



EXCELLENCE AND INNOVATION IN PRECISION AIR CONDITIONING.

For 45 years MONTAIR has been the name of excellence in precision air conditioning in high technology environments: Cooling Systems for technical applications such as Server Rooms and Telecommunication Plants.

Montair trademark is in the network of **G.I. INDUSTRIAL HOLDING**, a Company of the multinational **G.I. HOLDING Group**, which offers a complete range of solutions for comfort and industrial cooling: air conditioning and air handling systems in commercial or industrial buildings, cooling systems for server rooms and industrial process.

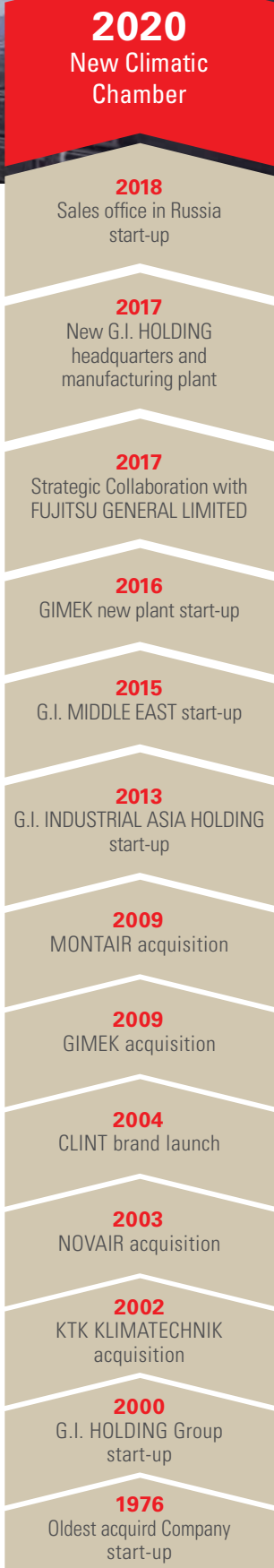
G.I. INDUSTRIAL HOLDING has grown by the acquisition of historic Companies operating for decades in the different fields of air conditioning and industrial cooling. In rapid international expansion, the Company now operates internationally with an extensive productive and sales network, with 4 European production plants and a network of 30 Sales Representatives in Italy and 70 Distributors in the World, coordinated by 3 Sales Offices.

In 2017 the G.I. HOLDING Group signed a Strategic Collaboration agreement with the multinational **FUJITSU GENERAL LIMITED**, for joint development of dedicated product ranges of residential and commercial air conditioners.

CLIMATIC CHAMBER

In Rivignano Teor (Italy), in addition to the production plant for large Liquid Chillers, is located the newly born Climatic Chamber that allows the Company to perform witness tests in the presence of the Customer to prove the perfect functionality and performance of its Units under a huge variety of operating conditions.

This allows a wide array of tests that can be carried out from -20°C to +50°C outdoor air temperature.



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G.I. INDUSTRIAL HOLDING S.p.A. is not responsible for possible errors of this catalogue and can change, without prior notice, the present data.

VISIT www.montair.it



CLOSE
CONTROL
SYSTEMS

PRODUCT OVERVIEW



EXCELLENCE AND INNOVATION IN
PRECISION AIR CONDITIONING



CLOSE
CONTROL
SYSTEMS

PRODUCT OVERVIEW



45 YEARS
OF EXPERIENCE IN
AIR CONDITIONING,
INDUSTRIAL
PROCESS
COOLING,
PRECISION AIR
CONDITIONING AND
AIR TREATMENT.



CLOSE CONTROL LINE FOR MEDIUM-DENSITY DATA CENTRES <20 KW/RACK

1 DIRECT EXPANSION CLOSE CONTROL UNITS WITH FULL INVERTER TECHNOLOGY



Close Control units with INVERTER Scroll compressors and EC INVERTER Plug-Fans.

RANGES:

- XIP:** Aircooled direct expansion units with full Inverter technology.
TIP: Aircooled direct expansion Dual Fluid units with full Inverter technology.

