

PROFROID

PRODUCTS CATALOG



Here for You.

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Our mission

Founded in 1961, Profroid® is a leading European manufacturer of refrigeration equipment, providing a complete offering of condensing units, racks and heat exchangers.

Focused on engineering expertise and commercial responsiveness, Profroid provides innovative, energy efficient and sustainable solutions for commercial and industrial refrigeration applications.

Profroid is part of Carrier, a world leader in heating, air-conditioning and refrigeration solutions. Carrier is a part of UTC Climate, Controls & Security, a unit of United Technologies Corp., a leading provider to the aerospace and building systems industries worldwide.

Thanks to this exceptional environment, we operate across the entire cold chain, from farm to fork, over the oceans and roads to supermarkets, restaurants and now even your home.

Our founder, Willis Carrier, pioneered refrigeration innovation by inventing the world's first air conditioning system in 1902.

For more information, visit www.profroid.com.



Our commitments

Here For You.

Based in the South of France for over 60 years now, we aspire to be “here for you” wherever you are.

Whenever you need us, we provide you with best-in-class service by continuously improving our commercial responsiveness.

We focus our efforts on transforming our refrigeration expertise into innovative industry-leading technology solutions, such as modulating ejectors that enhance the efficiency of our transcritical CO₂ systems. We are a leader in the transition from HFCs to CO₂, including the use of CO₂ refrigerant in higher ambient temperatures.

We are also here to offer you one-stop-shopping solutions with a wide range of customization options including compact and quiet condensing units, and reliable and energy efficient racks with a broad range of cooling capacities for any climate, and heat exchangers (gas coolers, condensers, evaporators).

We are focused on providing you high quality products, based on quality tests, performance certifications (CE and PED) and compliance to regulations (F-Gas) with a competitive lead time.

Environmental Sustainability



In the context of mitigating climate change, preserving environmental resources has become our main priority. Therefore, we focus on providing the best refrigerant solution for each system, with a special focus on natural refrigerants:

- Repurposed CO₂ which emits no additional greenhouse gases from refrigerant use and is not affected by the EU F-Gas Regulation. CO₂ refrigerant has a global warming potential (GWP) of one and an ozone depletion potential (ODP) of zero.
- Ammonia (NH₃) is an environmentally balanced refrigerant, with a GWP and ODP of zero. Moreover, ammonia offers high energy efficiency for most standard installations due to excellent heat transfer characteristics.



Energy Savings

At Profroid, all of our small, medium and large compact condensing units are Ecodesign compliant, enhancing performance and significantly reducing energy consumption, whatever the application.

To fit with the requirements of supermarkets, warehouses and process cooling applications, we also designed enhanced-efficiency transcritical CO₂ systems with patented modulating ejector technology, which adjusts to capacity variations.

In order to maximize energy-savings, this smart solution can also run as a flooded system and can be combined with optional air conditioning and heating functionality.

Solutions for various types of applications

RETAIL STORES



- Food retail C-stores
- Medium & large supermarkets
- Hard discounters

RECOMMENDED PRODUCTS



- Refrigeration power packs: MiniCO₂OL Compact



- Air-cooled condensers: Alto



- Air coolers: CAN/CAB/CAE Evolution

COLD STORAGE



- Warehouses
- Cold rooms

DEDICATED SYSTEMS



- Refrigeration power packs: CO₂OLtecEvo



- Air-cooled condensers: Tenor



- Air coolers: SoloCO₂OL

FOOD SERVICE



- Restaurants
- Catering
- Petrol stations
- Large kitchens

SPECIFIC SOLUTIONS

- Packaged condensing units: QuietCO₂OL



- Quietor Evolution



- Air coolers: DFC Evolution

INDUSTRY



- Process cooling

EFFICIENT UNITS



- Packaged condensing units: GC5, GC6



- Air-cooled condensers: Alto



- Air coolers: QFC/QFR

0 10 30 70 150 300 600 1200 2000 kW LT/MT



Our solutions

CO₂

Rack Units

- MiniCO₂OL[®] Compact 12
- CO₂OLtec[®] EVO 13
- FlexiCO₂OL[®] 14
- CombiCO₂OL[®] 15

Packaged Condensing Units

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- GC5 CO₂ 17
- GC5 Hybrid 18

Gas Coolers

- Soprano[®] CO₂ 19
- Alto CO₂ 20
- Tenor[®] CO₂ 21

Air Coolers

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- BP/BN Evolution CO₂ 23
- CAN/CAB Evolution CO₂ 24
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NH₃

Rack Units

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- Direct expansion 29
- Double-stage system 29
- Pump dispensing system 29

HFC/HFO

Rack Units

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Bare Units

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Packaged Condensing Units

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Air-Cooled Condensers

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- Tenor[®] 52
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Air Coolers

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- QFC/QFR 62



CO₂

Rack Units

- MiniCO₂OL[®] Compact 12
- CO₂OLtec[®] EVO 13
- FlexiCO₂OL[®] 14
- CombiCO₂OL[®] 15

Packaged Condensing Units

- QuietCO₂OL 16
- GC5 CO₂ 17
- GC5 Hybrid 18

Gas Coolers

- Soprano[®] CO₂ 19
- Alto CO₂ 20
- Tenor[®] CO₂ 21

Air Coolers

- SoloCO₂OL[®] 22
- BP/BN Evolution CO₂ 23
- CAN/CAB Evolution CO₂ 24
- DFC Evolution CO₂ 25

