

Company Profile

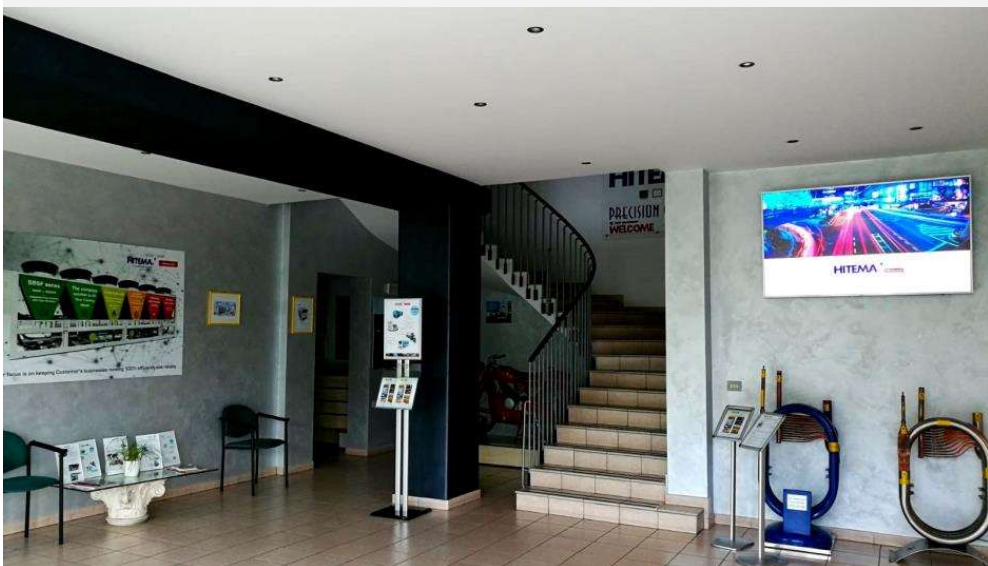




Bovolenta, Padua facilities - Italy



WE
PRODUCE **1580**
UNITS PER YEAR



OUR HISTORY



HITEMA is a specialist manufacturer of sustainable solutions for process cooling and industrial confort applications.

With a long-standing and well-deserved reputation for excellence, we have a proud record of reliability and quality solutions.

Since its inception, over 25 years ago, **HITEMA** has grown, selling worldwide and becoming a leading specialist in temperature equipments.

This growth will continue into the future as we continue to adapt, expand, and evolve in order to satisfy our customers needs.

We supply our range of high quality Standard Products as well as tailor made versions upon Customer request.



For questions or requests, write us to the following email address info@hitema.it or visit our website: www.hitema.com

