



Welcome to the world of heat transfer

www.tairis.gr

www.epsi.gr

LATEST NEWS



Members of the global BITZER Marine Service Network



We offer services of repair and pre-emptive maintenance for your BITZER compressors, for land and sea installations

Always with Brand New and Genuine spare parts!



**LATEST
NEWS**

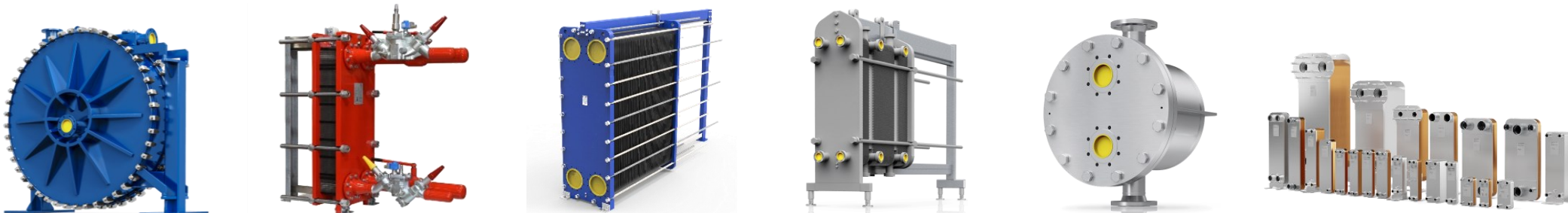


Authorised Distributors of DANFOSS Heat Exchangers (previously SONDEX) for Greece, Cyprus and Malta



**LATEST
NEWS**

We can support you with a flexible range of stock models and offer design/selection services for a large variety of commercial, industrial, and marine applications!



Trade of systems, components and spare parts

- ✓ Certified quality according to ISO9001:2015
- ✓ Well known brands from Europe and USA
- ✓ Large stock with more than 7.500 active part numbers
- ✓ Direct contact and authorisation with all of our suppliers
- ✓ We export globally

You may also find us at:



ProcureShip and



SHIPSERV



Kelvion



Refrigeration - Air Conditioning - Heating - Alternative Energy Sources - Automation
Trade - Manufacturing - Services



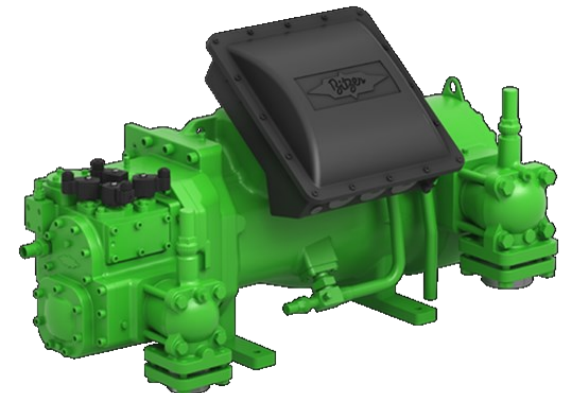
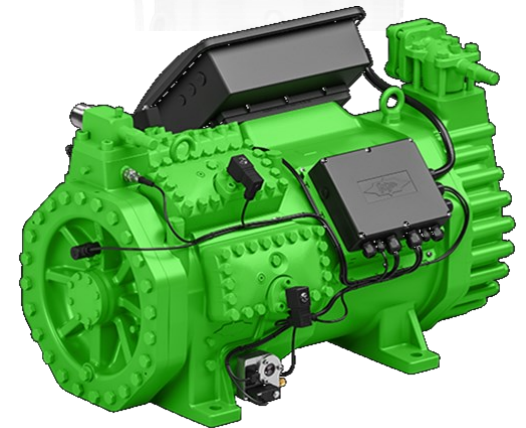
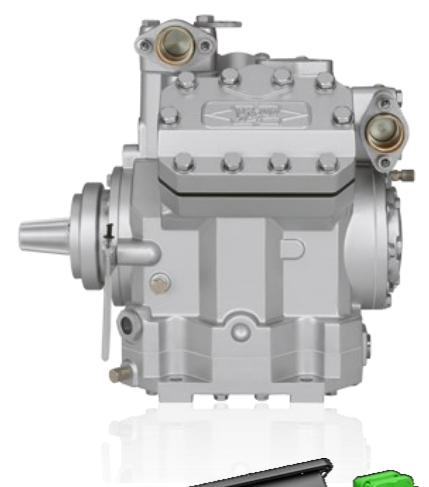
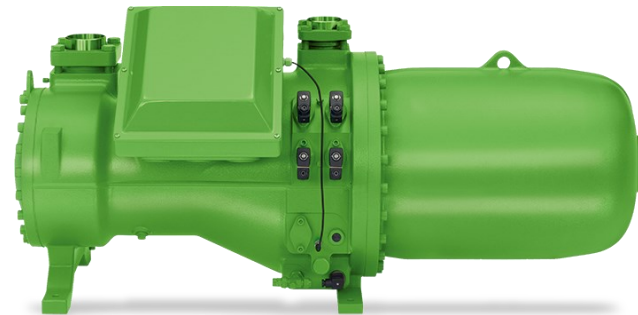
Refrigeration & Air Conditioning compressors

Bitzer

Danfoss

Types:

