

COMFORT APPLICATIONS

PRODUCT OVERVIEW

▶ CHILLERS

▶ HEAT PUMPS

▶ UNITS FOR SIMULTANEOUS AND INDEPENDENT PRODUCTION OF HOT AND COLD WATER

▶ ANCILLARY PRODUCTS

▶ CONTROL, SUPERVISION AND OPTIMISATION SYSTEMS

NEW GREEN
REFRIGERANT SERIES

R1234ze

G04
SERIES

R513A

G05
SERIES



Climaveneta solutions for comfort applications are designed to provide even in the most challenging residential, office, hotel and retail projects:



Perfect Comfort and Well-being



Ensuring a perfect control of temperature, humidity as well as of air quality and noise level, ideal comfort conditions are ensured even in the most demanding applications and challenging climate conditions.

Environmental Respect



Decreasing energy consumption, cutting carbon emissions and making the most extensive use of renewable sources are key elements of a high quality HVAC, making a positive contribution to greener buildings and better energy performance ratings.

Specific Solution for each project



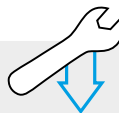
A vast range of highly configurable products, combined with solutions dedicated to each project, when even the highest configurability is not enough, is key to delivering best comfort with no limitations on architectural choices, reduced footprint of technical systems and no aesthetical impact.

Lowest cost of ownership



Thanks to cutting-edge solutions designed around technological innovation and sustainability in order to drive down initial investment, running costs and maintenance, and to increase the total life cycle of the product.

Simplified on-site operations



Climaveneta units apply a “plug & play” design approach that integrates many functions traditionally provided by different systems, such as heating and cooling. They are equipped with all options and accessories in order to make on site operations rational, simple and predictable, with countless advantages in project management.

Enhanced value of the real estate development



By reducing operational expenses due to running costs and maintenance, as well as by optimising initial investment and opening the opportunity to benefit for energy reduction and green solutions incentives, Climaveneta solutions are a key asset in making new or existing properties more valuable and profitable.