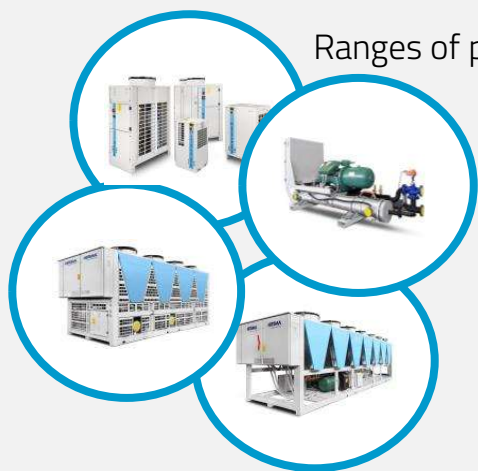


18.750

Sqm of indoor space

23

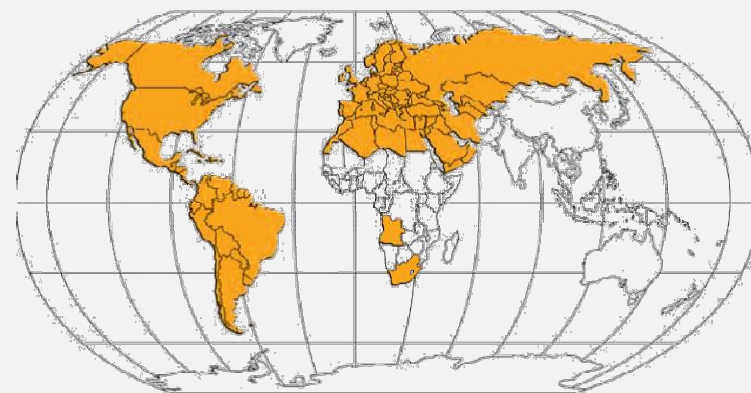
Ranges of products



OUR NUMBERS

1580

Units per year



45

Countries throughout the World

4

Production Plants



Bovolenta, Padua facilities - Italy



Data Center



Automotive



Aerospace &
Defence

Machine Tools

Wineries & Distilleries

Food & Beverage

OUR APPLICATIONS

Plastic and Rubber

Chemical &
Pharmaceutical

Laser

Coating Machine

Printing Machine

Rental

Agriculture & Farming

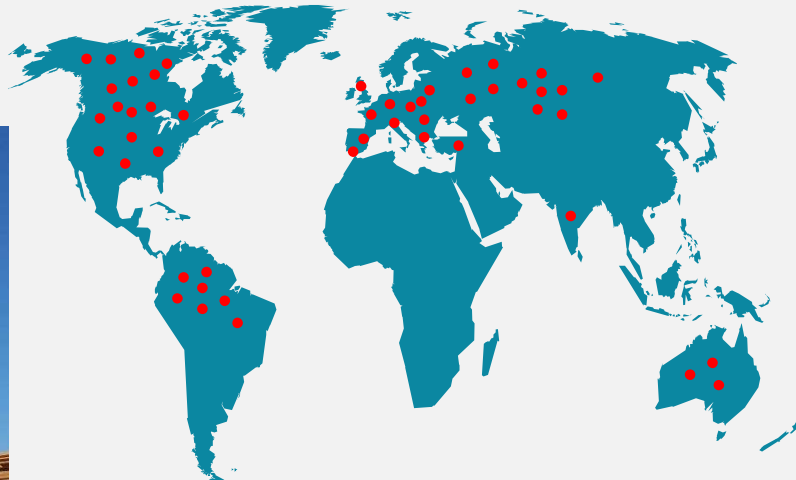
Biogas



COUNTRY OF INSTALLATION: Ukraine
MODEL: SBS.720
NOMINAL COOLING CAPACITY: 718 kW



OUR INSTALLATIONS



COUNTRY OF INSTALLATION: Spain
MODEL: ISV.910
NOMINAL COOLING CAPACITY: 850 kW



COUNTRY OF INSTALLATION: Wisconsin, United States
MODEL: EEf.1100 with freecooling and inverter screw compressors
NOMINAL COOLING CAPACITY: 1132 kW



COUNTRY OF INSTALLATION: Moscow, Russia
MODEL: No. 2 pcs ENRF.370 with freecooling
NOMINAL COOLING CAPACITY: 2X365 kW

HOW WE WORK

We strive to be a **reference point** for our customers from the very earliest stages of the work. Thanks to our technical department, full of specific skills for each sector, we are able to guarantee a top quality support also during Project inception, development and design.

We supply Standard Equipments as well as fully customized solutions, upon customers requires.

We have a dynamic and structured production cycle with high production capacity, ready to handle high volume orders.

Our customers are guaranteed uncompromising quality, dependable delivery, competitive pricing, along with unparralled customer service after sales.

[DOWNLOAD OUR SELECTION SOFTWARE](#)

cool with
HITEMA
international

[hitema.com](#)

[My Projects](#)  

[Configurator 1.2.2](#) [Documentation](#) [Price List](#)