- ✓ Hermetic, Semi-hermetic, Open type
- ✓ Reciprocating, Screw, Scroll
- ✓ Suitable for HFCs, HFCs, HCs, NH₃, CO₂
- ✓ Applications: Refrigeration, Air conditioning, Heat pumps, Dehumidification, Transportation
- ✓ Motor power from 1/10hp to 400hp



Finned heat exchangers - forced and natural convection

Kelvion



4COILS
TECH

SIERRA

Types:

- ✓ Evaporators, condensers, dry coolers, gas coolers, dryers
- ✓ Commercial and Industrial
- ✓ Conversion kits to adiabatic systems
- ✓ HFCs, HFOs, HCs, NH₃, CO₂ brines, oils
- ✓ Stainless steel and corrosion resistant executions
- ✓ AC and EC fans

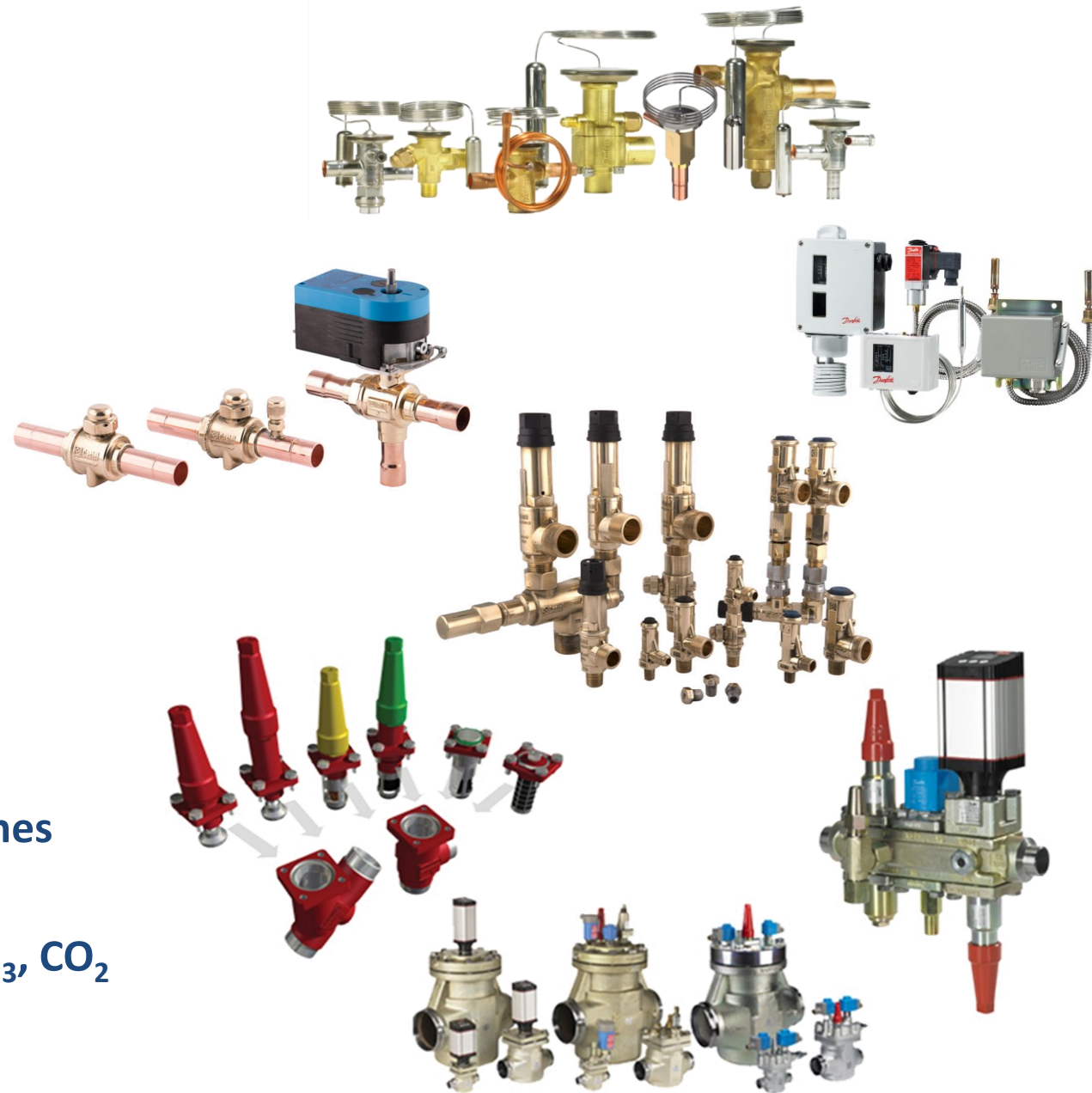


Valves and refrigerant components

Danfoss

Castel

- ✓ Valves
- ✓ Solenoid valves
- ✓ 3way valves
- ✓ Expansion valves
- ✓ Constant pressure
- ✓ Motorised valves
- ✓ Safety and relief valves
- ✓ Filters
- ✓ Check valves
- ✓ Thermostats and pressure switches
- ✓ Combination valves
- ✓ Suitable for HFCs, HFOs, HCs, NH₃, CO₂

