

TURBO series references



Airport Italy





Project: ENAV is the Company to which the Italian State delegates the management and control of civil air traffic in Italy.

Focus: low noise emission, high energy efficiency, high reliability.

Solution: UNICO TURBO FL

UNICO TURBO FL Air cooled liquid chiller with turbo compressors







TURBO COMPRESSOR **Period:** 2013

Application: Airport

End user name: ENAV - Roma, (Italy)

Plant type: Air cooled liquid chiller with oil free centrifugal compressor with magnetic levitation

bearings

Functions ensured by RC Group equipment:

Cooling

Total installed Cooling capacity: 550kW

Installed equipment: nr.1 air cooled liquid chiller

equipped with turbo compressors





CQ113

Data Center Italy





Project: The new Telecom Italia Data Center located in Cesano Maderno increases the Telecom Italia Data Center infrastructure that is now composed by seven physical sites distributed on the national territory to hosts the core functions of the company.

Focus: high energy saving, low noise, reliability

Solution: UNICO TURBO FL



TURBO COMPRESSOR



Period: 2013

Application: Data Center

End user name: TELECOM, Cesano Maderno

(MI) - (Italy)

Plant type: Air cooled liquid chiller equipped with magnetic levitation centrifugal compressors

Functions ensured by RC Group equipment:

Cooling

Total installed Cooling capacity: 1,2 MW **Installed equipment:** nr. 1 x air cooled liquid chiller equipped with magnetic levitation centrifugal compressors





CQ213

Data Center United Kingdom





Project: World's leading financial management and advisory companies, providing financial advice and investment banking services.

Installation description: fully customized CRAC units & chillers supply for U.K. Data Centre & Offices cooling

Solution: MAXIMO SCREW, UNICO TURBO, UNICO SCREW, **NEXT CW**



MAXIMO SCREW Free-cooling chillers





UNICO SCREW Air cooled chillers





UNICO TURBO Air cooled chillers with centrifugal compressors

Period: 2007 - 2010 Application: Data center

End user name: Merrill Lynch – London (U.K.) Plant type: Free cooling, conventional and magnetic levitation centrifugal liquid chillers, chilled water

CRAC units

Total installed Cooling capacity: 30 MW Installed equipments: nr. 3 x air cooled liquid

chillers,

nr.12 x free cooling chillers

nr. 8 x air cooled chillers with magnetic levitation

centrifugal compressors

nr. 90 x chilled water CRAC units





Data Center United Kingdom





Project: International investment bank with presence in all major markets around the world.

Installation description: system conceived for full reliability, high energy saving, low noise cooling of U.K. Data Centre & Offices

Solution: FRIGO TURBO, UNICO SCREW, NEXT CW



NEXT CRAC units



UNICO SCREW
Air cooled chillers



FRIGO TURBO Water cooled chillers with centrifugal compressors

Period: 2009 - 2010
Application: Data center

End user name: Barclays Capital

Plant type: Free cooling, air cooled and magnetic levitation centrifugal liquid chillers, CRAC units
 Total installed Cooling capacity: 16 MW
 Installed equipments: nr. 3 x air cooled liquid chillers,

nr.12 x water cooled chillers with magnetic levitation centrifugal compressors

nr. 3 x air cooled screw chillers nr. 52 x chilled water CRAC units





Hospital Belgium





Project: Aalst hospital is one of the three campus of the **(Algemeen Stedelijk Ziekenhuis)** ASZ Hospital.

The current infrastructure implementation and building renovation will grant efficiency, comfort and modern aesthetics to the building.

Focus: Low noise, High energy efficiency, Reliability

Solution: UNICO TURBO FL



UNICO TURBO FL Air cooled liquid chiller in A

Air cooled liquid chiller in A class energy efficiency with centrifugal compressors







Application: Chillers

End user name: ASZ Hospital, Aalst (Belgium)

Plant type: Cooling

Total installed Cooling capacity: 560kW

Installed equipment: nr.1 x air cooled liquid chillers in "A" class energy efficiency equipped with oil-free centrifugal compressors with magnetic levitation bearings, flooded evaporator and microchannel condensing coil.





CQ114

Hospital Italy





Project: I.C.O.T. (Surgical Orthopaedic Trauma Institute) is known on the national territory for the high technical-scientific level reached by the structure. The six buildings of the hospital grown on a 100.000m² surface with 46.000m² of garden and parking area.