MiniCO₂OL[®] Compact

Transcritical CO₂ booster rack for medium and low temperature applications

- Compact unit for indoor installation
- Designed for small to large store formats
- Single or dual temperature range
- Semi-hermetic compressors
- Integrated electrical control panel incorporating rack and gas cooler controls
- Variable speed drive for primary compressor
- Uses natural refrigerant CO₂
- Optional parallel compression (ECO compressor)
- Optional outdoor housing with built-on gas cooler
- Variety of options available
- Design PS:
 - LT Suction: 30 bars
 - MT Suction: 45 bars
 - Liquid receiver: 45 bars
 - Gas cooler discharge: 120 bars




MINICO ₂ OL [®] COMPACT	MT application	LT application
No. of compressors	2 – 6	0 – 4
Refrigeration capacity	20 – 380 kW	2 – 110 kW
Refrigerant	R744	

Evaporating temp. MT -8°C/LT -35°C; ambient temperature = 32°C

CO₂OLtec[®] Evo

Transcritical CO₂ ejector rack and high-efficiency skid for medium and low temperature applications

- High-efficiency CO₂ solution for all climates
- Includes advanced modulating vapor ejector technology
- Designed for small to large store formats, for indoor installation
- Single or dual temperature range
- Semi-hermetic compressors
- Integrated electrical control panel incorporating controls for rack, high-efficiency skid and gas cooler
- Variable speed drive for primary compressor
- Uses natural refrigerant CO₂
- Variety of options available to further improve efficiency in all climates
- Design PS:
 - LT Suction: 30 bars
 - MT Suction: 52 bars
 - Liquid receiver: 52 bars
 - Gas cooler discharge: 120 bars




CO ₂ OLTEC [®] EVO	MT application	LT application
No. of compressors	2 – 6	0 – 4
Refrigeration capacity	40 – 480 kW	2 – 95 kW
Refrigerant	R744	

Evaporating temp. MT -4°C/LT -35°C; ambient temperature = 36°C

FlexiCO₂OL[®]

R134a/CO₂ cascade compressor rack for medium and low temperature applications

- Indoor installation
- Designed for supermarkets and hypermarkets
- Single or dual temperature range
- Semi-hermetic compressors
- Integrated electrical control panel with controller and condenser control
- Uses natural refrigerant CO₂ for low temperature
- CO₂ refrigerant receiver with liquid line
- Cascade heat exchanger
- Variety of options available
- Design PS:
 - LT Suction: 30 bars
 - LT Discharge: 45 bars
 - MT Suction: 17 bars
 - MT Discharge: 19 bars



FLEXICO ₂ OL [®]	MT application	LT application
No. of compressors	3 – 6	2 – 4
Refrigeration capacity	29 – 279 kW	9 – 171 kW
Refrigerant	R134a	R744

Evaporating temp. /condensing temp.: MT -8°C/45°C; LT -35°C/-10°C

CombiCO₂OL[®]

Hybrid cascade stacked refrigeration rack combining a CO₂ LT rack running as a cascade and a R134a MT rack.

- Adapted for supermarkets and hypermarkets
- Designed for large capacity refrigeration
- Indoor installation
- Single or dual temperature range
- Latest generation of Octagon[®] CO₂ SL and Ecoline R134a compressors for an optimized Coefficient of Performance (COP)
- Cascade heat exchanger
- Uses natural refrigerant CO₂ for low temperature
- Integrated CO₂ refrigerant receiver
- Easy installation and maintenance
- Stacked compressors for space saving
- Integrated electrical cabinet as standard with a regulator par rack
- Variety of options available
- Design PS:
 - LT Suction: 30 bars
 - LT Discharge: 45 bars
 - MT Suction: 17 bars
 - MT Discharge: 19 bars



COMBICO ₂ OL [®]	MT application	LT application
No. of compressors	2 – 4	1 – 3
Refrigeration capacity	24 – 125 kW	2 – 33 kW
Refrigerant	R134a	R744

Evaporating temp.: MT -8°C/LT -35°C ; Ambient temp. = 32°C



QuietCO₂OL

Packaged refrigeration unit for medium and low temperature applications

- Small size unit for outdoor application
- Designed for small store formats and store extensions
- Saves indoor space
- Single temperature range
- Hermetic compressor
- Integrated electrical control panel with controller
- Integrated gas cooler and medium pressure receiver
- Optional liquid cooled gas cooler
- Uses natural refrigerant CO₂
- Removable side panels for easy maintenance access
- Variety of options available
- Design PS:
 - LT Suction: 80 bars
 - MT Suction: 80 bars
 - Liquid receiver: 80 bars
 - Gas cooler discharge: 120 bars

QuietCOOL

QuietCO ₂ OL®	MT application	LT application
No. of compressors	1	
Refrigeration capacity	0,8 – 9,1 kW	0,7 – 6,5 kW
Refrigerant	R744	