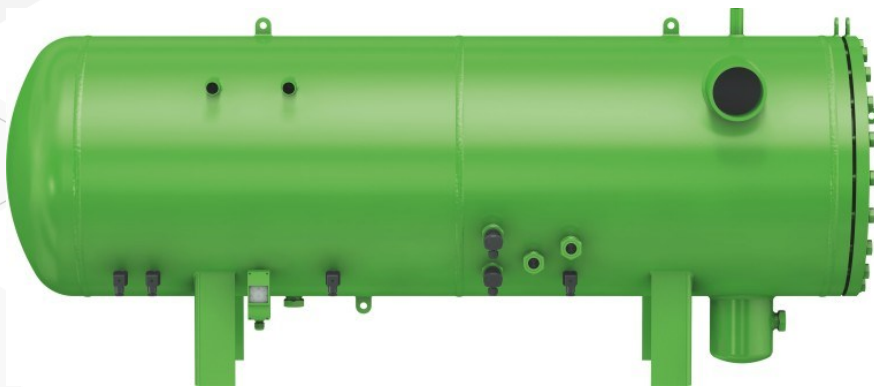


Oil return systems and pressure vessels

Bitzer

ESK
Schultze

- ✓ Oil separators
- ✓ Suction accumulators
- ✓ Oil float valves, mechanical and electronic
- ✓ Oil reservoirs and oil valves
- ✓ Liquid receivers
- ✓ Oil filters
- ✓ Suitable for HFCs, HFOs, HCs, NH₃, CO₂



Valves and district heating components for water / brines

Danfoss

Calpak

calpeda

- ✓ Valves and solenoids
- ✓ 2way and 3way valves
- ✓ Balance valves and pressure valves
- ✓ Motorised valves
- ✓ Filters
- ✓ Calorimeters
- ✓ Pumps and medium pressure pumps
- ✓ Legionella sub-stations
- ✓ Buffer tanks and boilers
- ✓ Stainless steel executions
- ✓ Up to PN40



Industrial heat exchangers

Danfoss

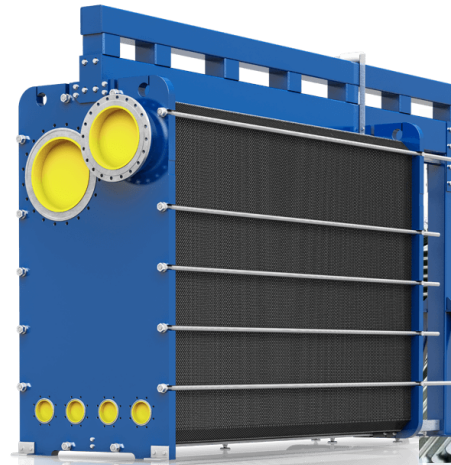
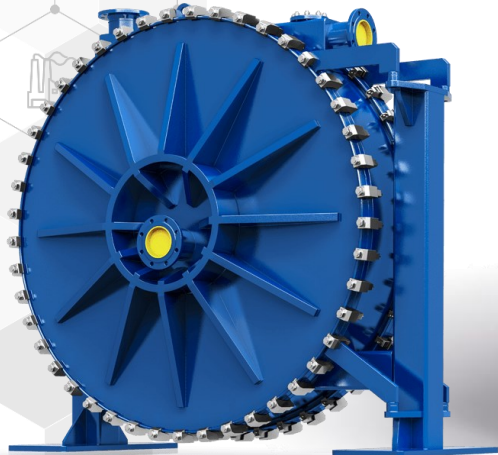
SWEF
A DOVER COMPANY

Kelvion

TRANSTER
The heat transfer people

Suitable for:

- ✓ Industry and marine sectors
- ✓ Oil refineries and power generation
- ✓ Food and beverage
- ✓ Medicine and medical equipment
- ✓ Recycling and biomass
- ✓ Refrigeration, air conditioning and heating
- ✓ Dehumidification
- ✓ Pool heating