Focus: Low noise, High energy efficiency, Reliability

Solution: UNICO TURBO FL



UNICO TURBO FL

Air cooled liquid chiller in A class energy efficiency with centrifugal compressors







Application: Chillers

End user name: ICOT (ISTITUTO CHIRURGICO ORTOPEDICO TRAUMATOLOGICO), Latina

(Italy)

Plant type: Cooling

Total installed Cooling capacity: 1MW

Installed equipment: nr.2 x air cooled liquid chillers in "A" class energy efficiency equipped with oil-free centrifugal compressors with magnetic levitation bearings, flooded evaporator and microchannel condensing coil.





CQ114

Hospital Poland





Project: cooling plant of 4.8 MW to cool the new Children's Hospital of Medical University of Warsaw.

The main objective in the implementation of the project was to follow the widely variable cooling capacity required by the building at all engine load as efficiently as possible.

Focus: Extremely low noise. High efficiency at partial load.

Reliability.

Solution: UNICO TURBO FL

UNICO TURBO FL Air cooled liquid chiller with turbo compressors







TURBO COMPRESSOR

Period: 2013

Application: Pediatric Hospital

End user name: Children's Hospital of Medical University of Warsaw, Warsaw (**Poland**)

Plant type: Hydronic

Functions ensured by RC Group equipment:

Cooling

Total installed Cooling capacity: 6MW

Installed equipment: nr. 6 air cooled liquid chiller with A class energy efficiency equipped with

turbo compressors





CQ313

Museum Germany





Project: At the heart of the former coal mine, the monumental coalwashing plant provides a new home for the Ruhr Museum.

Focus: large surfaces comfort cooling; high energy efficiency; low

running costs

Solution: UNICO TURBO FL



UNICO TURBO FL Air cooled chiller with centrifugal compressors



Period: 2012

Application: MUSEUM

End user name: RUHR MUSEUM (Germany)Plant type: Central air conditioning hydronic type

Total installed Cooling capacity: 1 MW

Functions ensured by RC Group equipment:

Cooling

Installed equipment: nr. 4 x air cooled chillers with

magnetic levitation centrifugal compressors





CQ412

Office Buildings Belgium





Project: Diamant Brussels is a leading conference centre close to the centre of Brussels with twenty comfortable modular rooms with functional furniture.

Installation description: high energy efficiency of installed units granted by two stage oil-free centrifugal compressor with variable speed and magnetic levitation bearings.

Solution: UNICO TURBO



UNICO TURBO Air cooled chillers

Period: 2011

Application: Comfort

End user name: Diamant, Brussels, Belgium

Plant type: air cooled liquid chiller

Total installed Cooling capacity: 1MW

Installed equipments: nr. 2 x A energy class air cooled liquid chiller equipped with magnetic levitation centrifugal compressors





Office Buildings France





Project: Les Mirons manage a tanning point in the aromecture of La Défense. It is the first office complex of the so-called third generation. Les Miroirs consists of 8 connected parts surrounding a central square. In the middle cylinders decorated by Deverne emerge from a pond located below the buildings.

Focus: high efficiency, reduced CO₂ emission, quiet operation

Solution: FRIGO.TURBO FL





FRIGO TURBO FL Liquid chillers with turbo compressors



Period: 2013

Application: Office buildings

End user name: Tour Miroir, Paris - (France) **Plant type:** water cooled chiller with magnetic

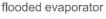
levitation centrifugal compressors

Functions ensured by RC Group equipment:

Comfort Cooling

Total installed Cooling capacity: 1,5 MW

Installed equipment: nr. 3 x water cooled liquid chiller with oil-free centrifugal compressors and







CQ213

Office Buildings Italy





Project: The most important Ericsson Development Research Center in Italy, one of the leading centers for ultra-fast broadband networks.

Installation description: The installed units are the best answer to the need of precise thermo-hygrometric and air purity conditions granting the optimal environment for Ericsson equipments

Solution: NEXT CW, UNICO TURBO



NEXT CRAC units





Period: 2012

Application: Operational building

End user name: Ericsson, Genoa, (Italy)

Plant type: air cooled liquid chillers, chilled water

CRAC units

Total installed Cooling capacity: 1,5MW

Installed equipment: nr.20 x chilled water CRAC

units

nr.1 x A class liquid chiller with magnetic levitation

centrifugal compressor





Office Buildings Italy





Project: Telecom Italia is the largest Italian telecommunications company, also active in the media and manufacturing industries.