GENERAL

Applications

Selection By

Units

Power Frequency Hz

MODEL

Series

Model

Refrigerant

PERFORMANCE

Cooling Capacity

Water Flow Rate m³/h

Ambient Temperature °C

Elevation a.s.l. m

Fluid

Glycol Percentage

Entering Water Temperature °C

Leaving Water Temperature °C

Search

Reset

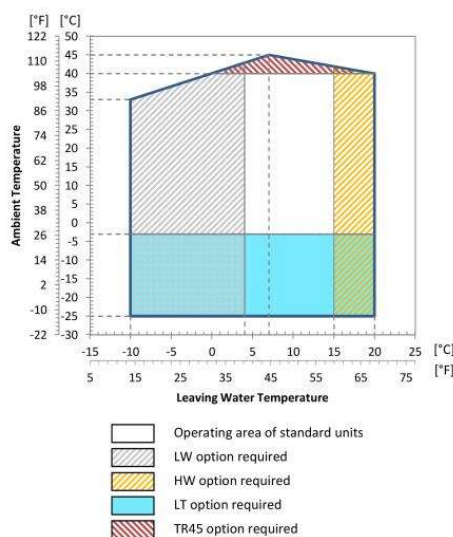
Aircooled chiller with scroll compressors



HITEMA SRL © 2014 all right reserved | Privacy | Via Mons.G.Babolin, 14 - Bovolenta PD (IT) | Tel. +39 0495386344 r.a. | Fax +39 0495386300 | p.i. IT02349000279

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HITEMA CONFIGURATOR



Hitema configurator is a very useful tool to customize the selected unit according to the application requirements. It produces precious documents to define the exactly unit configuration with your final user.

Developed and constantly updated by Hitema technicians, the configurator lists the standard and the available optional components for the specific model selected.

There is the possibility to filter the components by category (electrical, hydraulically, etc) in order to simplify and speed up the selection. Detailed options information are included with also an envelope image that gives the unit operative temperature limits.

More than 100 options are available, you just have to find what's right for you!

To obtain the configurator, please register in our online selection software.

The screenshot shows the HITEMA Configurator software interface. The main window is titled "HITEMA Configurator" and contains several sections:

- Selection of HITEMA product:** Series: ENR, Model: 130. Description: PROCESS COOLING APPLICATION range: air-cooled liquid chillers, scroll compressors, plate / coaxial / shell & tube evaporator, condenser with copper tubes, aluminium finned core and axial fans. Documentation: [Direct link for ENR documentation](#).
- Standard components and available options:** Categories: HYDRIC CIRCUIT CONFIGURATION. Standard components: B1 - evaporator inlet water temperature sensor (work probe), B2 - evaporator outlet water temperature sensor (antifreeze probe), CST - tank in carbon steel, CWC - closed water circuit configuration, FL - flow switch, MW - water pressure gauge, RM - manual filling cap, SFA - manual air vent, SFAS - tank manual air vent, ST - shell and tube evaporator, VSC - water drain valve, VSCS - tank water drain valve, VSW - water safety relief valve.
- Available options:** B-ES - braced plate evaporator, BPA - automatic by-pass, ☒ DP - double pump P3, DPH - double pump P5, LLA - electric float low water level alarm, NP - without pump, NT - without tank, PH - single pump P5, RAGDP - double pump antifreeze heater, RAGE - evaporator antifreeze heater, RAGP - pump antifreeze heater, RAGT - tank antifreeze heater, SST - tank in stainless steel, YTP - ball valve between tank and pump, XV - expansion vessel kit.
- Special requests:** SP (special configuration needed) ☐. CRAL (customized painting) ☐. PL (private label) ☐.

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OUR PRODUCTS



STANDARD PRODUCTS

We supply our range of standard products designed for several types of different applications in order to meet the different requests of our customers.

Each unit is made of high quality raw materials.

Our team takes care of every detail for a longer durability.

We provide solutions designed for energy saving and reduced environmental impact.

CUSTOMIZED SOLUTIONS

Thanks to our technical department, full of specific skills for each sector, we are able to guarantee a top quality support during the inception, development and design of each Project.

We supply **fully customized solutions**, upon customers requires.

OUR STRENGTH

- **HIGH AMBIENT TEMPERATURE AIR COOLED UNITS**
- **LOW PROCESS TEMPERATURE APPLICATIONS**
- **FREE COOLING**
- **HIGH CUSTOMIZED TAILOR SUITED SOLUTIONS**

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PROCESS COOLING APPLICATIONS

ENR, ENRF, CSE SERIES are aircooled liquid chillers, designed for industrial use and for outdoor (ENR, ENRF) and indoor (CSE with centrifugal fans) installations. These chillers are designed for applications that require reliability, continuity of operation, high performances and reduced management costs.

