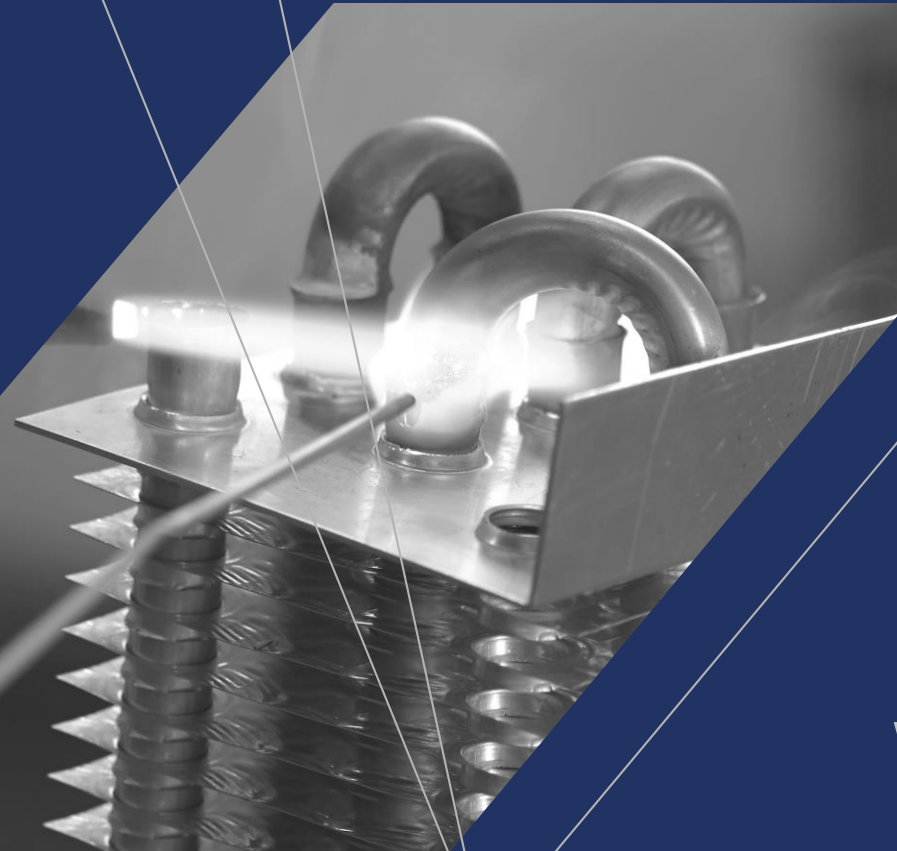




Company Presentation



www.psychotherm.gr

Leading, since 1969, in marine refrigeration systems, air conditioning and coils manufacturing.

We specialize in design, manufacturing & installation of refrigeration and air conditioning units for marine applications.

- Family owned company, established in 1969
- Vast experience in marine market.
- Based in Piraeus, 2.000 m2 facilities, 30 people personnel.
- In house R&D dept., part of 10 Mio European programs.
- Co-operation with Universities & Science Institutes.
- 3 Seals of excellence for ORC & HTHP
- ISO: 9001 ,ISO:14001 & ISO 45001

Innovation is part of our DNA and what drives us towards excellence. Psycctotherm constantly invest in innovation by participating in cutting edge research programs

We are proud members of HEMEXPO and WIMA associations



SEALS OF EXCELLENCE



Portfolio

- Green products : ORC and HTHP
- Custom coils (Alu-Cu coated, Cu-Cu)
- Chillers
- A/C Deck Units
- Air Handling Units
- Packaged A/C Units
- Air Cooled Split Units
- Fan Coils
- Spot coolers
- Air coolers
- Provision Plants
- Refrigerated Compressed Air Dryers
- Dehumidifiers
- Yacht chillers
- Electric Heaters
- Spare parts