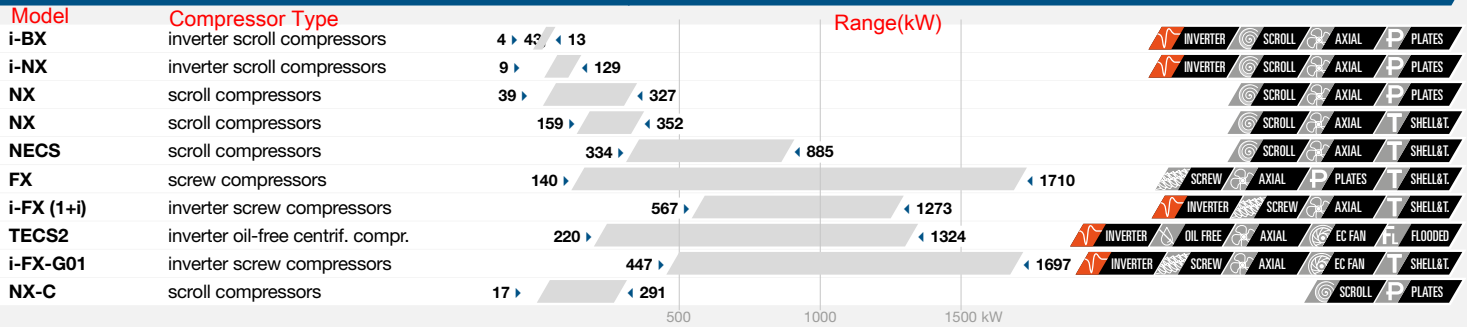
CHILLERS



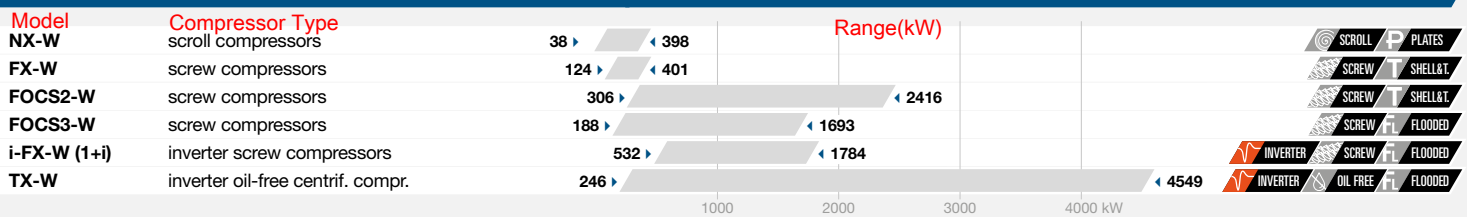
- ▶ Highest energy efficiency
- ▶ Perfect indoor climate control
- ▶ Lowest noise emissions



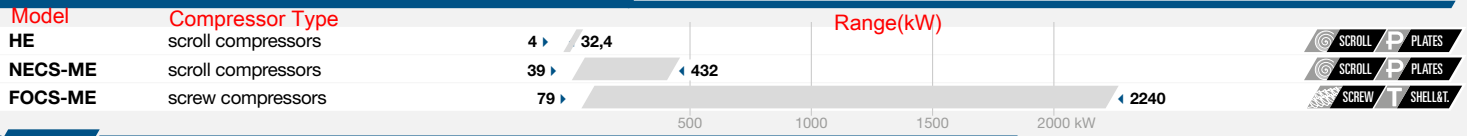
Air cooled chillers



Water cooled chillers



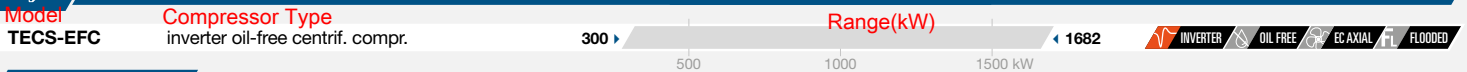
Condenserless chillers



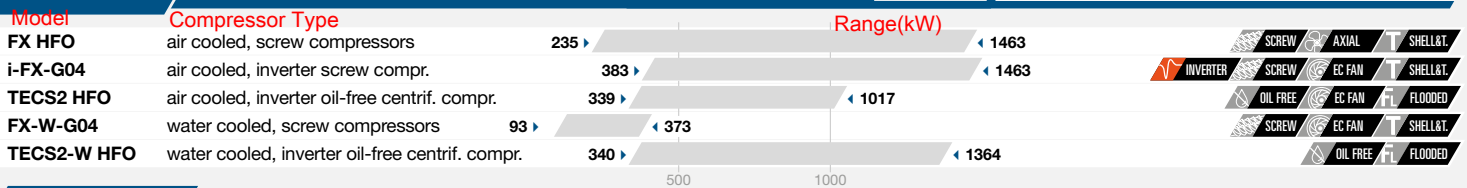
Air cooled chillers with free-cooling technology



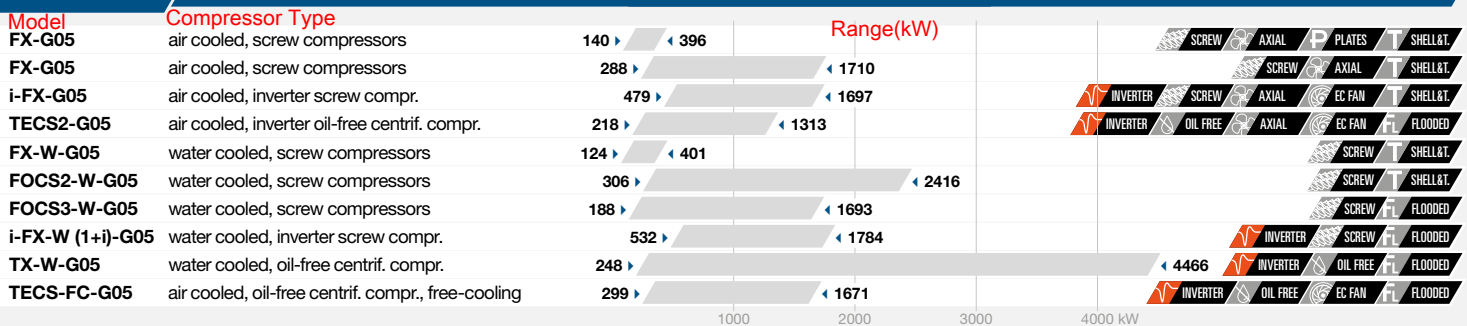
Air cooled chillers with evaporative free-cooling technology