Evaporating temp. MT -8°C/LT -32°C; ambient temperature = 32°C



GC5 CO₂

Transcritical CO₂ Booster rack for medium and low temperature applications

- Outdoor unit for large cooling capacities
- Can be customized to suit customer requirements
- Saves indoor space
- Single or dual temperature range
- Semi-hermetic compressors
- Integrated electrical control panel with controller
- Integrated gas cooler and medium pressure receiver
- Uses natural refrigerant CO₂
- Walk-in housing
- Design PS:
 - LT Suction: 30 bars
 - MT Suction: 45 bars
 - Liquid receiver: 45 bars
 - Gas cooler discharge: 120 bars



GC5 CO ₂ ®	MT application	LT application
No. of compressors	3	
Refrigeration capacity	60 – 380 kW	8 – 170 kW
Refrigerant	R744	

Evaporating temp. MT -8°C/LT -35°C; ambient temperature = 32°C



GC5 Hybrid

Packaged refrigeration unit for medium and low temperature applications

- Outdoor unit for large cooling capacities
- Can be customized to suit customer requirements
- Saves indoor space
- Dual temperature range
- Semi-hermetic compressors
- Integrated electrical control panel with controller
- Integrated gas cooler and medium pressure receiver
- Uses natural refrigerant CO₂ for low temperature
- Walk-in housing
- Design PS:
 - LT Suction: 30 bars
 - LT Discharge: 45 bars
 - MT Suction: 17 bars
 - MT Discharge: 19 bars



HybridCOOL₂

GC5 HYBRID	MT application	LT application
No. of compressors	3 – 6	2 – 4
Refrigeration capacity	29 – 279 kW	9 – 171 kW
Refrigerant	R134a	R744



Soprano[®] CO₂

Air-cooled gas cooler for commercial and industrial refrigeration and air-conditioning applications

- Small to medium-sized capacities
- Outdoor application
- Single or double row design
- Vertical or horizontal airflow
- Robust casing
- High-efficiency EC fans and motors
- Modbus control for EC fans
- Uses natural refrigerant CO₂
- Energy savings and reduction of CO₂ emissions due to EC technology
- Compliant with ErP Directive
- Undergoing EUROVENT approval (new EUROVENT 2017 program)
- Design PS: 120 bars



SOPRANO [®] CO ₂	
No. of fans	1 – 6
Capacity	7 – 300 kW
Refrigerant	R744

Air temp. = 32°C; gas cooler temp. out = 34°C

Alto CO₂

Air-cooled condenser for commercial and industrial refrigeration and air-conditioning applications

- Small to medium-sized capacities
- Outdoor installation
- Single or double row design
- Vertical or horizontal airflow
- Robust casing
- High-efficiency EC fans and motors
- Modbus control for EC fans
- Uses natural refrigerant CO₂
- Energy savings and reduction of CO₂ emissions due to EC technology
- Compliant with ErP Directive
- Undergoing EUROVENT approval (new EUROVENT 2017 program)
- Design PS: 120 bars



ALTO CO ₂	
No. of fans	1 – 10
Capacity	23 – 840 kW
Refrigerant	R744

Air temp. = 32°C; gas cooler temp. out = 34°C

Tenor[®] CO₂

Air-cooled gas cooler for commercial and industrial refrigeration and air-conditioning applications

- Large capacities
- Outdoor installation
- Single or double row design
- Vertical airflow
- Robust casing
- High-efficiency EC fans and motors
- Reduced footprint due to V-shaped configuration
- Modbus control for EC fans
- Uses natural refrigerant CO₂
- Energy savings and reduction of CO₂ emissions due to EC technology
- Compliant with ErP Directive
- Undergoing EUROVENT approval (new EUROVENT 2017 program)
- Design PS: 120 bars



TENOR [®] CO ₂	
No. of fans	2 – 12
Capacity	64 – 1002 kW
Refrigerant	R744

Air temp. = 32°C; gas cooler temp. out = 34°C

SoloCO₂OL[®]

Industrial air cooler for large capacity low temperature applications

- Ceiling-mounted cubic air cooler
- Designed for large capacity refrigeration, storage and freezing applications
- Easy to install and maintain
- Coolers delivered in mounting position (with drain pan)
- Finned coil with smooth copper tubes and aluminium fins
- Wired fans with quick connectors and wired heaters
- Variety of options available
- Uses natural refrigerant CO₂
- Compliant with ErP Directive
- Undergoing EUROVENT approval (new EUROVENT 2017 program)
- Design PS: 30 bars




SOLOCO ₂ OL [®]	
No. of fans	1 – 4
Capacity	4 – 111 kW
Refrigerant	R744

Fluid = R744; inlet air temp./evaporating temp.: LT = -18°C/-25°C

BP/BN Evolution CO₂

Air cooler for medium and low temperature applications

- Compact, ceiling-mounted air cooler
- Designed for refrigerated display cases and small cold rooms
- Axial fans
- Finned coil with smooth copper tubes and aluminium fins
- Uses natural refrigerant CO₂
- Variety of options available
- Compliant with ErP Directive
- Undergoing EUROVENT approval (new EUROVENT 2017 program)
- Design PS: 80 bars



BP/BN EVOLUTION CO ₂	MT application	LT application
No. of fans	1 – 4	2 – 3
Capacity	1 – 4 kW	1 – 2 kW
Refrigerant	R744	

