

PRODUCTLINE



IL TUO COMFORT SU MISURA
YOUR TAILORED COMFORT





FROST ITALY S.R.L. engineers and develops special units for air conditioning and cooling systems with low environmental impact.

Thanks to 45 years of experience in the HVAC market, we are able to develop innovative and customized solutions to meet specific needs in terms of size, power and temperature.

We are able to serve ALL world-wide markets with hospital applications, plastic industry, agro-food industry, data centers and commercial buildings.

A distinctive characteristic of FROST ITALY is being always oriented towards the customization of the products and solutions we offer.

Most of the machines manufactured in FROST ITALY are not standard but are engineered, designed and built based on the technical specifications of our customers.



REFRIGERANTS

NATURAL REFRIGERANT



HFC
GWP 3
ODP 0
CLASS A3

Refrigerant consisting of naturally occurring hydrocarbon (HC) with excellent thermodynamic properties to be used as a refrigerant.
Highly refined and purified fossil PROPANE fuel.
HIGH FLAMMABILITY- NON-TOXIC – LOCAL RESTRICTIONS

Unit TYPE:
CHILLER
HEAT PUMP
FLEXIBILITY: wide range
from 26,5 a 239,0 kW



The product is compliant with the ErP (Energy-Related-Products). European Directive. It includes the Commission delegated Regulation (EU) No 811/2013 (rated heat output ≤ 70 kW at specified reference conditions) and the Commission delegated Regulation (UE)

ALTERNATIVE REFRIGERANTS

ECOLOGICAL refrigerants with High Efficiency and Economic savings for less compulsory maintenance.
Compliant with European Regulation 2281:2016/Ecodesign LOT21 and requirements 2021



HFO
GWP 7
CLASS A2L

PURE TRANS SUBSTANCE- 1,3,3,3 – TETRAFLUORO-1-PROPENE
LOW GWP
FLAMMABILITY LOW - NO TOXICITY



HFO
GWP 631
CLASS A1

MIXTURE COMPOSED OF R1234YF (56%), R134A (44%)
MEDIUM GWP
VERY LOW FLAMMABILITY - NO TOXICITY



HFCs
GWP 675
CLASS A2L

DIFLOURETHANE MIXTURE, MEDIUM-LONG TERM F-GAS
HFC, PURE SUBSTANCE - MEDIUM GWP
LOW FLAMMABILITY - NO TOXICITY



HFO
GWP 465
CLASS A2L

MIXTURE COMPOSED OF R32 (68,9%), R1234YF (31,1%)
MEDIUM GWP
VERY LOW FLAMMABILITY - GLIDE =1,5°C - NO TOXICITY



HFCs
GWP 1774
CLASS A1

MIXTURE COMPOSED OF R32 (23%), R125 (25%) AND R134A (52%)
HIGH GWP
VERY LOW FLAMMABILITY - NO TOXICITY

Unit TYPE:
CHILLER - HEAT PUMP
AIR-COOLED
WATER-COOLED
SCREW COMPRESSORS
EFFICIENCY: better performance
EER, SEER, COP and SCOP
FLEXIBILITY: wide range
da 91,8 a 1103,6 kW and beyond

Unit TYPE:
CHILLER - HEAT PUMP
AIR-COOLED
WATER-COOLED
SCROLL COMPRESSORS
EFFICIENCY: better performance
EER, SEER, COP and SCOP
FLEXIBILITY: wide range
da 5,3 a 684,0 kW and beyond

CURRENT REFRIGERANTS

Compliant with European Regulation 2281:2016/Ecodesign LOT21 and requirements 2021



HFCs
GWP 2088
CLASS A1

IS A ZEOTROPIC MIXTURE OF DIFLUOREMETHANE (50% R32)
AND PENTAFLUORETHANE (50% R125)
HIGH GWP
VERY LOW FLAMMABILITY - VERY LOW TOXICITY