Green products: ORC and HTHP



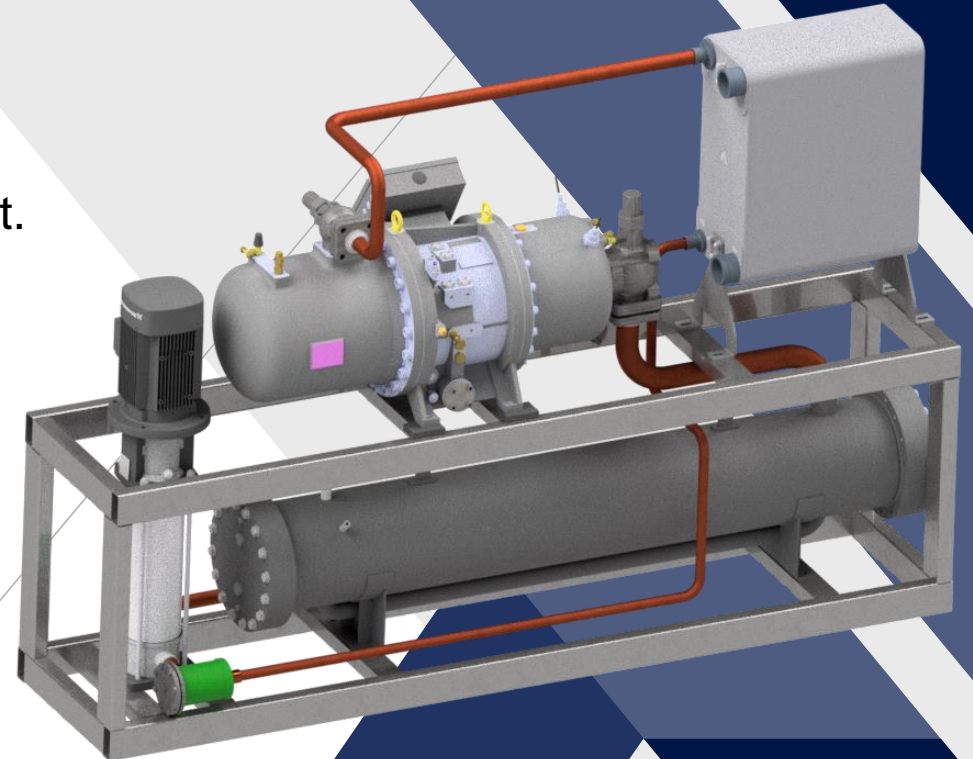
New R&D products for greener shipping:

- **Organic Rankine Cycle (ORC)**

ORC units for waste heat recovery from engine cooling circuit.
Produce electricity from main engine waste heat.
The range of power generation is 30-200 kWe