INVERTER TECHNOLOGY

EC INVERTER PLUG FAN

- ✓ Cooling capacity: 17÷136 kW (5÷39 TON)
- ✓ Inverter Scroll Compressors
- ✓ EC Inverter Plug-Fans
- ✓ EER up to 4,5
- ✓ Compact dimensions
- ✓ Low noise level
- ✓ Electronic expansion valve
- ✓ Constant airflow and static pressure
- ✓ Suitable for high external ambient temperature (up to 52°C)



2 DIRECT EXPANSION CLOSE CONTROL UNITS



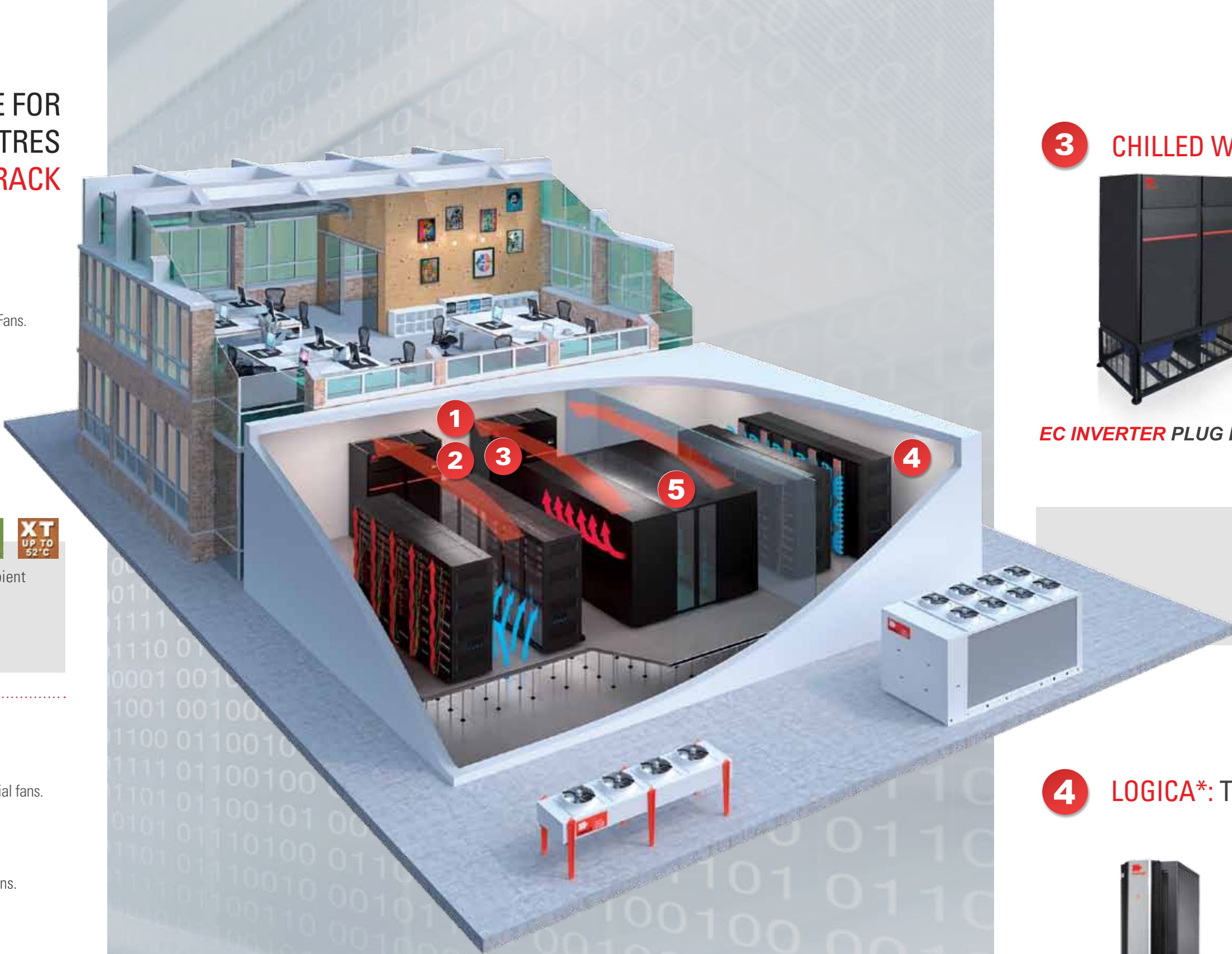
Close Control units with Scroll compressors and EC INVERTER Plug-Fans or radial fans.