Fluid = R744; inlet air temp./evaporating temp.: MT = 0°C/-8°C; LT = -18°C/-25°C

CAN/CAB Evolution CO₂

Air cooler for medium and low temperature applications

- Ceiling-mounted cubic air cooler
- Designed for all types of cold rooms from small to medium capacities
- Large variety of dimensions, fin spacings and air flow configurations to suit cold room requirements
- Direct drive axial propeller fans
- Finned coil with copper tubes and aluminium fins
- Casing complete with doors and pivoting pan
- Uses natural refrigerant CO₂
- Variety of options available
- Compliant with ErP Directive
- Undergoing EUROVENT approval (new EUROVENT 2017 program)
- Design PS: 80 bars



CAN/CAB EVOLUTION CO ₂	MT application	LT application
No. of fans	1 – 6	
Capacity	2 – 14 kW	1 – 10 kW
Refrigerant	R744	

Fluid = R744; inlet air temp./evaporating temp.: MT = 0°C/-8°C; LT = - 18°C/-25°C

DFC Evolution CO₂

Air cooler for medium and high temperature applications

- Ceiling-mounted dual-discharge air cooler
- Designed for working areas, such as preparation rooms
- Low air speed for occupied areas
- Axial fans, configured for optimal air flow
- Comfortable sound level
- Finned coils with smooth copper tubes and aluminium fins
- Uses natural refrigerant CO₂
- Specially designed casing for easy cleaning and maintenance access
- Variety of options available
- Compliant with ErP Directive
- Undergoing EUROVENT approval (new EUROVENT 2017 program)
- Design PS: 80 bars



DFC EVOLUTION CO ₂	
No. of fans	1 – 5
Capacity	2 – 14 kW
Refrigerant	R744

Fluid = R744; inlet air temp./evaporating temp.: MT = 10°C/0°C;



NH₃

Rack Units

- Flooded / Secondary coolant systems 28
- NH₃ / CO₂ Cascade 28
- Direct expansion 29
- Double-stage system 29
- Pump dispensing system 29



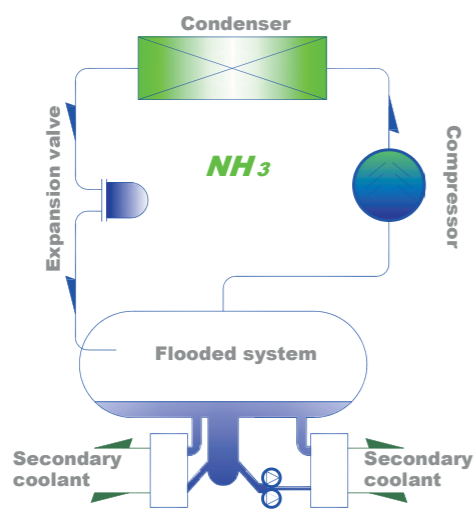
NH₃ Rack Units

Flooded / Secondary coolant systems

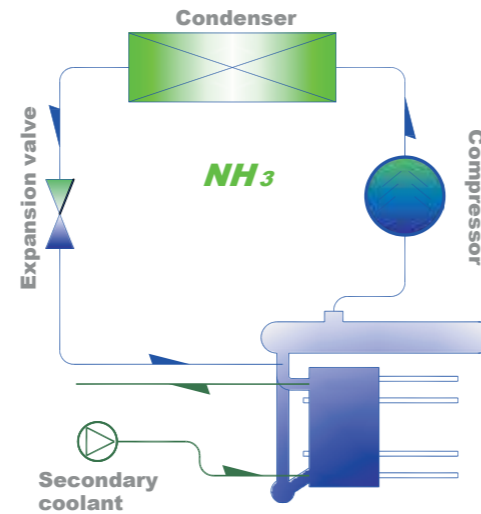
Installation requiring a low NH₃ charge that is confined to the machine room

- Reduced risk of direct contact with ammonia
- Secondary coolant adapted to any type of temperature (MEG, MPG, Temper, etc.)
- Available with food grade fluid
- Easy maintenance

Two flooded systems available:



Traditional low pressure cylinders (LP)

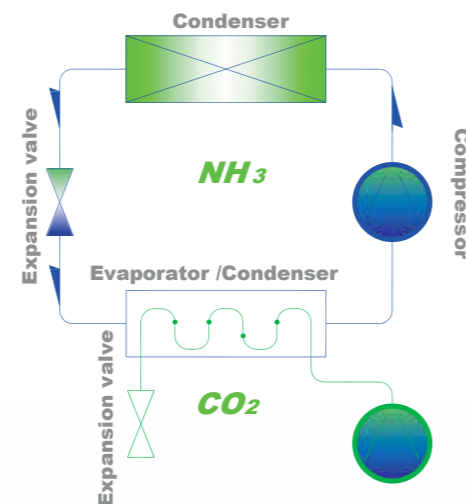


Optional U-Turn liquid separator from Alfa Laval
 → Minimum pressure drop losses and maximum energy efficiency

NH₃ / CO₂ Cascade

The environmentally balanced solution

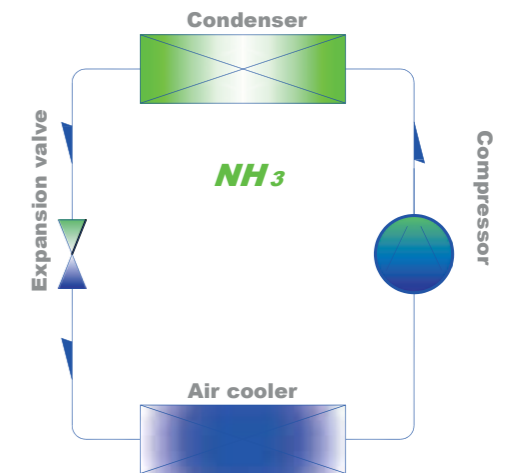
- For LT applications, cascade solution with a CO₂ compressor
- For MT applications, use of a CO₂ liquefier (without a CO₂ compressor)