Focus: high energy efficiency; energy saving

Solution: UNICO TURBO FL





UNICO TURBO FL Air cooled chiller with centrifugal compressors

> MICROCHANNEL CONDENSING COIL



Period: 2012

Application: Office building

End user name: TELECOM ITALIA (Italy)

Plant type: Central air conditioning hydronic type

Total installed Cooling capacity: 2,2 MW

Functions ensured by RC Group equipment:
Cooling

Installed equipment: nr. 4 x air cooled chillers with

magnetic levitation centrifugal compressors





CQ412

Office Buildings Italy





Project: The Cassa di Risparmio Bank of Venice headquarter, realized by Mr. Pier Luigi Nervi and Mr. Angelo Scattolin is one of the rare examples of big size contemporary architecture located in the historical center of Venice.

Installation description: Air cooled liquid chillers made with weather resistant materials suitable for outdoor installation.

Solution: UNICO TURBO



UNICO TURBOAir cooled chiller with centrifugal compressors

Period: 2011

Application: Operational building

End user name: Cassa di Risparmio di Venezia

Plant type: Air cooled liquid chillers

Total installed Cooling capacity: 800kW

Installed equipments: nr.3 x air cooled liquid chillers with magnetic levitation centrifugal compressor





Office Buildings Luxemburg





Project: Drosbach is one of the largest office and congress centre in Luxemburg. Drosbach offers conference halls meeting rooms, dining halls as well as all necessary facilities for any kind of meeting.

Installation description: very high energy savings with the state of the art in terms of components for high tech liquid chiller machines

Solution: FRIGO TURBO





FRIGO TURBO
Water cooled chillers
with centrifugal
compressors

CQ212

Period: 2012

Application: Comfort

End user name: Indiact, Luxemburg Drosbach

Centre (Luxemburg)

Plant type: water cooled chillers

Total installed Cooling capacity: 1MW

Installed equipment: nr. 2 x water cooled chillers with magnetic levitation centrifugal compressors





Office Buildings

People's Republic of China





Project: The **Shanghai Stock Exchange** is the biggest stock exchange operating in the People's Republic of China and the World's 7th largest stock market by market capitalization.

Focus: Free-cooling, A-class energy efficiency, Low energy consumption, Low noise, High reliability.

Solution: UNICO TURBO FL FREE

INVERTER RC.Hi-Tech









UNICO TURBO FL FREE
Air cooled liquid chillers
with free-cooling system
in "A" class energy
efficiency, equipped with
oil-free centrifugal
compressors with
magnetic levitation
bearings, flooded
evaporator and microchannel condensing coils

Period: 2014

Application: Chillers

End user name: Shanghai Stock Exchange, Shanghai (People's Republic of China)

Plant type: Office building

Total installed Cooling capacity: 3,6MW

Installed equipment: nr.3x Air cooled liquid chillers with free-cooling system in "A" class energy efficiency, equipped with oil-free centrifugal compressors with magnetic levitation bearings.





CQ214

Office Buildings Switzerland





ToniAreal is a crucial part of the plan to breathe new urban life into Zürich West. It features spaces for cultural events, as well as apartments for the Zürich University of the Arts and the Zürich University of Applied Sciences.

Installation description: Frigo Turbo chillers have been supplied for this project to achieve the highest performance ratings, to optimize the power consumption of this building styles.

Solution: FRIGO.TURBO FL 1140







FRIGO TURBO FL Liquid chillers with turbo compressors **Period:** 2012

Application: Operational building

End user name: TONI ALEAR, (Switzerland)

Plant type: water cooled chiller with magnetic

levitation centrifugal compressors

Total installed Cooling capacity: 3,5 MW

Installed equipment: nr. 3 x water cooled chiller with

magnetic levitation centrifugal compressor





CQ312

Office Buildings United Kingdom





Project: U.K. flag carrier airline and second largest measured by passengers carried.

Installation description UNICO TURBO FL

Solution: filling out the request of high efficiency using the magnetic levitation compressor





UNICO TURBO FL
Air cooled chiller with centrifugal compressors

Period: 2012

Application: Operational Building

End user name: British Airways (U.K.)

Plant type: conventional air cooled chillers

Total installed Cooling capacity: 1.5 MW

Installed equipment: nr. 2 x air cooled chillers with magnetic levitation centrifugal compressors





CQ212

Retail Belgium





Project: Located in "Rue Neuve", in the heart of the city of Brussels, City 2, with its 51.000 m², is the largest urban shopping centre in Belgium.