Shell and tube heat exchangers



Kelvion

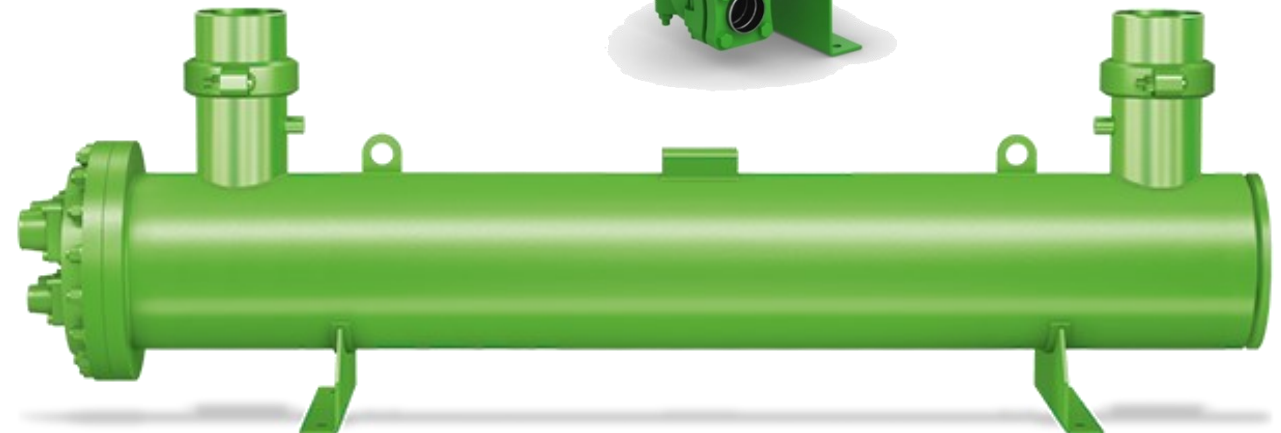
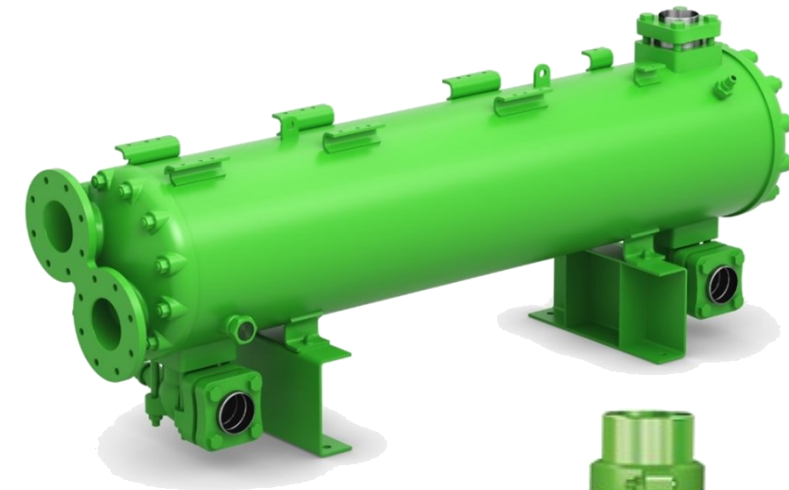
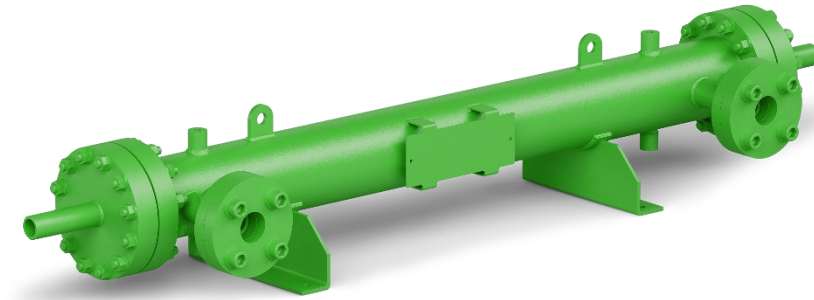


Suitable for:

- ✓ Industry and Marine sectors
- ✓ Refrigeration, air conditioning and heating

Types:

- ✓ Evaporators, condensers, oil coolers, desuperheaters, dehumidifiers
- ✓ Executions with copper/nickel and stainless steel

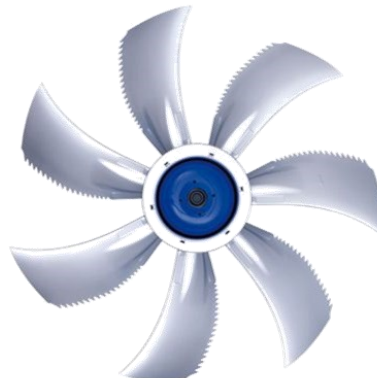


Fans and ventilation

ZIEHL-ABEGG

ebmpapst

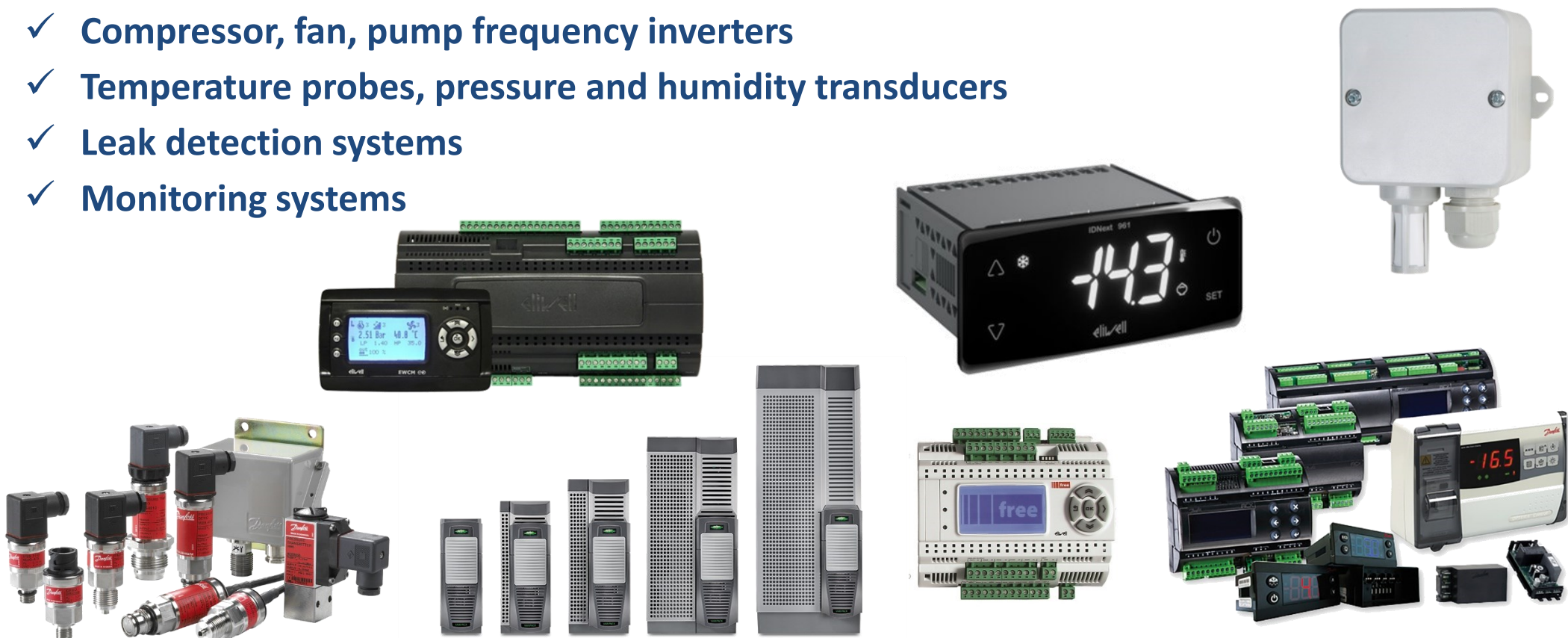
- ✓ Axial and centrifugal
- ✓ Diameters from 200mm to 1200mm
- ✓ Three-phase and single-phase
- ✓ AC and EC technologies
- ✓ ATEX
- ✓ Suitable for evaporators, condensers, ventilation, transformers, agriculture, green houses, air conditioning, heating and more



