

Introducing...

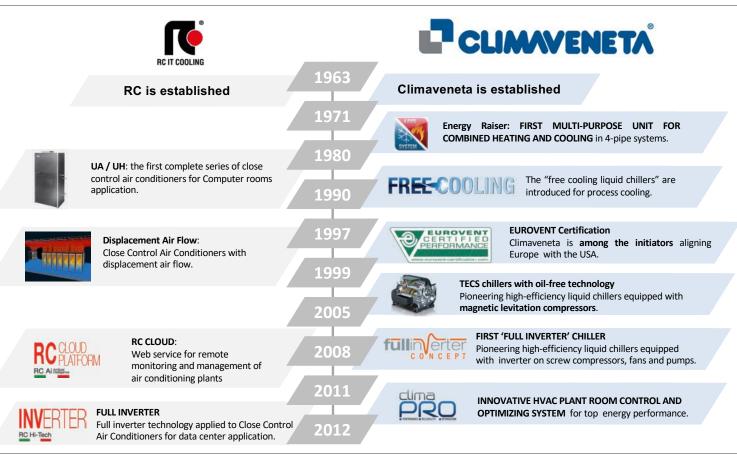


A brand of



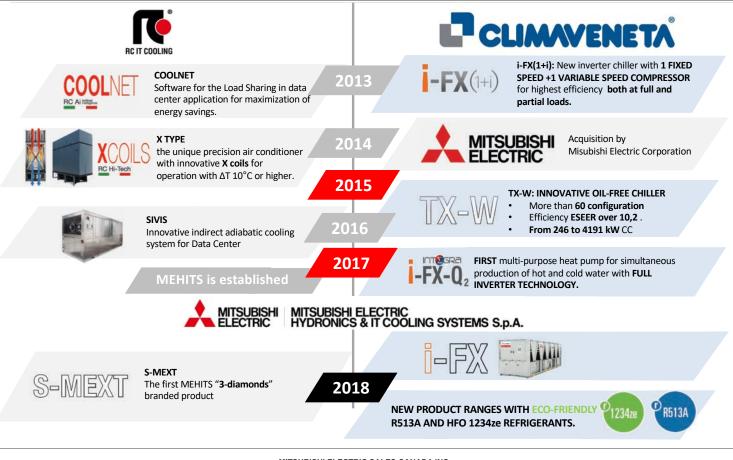


Timeline of MEHITS' Key Technologies





Timeline of MEHITS' Key Technologies





Corporate Mission & 7 guiding Principles

The **Corporate Mission of the Mitsubishi Electric Group** is to continually improve its technologies and services by applying creativity to all aspects of our business. By doing so, we enhance the quality of life in our society.

Mitsubishi Electric Hydronics & IT Cooling Systems spa

is the core company for central hydronic and IT cooling technologies within the group.

7 Guiding Principles



Establish relationships with society, customers, shareholders, employees, and business partners based on



Ethics and Compliance

Conduct always in compliance with applicable laws and high ethical standards in all endeavors.



Quality V

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Provide the best products and services with unsurpassed quality.



Environment

Respect nature, and strive to protect and improve the global environment.



Technology

Pioneer new markets by promoting research and development, and fostering technological innovation.



Growth Assure fair earnings to build

a foundation for future growth.

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Citizenship

As a global player, contribute to the development of communities and society as a whole.





The Mitsubishi Electric Company specialized in hydronic systems for air conditioning and IT Cooling solutions.

It designs, manufactures, and markets high efficiency, reliable, economically viable, eco-sustainable solutions and value adding services worldwide, in particular by embracing renewable energy sources.

> Headquartered in Italy. Production facilities in Italy, China, and India.

