 631 GWP

Shell-tube seawater or freshwater condensers

Designed for 24/7 smooth running and continuous operation

the ship's deck, it is minimally affected by harsh environmental conditions with its robust chassis materials and CX coating levels that show high resistance to corrosion. Evaporator coils can be structured by copper fins and tubes. Semi-hermetic reciprocating and screw compressors are used upon the cooling capacity needs.



Applications

Various locations on vessels, Engine control room, Battery room, Switchboard room, Galley



ATEX Series

Explosion proof cooling units. Top level safety at your service. Explosion Proof, ATEX certified Zone 1 & Zone 2, T1-T2-T3-T4, IIA- IIB- IIC.



ATEX Marine and Industrial Chillers

HSC Series



ATEX Marine and Industrial Air Conditioners

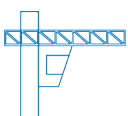
IAC Series



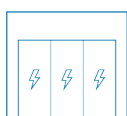
ATEX Crane Cab Coolers

VKS Series

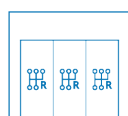
All air conditioning solutions provided by Acutus such as from air to air, water to water, air to water, and water to air systems can be applicable as Ex-Proof type. The ATEX and IECEx certificated systems with their Ex-Proof feature guarantee high level of safety in your projects without sacrificing anything from their unique operational performance!



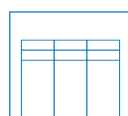
Cranes



Electrical, Battery & Automation rooms



Control & Pulpits rooms



Transformer rooms, Containers & Shelters

Industries

Oil&gas, energy, marine & defense



TKS Series

Temperature and humidity control unit. Fast track cooling solutions, FEEL the benefits!



Easy to use, assemble and disassemble

Designed for 24/7 smooth running and continuous operation

Environmentally friendly refrigerants zero ozone depletion & low global warming potential

Low GWP with refrigerant R513a, 631 GWP

Optional power supply 400VAC/3Ph/50Hz, 440VAC/3Ph/60Hz, 230VAC/1Ph/50/60Hz models (690VAC/3ph on request)

TKS mobile cooling stations provide temporary and permanent solutions wherever needed. It is always ready for service during the construction of new ships, in maintenance and repair services, in emergency air conditioning needs, in cases where the existing air conditioners are insufficient, thanks to its compact design and powerful performance. It can provide spot

cooling and at the same time, it can work with 100% fresh air and provide precise temperature and humidity output. It can also be made with the optional HVAC control panel, always monitor and manage the working performance. In addition, they can be produced on wheels for easy relocation, on a trailer for use on the road, or in a steel skid.

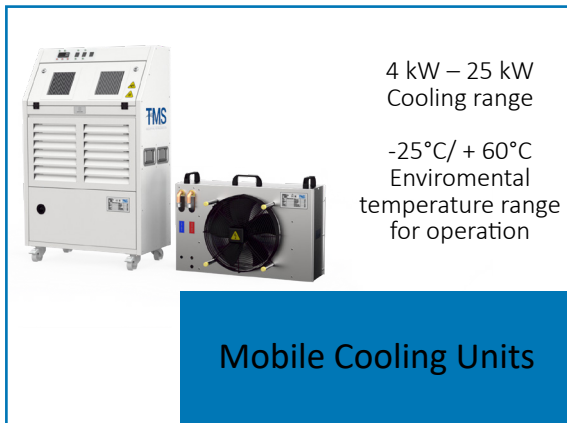
Applications

Shipbuilding phase, Emergency cooling, Spot cooling, Precise temperature, and humidity control, %100 Fresh air



MAC Series

Mobile cooling units. Fast track cooling solutions, FEEL the benefits!