All the models are equipped with coaxial or shell and tube evaporator, water pump suitable to work with water-glycol mixture and storage tank to assure precise temperature control even in presence of process highly variable thermal loads.

With the wide range of cooling capacity up to 440kW it is possible to satisfy all Customer demands. The refrigerant used is R410A (R32 on request).

Thanks to the coaxial and shell & tube evaporators technology it is possible to ensure high performances and reliability of the units for all the industrial applications.

All the units are tested at the Hitema production site before the shipment to ensure the best performances, reliability and continuity of operation to the Customers.

One of several advantages of the series ENR, ENRF and CSE is the footprint unit dimensions: the series are designed to take up minimal floor space which also reduces shipment costs.



STANDARD PRODUCTS

Compressor: SCROLL
Refrigerant: R410A/R32



MODEL : ENR/ENRF

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AIR CONDITIONING APPLICATIONS

CFT SERIES are aircooled liquid chillers, designed for air conditioning use and for outdoor installation. These chillers are designed for applications that require reliability, high performance and reduced management costs.

With the wide range of cooling capacity up to 410kW it is possible to satisfy all Customer demands. The refrigerant used is R410A (R32 on request). The chillers are provided with one (models 008÷100) or two (models 130÷480) refrigerant circuits with up to 2 compressors per circuit to ensure high efficiency also at partial loads.

HFT SERIES are reversible air to water heat pump for applications up to 0 ° C ambient. With the wide range of heating capacity up to 350kW it is possible to satisfy all Customer demands. The refrigerant used is R410A (R32 on request). The chillers are provided with one (models 008÷100) or two (models 130÷430) refrigerant circuits with up to 2 compressors per circuit to ensure high efficiency also at partial loads.

Both the models are equipped with brazed plate evaporator. On request they can all be equipped with water pump suitable to work with water-glycol mixture and storage tank to assure precise temperature control even in the presence of highly variable thermal loads.

The degree of electrical protection is IP54 for all the models. All the units are tested at the Hitema production site before the shipment to ensure to the Customers the best performances and reliability.



STANDARD PRODUCTS

Compressor: SCROLL
Refrigerant: R410A/R32



MODEL : HFT

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MULTI SCROLL APPLICATIONS

SBS and **SBSF SERIES** are aircooled liquid chillers, designed for industrial use and for outdoor installation. These chillers are designed for applications that require reliability, continuity of operation, high performance and reduced management costs.

All the models are equipped with brazed plate or shell and tube evaporator.

On request all the models can be equipped with water pump suitable to work with water-glycol mixture and storage tank to assure precise temperature control even in presence of process highly variable thermal loads.

With the wide range of cooling capacity up to 1349kW it is possible to satisfy all Customer demands. The refrigerant used is R410A (R32 on request).

The degree of electrical protection is IP54 for all the models.

All the units are tested at the Hitema production site before the shipment to ensure to the Customers the best performances, reliability and continuity of operation. It is recommended to install a suitable filter on the unit inlet water side.



STANDARD PRODUCTS

Compressor: SCROLL
Refrigerant: R410A/R32



MODEL : SBS/SBSF

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COOLING BIG EVOLUTION

EET, EEF, ISV and **ISVF SERIES** are aircooled liquid chillers, designed for industrial use and for outdoor installation. These chillers are designed for applications that require reliability, continuity of operation, high performance and reduced management costs.

All the models are equipped with shell and tube evaporator.

With the wide range of cooling capacity up to 1498kW it is possible to satisfy all Customer demands. EET and EEF series chillers are provided with two refrigerant circuits with one screw compressor per circuit, each able to work with partition steps 50%-75%-100% of load. ISV and ISVF series chillers are provided with one VSD screw compressor per circuit that ensure high efficiency also at partial load. The refrigerant used is R513A.

The degree of electrical protection is IP54 for all the models.