We operate in the market with two brands:



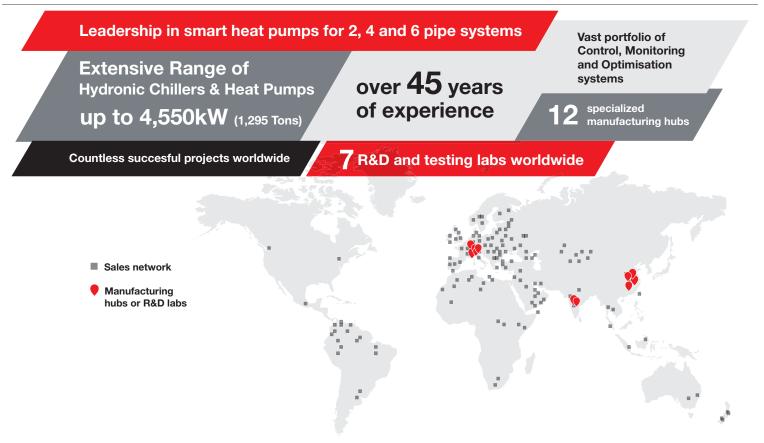
A leading brand in central climate control systems and Process Cooling with 45 years' experience, providing products and value adding services in the most demanding projects worldwide.



Leading IT cooling solutions with 50 years' experience, a proven track of innovations, high quality and successful projects worldwide.

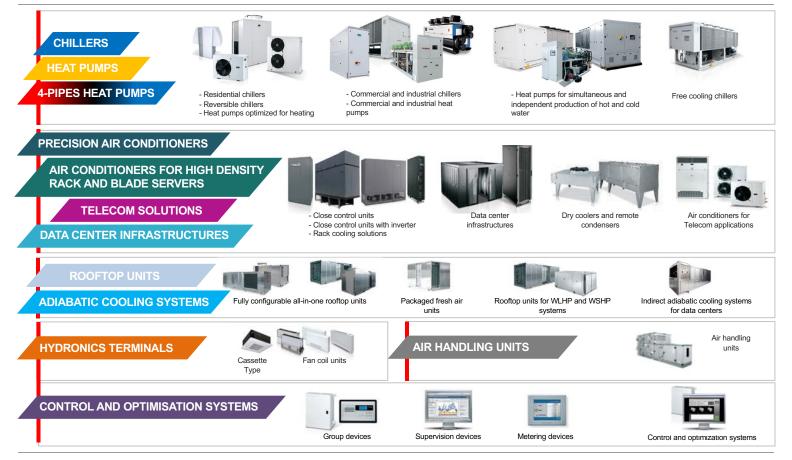
Please consult Climaveneta and RC websites for further details on the product ranges







Product and Technologies





R513a

REDUCED GWP

IPCC AR5

New Refrigerant Trends



G05 SERIES

PRODUCT RANGE WITH HFO 1234ze REFRIGERANT.

The G04 series with HFO 1234ze refrigerant is the greenest ecofriendly alternative to traditional refrigerants and the perfect solution for HVAC plants where environmental issue is a key priority. Featuring GWP values almost 0, the G04 series maintain very high efficiency values and operating performance similar to the R134a products.

HF01234z

PRODUCT RANGE WITH HFO 1234ze REFRIGERANT.

The green alternative to R134a Among the alternative refrigerants available on the market, the R513a of the G05 series features very low GWP values and 0 depletion potential.





MEHITS Production Plants

Europe

M11

Bassano-Italy

Productive area: 12,500 m²



- Scroll compressor chillers Scroll compressor reversible chillers - Heat pumps up to 700 kW - ISO 9001 / ISO 14001 / OHSAS18001

M12 Belluno-Italy

Productive area: 25.000 m²



- Screw and oil-free compressor chillers - Screw and oil-free compressor reversible chillers / Heat pumps Shell&tube evaporators - ISO 9001 / ISO 14001 / OHSAS18001

M13

Belluno-Italy

Productive area: 7,000 m²



MEHITS Training Centre

M14

Treviso-Italy



Productive area: 10,000 m²

- Residential chillers - Heat pumps up to 50kW -ISO 9001 / ISO 14001 / ISO 18001 - OHSAS18001

M21

Valle Salimbene-Italy

Productive area: 36.500 m²



- Telecom solutions - Rack cooling air conditioners - Split air systems - ISO 9001 / ISO 14001 / OHSAS18001