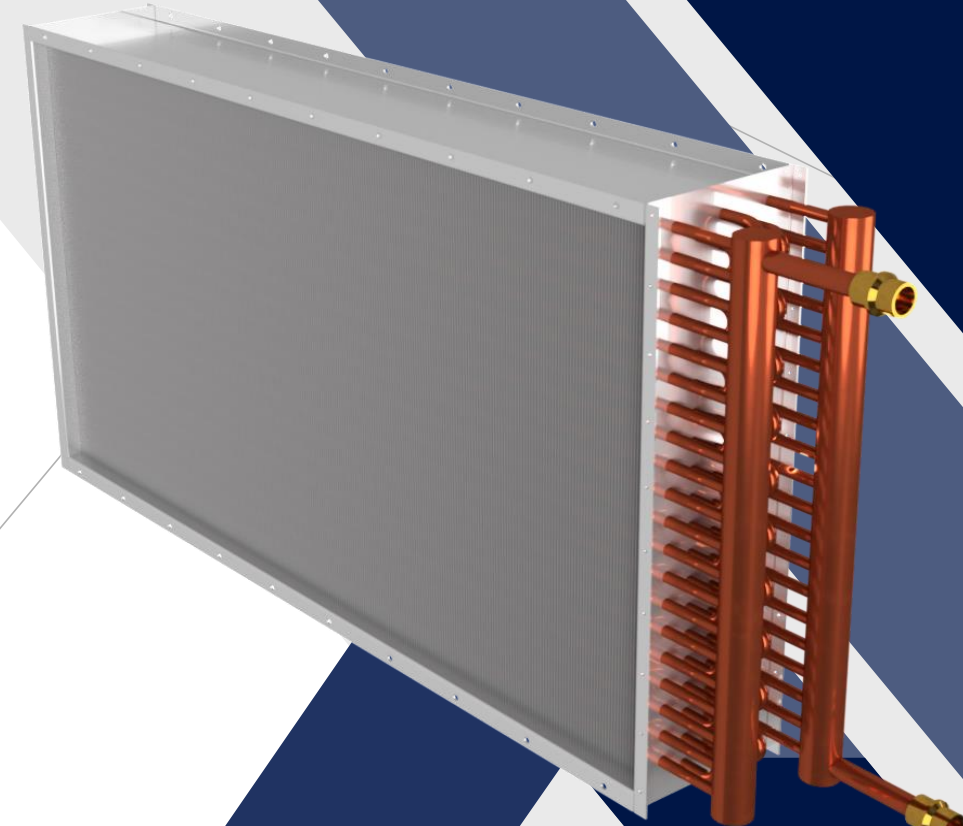
- **High Temperature Heat Pump (HTHP)**

HTHP units for heating (up to 120 C)
Operates with high efficiency exploiting waste heat energy.