All the units are tested at the Hitema production site before the shipment to ensure to the Customers the best performances, reliability and continuity of operation.

It is recommended to install a suitable filter on the unit inlet water side.

STANDARD PRODUCTS

Compressor: SCREW
Refrigerant: R513A



MODEL : EET/EEF



MODEL : ISV/ISVF

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WATERCOOLED / CONDENSERLESS APPLICATIONS

ENW/ENRC and **EWB/CWB SERIES** are watercooled/condenserless liquid chillers, designed for industrial use and for outdoor installation. These chillers are designed for applications that require reliability, continuity of operation, high performance and reduced management costs.

All ENW /ENRC series models are equipped with coaxial (models 003÷100) or shell and tube (models 130÷480) evaporator and brazed plate (models 003÷055) or shell and tube (models 061÷100) condenser. All the models are equipped with water pump suitable to work with water-glycol mixture and storage tank to assure precise temperature control even in presence of highly process variable thermal loads.

All EWB/CWB series models are equipped with shell and tube evaporator and shell and tube condensers. Shell and tube ensures reliable operation in particular with liquids containing impurities. These models can't be equipped with water pump or storage tank.

The refrigerant used is R410A (R32 on request). (ENW / ENRC) or R513A (EWB / CWB).



MODEL : CWB

STANDARD PRODUCTS
Compressor: SCREW
Refrigerant: R513A



MODEL : ENW



MODEL : ENRC

STANDARD PRODUCTS
Compressor: SCROLL
Refrigerant: R410A/R32

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New Series



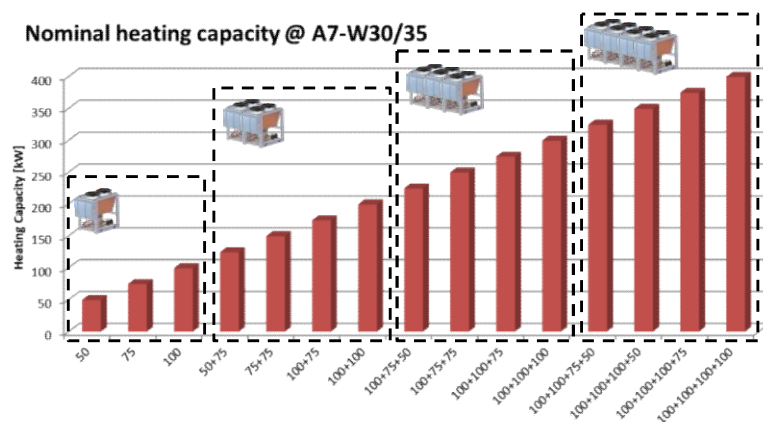
REVERSIBLE HEAT-PUMPS

SBS-HP SERIES consists of a reversible air-cooled heat pump designed to guarantee high performances also in case of low ambient temperature, down to -20°C .

These units are designed for applications that require reliability, continuity of operation, high performance, reduced management costs and carbon dioxide emissions.

This series is composed by three basic models that can be hydraulically or electrically composed to satisfy all final user demands; this simplifies maintenance/repair operations (performed only in the damaged module) and the already built installation can be increased in capacity in case of energy demand modification. In the event of any malfunction, each module can be easily isolated from the others, which can continue to operate while the faulty module is repaired, in this manner costly production downtime can be avoided.

Refrigerant used is R410A (R32 on request). Low noise version and super low noise version are available to reduce noise emissions.



Compressor: SCROLL
Refrigerant: R410A/R32



MODEL: SBS-HP

NEW

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PRP SERIES

PRP SERIES are aircooled liquid chillers using low GWP natural refrigerant. These units are specifically designed for industrial applications that require reliability, continuity of operation, high performance and reduced management costs. The units are developed for open air installation according to EN378, different technical solutions have been adopted to increase the safety of the unit and reduce the refrigerant charge.

With the wide range of cooling capacity up to 820kW it is possible to satisfy all Customer demands. The degree of electrical protection is IP54 for all the models.

All the units are tested at the Hitema production site before the shipment to ensure to the Customers the best performances, reliability and continuity of operation. It is recommended to install a suitable filter on the unit inlet water side.