Installation description: large surfaces comfort cooling by technological system focused on energy efficiency and low running costs

Solution: UNICO TURBO

CQ212



UNICO TURBOAir cooled chiller with centrifugal compressors

Period: 2012

Application: Comfort

End user name: COFELY Services

Plant type: shopping centre – Brussels (BELGIUM)

Total installed Cooling capacity: 2,4 MW

Installed equipments: nr. 4 x air cooled chillers with

magnetic levitation centrifugal compressors





Retail Honk Kong





Project: Plaza Hollywood is one of the largest shopping centres in the Diamond Hill area, New Kowloon, Hong Kong. Featuring four floors surrounding a central atrium, its main advertising scheme involves everything similar to Hollywood. It was developed by the Wharf Holdings.

Focus: top yearly energy saving, low noise, reliability

Solution: UNICO TURBO FL



TURBO COMPRESSOR



Period: 2013

Application: Commercial Building

End user name: Atal Building Serv. (Hong Kong)

Plant type: Hydronic system

Total installed Cooling capacity: 1,4 MW

Installed equipment: nr. 2 liquid chillers equipped with centrifugal compressors and flooded evaporator





CQ413

University - Educational

People's Republic of China





Project: Kellet School is a British International School in Hong Kong. It 's situated across two campuses: the Preparatory Section housed at the Pok Fu Lam campus and the Senior Section at the Shau Kei Wan campus.

Focus: high energy efficiency

Solution: UNICO TURBO FL using the magnetic levitation

compressor











Period: 2012

Application: multifunctional complex

End user name: KELLETT SCHOOL (China)

Plant type: air conditioning

Total installed Cooling capacity: 1,7 MW

Functions ensured by RC Group equipment:

Cooling

Installed equipment: nr. 3 x air cooled chillers with magnetic levitation centrifugal compressors





CQ412





Project: Bergakademie is a German university with about 6000 students. The chilled water produced by the RC Group's units is used for cooling numbers of laboratories as well as the data center of the University.

Focus: High energy efficiency at partial load, Low noise, Reliability, EER higher than 7,0

Solution: FRIGO TURBO FL



FRIGO TURBO FL Liquid chillers with turbo compressors

Period: 2013

Application: University

End user name: BERGAKADEMIE, Freiberg University of Mining and Technology, Freiberg,

Saxony (**Germany**) **Plant type**: Hydronic

Functions ensured by RC Group equipment:

Centralized chilled water supply

Total installed Cooling capacity: 800kW

Installed equipment: nr. 2 x water cooled liquid chiller with A class energy efficiency, oil-free centrifugal compressors and flooded evaporator





CQ313





Project: The University of Bonn is one of the world's leading research based Universities founded almost 200 years ago that proudly maintains partnerships with 56 universities in Europe, America, Asia and Australia.

Focus: operating reliability, reduced CO₂ emission, quiet operation

Solution: FRIGO.TURBO FL









Period: 2013

Application: Research laboratory

End user name: BONN UNIVERSITY, Bonn

GERMANY

Plant type: Research laboratory cooling

Functions ensured by RC Group equipment:

Comfort Cooling

Total installed Cooling capacity: 1 MW

Installed equipment: nr. 2 x water cooled liquid chiller with oil-free centrifugal compressors and

flooded evaporator





CQ213





Project: Politecnico in Torino is internationally known as a leading institution in engineering and architecture studies. Politecnico in Torino offers its 32000 students a multicultural study environment and a close relationship with the business.

Focus: High energy savings, Low noise, Reliability

Solution: FRIGO TURBO FL

FRIGO TURBO FL Water cooled liquid chiller in A class energy efficiency with centrifugal compressors









Period: 2014

Application: Chillers

End user name: Politecnico di Torino, Planning, Administration and Finance Area, Torino (**Italy**)

Plant type: Cooling

Total installed Cooling capacity: 1,1 MW

Installed equipment: nr.2 x water cooled liquid chillers in "A" class energy efficiency equipped with oil-free centrifugal compressors with magnetic levitation bearings, flooded evaporator and shell and tube condenser.





CQ213

Telecommunication Sweden





Project: leading provider of premium network independent data centres in Europe

Installation description: the units have been selected to maximize efficiency, to compliment the sustainable development of the whole building on Stockholm 1 & 2 sites Data Centre

Solution: GLIDER FREE, FRIGO TURBO



GLIDER FREE Free-cooling chillers



FRIGO TURBO Water cooled chillers with Period: 2009 - 2011

Application: Data center

End user name: Telecity Group - Stockholm

(SWEDEN)

Plant type: Free cooling chiller, water cooled chiller with magnetic levitation centrifugal compressors

Total installed Cooling capacity: 10 MW

Installed equipments: nr. 7 x free cooling chillers

nr. 1 x water cooled chiller with magnetic levitation centrifugal compressor







Start here! Start with RC Group