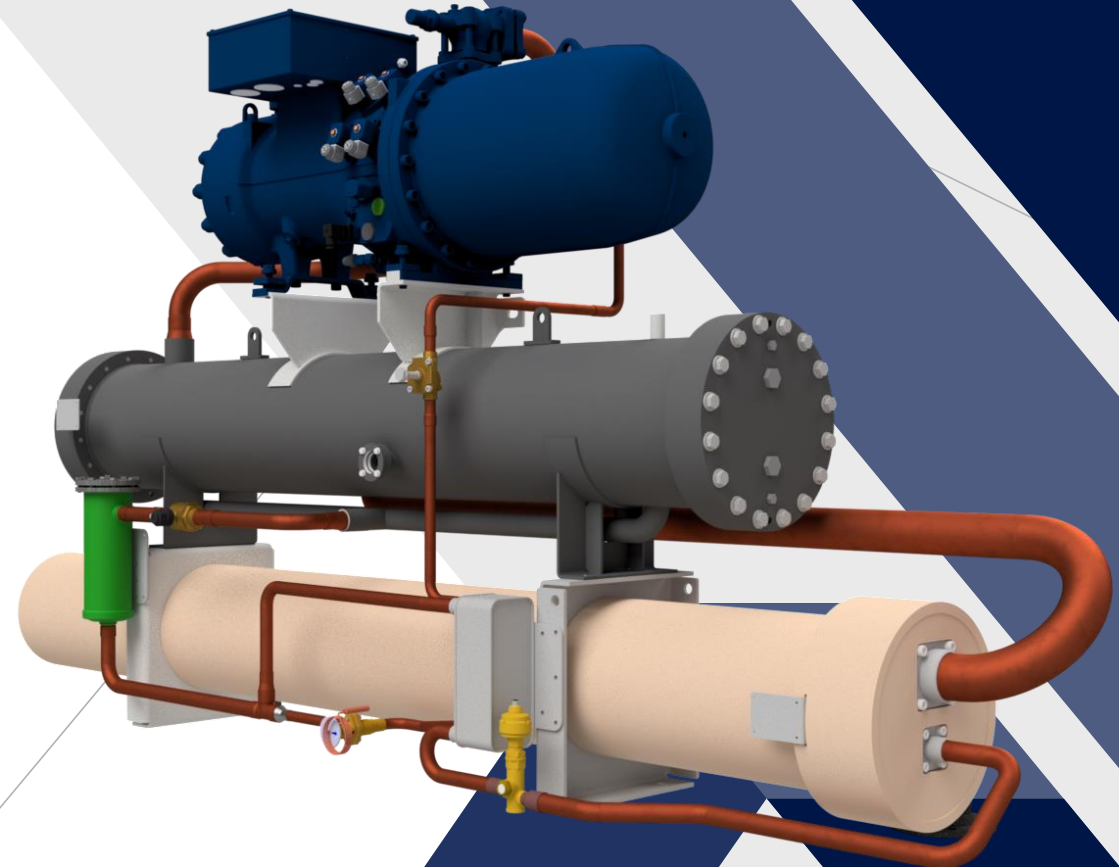
Custom Made Coils

- Exact replacement for A.H.U. coils, DX Evaporators
Provision plant fancoils, condensers, A/C.
- Fast lead times.
- 3 tube sizes available : 1/2 “, 3/8 “, 5/8” .
- Heavy duty material is used,
thickness of **fins 0,25 mm thickness of tubes 0,5 mm.**
- Epoxy coating option.
- Execution of carbon steel, stainless steel or
galvanized steel coils possible.



Chillers

- Customized chillers.
- Fast lead times.
- Air cooled / Water cooled design.
- Casing from stainless steel.
- Wide range of operation design temperatures.
- AC or EC Motors. Frequency : 50 / 60 Hz.



A/C Deck Units

- Custom dimensions upon request.
- Stainless steel evaporator chamber.
- Insulation with B-15 class incombustible materials.
- Semi hermetic screw compressor for 50%-100% capacity control.
- Reserve compressor in case of failure of one.
- AC or EC Motors. Frequency : 50 / 60 Hz.



Air Handling Units

- Custom dimensions upon request.
- Fast lead times.
- Constructed from hot-dip galvanized steel or stainless steel sections.
- Fireproof marine mineral wool insulation.
- Cooling and fan capacity upon request.
- Low noise plug fans.
- AC or EC Motors. Frequency : 50 / 60 Hz.



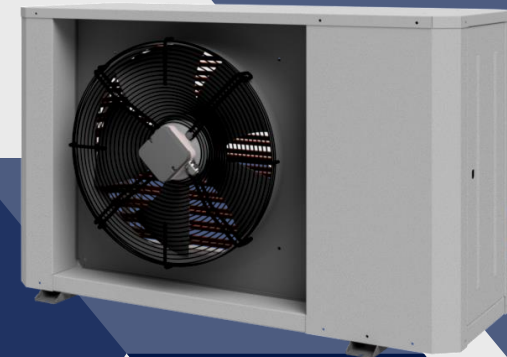
Local Packaged A/C

- Marine Package Unit (Sea, fresh or chilled water cooled).
- Fast lead times.
- Galvanized steel casing (incl. electrostatic coating).
- Heavy duty coil.
- Low noise plug fans.
- AC or EC Motors. Frequency : 50 / 60 Hz.



Air cooled Split Units

- Split A/C Units.
- Compact dimensions.
- Fast lead times.
- The outdoor casing is from stainless steel 316L and the indoor is from galvanized steel coated with electrostatic painting.
- Low noise plug fans.
- AC or EC Motors. Frequency : 50 / 60 Hz.



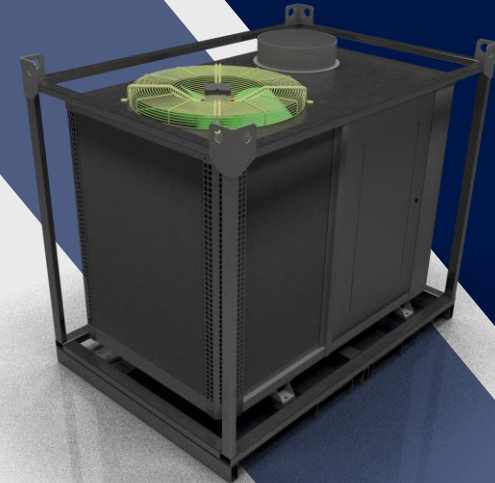
Fan coils

- Custom dimensions upon request.
- Fast lead times.
- Floor standing and Ceiling Fan Coils.
- Easy access maintenance.
- Low noise plug fans.
- AC or EC Motors. Frequency : 50 / 60 Hz.