G04 SERIES Air and water cooled chillers with HFO 1234ze



G05 SERIES Air and water cooled chillers with R513A



ADVANCED TECHNOLOGIES FOR HIGH EFFICIENCY AND HIGH QUALITY AIR CONDITIONING SYSTEMS

Climaveneta's leadership in air conditioning and heating is backed by over 45 years experience in the smart integration of premium technologies for the most challenging projects worldwide



Magnetic Levitation

An extended range of chillers with magnetic levitation centrifugal compressors from 200kW to 4MW, both air source and water source, available also in free cooling and evaporative free cooling versions, to deliver highest efficiency in every application.

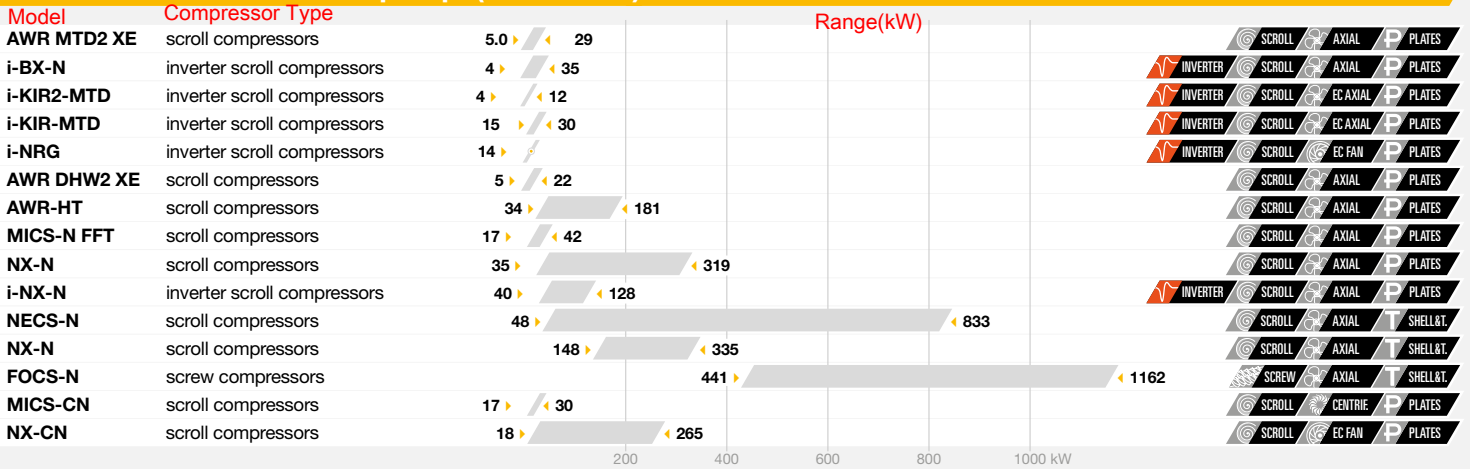
HEAT PUMPS



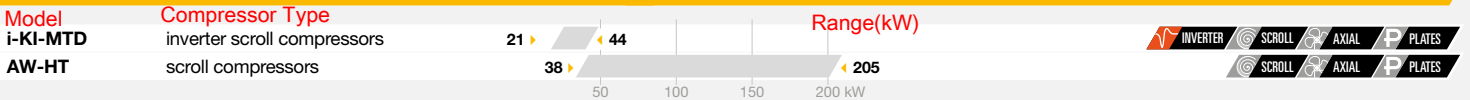
- ▶ Operating limits up to -20°C
- ▶ Hot water production up to 78°C
- ▶ Highest energy efficiency