Propane strengths:

- It is not subject to the limitation of **F-Gas regulation**
- It is a **pure gas**, not a mixture; as a consequence of this it doesn't present any of the glide problems that have been found in other synthetic refrigerants
- It offers a very **wide range of working area**: it can be used both in refrigeration and air conditioning
- Its **low density** and its **thermodynamic properties** allow a reduction of the charge and relatively low working pressures
- **High efficiency**: this refrigerant proves to be more efficient than the other synthetic refrigerants normally used

Compressor: RECIPROCATING/SCREW
Refrigerant: R290



MODEL : PRP

NEW

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Special Products



SPECIAL PRODUCTS



NAME OF THE UNIT: SBS.1230

COUNTRY: Ukraine

COOLING CAPACITY: 1235 kW

REFRIGERANT: R410A

TYPE OF COMPRESSORS: Scroll

DELIVERED IN: 5 weeks

DESCRIPTION OF THE SPECIAL UNIT

Air-Cooled liquid chiller SBS.1230/F16 with 12 scroll compressors, 4 refrigerant circuits, double shell and tube evaporator.



**12 Scroll Compressors,
4 Refrigerant Circuits**



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SPECIAL PRODUCTS

NAME OF THE UNIT: EET.580

COUNTRY: USA

COOLING CAPACITY: 243 kW

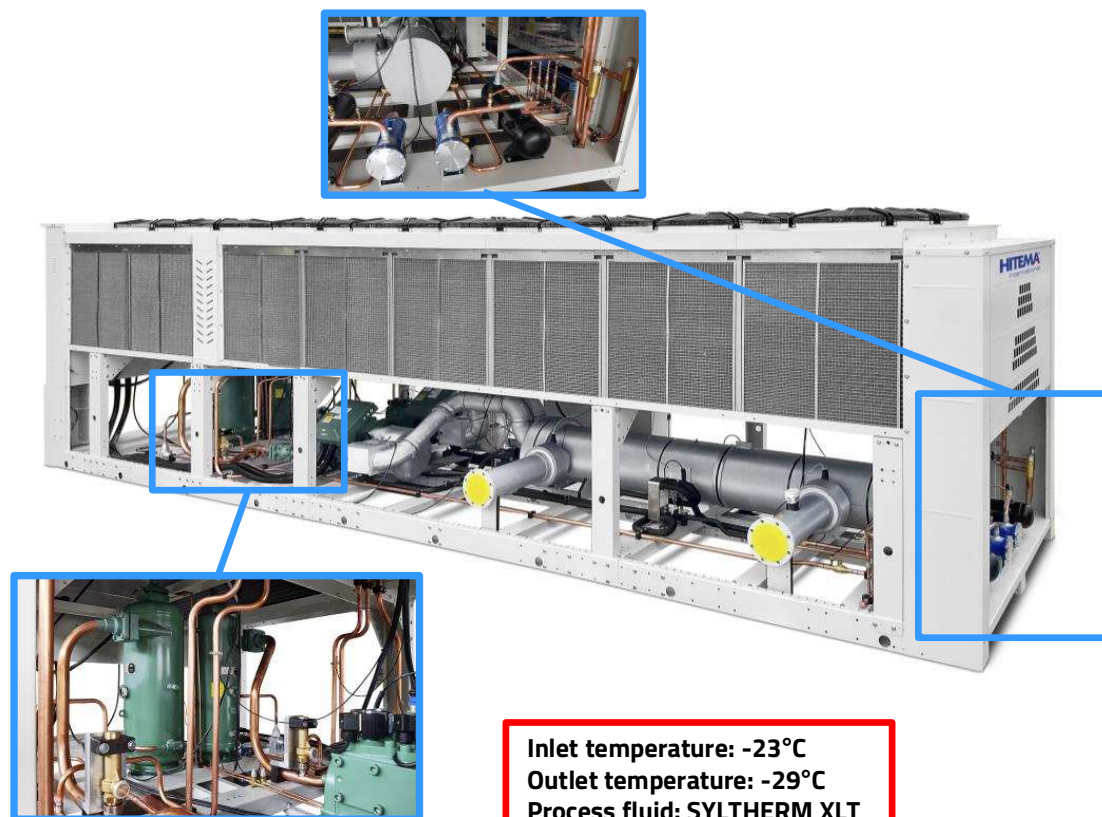
REFRIGERANT: R407F

TYPE OF COMPRESSORS: Semi-hermetic screw compressor

DELIVERED IN: 8 weeks

DESCRIPTION OF THE SPECIAL UNIT

Aircooled process liquid chiller for low temperature. Very detailed design: cooling oil section with oil separator and dedicated coils and fans, compressor with part winding start mode and three regulation steps (50-75-100%), electronic expansion valve, economiser line, axial fans with inverter and special hydraulic gaskets. Chiller with Winter Start kit to ensure the startup of the unit also with low ambient temperature.



Oil separators

For questions or requests, write us to the following email address info@hitema.it or visit our website: www.hitema.com

SPECIAL PRODUCTS

NAME OF THE UNIT: EWB3.1900

COUNTRY: Ukraine

COOLING CAPACITY: 1719 kW

REFRIGERANT: R134a

TYPE OF COMPRESSORS: Inverter Driven Screw

DELIVERED IN: 7 weeks

DESCRIPTION OF THE SPECIAL UNIT

Water-Cooled liquid chiller EWB3.1900 with 3 frigorific circuits, inverter driven Bitzer screw compressors model CSVH37-240Y, special footprint dimensions 5000mm x 2200mm, chiller demontable in 2 parts each of less of 4000kg for the lifting operations.