HFCs
GWP 1430
CLASS A1

FREON ALCHYLIC HALIDE FOR COMPRESSION CYCLES
WITH LOW ENVIRONMENTAL IMPACT
HIGH GWP
VERY LOW FLAMMABILITY - VERY LOW TOXICITY

Unit TYPE:
CHILLER - HEAT PUMP
AIR-COOLED
WATER-COOLED
SCROLL COMPRESSORS

Unit TYPE:
CHILLER - HEAT PUMP
AIR-COOLED
WATER-COOLED
SCREW COMPRESSORS

PRODUCT LINE

PACKAGED LIQUID CHILLER with ALTERNATIVE REFRIGERANTS



NAOS NATURAL R290

26,5 - 86,6 kW

ORION NATURAL R290

108,8 - 239,0 kW

MODULAR AIR-COOLED CHILLER



ECO-NAOS R452B

27,6 - 96,9 kW

ECO-ORION R452B

109,6 - 635,0 kW

ECO-ORION R1234ze

91,8 - 967,3 kW

MODULAR AIR-COOLED CHILLER



ECO-ERIS R452B

30,4 - 344,0 kW

ECO-HYDRA R1234ze

204,7 - 1085,0 kW

WATER TO WATER CHILLER AND HEAT PUMPS



PACKAGED LIQUID CHILLER



SIAL R410A

5,3 - 14,2 kW

NAOS R410A

20,6 - 106,2 kW

AIR-COOLED CHILLER AND HEAT PUMP UNITS



ORION R410A

110,8 - 684,0 kW

ORION R134a

166,8 - 1103,6 kW

MODULAR AIR-COOLED CHILLER



ERIS W R410A

5,5 - 199,4 kW

HYDRA W R134a

257,2 - 1001,3 kW

WATER TO WATER CHILLER AND HEAT PUMPS

ERIS LC R410A

5,3 - 320,0 kW

HYDRA LC R134a

384,0 - 666,0 kW

CONDENSERLESS UNITS WITH REMOTE CONDENSER



HYDRONIC HEAT PUMP UNITS

OMNIREC R410A

8,0 - 177,2 kW

MULTI AIR TO WATER HEAT PUMP



ERIS GEO SAN R410A

9,0 - 62,2 kW

WATER TO WATER UNIT FOR GEOTHERMAL APPLICATION



PRODUCT LINE

PACKAGED UNITS

MIRAC R410A

9,1 - 170,0 kW
ROOF TOP
6,3 - 99,6 kW
WATER COOLED ROOM TOP
9,1 - 170,0 kW
ROOF TOP WITH COMBUSTION CHAMBER



ULYSSE R410A

400 - 6000 m3/h
HEAT RECOVERY UNITS



BOREA R410A

12,6 - 89,5 kW
COMPACT VERTICAL CLOSE CONTROL UNIT,
AIR OR WATER COOLED



SIAL B - NAOS B R410A

5,3 - 71,7 kW
AIR TO WATER UNIT WITH BOILER



UP

0,5 - 11,0 kW
PUMPING STATIONS WITH WATER STORAGE TANK



HYDRONIC TERMINAL UNITS

STARK

2,22 - 7,86 kW
2/4 PIPES VERSION
WATER CASSETTES, EC MOTOR



DIRECT EXPANSION UNITS

ERIS DX R410A

3,2 - 8,2 kW
DIRECT EXPANSION WATER-COOLED HEAT PUMP UNIT



UCW

15,6 - 122,4 kW
DRY COOLERS



UCR R410A

16,3 - 1408,0 kW
AIR-COOLED REMOTE CONDENSER
EVAPORATING VERSION

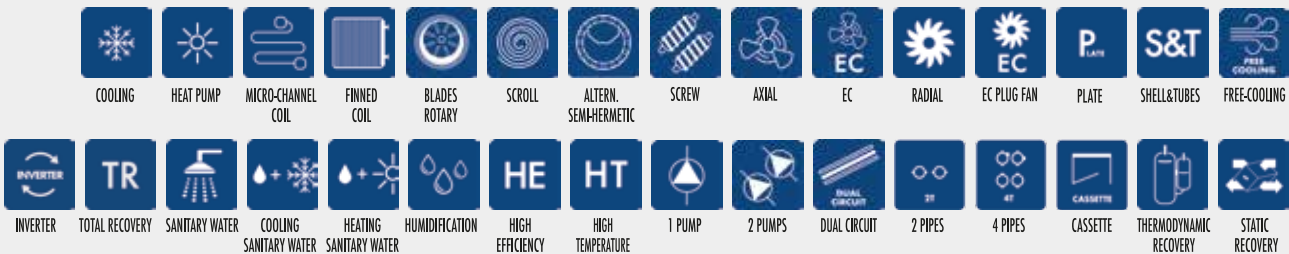


SIRIO R410A

5,3 - 160,0 kW
AIR-COOLED CONDENSING UNITS



LEGEND



ORDERS EXECUTED

IL TUO COMFORT SU MISURA
YOUR TAILORED COMFORT