Electronics, probes, transducers, inverters, controllers and monitoring systems



- ✓ Parametric controllers for refrigeration, air conditioning and industrial applications
- ✓ Programmable controllers (PLC) with various I/O and libraries.
- ✓ Compressor, fan, pump frequency inverters
- ✓ Temperature probes, pressure and humidity transducers
- ✓ Leak detection systems
- ✓ Monitoring systems



Piping, insulation, fixing, brazing

ISOPIPE[®] TC
Okazuyucu Zuarhara Mawar

wieland

Conex | Bänninger

armacell[®]
MAKING A DIFFERENCE AROUND THE WORLD

MUELLER[®]
INDUSTRIES, INC.

fischer[®]
innovative solutions

SOBRACORE[®]
TECHNOLOGIES FOR BRAZING

CO₂

- ✓ Suitable for commercial, industrial and marine use
- ✓ Suitable for refrigeration, air conditioning and heating
- ✓ Suitable for HCFCs, HFCs, HFO & HFO blends, HCs, CO₂, brines, lubricants



Tools



- ✓ Refrigerant recovery units, vacuum pumps
- ✓ Pressure gauge manifolds, pressure gauges, charging hoses
- ✓ Pipe cutters, flaring and swaging tools
- ✓ Portable leak detectors
- ✓ Refrigerant analysers
- ✓ Electronic scales
- ✓ Tube benders, bending springs
- ✓ Ratchets
- ✓ Suitable for HCFCs, HFCs, HFO & HFO blends, HCs, NH₃, CO₂



Refrigerants



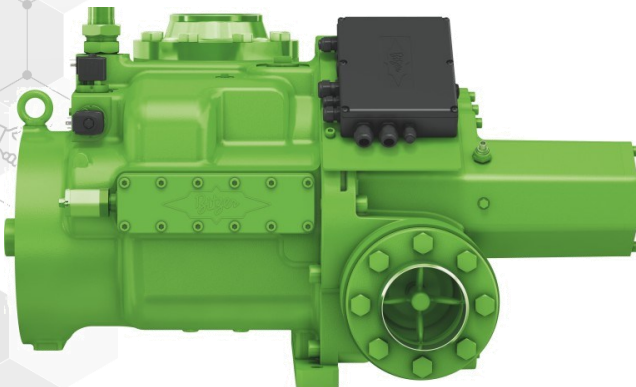
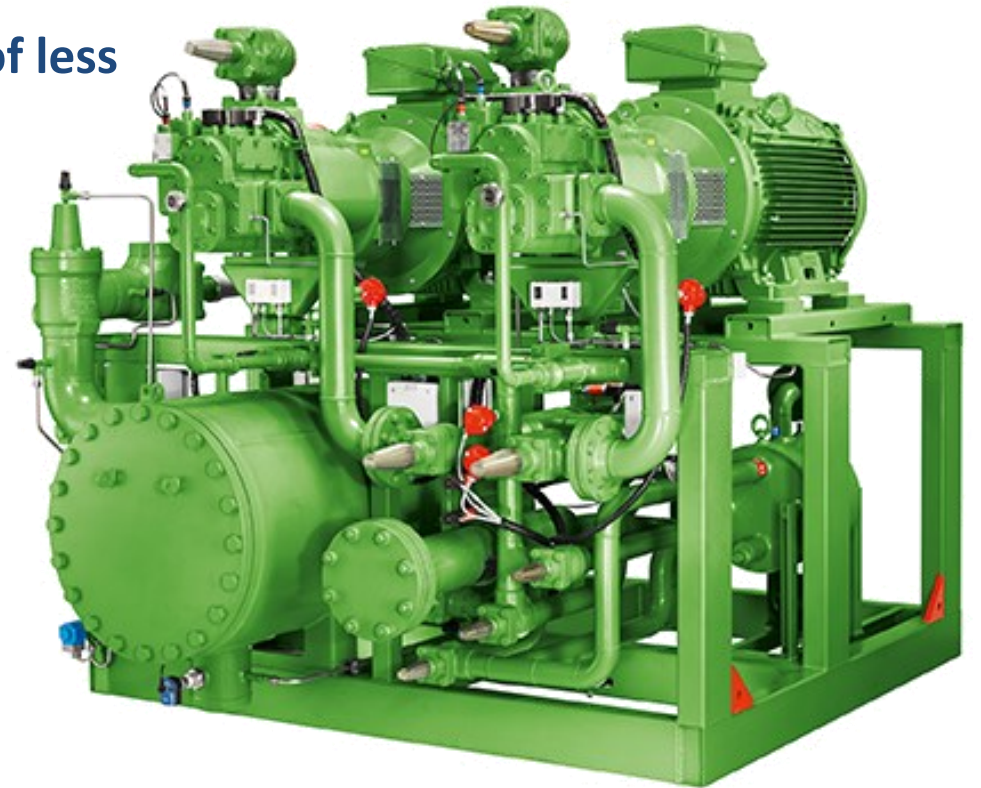
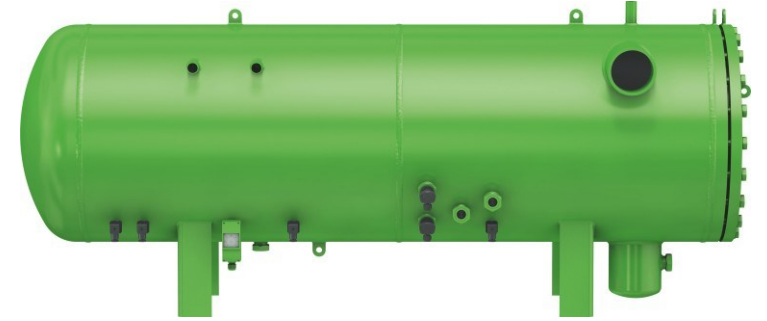
- ✓ Largest quota holder of Greece
- ✓ Excellent quality
- ✓ R449A, R448A
- ✓ R134A, R513A, R450A
- ✓ R410A
- ✓ R407C
- ✓ Available in 12lt, 40lt, 56lt certified refillable cylinders