M22

Valle Salimbene-Italy



- Scroll compressor chillers and heat pumps up to 200 kW - ISO 9001 / ISO 14001 / OHSAS18001

Productive area: 2.300 m²

M23



Productive area: 7,500 m²

- Telecom solutions
- OHSAS18001



M81

Bangalore - India



HPAC units

 Screw compressor chillers ISO 9001

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China

M91

Shanghai-China

Productive area: 15.000 m²



- Liquid chillers - Reversible chillers for the Chinese and SEA market - ISO 9001, ISO 14001, OHSAS18001

M92

Shanghai-China



Productive area: 2,500 m²

- HPAC units for the Chinese and SEA market - ISO 9001, ISO 14001. OHSAS18001

M93

Shanghai-China



Productive area: 3,000 m² - AHU units

- Fan coil units
- Aluminium fin and copper tube coils
- ISO 9001, ISO 14001. OHSAS18001

Shanghai-China

Productive area: 2,000 m²



- Shell & tube Heat Exchangers - Condensers and evaporators - ISO 9001, ISO 14001, OHSAS18001

- Close control air conditioners - ISO 9001 / ISO 14001 /









MEHITS Laboratories

MITSUBIS

Europe

ML12 – New Testing Centre **Belluno Italy**



ML14 Treviso-Italy



Terminal Units, small chillers & Heat Pumps - UNI 14511

- ISO 9614-2

ML21

Valle Salimbene-Italy

- UNI 14511

- ISO 9614-2



Chillers & Heat Pumps up to 1600 kW. Telecom solutions

- UNI 14511 - ISO 9614-2

Chillers, Heat Pumps, 4-pipe units, rooftop

- Combined Testing of IT Cooling package

units, AHUs, IT cooling systems

- Total Area: 4000 m³ - Up to 4800 kW

- From -20°C to +55°C - Up to 100.000 m³/h

(Chillers + HPAC units)

China **ML91**

Shanghai-China



- GB/T 19232-2003 - GB/T 7725-2016

Terminal units

ML92

Shanghai-China



Chillers & Heat Pumps

- GB/T 10870-2014

ML93

Shanghai China



Precision air conditioners

- GB/T 17758-2010

ML24 Valle Salimbene-Italy



Close control air conditioners, Rack cooling units - EUROVENT 6/6 - ANSI-ASHRAE 2016