Direct expansion

The cost-effective solution for small and medium capacity requirements

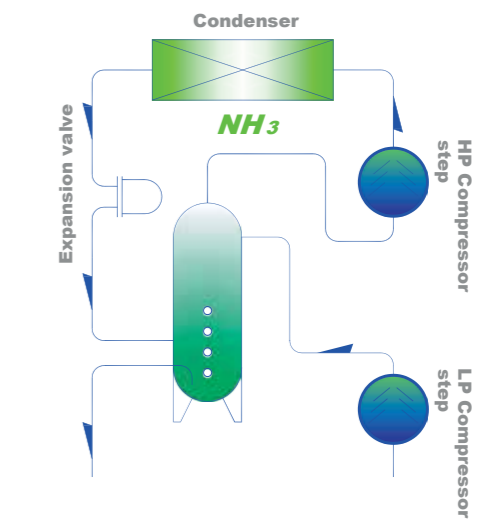
- Compact unit with reciprocating compressors (optional semi-hermetic version)
- Reduced risk of leakage through rotating gaskets
- Simplification of oil return (optional NH₃ miscible oil)



Double-stage system

Especially adapted for food processing and blast cooling tunnels

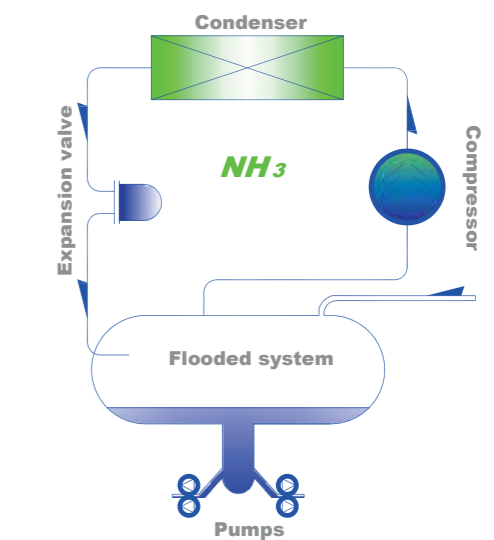
- Enhanced equipment durability:
 - Lower mechanical strains due to divided compression rates
 - Reduced discharge temperature
- Improved capacity control through several compressor steps



Pumped dispensing system

Solution for freezer tunnels requiring CO₂ or NH₃

- Pump dispensing for NH₃ or CO₂



AMMONIA RACKS	MT application	LT application
Refrigeration capacity	50 – 2000 kW	20 – 600 kW
Refrigerant	R717	



HFC/HFO

Rack Units

■ CCR H/CCB HL [®]	32
■ CKR SH/CKB SH [®]	33
■ CCR SH/CCB SH [®]	34

Bare Units

■ GRS	35
■ GSB/GSB SH	36
■ GF/GFB	37
■ GFS	38

Packaged Condensing Units

■ Minicold Compact	39
■ Minicold Split	40
■ Supercold SH/Scroll	41
■ Quietis [®]	42
■ Quietis [®] G (centrifugal)	43
■ Quietor [®] City (centrifugal)	44
■ Quietor [®] SH	45
■ Quietor [®] Evolution	46
■ GCV SH/Scroll	47
■ GC	48
■ GC5	49

Air-Cooled Condensers

■ Adagio	50
■ Alto	51
■ Tenor [®]	52
■ Sirocco (centrifugal)	53

Fluid Coolers

■ Adagio fluid cooler	54
■ Alto fluid cooler	55
■ Tenor [®] fluid cooler	56

Air Coolers

■ BP/BN Evolution	57
■ CAN/CAB Evolution	58
■ SOLO	59
■ DFC Evolution	60
■ DUO Evolution	61
■ QFC/QFR	62

CCR H/CCB HL

Compressor pack system for medium and low temperatures

- Hermetic scroll compressors
- Indoor installation
- Designed for supermarkets
- Single or dual temperature range
- Refrigerant receiver with liquid line
- Variety of options available



CCR H - CCB H	MT application	LT application
No. of compressors	2 - 4	2 - 4
Refrigeration capacity	6 - 101 kW	3 - 36 kW
Refrigerant	R404A	R404A

Performance data with R404A, 20K superheat

CKR SH/CKB SH

Compressor pack system for medium and low temperatures

- Semi-hermetic Ecoline compressors
- Indoor installation
- Designed for supermarkets
- Single or dual temperature range
- Refrigerant receiver with liquid line
- Variety of options available



CKR SH - CKB SH	MT application	LT application
No. of compressors	2 - 4	2 - 4
Refrigeration capacity	22 - 110 kW	7 - 30 kW
Refrigerant	R404A	R404A