BITZER ACP - Ammonia systems

Bitzer

- ✓ Suitable for refrigeration, air conditioning, heat pumps, booster
- ✓ With BITZER open type screw compressors OS..(A)
- ✓ With 2 or 3 compressors
- ✓ 3stage oil separators with oil carry over rates of less than 5ppm
- ✓ Water cooled or thermosyphon oil coolers
- ✓ Cooling capacities up to 2,3MW (-10/+35)





Manufacturing of refrigeration, air conditioning systems and heat pumps

- ✓ Production facilities that exceed 3.200m²
- ✓ Production quality according to ISO9001:2015
- ✓ Products certified according to CE and Ecodesign
- ✓ Traceability and serviceability
- ✓ Energy saving and energy recovery

Cooling and heating systems

- ✓ Standard and special models
- ✓ Special models according to customer needs
- ✓ Custom design for ease of transportation and installation in inaccessible spaces
- ✓ Materials and components from European manufacturers
- ✓ Mechanical and electronic capacity regulation
- ✓ Refrigerants: R134a, R404a/R507, R407c, R449a/R448a, R513a, R717, R744 and more



ESWC series

Water cooled chillers for water / brine

Compressor type

BITZER ή DANFOSS screw, scroll, reciprocating

Application

Cooling / Process

No. of circuits

1 - 4

Refrigerant

R407C - R134a - R513A - R449A

Cooling capacity

5kW to 1.700kW



MA series

Chiller units for water / brine for remote condenser

Compressor type

BITZER Screw

Application

Cooling / Process

Heat exchanger type

Shell & Tube or plate heat exchanger

No. of circuits

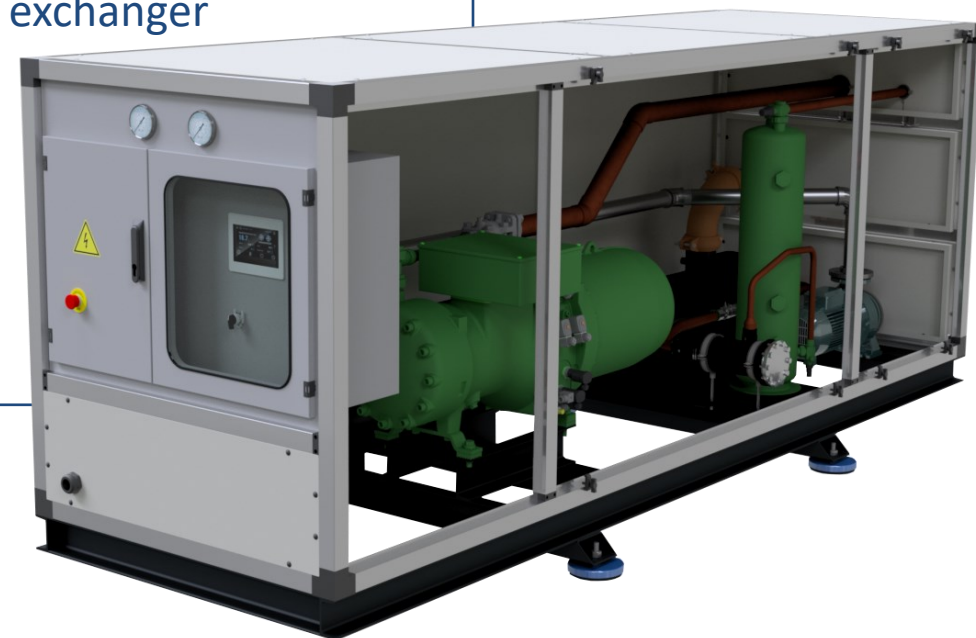
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Refrigerant