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SPECIAL PRODUCTS



NAME OF THE UNIT: ISV.910

COUNTRY: Spain

COOLING CAPACITY: 850 KW

REFRIGERANT: R134a

TYPE OF COMPRESSORS: Inverter Driven Screw

DELIVERED IN: 6 weeks

DESCRIPTION OF THE SPECIAL UNIT

Air-Cooled liquid chiller ISV.910 with double hydraulic circuit and single power supply. The two units work as 4 independent units each of them composed by one inverter driven screw compressor and individual shell and tube evaporator. Other features: harmonics filters, compressors sound enclosure, condensers metallic protection grids.



Double hydraulic Circuit

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SPECIAL PRODUCTS



NAME OF THE UNIT: EEF.1210

COUNTRY: USA

COOLING CAPACITY: 1242 KW

REFRIGERANT: R134a

TYPE OF COMPRESSORS: Bitzer Screw

DELIVERED IN: 8 weeks

DESCRIPTION OF THE SPECIAL UNIT

Free-cooling chiller EEF.1210 with adiabatic system, inverter regulated fans, ASME evaporator, double electrical box, power supply 460V/3ph/60Hz UL. Ambient temperature 100% free-cooling at -15,5°C; altitude of installation = 2500m



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SPECIAL PRODUCTS



NAME OF THE UNIT: SBSF.145

COUNTRY: France

COOLING CAPACITY: 128kW

REFRIGERANT: R1234ze

TYPE OF COMPRESSORS: Screw

DELIVERED IN: 5 weeks

DESCRIPTION OF THE SPECIAL UNIT

Free-cooling chiller SBSF.145. The solution is completely tailor designed with special evaporator, special condensers and only 1 screw compressors to obtain a compact chiller to utilize refrigerant R1234ze with the V shape condensers of SBSF series.

**INTEGRATED
FREE-COOLING**

**ECO-FRIENDLY REFRIGERANT :
HFO 1234ZE GWP <7**



NEW

Compressor: SEMI HERMETIC SINGLE SCREW
Refrigerant: R1234ze

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SPECIAL PRODUCTS



NAME OF THE UNIT: ENR.200

COUNTRY: UAE

COOLING CAPACITY: 169,8 kW

REFRIGERANT: R134a

TYPE OF COMPRESSORS: Scroll

DELIVERED IN: 4 weeks

DESCRIPTION OF THE SPECIAL UNIT

Aircooled liquid chiller ENR.200 designed for maximum ambient temperature 55°C: IP55 electrical box with air/liquid cooler, oversized condenser coil, refrigerant R134a. Hydraulic circuit in non ferrous material with plate evaporators. Electronic expansion valves