Easy to use, assemble and disassemble

Designed for 24/7 smooth running and continuous operation

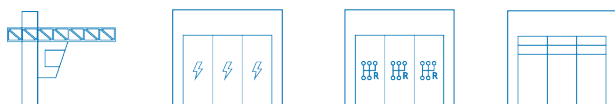
Environmentally friendly refrigerants/0 Ozone depletion & low Global Warming Potential

Low GWP with refrigerant R513a, 631 GWP

Optional power supply 400VAC/3Ph/50Hz, 440VAC/3Ph/60Hz, 230VAC/1Ph/50/60Hz models (690VAC/3ph on request)

You might have a malfunction in your air conditioning system and the system has not been designed with any redundancy scenario. Or your current setup does not satisfy you from efficiency point of view. Besides, you might only need air conditioning during certain peak times of the year. You might also be in the rental business for cooling equipment. In this case, MAC Series Mobile Cooling Units are the perfect solution for you. With its plug and play feature, you can start up and run your operation instantly. MAC mobile cooling stations provide temporary and permanent solutions wherever needed. It is always ready for service during the construction

of new ships, in maintenance and repair services, in emergency air conditioning needs, in cases where the existing air conditioners are insufficient, thanks to its compact design and powerful performance. It can provide spot cooling and at the same time, it can work with 100% fresh air and provide precise temperature and humidity output. It can also be made with the optional HVAC control panel, always monitor and manage the working performance. In addition, they can be produced on wheels for easy relocation, on a trailer for use on the road, or in a steel skid.



Cranes

Electrical, Battery & Automation rooms

Control & Pulpits rooms

Transformer Rooms, Containers & Shelters

Industries

Steel&iron, metallurgy, cement, automotive, food machinery, energy, marine, oil&gas, commercial & defense



APU Series

Pressurization & filtration units. Keep the air clean for your safety.



Do you have an environment with a high chemical concentration in your facility that may harm human health or equipment conditions? It is enough for us to be informed about the frequency of filter replacement and the type and intensity of chemicals in the environment to

provide you with the proper chemical filtration unit. The function of the APU Series can be listed as to pressurize the environment not to allow any chemical or dust to leak in and purify the ambient air, respectively. Consider having these features with one unit, APU!



Cranes
Electrical, Battery & Automation rooms
Control & Pulpits rooms
Transformer Rooms, Containers & Shelters

Industries

Steel&iron, metallurgy, cement, automotive, food machinery, energy, marine, oil&gas and defense



PKS Series


Marine and industrial panel coolers. Keep your panel equipment heat under control.



600 W - 4000 W
Cooling Capacity

+10°C / +50 °C
Operational
range for ambient
temperature

**PI Indoor Type
Panel Coolers**

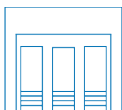


2500 W - 5000 W
Cooling Capacity

+10°C / +80 °C
Environmental
temperature range
for operation

**PO Heavy Duty
Outdoor Panel
Coolers**

PKS Series provides the most durable and tough Panel Air Conditioner in the market. Indoor and outdoor models of PKS Series ensure a dependable continuous operation to your processes by keeping the equipment in the panel at the required temperature where you have challenging environmental conditions.



E-Panels

Industries

Steel&iron, food, machinery, telecommunication and automotive



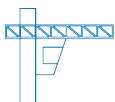
DWE Series

Drain Water Evaporator. Stop dripping.

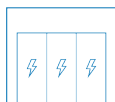


You may not have a drainage point for the water generated during the cooling cycle. It is possible to vaporize and eliminate the condensed water with the DWE Series Drain Water Evaporators.

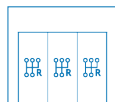
Multiple cooling systems operating in the same location can be connected to a single DWE unit, thus, providing you with a compact and low-cost solution.



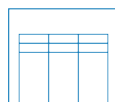
Cranes



Electrical, Battery & Automation rooms



Control & Pulpits rooms



Transformer Rooms, Containers & Shelters



E-Panels

Industries

Steel&iron, metallurgy, cement, automotive, food machinery, energy, marine, oil&gas & defense



“A vision to be successful in our ventures rests heavily on our goal to help our clients achieve their success.”

-Acutus



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