R407C - R134a - R513A

Compressor power

35hp to 400hp



ERT series

Packaged units

Compressor type

BITZER or DANFOSS hermetic scroll / BITZER semi hermetic reciprocating/ DANFOSS hermetic reciprocating

Application

Cooling / Heating

No. of circuits

1 - 2

Refrigerant

R407C - R134a - R513A

Cooling capacity

11kW to 90kW

Heating capacity

12kW to 100kW



EAHU series

Air Handling Units

Air supply

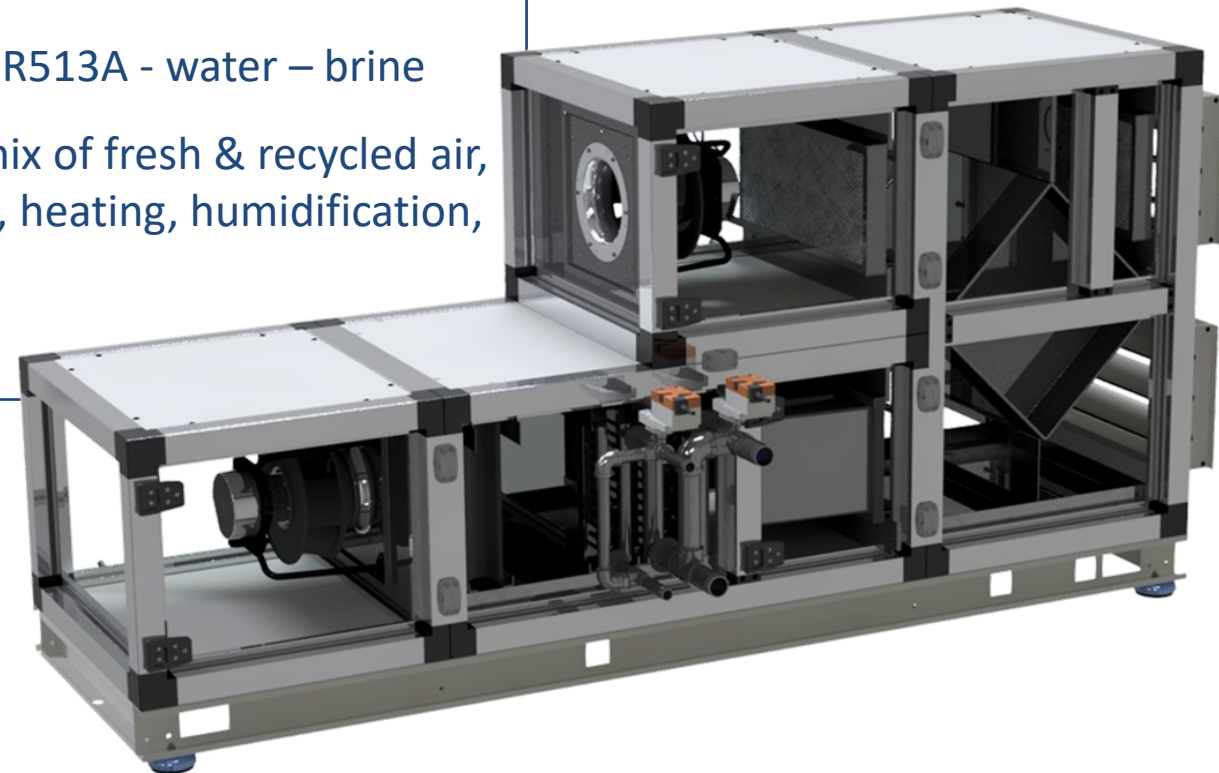
1.350m³/h to 51.000m³/h

Medium

R407A - R134a - R513A - water – brine

Processes

Heat recovery, mix of fresh & recycled air,
filtering, cooling, heating, humidification,
UV disinfection



EWP series

Water cooled Packaged Air Units

Compressor type	Danfoss hermetic scroll, reciprocating
No. of circuits	1
Application	Cooling
Refrigerant	R407C - R134a - R513A
Cooling capacity	10kW to 52kW