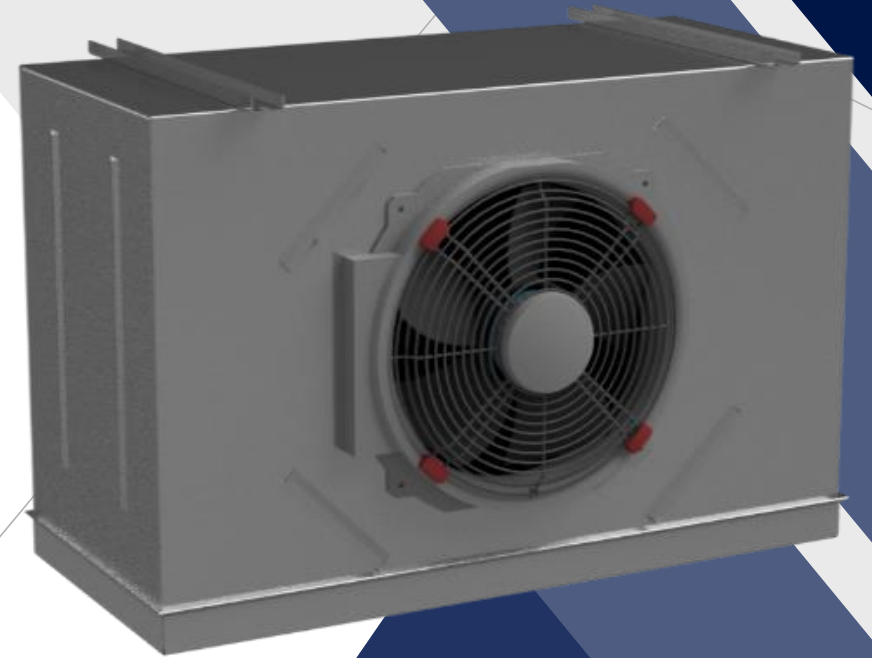
Spot Coolers

- Portable design with compact dimensions.
- Reduced power consumption due to its energy saving design.
- High temperature operation thanks to its tropical condenser.
- Easy operation and easy access maintenance.
- Available with : free air flow or customized connections.
- Low noise plug fans.
- AC or EC Motors. Frequency : 50 / 60 Hz.