Performance data with R404A, 20K superheat



CCR SH/CCB SH

Compressor pack system for medium and low temperatures

- Semi-hermetic Ecoline compressors
- Indoor installation
- Designed for supermarkets and hypermarkets
- Single or dual temperature range
- Refrigerant receiver with liquid line
- Variety of options available



CCR SH - CCB SH	MT application	LT application
No. of compressors	2 – 6	2 – 5
Refrigeration capacity	R404A/R407F: 63 - 190 kW R134a: 38 – 114 kW	21 – 140 kW
Refrigerant	R134a, R404A, R407F	R404A, R407F



GRS

Compressor receiver set for medium and low temperature applications

- Ideal for indoor installation
- Designed for a single cooling application
- Hermetic scroll compressor
- Liquid injection system for low temperature models
- Refrigerant receiver
- Easy handling and installation
- Variety of options available



GRS	MT application	LT application
No. of compressors	1	
Refrigeration capacity	2 – 70 kW	0 – 31 kW
Refrigerant	R404A, R507	

Performance data with R404A, 20K superheat

GSB/GSB SH

Compressor receiver set for medium and low temperature applications

- Space saving design for indoor installation
- Designed for a small cooling capacity application
- Semi-hermetic compressor
- Compressor cylinder head cooling fans (depending on model)
- Refrigerant receiver positioned below compressor
- Easy handling and installation
- Variety of options available



GSB/GSB SH	MT application	LT application
No. of compressors	1	1
Refrigeration capacity	2 – 108 kW	0 – 43 kW
Refrigerant	R404A, R507	

R404A to = -10°C; tc = 45°C; 20K superheat

GF/GFB

Air-cooled condensing unit for medium and low temperature applications

- Space saving design for indoor installation
- Designed for a small cooling capacity application
- Semi-hermetic compressor
- Compressor cylinder head cooling fans (depending on model)
- Condenser mounted and connected
- Refrigerant receiver mounted and connected
- Easy handling and installation
- Variety of options available



GF/GFB	MT application	LT application
No. of compressors	1	
Refrigeration capacity	2 – 70 kW	0 – 31 kW
Refrigerant	R404A, R507	

R404A to = -10°C; ambient temperature = 32°C; 10K superheat

GFS

Air-cooled condensing unit for medium and low temperature applications

- Hermetic scroll compressor
- Space saving design for indoor installation or under shelter from the weather
- Designed for a small cooling capacity application
- Coil with copper tubes and aluminium fins
- Cylinder head cooling fan (depending on the model)
- Easy installation
- Variety of options available



GFS	MT application	LT application
No. of compressors	1	
Refrigeration capacity	5 – 17 kW	1 – 6 kW
Refrigerant	R404A	

R404A to= -10°C; tc= 45°C; Superheat = 20°C

Minicold Compact

Packaged refrigeration unit for medium and low temperature applications

- Self-contained monoblock unit with integrated air cooler
- Designed for small cold rooms
- Quick and easy installation on cold room wall
- Hermetic compressor
- Integrated electrical control panel
- Power switch, indicator light, digital display and temperature alarm
- Removable high capacity condensate evaporating system
- Variety of options available



MINICOLD COMPACT	MT application	LT application
No. of compressors	1	1
No. of evaporator fans	1 – 2	
Refrigeration capacity	0 – 4 kW	0 – 3 kW
Refrigerant	R404A	

R404A, cold room temp. MT +0°C/LT -25°C; ambient temperature = 32°C



Minicold Split

Split refrigeration unit for medium and low temperature applications

- Split unit with ceiling-mounted air cooler and condensing unit for outdoor installation
- Designed for low temperature freezer rooms and medium temperature chiller rooms
- Version available for wine cellar
- Available also as separate condensing unit
- Hermetic compressor
- Remote electrical control panel for wall mounting
- Controller manages compressor, fans, temperature alarm and lighting
- Variety of options available



MINICOLD SPLIT	MT application	LT application
No. of compressors	1	1
No. of evaporator fans	1 – 2	
Refrigeration capacity	0 – 10 kW	0 – 5 kW
Refrigerant	R404A	

R404A, cold room temp. MT +0°C/LT -25°C; ambient temperature = 32°C



Supercold SH/Scroll

Split refrigeration unit for medium and low temperature applications

- Split unit with ceiling-mounted air cooler and condensing unit for outdoor installation
- Designed for low temperature and medium temperature cold rooms
- Available also as a separate condensing unit
- Hermetic scroll compressor or semi-hermetic compressor
- Integrated electrical control panel
- Variety of options available



SUPERCOLD SH/SCROLL	MT application	LT application
No. of compressors	1	1
No. of evaporator fans	1 – 3	
Refrigeration capacity	2 – 55 kW	0 – 31 kW
Refrigerant	R404A/R507	

R404A, cold room temp. MT +0°C/LT -25°C; ambient temperature = 32°C



Quietis®

Air-cooled condensing unit for medium and low temperature applications

- Compact design for outdoor installation
- Designed for cold room or display cabinet applications
- Low sound level
- Hermetic reciprocating compressors
- Integrated control box, all components factory wired
- Removable compressor compartment and top panels for easy maintenance access
- Wall mounting kit for single fan models
- Variety of options available



QUIETIS®	MT application	LT application
No. of compressors	1 – 2	
Refrigeration capacity	0 – 18 kW	0 – 8 kW
Refrigerant	R134a, R404A	