**Ambient
Temperature : +50°C**



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SPECIAL PRODUCTS

NAME OF THE UNIT: ENRF.130

COUNTRY: Canada

COOLING CAPACITY: 160 kW

REFRIGERANT: R410A

TYPE OF COMPRESSORS: Scroll

DELIVERED IN: 6 weeks

DESCRIPTION OF THE SPECIAL UNIT

Free-cooling chiller ENRF.130, installed in an acid environment: all piping and all ferrous epoxy coated surfaces, IP55 electrical box with air/liquid cooler. CRN approval for the evaporator and power supply 575V/3ph/60Hz. Ambient temperature 100% free-cooling at 5°C

Unit designed for Acid Environment



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SPECIAL PRODUCTS

NAME OF THE UNIT: ENR.003/SP

COUNTRY: UK

COOLING CAPACITY: 3,13 KW

REFRIGERANT: R134a

TYPE OF COMPRESSORS: Reciprocating

DELIVERED IN: 7 weeks

DESCRIPTION OF THE SPECIAL UNIT

Air Cooled liquid chiller ENR.003 for OEM customers. Working range from -10°C up to 55°C ambient. Hydraulic circuit in nonferrous material with plate evaporator and pump, cut phase fan speed regulator, customized dimensions, support brackets and eye bolts for lifting for installation at wall, double working frequency 50Hz/60Hz.



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Our Strengths



CHILLER TEST AREA

Hitema test every single chiller produced in the factory to ensure the best quality and reliability for the Customer. Every unit must follow a strictly internal quality control. Our procedure allow us to verify the correct installation of all components, to comply with functional values declared and to check the respect of certification required (**CE, ASME, CRN, UL, CSA**).

The main feature of our test area is the use of two generators that can work in parallel, one of 650 kVA and one of 500 kVA that allows us to test unit of nominal capacity till 2MW.

We can test chillers with electrical feed: **400V/3ph/50Hz, 400V/3ph/60Hz, 460V/3ph/60Hz, 208V/3ph/60Hz, 230V/3ph/60Hz and 575V/3ph/60Hz.**

During our test we measure:

- Degree of vacuum;
- Refrigerant charge;
- Functional parameters as : evaporation, condensation, subcooling, superheating, cooling capacity, pressure drops on evaporator;
- Electrical absorptions and correct calibration of safety devices.

We also check the correct certification of all components.
All our tests must always be endorsed by our engineers.

WE ARE APPROVED BY Tuv italia Srl, WITH N° 0948



Visa electrical generators: nominal size 500÷650kVA

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OUR STRENGTHS

- HIGH **CUSTOMIZED** TAILOR SUITED SOLUTIONS
- EXCELLENT **RELIABILITY** AND CONTROL CAPACITY
- **GREAT RANGE OF PRODUCTS** FOR HIGH/LOW AMBIENT TEMPERATURES AND/OR HIGH/LOW WATER MIXTURES TEMPERATURES
- OPTIMIZED **FREECOLING SYSTEM** TO ACHIEVE THE BEST EFFICIENCY AND ENERGY SAVINGS
- USE OF THE BEST STATE-OF-THE-ART **TECHNOLOGIES**

OUR MISSION

- CREATE **SOLID RELATIONS** WITH ALL OUR PARTNERS BASED ON A TRUSTWORTHY COLLABORATION.
- DEAL WITH EVERY SINGLE CHALLENGE WITH THE MENTALITY THAT EVERYTHING CAN BE ACHIEVED WITH **HARD WORK AND DEDICATION** AND THAT IMPOSSIBLE IS ONLY AN OPPORTUNITY FOR US
- CREATE ALWAYS UNITS THAT CAN GUARANTEE THE **BEST PERFORMANCES**, AN EXCELLENT QUALITY AND THAT CAN SAFEGUARD OUR **NATURE** AND THE FUTURE OF OUR PLANET

OUR CERTIFICATIONS



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