Air coolers

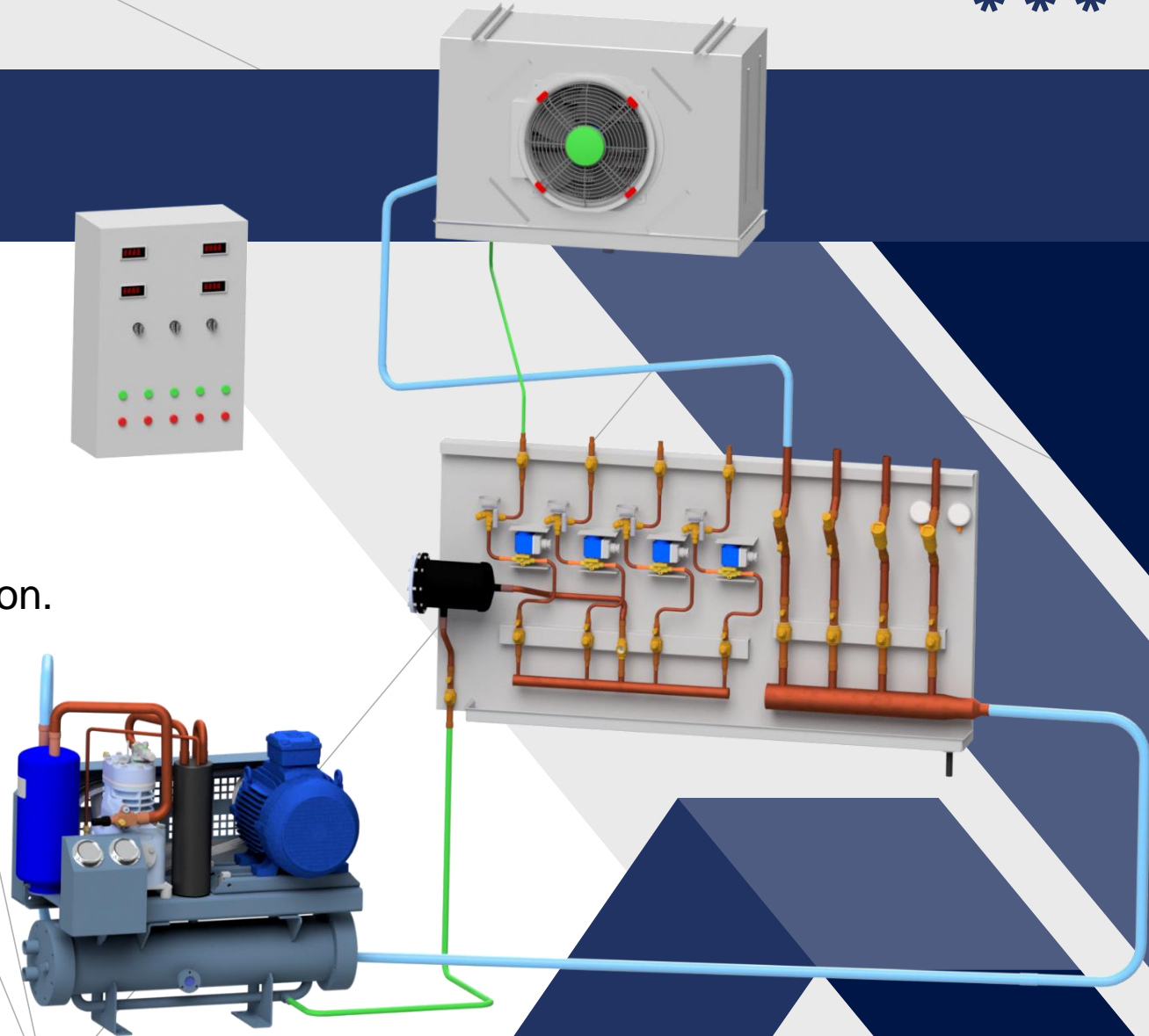
- Custom dimensions upon request.
- Fast lead times.
- Cold room Doors.
- Optional anti – corrosion coating.
- Low noise plug fans.
- AC or EC Motors. Frequency : 50 / 60 Hz.



Provision Plants

We can either offer you complete provision plant equipment or separately :

- Marine Type condensing units.
- Air coolers for fresh or frozen products preservation.
- Expansion valve panel for 3-4 rooms.
- Electric Control Panel.
- Fancoils.



Refrigerated Compressed Air Dryers

- Moisture Protection to the Pneumatic Equipment.
- Compact Dimensions and Floor Mounting for full portability.
- High Temperature Operation thanks to its Tropical Condenser.
- 100 m³/hr - 300 m³/hr.
- Easy Access Maintenance.
- Low noise plug fans.
- AC or EC Motors. Frequency : 50 / 60 Hz.



Dehumidifiers

- Custom dimensions upon request.
- Fast lead times.
- Galvanized steel casing (incl. electrostatic coating).
- Minimum humidity levels.
- Generate fresh and odorless air.
- Low noise plug fans.
- AC or EC Motors. Frequency : 50 / 60 Hz.