R404A, evaporating temp. MT -10°C/LT -35°C; ambient temperature = 32°C



Quietis® G (centrifugal)

Indoor air-cooled condensing unit for medium and low temperature applications

- Compact design for indoor installation
- Designed for cold room or display cabinet applications
- Centrifugal fans with 180/250 Pa available static pressure for air duct connection
- Low sound level
- Hermetic reciprocating compressors or scroll compressors
- Outdoor version available
- Integrated control box, all components factory wired
- Removable compressor compartment and top panels for easy maintenance access
- Wall mounting kit for single fan models
- Variety of options available



QUIETIS® G (CENTRIFUGAL)	MT application	LT application
No. of compressors	1	1
Refrigeration capacity	0 – 18 kW	0 – 8 kW
Refrigerant	R134a, R404A	

R404A, evaporating temp. MT -10°C/LT -35°C; ambient temperature = 32°C



Quietor[®] City (centrifugal)

Indoor air-cooled condensing unit for medium and low temperature applications

- Compact design for indoor installation
- Designed for use with multiple display cabinets and/or cold rooms
- Centrifugal fans with 200 Pa available static pressure for air duct connection
- Low sound level
- 1 or 2 hermetic scroll compressors (with 1 digital)
- EC fans
- Integrated control box, all components factory wired
- Removable side panels for easy maintenance access
- Outdoor version available
- Variety of options available



QUIETOR [®] CITY (CENTRIFUGAL)	MT application	LT application
No. of compressors	1 – 2	
Refrigeration capacity	6 – 23 kW	5 – 14 kW
Refrigerant	R134a, R404A, R407F	

R404A, evaporating temp. MT -10°C/LT -35°C; ambient temperature = 32°C



Quietor[®] SH

Air-cooled condensing unit for medium and low temperature applications

- Compact design for outdoor installation
- Designed for use with multiple display cabinets and/or cold rooms
- Low sound level
- Semi-hermetic compressors
- Integrated control box, all components factory wired
- Removable side panels for easy maintenance access
- Variety of options available, including compressor inverter



QUIETOR [®] SH	MT application	LT application
No. of compressors	1	1
Refrigeration capacity	3 kW	1 kW
Refrigerant	R134a, R404A, R407F, R507	

R404A, evaporating temp. MT -10°C/LT -35°C; ambient temperature = 32°C



Quietor[®] Evolution

Air-cooled condensing unit for medium and low temperature applications

- Compact design for outdoor installation
- Designed for use with multiple display cabinets and/or cold rooms
- Low sound level
- Scroll or digital scroll compressors
- Integrated control box
- Removable side panels for easy maintenance access
- Variety of options available



QUIETOR [®] EVOLUTION	MT application	LT application
No. of compressors	1 – 2	
Refrigeration capacity	2 – 46 kW	2 – 28 kW
Refrigerant	R134a, R404A, R407F, R507	

R404A, evaporating temp. MT -10°C/LT -35°C; ambient temperature = 32°C



GCV SH/Scroll

Air-cooled condensing unit for medium and low temperature applications

- Compact design for outdoor installation
- Designed for applications with no machinery room and less space outside
- Small footprint due to integrated V-shape condenser
- Special, low sound level version available
- Semi-hermetic reciprocating compressors or scroll compressors
- Integrated control box, all components factory wired
- Removable side panels for easy maintenance access
- Refrigerant receiver with liquid line
- Variety of options available



GCV SH/SCROLL	MT application	LT application
No. of compressors	2 – 4	
Refrigeration capacity	15 – 113 kW	6 – 37 kW
Refrigerant	R134a, R404A, R407F	

R404A, evaporating temp. MT -10°C/LT -35°C; ambient temperature = 32°C



GC

Air-cooled condensing unit for medium and low temperature applications

- Compact design for outdoor installation
- Designed for applications with no machinery room and less space outside
- Integrated condenser, positioned adjacent to the compressor housing
- Special, low sound level version available
- Semi-hermetic reciprocating compressors
- Integrated control box, all components factory wired
- Removable side panels for easy maintenance access
- Refrigerant receiver with liquid line
- Variety of options available



GC	MT application	LT application
No. of compressors	1 – 2	
Refrigeration capacity	16 – 153 kW	6 – 48 kW
Refrigerant	R134a, R404A, R407F	

R404A, evaporating temp. MT -10°C/LT -35°C; ambient temperature = 32°C



GC5

Air-cooled condensing unit for large medium and low temperature applications and large capacities

- Flexible design for outdoor installation
- Designed for applications without machinery room and restricted space outside
- Integrated condenser, positioned adjacent to the compressor housing
- Can be customized to suit customer requirements
- Semi-hermetic reciprocating compressors or scroll compressors
- Integrated control box, all components factory wired
- Removable side panels for easy maintenance access
- Refrigerant receiver with liquid line
- Variety of options available



GC5	MT application	LT application
No. of compressors	3 – 6	2 – 6
Refrigeration capacity	27 – 479 kW	9 – 213 kW
Refrigerant	R134a, R404A, R407F	

R404A, evaporating temp. MT -10°C/LT -35°C; ambient temperature = 32°C



Adagio

Air-cooled condenser for commercial and industrial refrigeration and air-conditioning applications