ISO, UNI, ANSI-ASHRAE, Eurovent certified

Performance testing both at full and partial loads

Sound emissions tests

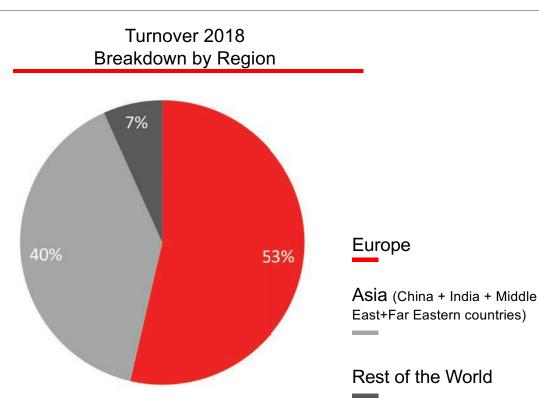
Simulation of naval applications

Failure tests

Unit operation tests in severe conditions

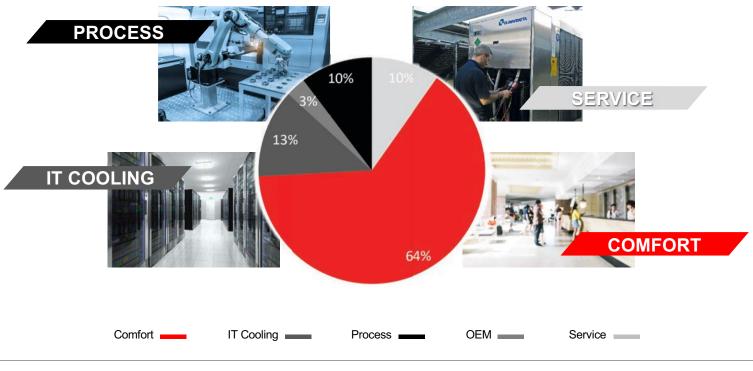


Sales Figures





Turnover 2018 Breakdown by Segment



Heating and Cooling

Brands & Segments: Climaveneta

COMFORT APPLICATIONS

PROCESS APPLICATIONS

Climaveneta's mission is to provide energy efficient heating and air conditioning solutions that enhance everyone's comfort, improve the profitability of a building, and do not contribute to an increase in CO2 levels.

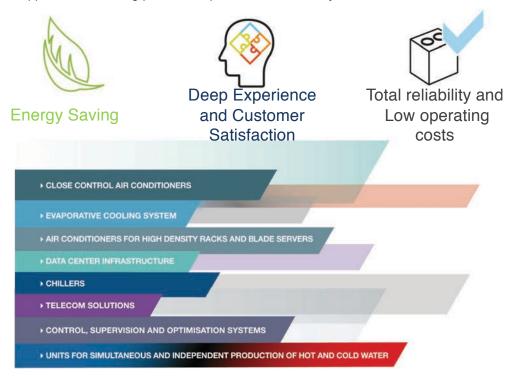




Brands & Segments: RC



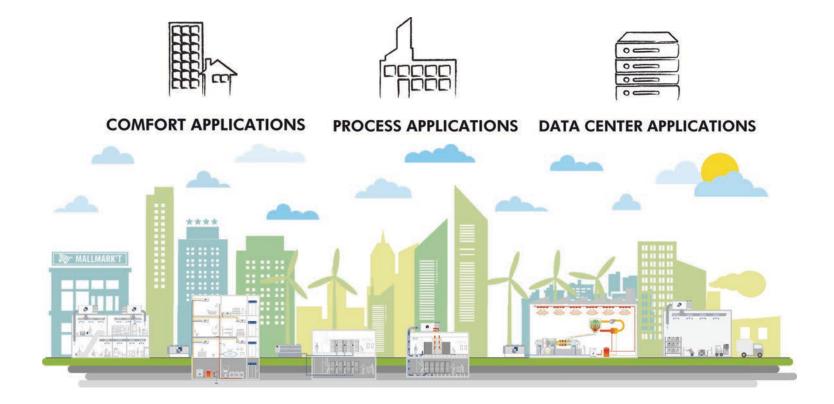
With more than 50-year experience in the HPAC segment, RC brand provides ICT cooling solutions for data center, telecom applications and mission-critical applications needing precise temperature and humidity control.





IT COOLING APPLICATIONS



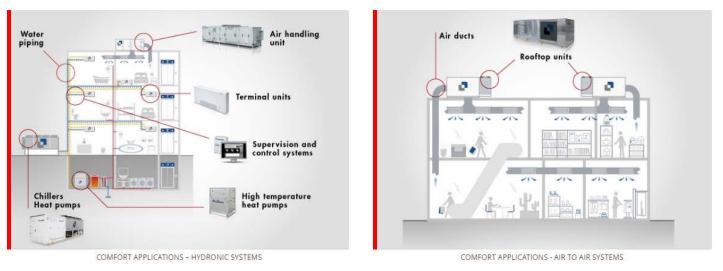






COMFORT APPLICATIONS

A large array of solutions and systems for controlling environmental conditions (temperature humidity and air quality) in human occupied spaces.





Comfort: typical applications and examples

OFFICE BUILDINGS

The Willis Building London – UK Hydronic System



SHOPPING CENTRES

Marks & Spencers Dundrum **Dublin** - Ireland Hydronic System



SPORT FACILITIES

Singapore Sports Hub Singapore Hydronic system



EXHIBITIONS



Milan EXPO 2016 Milan Hydronic System, Air-to-air System



HOTELS

Sheraton Mirage Resort Gold Coast - Australia Hydronic System



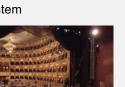


THEATRES



La Fenice Theatre Venice, Italy Hydronic System







Comfort: Some of our business partners

Clients



Hotels: Sheraton, Hyatt, Hilton, NH, Best Western, Ibis, etc.