EDA series

Low profile air handling units for medium/large pressure drops

Air supply

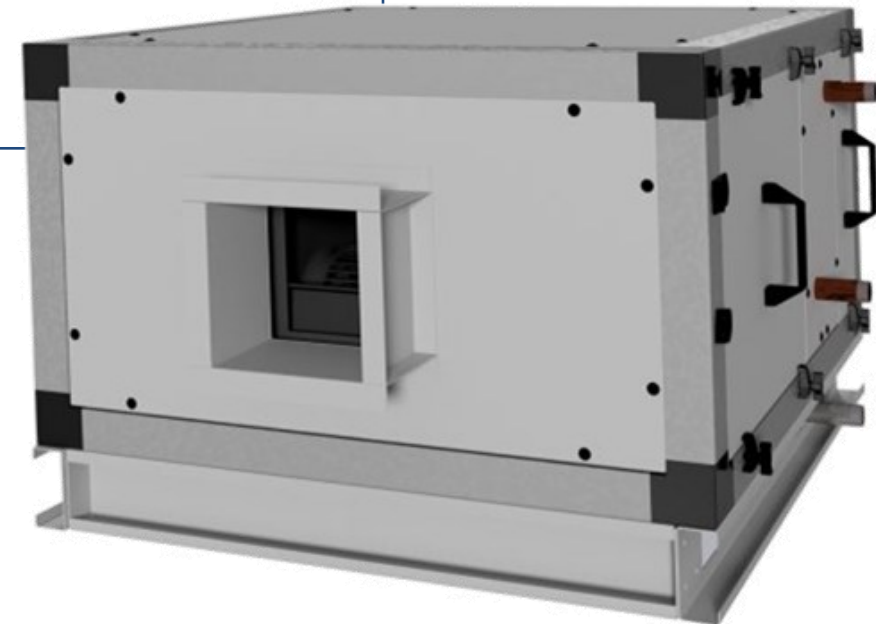
1.400m³/h to 8.750m³/h

Medium

R407C - R134a - R513A - water - brine

Processes

Filtering, cooling, heating



ME series

Refrigeration compressor racks with reciprocating compressors for indoors installation

Compressor type

BITZER semi hermetic reciprocating

Application

Deep freezing / Freezing / Chilling / Cooling

Compressor number

R449A/R448A - R134a - R513A - R744 - R717

Refrigerants

1 - 6

Compressor power

0,5hp to 50hp



MS series

Refrigeration compressor racks with screw compressors for indoors installation

Compressor type

BITZER screw semi hermetic or open type

Application

Deep freezing / Freezing / Chilling / Cooling

Compressor number

R449A/R448A - R134a - R513A - R717

Refrigerants

1 - 6

Compressor power

20hp to 320hp



CDE series

Standard condensing units with reciprocating compressors and built in or remote condenser

Compressor type

BITZER semi hermetic reciprocating

Condenser type

LEEL COILS air cooled or BITZER water cooled or
KELVION remote air cooled

Application

Freezing / Chilling / Cooling

Compressor number

1 or 2 in tandem

Refrigerants

R449A/R448A - R134a - R513A

Compressor power

0,5hp to 70hp



CDE2S Series

Standard condensing units with 2-stage reciprocating compressors and built in or remote condenser

Compressor type

BITZER 2-stage semi hermetic reciprocating

Condenser type

LEEL COILS air cooled or BITZER water cooled or
KELVION remote air cooled

Application

Deep freezing / Freezing

Compressor number

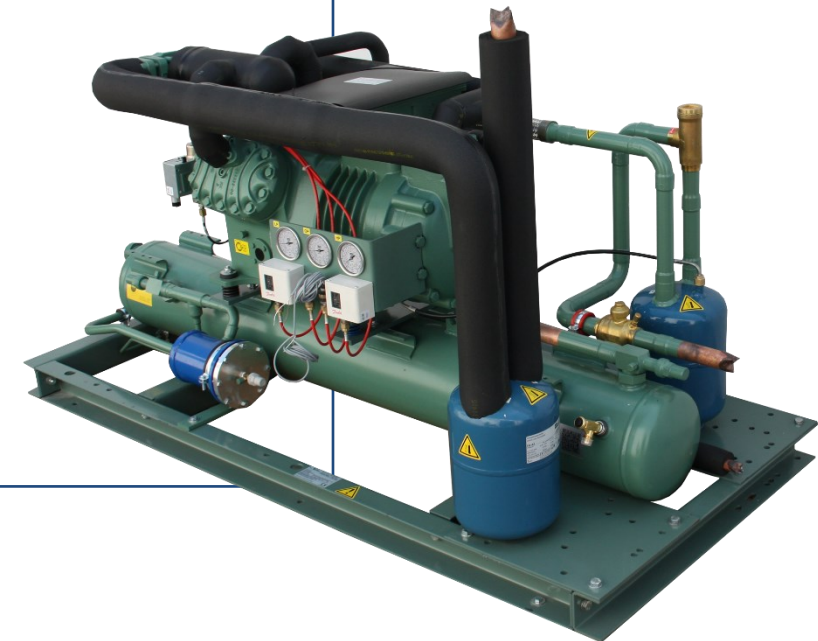
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Refrigerants

R449A

Compressor power

5hp to 30hp



Services

- ✓ **Certified quality according to ISO9001:2015**
- ✓ **Fully equipped workshops for repairs and testing**
- ✓ **Experienced technicians and engineers**
- ✓ **Constant training by our suppliers**
- ✓ **Partnerships with education institutions**

Studies and design

- ✓ Calculation of cooling loads
- ✓ Design of custom cooling systems
- ✓ Upgrades of operating cycles and energy upgrades for reduction of power consumption
- ✓ Process heat recovery and hot water co-production
- ✓ Retrofitting to new eco-friendly refrigerants with lower GWP
- ✓ Design of alternative electricity co-production sources (ORC units)
- ✓ Design of sub-systems for Marine Carbon Capture

ECO
DESIGN



BITZER Marine Service Network (MSN) - Authorised compressor repair centre



- ✓ Repair and testing
- ✓ Bitzer processes and central database
- ✓ Large stock of genuine Bitzer spare parts
- ✓ Continuous training of our personnel from Bitzer



Trainings - Seminars



With contribution of the LIFE programme
of the European Union

- ✓ Training programs for Bitzer compressors
- ✓ Seminars and trainings for the products of our main suppliers
- ✓ Partnerships with the Greek association HUGAS and the University of Nicosia (UNIC) for certifications according to the European REAL ALTERNATIVES program



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