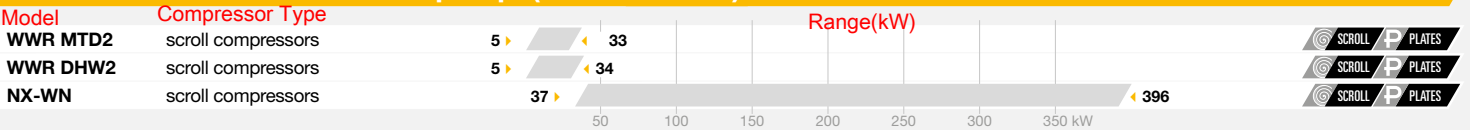
Air to water reversible heat pumps(Air Cooled)



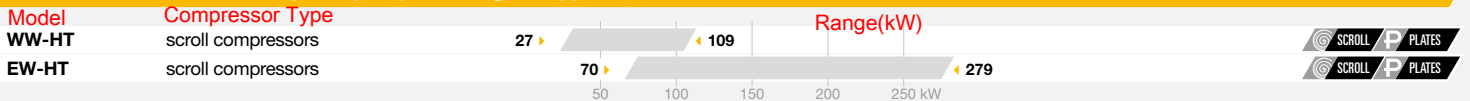
Air to water heat pumps (heating only)(Air Cooled)



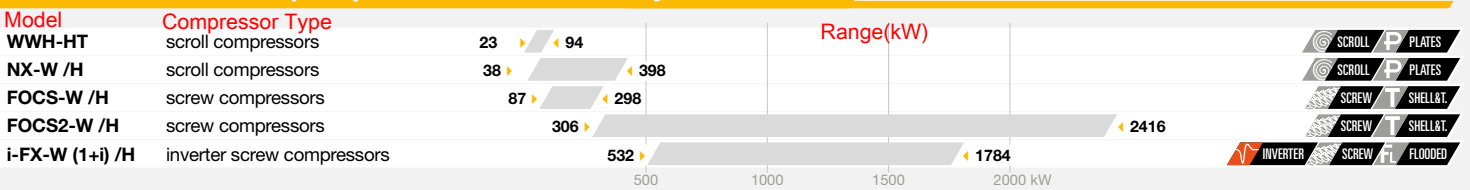
Water to water reversible heat pumps(Water Cooled)



Water to water heat pumps (heating only)



Water to water heat pumps reversible on the hydraulic side



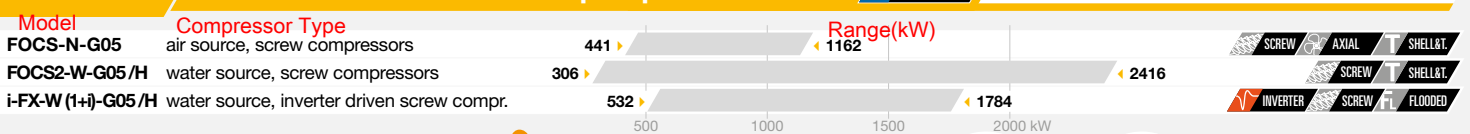
Geothermal reversible heat pumps



Geothermal reversible heat pumps (heating only)



G05 SERIES Air and water source heat pumps with R513A



Smart Thermal Energy Management
An innovative heat recovery system that allows the smart use of rejection heat from the industrial process for comfort heating and other neighbouring applications.

Inverter Driven Compressor
The possibility to modulate cooling capacity results in increased efficiency as well as in the possibility to effectively implement smart management solutions such as active redundancy.

New G04 and G05 Series using green refrigerants
Following on vast experience in using green refrigerants, Climaveneta has already employed extensively green HFO refrigerants such as HFO1234ze and R513A in many ranges, in order to continue to be at the forefront with green best practices.

