



**ATEX**



## HVAC for explosive atmospheres

 **CLIMASA**  
REFRIGERACIÓN, S/L

## OUR EXPERIENCE AT YOUR SERVICE

Since 1989 **CLIMASA REFRIGERACION S.L.** has specialised in the manufacture of air-conditioning, ventilation and cooling systems for potentially explosive environments.

**CLIMASA REFRIGERACION S.L.** believes that people and teamwork are the basic key to success. Innovative spirit is the common characteristic of the members of our highly experienced technical team, and we promote and use both personal and team creativity for the ongoing improvement of our products.



## INNOVATION AND DEVELOPMENT

**CLIMASA REFRIGERACION S.L.** has developed management tools and procedures that have allowed us to standardise manufacturing, enhancing the quality of the finished product.

Our vast experience in the sector has allowed us to develop our own range of products adapted to our clients' needs, optimising their projects in:

**THE THREE CORNERSTONES OF CLIMASA REFRIGERACION S.L.**  
• OPTIMAL RESPONSE TIME • QUALITY AT LOW COST • SERVICE EXCELLENCE



## QUALITY POLICY AND CERTIFICATION

All of **CLIMASA REFRIGERACION S.L.** manufactures use the components of leading worldwide brands which can easily be found in the countries where we sell them.



Our equipment is built of stainless steel (standard execution) or painted sheeting, with excellent quality in all finishes.

We are an environmentally-concerned company, hence all our products are 100% recyclable at the end of their useful life.

All our products include ecological gases that do not damage the ozone layer and have a minimum greenhouse effect.

**CLIMASA REFRIGERACION S.L.** has an overall ATEX Certification for all its manufactures, and also complies with all the European Directives that affect us as manufacturers.



## SOLUTIONS FOR EVERY NEED

**CLIMASA REFRIGERACION S.L.** provides solutions configured to adapt to our clients' needs:

- Ecological coolant gases.
- Air or water condenser units.
- Axial or centrifugal condensation fans.
- Low sound-level units.
- Cycle inversion systems.
- Units with energy recovery.
- Broad range of heating and cooling powers.
- Semi-hermetic and screw compressors for major power ranges.
- Roof-top executions.

We have a broad range of cooling equipment for your projects whose flexibility and adaptability makes them optimal for each specific installation.



Humedad Absoluta Kg/kg

0,010  
0,005  
0

70 °C  
°F

60  
150  
140  
130  
120  
110

40

30

80

70

60

50

40

30

0

Temperatura Bulbo Seco

Temperatura Bulbo Humedo

Vapor

kPa

mm Hg

# EXPLOSION-PROOF ATEX HVAC

## CL Series



Air-conditioners adapted to the ATEX 100 Legislation, explosion-proof execution with **LOM 07 ATEX 0062** Certificate.

With **II 2 G/D EEx c-IIC T3** classification.

Suitable for Area 1 and Area 2 (in ATEX-classified areas with presence of combustible gases), Area 21 and Area 22 (in ATEX-classified areas with presence of combustible powder). Standard structure in AISI 304 stainless steel, in AISI 316 or painted sheet metal to order.

### AIR SYSTEMS

- Redundant ventilation system with back-up fan in case of main fan failure.
- Blower fans by direct transmission or transmission by anti-static belts.
- Outside air system for air renovation and room pressurisation.
- Air filtration with visual or electronic soiling control to order.
- Chemical filtration for a broad range of gases.
- Vapour, electrical or heat pump heating.

### COOLING CIRCUIT

- Special designs for working in extreme temperature and/or moisture environments.
- ATEX semi-hermetic compressors for low and medium cooling power ranges.
- ATEX screw compressors for high cooling power ranges.
- Automatic condensation control.
- Heat exchangers with coatings for corrosive and saline environments.

### CONTROL, SIGNALS AND SAFETY

- High-low coolant pressure safety switches and condensation regulator.
- High and low coolant pressure gauges.
- Electronic thermostat with real-time temperature indication.
- Electronic pressure control of blowing air monitored for each fan.
- Main switchboard with electronic power, operating and signal protection controlled by PLC.
- Status and alarm signals according to the needs of each project.



HVAC is particularly indicated for operating in explosive and aggressive environments such as:

- Petrochemical industries
- Chemical
- Refineries

**ATEX**





## OTHER ATEX PRODUCTS

- Liquid cooler.
- Extractor/pressuriser.
- Refrigeration driers.
- Dry coolers.
- Temperature, RH% and RPM control.
- Control valves, linear and rotary actuators.



CHILLERS

PRESSURISATION  
UNITS



DRY COOLERS



REFRIGERATION DRIERS



THERMOSTAT



MOTORISED GATE



VALVE ACTUATOR



## CLOSE TO OUR CLIENTS

- Standard project documentation: development engineering, implementation diagrams, process diagram...
- Tests and acceptance of the equipment by the client or control organisation in our facilities.
- Technical assistance in the start-up of all our products.
- Training of personal in the control, operation and maintenance of the equipment supplied.
- Preventive and corrective maintenance: we can go anywhere to deliver the best possible service to our clients.
- Adaptation of equipment to the current ATEX Regulations.
- Broad range of parts in stock for urgent spare parts.



Isaac Peral, nave 17 - P. I. Nord-Est  
08740 Sant Andreu de la Barca  
(Barcelona) SPAIN  
T. +34 936 532 220  
F. +34 936 825 163  
cr@climasarefrigeracion.com  
www.climasarefrigeracion.com

OUR CLIENTS