Finance: BNP Paribas, Barclays, Unicredit, Santander, China Construction Bank etc.

Office buildings: Hines, Willis Insurances, Stanhope, British Land, Legal&General, etc.



Shopping Centres: Ikea, Marks & Spencer, Zara, Auchan, Carrefour, Konzum, etc.

Architects

Foster + Partners David Chipperfield Zaha Hadid Renzo Piano Santiago Calatrava Sauerbruch Hutton Stanton Williams HOK architects Murphy/Jahn Dominique Perrault Rogers Stirk Harbour + Partners

Design

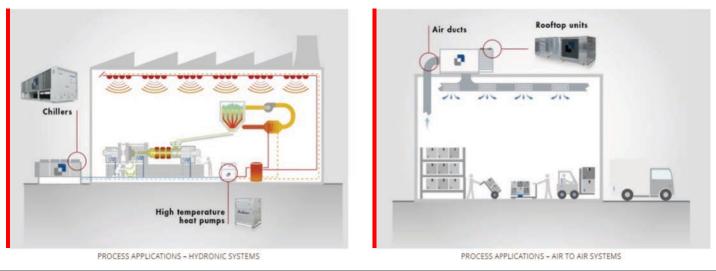
Aurecom Buro Happold Hoare Lea Arup AECOM BSG Cundall Grontmij Meinhardt UK Ltd Flatt Consulting Watkins Payne Partnership Deerns





PROCESS APPLICATIONS

A large array of solutions to provide temperature control of processes (food, pharmaceutical, automotive, plastic moulding, etc.) and ideal storage conditions.





Process: typical applications and examples

AUTOMOTIVE

Volkswagen Plant San Paolo – Brasil Hydronic Systems



MANUFACTURING

Pirelli Settimo Torinese Packaged Units Rooftops

PLASTIC MOULDING



FOOD

Bodega Garzón

Uruguay Chillers + Air Handling Units



PHARMACEUTICAL

Akzo Nobel Chemicals Wurzen – Germania

Hydronic System











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LOGISTIC

Amazon Milan - Italy Centralised system





Process: Some of our business partners

Clients



Automotive: BMW, Opel, Bridgestone, Hella, Husqwarna, Seat, Jaguar, Volkswagen, etc.

Pharmaceutical: Akzo Nobel Chemicals, Bayer, Henkel, LG Chemicals: Merck Serono, etc.





Manufacturing: Unilever, Bosch, SKF, Danfoss, Dupont, EBM Papst, Fuji, etc. **Food Industry:** Coca Cola, Unilever, Eataly, Guinness, etc.





Logistic: Amazon, Inditex, etc.

Inditex,

Energy: Hong Kong Electric, Vestas, Brunei Shell Petroleum, etc.



Wineries: Cantine Antinori, Concha y Toro, Bodega Garzon, Distell, etc. Electronic and Automation: ABB, Magneti Marelli, Bosch, Siemens, etc.



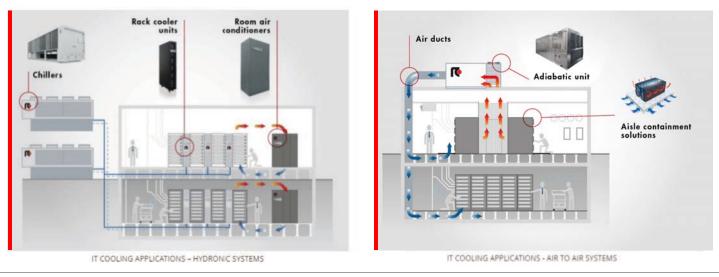






DATA CENTER APPLICATIONS

A large array of solutions and systems to provide precise temperature, humidity control and filtration for ICT data centres and Telecom applications.