HYDRA WR-V 730

SCREW COMPRESSORS, WATER TO WATER CHILLER UNIT
WITH WATER-SIDE REVERSAL CYCLE, BACNET CAREL



ORION VR-MC 200.2

MODULAR AIR-COOLED CHILLER
SCREW COMPRESSOR
INTEGRATED HYDRAULIC KIT
(STORAGE TANK 300 L WITH PUMP)



ORION R-MC 670.6 BT

MODULAR AIR-COOLED CHILLER
SEMI-HERMETIC ALTERNATIVE COMPRESSORS,
DOUBLE CIRCUIT (1 WITH 4 COMPRESSORS, 1 WITH 6
COMPRESSORS), OPERATING LOW WATER TEMPERATURE KIT



ORION R-MC 270.2 BT

MODULAR AIR-COOLED CHILLER
SEMI-HERMETIC ALTERNATIVE COMPRESSORS,
DOUBLE CIRCUIT, OPERATING LOW WATER TEMPERATURE KIT



CUSTOMIZED PRODUCTS

- Special and customized dimensions
- Low / very-low noise level
- Water / glicole temperature < -20° glycol
- Alternative voltage and frequency (ie. 380V/60Hz)
- Structure and panels manufactured with high efficiency materials o high quality material
- Winter configurations dedicated to severely cold ambient conditions (-40°)
- Summer configurations dedicated to severely warm ambient conditions (+55°)
- Idraulic systems including pressure pumps and expansion valves
- Customized design available for special purposes: industrial processes, marine and submarine applications
- Anti corrosion treatment

PUT US TO TEST THE BY INVOLVING US RIGHT SINCE THE DESIGN PHASE, WE WILL PUT YOU IN THE POSITION TO DEFINE THE WINNING CHOICE THAT OFFERS THE PERFECT BALANCE BETWEEN PERFORMANCE AND COSTS.



TESTING ROOMS

The strong attitude to innovation of FROST ITALY S.R.L., lead to the implementation of a testing lab, which allows to test the manufactured units at the most stringent conditions required by the customer.

- Test room powered by district heating and renewable energy
- Test report software
- Simulations of real environmental conditions of the installation site
- Possibility for the customer to attend the test



DISTRICT HEATING - RENEWABLE ENERGY - CLEAN - SAFETY

FROST ITALY is also available to perform a final inspection of the equipment with the presence of the customer for the fine-tuning of the equipment.





Frost Italy S.r.l.

Via Lago di Trasimeno, 46 - int. 1

Zona Industriale - 36015 Schio (VI) Italy

Tel. +39 0445 576772 - Fax +39 0445 576775

www.frostitaly.it - e-mail: frostitaly@frostitaly.it