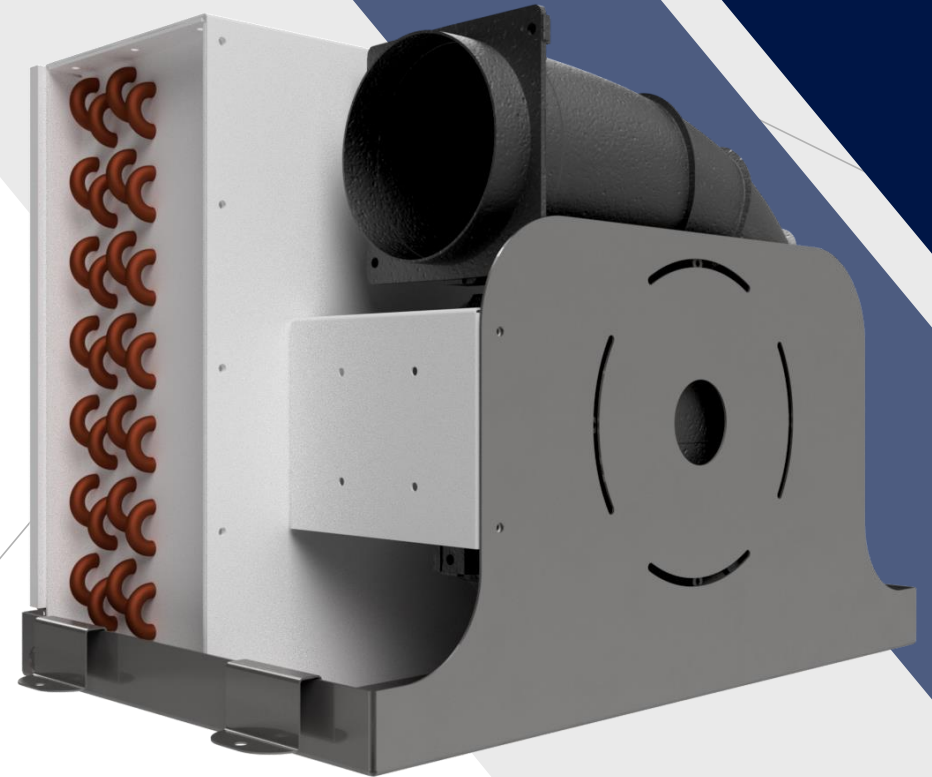
Yacht Chillers

- Compact type chiller unit with coaxial type condenser and evaporator.
- High efficiency scroll compressor.
- Casing from stainless steel.



Yacht Fan Coils

- Compact dimensions.
- Special anticorrosion coating for the coil for extended lifetime.
- Easy maintenance access.



Electric Heaters

- Customized design, to meet installation's demands.
- Step control panel.
- Interlock with compressor for energy savings.
- Options for A.H.U., for A/C Units, for Room Heating.
- Free flow or forced flow.



Services

Typical HVAC & Refrigeration services :

- Installation of new central A/C and refrigeration units.
- Major repairs for central A/C and refrigeration units / conversion works.
- Compressors replacement, overhauling, repair.
- Conversions of refrigerants to new Eco-friendly ones (e.g. to R407f).
- Conversions of electrical automation systems.
- System upgrades.
- Re-occurring issues troubleshooting and operation improvement.

Service hubs :

- **Greece (HQ):** In house team of experienced technicians (> 10 years of experience each) plus a pool of experienced partners.
- **China, Brazil, UAE (Fujairah):** Local partners / agents specialized on marine applications, with many years of experience.



Spare parts



Fans



Heat exchangers



Compressors



Compressor Spare Parts



Other tools

Trade

- Compressors: Bitzer, Danfoss, Bock, Sabroe, Daikin, Carrier, Copeland, Grasso, Carel, Sanyo
- Fans
- BPHE (Swep, Kaori)
- Elec. Heaters / Cables
- Filters
- Spare parts for A/C – Refrigeration
- Tools: Vacuum pumps etc.

International trading, distributing and representing famous manufacturers of refrigeration equipment from all over the world.

We're distributors of DORIN[®], GEA Grasso and HANBELL compressors in Greece and importers of DAIKIN and Panasonic SANYO scroll compressors



Indicative Reference Customers



Indicative Reference Customers



EVERGREEN



supereco
TANKERS
MANAGEMENT



TECHNOMAR SHIPPING INC



EMPIRE BULKERS LIMITED



Contships Management Inc.



TMS TANKERS LTD



Trust Bulkiers Ltd



MODION MARITIME MANAGEMENT S.A.

PLEIADES
SHIPPING AGENTS S.A.



GASLOG



ASM
MARITIME



AVIN INTERNATIONAL LTD



SEA TRADERS S.A.



KYKLADES MARITIME
CORPORATION



Sea World
Management S.A.M.



IMC

Technical Management



Thank you

“The best way to predict the future is to create it.”
Alan Kay, Computer scientist