IT Cooling: typical applications and examples

TELECOMMUNICATIONS

Bouygues Telecom France HPAC, IT Cooling



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FINANCE

China Construction Bank

China IT Cooling



GOVERNMENT

Ministère de l'intérieur

France Chillers + HPAC, IT Cooling



INTERNET

Galileo connect London London – Great Britain Chillers + HPAC, IT Cooling





IT Cooling: Some of our business partners

Clients



Data Center customers IBM Fastweb Vodafone China Construction Bank Barclays BNP Paribas French Ministry of the Interior German Military Airforce US Air force Telecom customers Hi3G Telefonica Chile Ericsson



Data Center Developers COLT Telecom DeLL Telecity Group













Examples of Relevant Projects











Office buildings



PRINCIPAL PLACE LONDON Great Britain – London





EUSTON ROAD Great Britain – London



Application MIXED-USE DEVELOPMENT

Cooling Capacity: 9243 kW

Heating Capacity: 478 kW Installed Units: 6x TECS2-W/LC 1453 1x FOCS2-W/R/CA-E 1801 Application OFFICE BUILDINGS

Cooling Capacity: 1022 kW

Heating Capacity: 541 kW

Installed Units: 1x ERACS2-Q/SL-CA/S 2222 1x TECS2/SL-CAE/S 0512 1x ClimaPRO



Hotel and Resorts



SHERATON MIRAGE RESORT Gold Coast – Australia



Investor: Sheraton Hotel Group

Application: HOTEL AND RESORTS

Plant type: Hydronic System Cooling capacity: 3000 kW

Installed machines: 2x TECS2, 1x ERACS-W, 1x ClimaPRO Application HOTEL AND RESORTS

HANGZHOU LADISON HOTEL

Cooling Capacity: 1900 kW

Zhejiang - China

Installed Units: 1x Oil free centrifugal chillers

TECS-W5204L-E





No. 149



Tianjing - China

Application MUSEUMS Installed Units: 3x AQS065M-N-E-LT

Cooling Capacity: 200 kW Heating Capacity: 200 kW



FONDAZIONE PRADA Milan - Italy



Application MUSEUM, OFFICE BUILDING

Cooling Capacity: 3.480 kW

Heating Capacity: 3.764 kW

Installed Units: 4x ERACS2/WQ 3202 1x EW-HT 0152 2x NECS-W 0262 1x ClimaPRO

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Hospitals





Shandong - China

Application HEALTHCARE

Cooling capacity: 2900 kW Heating capacity: 3200 kW Heat recovery: 3700 kW

Installed Units: 4x 4-Pipe Air source Screw Heat Pumps

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CSRAN2722-Y-Q



GUSTAVO FRICKE HOSPITAL Viña del Mar - Chile



Application HEALTHCARE

Cooling capacity: 6381 kW Heating capacity: 5711 kW Installed Units: 1x ERACS2-Q/SL-CA 2722, 2x FOCS-N/B 2622, 4x FOCS-N/B 3222, 2x FOCS-N/B 2222, 1x MANAGER 3000



Process cooling - Logistic





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AMAZON LOGISTIC HUB Piacenza - Italy



Application INDUSTRIAL PROCESS

Cooling Capacity: 12101 kW

Installed Units: 8x FX-FC/T 4802, 3x FOCS2/K 2652, 3x FOCS/B/S 1542 Application PROCESS COOLING

Cooling Capacity: 3980 kW

Heating Capacity: 4126 kW Installed Units: 3x ERACS2-Q 3222, 2x FOCS-N/CA 3222, 1x ClimaPRO



ICT Data centers





Application: DATA CENTER

Plant type: Hydronic System

Cooling capacity: 70000 kW

Installed machines: 48x free cooling chillers, 4x heat pumps



WUXI SUPER COMPUTING CENTRE Jiangsu Province - China

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Application: Data Center

Investor: Ministry of Science and Technology Installed machines: 18x TECS-W/H water cooled chillers

Cooling Capacity: 28000 kW (28 MW)

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MITSUBISHI ELECTRIC Changes for the Better

MEM-202112-E