RANGES:

- XOP:** Aircooled direct expansion units with EC Inverter Plug-Fans.
XOC: Aircooled direct expansion units with radial fans.
TOP: Aircooled direct expansion Dual Fluid units with EC Inverter Plug-Fans.
TOC: Aircooled direct expansion Dual Fluid units with radial fans.
HOP: Watercooled direct expansion units with EC Inverter Plug-Fans.
HOC: Watercooled direct expansion units with radial fans.
FOP: Watercooled direct expansion Free-Cooling units with EC Inverter Plug-Fans.
FOC: Watercooled direct expansion Free-Cooling units with radial fans.

EC INVERTER PLUG FAN

- ✓ Cooling capacity: 9÷152 kW (3÷43 TON)
- ✓ EC Inverter Plug-Fans
- ✓ Radial fans
- ✓ Free-Cooling technology
- ✓ Compact dimensions
- ✓ Electronic expansion valve
- ✓ Constant airflow and static pressure
- ✓ Suitable for high external ambient temperature (up to 52°C)



PRODUCT RANGE

MONTAIR offers an innovative energy efficient and reliable range of cooling systems for medium and high-density Data Centres as well as Packaged units for telecom application systems.

3 CHILLED WATER CLOSE CONTROL UNITS



Close Control units with EC INVERTER Plug-Fans or radial fans.

RANGES:

- WOP:** Chilled Water units with EC Inverter Plug-Fans.
WOC: Chilled Water units with radial fans.
DOP: Chilled Water Dual Coil units with EC Inverter Plug-Fans.
DOC: Chilled Water Dual Coil units with radial fans.
WOPU: Chilled Water Underfloor units with EC Inverter Plug-Fans.
DOPU: Chilled Water Dual Coil Underfloor units with EC Inverter Plug-Fans.

EC INVERTER PLUG FAN

- ✓ Cooling capacity: 9÷282 kW (3÷80 TON)
- ✓ EC Inverter Plug-Fans
- ✓ Radial fans
- ✓ Underfloor installation
- ✓ Compact dimensions
- ✓ Constant airflow and static pressure
- ✓ Pressure independent balancing and control valve (CW)



4 LOGICA*: THE HYDRONIC COOLING DOOR



LOGICA SYSTEM is the latest generation solution for high density server rooms: a system of cooling doors installed on the racks and operating with liquid Chillers to provide localized cooling directly to server hot spots.

COMPONENTS:

- 1:** Rear Cooling Door. **2:** High Efficiency liquid Chiller. **3:** Management System.

- ✓ Cooling capacity: 25÷45 kW (7÷13 TON) each door
- ✓ Maximum data protection
- ✓ Compactness, flexibility and adaptability
- ✓ Easy maintenance
- ✓ Low installation costs
- ✓ Remote management



5 IN ROW & IN RACK COOLING SYSTEMS



In Row & In Rack Cooling units chilled water and direct expansion type.

RANGES:

- XIPR:** Air cooled direct expansion In Row units.
WOPR: Chilled water In Row units.
XIPR-E: Air cooled direct expansion In Rack **Enclosure** units.
WOPR-E: Chilled water In Rack **Enclosure** units.
XIPR-ER: Air cooled direct expansion In Rack **Enclosure + Redundancy** units.
WOPR-ER: Chilled water In Rack **Enclosure + Redundancy** units.

NEW

INVERTER TECHNOLOGY

EC INVERTER PLUG FAN

- ✓ Cooling capacity: 12÷45 kW (3.4÷12.8 TON)
- ✓ One frame 300 mm
- ✓ Inverter Scroll compressor on outdoor unit
- ✓ EC Inverter Plug-Fans
- ✓ Pressure independent balancing and control valve with integrated water flow meter (CW) (optional)



TELECOM APPLICATION SYSTEMS

OUTDOOR AND INDOOR PACKAGED UNITS



Outdoor and Indoor Direct Expansion Packaged units for Telephone Exchangers and Telecommunication Shelters.

RANGES:

- CZ:** Outdoor Packaged units with (EC Inverter) Plug-Fans.
CY: Indoor Packaged units with (EC Inverter) Plug-Fans.
CZ...XT: Outdoor Packaged units with (EC Inverter) Plug-Fans for high external ambient temperature (up to 52°C).
CY...XT: Indoor Packaged units with (EC Inverter) Plug-Fans for high external ambient temperature (up to 52°C).

EC INVERTER PLUG FAN

- ✓ Cooling capacity: 4÷29 kW (1÷8 TON)
- ✓ EC Inverter Plug-Fans
- ✓ Free-Cooling technology
- ✓ Suitable for high external ambient temperature (up to 52°C)