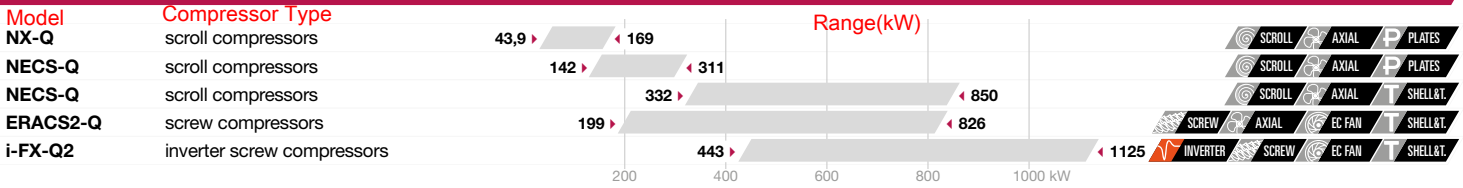
UNITS FOR SIMULTANEOUS AND INDEPENDENT PRODUCTION OF HOT AND COLD WATER



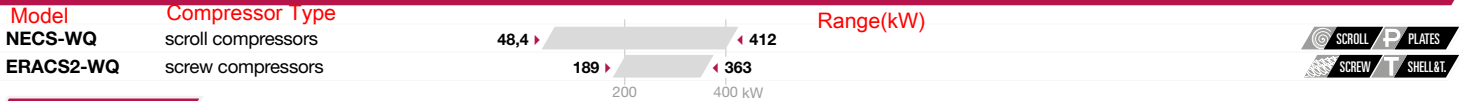
- ▶ Highest efficiency in combined hot and cold water production
- ▶ Rationalized system design and reduced footprint



Air source heat pumps

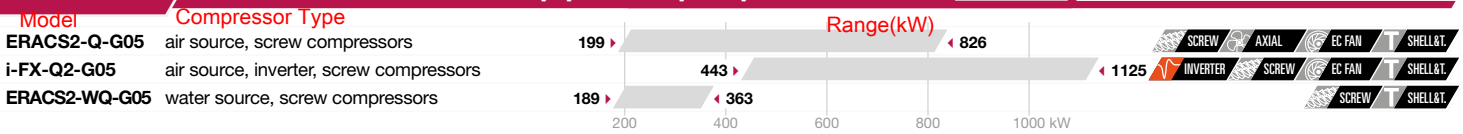


Water source heat pumps



G05 SERIES Air and water source 4-pipe heat pumps with R513A

R R513A



ANCILLARY PRODUCTS



Condensing units



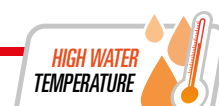
Remote condensers



V-AIR
High efficiency EC technology fans are extensively adopted for their advantages with 15% energy reduction compared to traditional EC fans.



VPF
The VPF (Variable Primary Flow) dynamically optimizes the unit's thermoregulation for variable flow operation, thus ensuring both the highest pump energy savings and chiller stable operation.



High Water Temperature
Climaveneta vast experience in high leaving water temperature applications is proven by a complete range of technical solutions in these areas, to cope with any heating requirement, from 6 pipe applications to high temperature heating.

CONTROL, SUPERVISION AND OPTIMISATION SYSTEMS



Group devices

- ▶ **ClimaPRO Plant Room Optimisation System**
Plant Room Optimiser for real time, smart management of energy indexes for the single units and the entire plant room.
- ▶ **MANAGER 3000**
Specialized group control.
- ▶ **SEQUENCER**
The ultimate solutions for supervision, remote monitoring, service, and preventive maintenance.



Supervision and monitoring systems

- ▶ **IDRORELAX**
Monitoring and supervision system.



Human Machine Interfaces

- ▶ **KIPlink**
Control interface for smart phones and tablets.



Proprietary Control Logics

The performance of Climaveneta units is enhanced also by their control logics, based on a proprietary logics and know-how, deployed in a vast range of solutions.



Leading Heat Recovery Technology

Climaveneta is a recognized leader in heat recovery applications and in its product employs in the most effective way all the most performing solutions such as thermodynamic, plate and rotary heat recovery as well as refrigerant booster.



Configurable Efficiency Set

The willingness to cope even with the most demanding energy efficiency projects is reflected by the availability of 3 energy efficiency standard configurations in most hydronic units.

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for a greener tomorrow

Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.



CLIMAVENETA INDIA

www.melcohit.com