- Small to medium-sized capacities
- Outdoor application
- Single or double row design
- Robust casing
- Vertical or horizontal airflow
- Optional high-efficiency EC fans and motors
- Compliant with ErP Directive
- EUROVENT certified



ADAGIO	
No. of fans	1 – 6
Capacity	4 – 312 kW
Refrigerant	R134a, R404A, R407A, R407C, R407F, R417A, R422A, R448A, R449A, R450A, R507, R513A

Fluid = R404A; inlet air temp. = 25°C; condensing temp. = 40°C subcooling 3K



Alto

Air-cooled condenser for commercial and industrial refrigeration and air-conditioning applications

- Small to medium-sized capacities
- Outdoor installation
- Single or double row design
- Vertical or horizontal airflow
- Robust casing
- Optional high-efficiency EC fans and motors
- Compliant with ErP Directive
- EUROVENT certified



ALTO	
No. of fans	1 – 12
Capacity	22 – 1128 kW
Refrigerant	R134a, R404A, R407A, R407F, R407C, R417A, R422A, R507

Fluid = R404A; inlet air temp. = 25°C; condensing temp. = 40°C subcooling 3K



Tenor[®]

Air-cooled condenser for commercial and industrial refrigeration and air-conditioning applications

- Large capacities
- Outdoor installation
- Single or double row design
- Vertical airflow
- Robust casing
- Optional high-efficiency EC fans and motors
- Reduced footprint due to V-shaped configuration
- Compliant with ErP Directive
- EUROVENT certified



TENOR [®]	
No. of fans	2 – 20
Capacity	61 – 1915 kW
Refrigerant	R134a, R404A, R407A, R407F, R407C, R417A, R422A, R507

Fluid = R404A; inlet air temp. = 25°C; condensing temp. = 40°C subcooling 3K



Sirocco (centrifugal)

Air-cooled condenser for indoor or outdoor applications that require a static pressure

- Small to medium sized capacities
- Indoor or outdoor application
- Available static pressure of 0/50/100/150 Pa
- Centrifugal fan assembly
- Vertical or horizontal airflow
- Connection for air duct system



SIROCCO (CENTRIFUGAL)	
No. of fans	1 – 3
Capacity	11 – 89 kW
Refrigerant	R134a, R404A, R407A, R407C, R407F, R417A, R422A, R448A, R449A, R450A, R507, R513A

Fluid = R404A; inlet air temp.= 25°C; condensing temp.= 40°C subcooling 3K



Adagio Fluid Cooler

Air-cooled fluid cooler for commercial and industrial refrigeration and air-conditioning applications

- Small to medium-sized capacities
- Outdoor application
- Single or double row design
- Vertical or horizontal airflow
- Robust casing
- Optional high-efficiency EC fans and motors
- Compliant with ErP Directive
- EUROVENT certified



ADAGIO FLUID COOLER	
No. of fans	1 – 6
Capacity	10 – 300 kW
Refrigerant	All fluids, compatible with copper

Fluid = water; inlet air temp. = 25°C; inlet fluid temp. = 40°C fluid dT=5K



Alto Fluid Cooler

Air-cooled fluid cooler for commercial and industrial refrigeration and air-conditioning applications

- Small to medium-sized capacities
- Outdoor installation
- Single or double row design
- Vertical or horizontal airflow
- Robust casing
- Optional high-efficiency EC fans and motors
- Compliant with ErP Directive
- EUROVENT certified



ALTO FLUID COOLER	
No. of fans	1 – 12
Capacity	90 – 1000 kW
Refrigerant	All fluids, compatible with copper

Fluid = water; inlet air temp. = 25°C; inlet fluid temp. = 40°C fluid dT=5K



Tenor[®] Fluid Cooler

Air-cooled fluid cooler for commercial and industrial refrigeration and air-conditioning applications

- Large capacities
- Outdoor installation
- Single or double row design
- Vertical airflow
- Robust casing
- Optional high-efficiency EC fans and motors
- Reduced footprint due to V-shaped configuration
- Compliant with ErP Directive
- EUROVENT certified



TENOR [®] FLUID COOLER	
No. of fans	2 – 20
Capacity	51 – 1804 kW
Refrigerant	All fluids, compatible with copper

Fluid = water; inlet air temp. = 25°C; inlet fluid temp. = 40°C fluid dT=5K



BP/BN Evolution

Air cooler for medium and low temperature applications

- Compact, ceiling-mounted air cooler
- Designed for refrigerated display cases and small cold rooms
- Axial fans
- Finned coil with grooved copper tubes and aluminium fins
- Optimized for a variety of refrigerants
- Variety of options available
- Compliant with ErP Directive
- EUROVENT certified



BP/BN EVOLUTION	MT application	LT application
No. of fans	1 – 4	
Capacity	0 – 5 kW	1 – 2 kW
Refrigerant	R134a, R407F, R404A, R507, R407A, R407C, R417A, R422A	

Fluid = R404A; inlet air temp./evaporating temp.: MT = 0°C/-8°C; LT = -18°C/-25°C



CAN/CAB Evolution

Air cooler for medium and low temperature applications

- Ceiling-mounted cubic air cooler
- Designed for all types of cold rooms from small to medium capacities
- Large variety of dimensions, fin spacings and air flow configurations to suit cold room requirements
- Direct drive axial propeller fans
- Finned coil with copper tubes and aluminium fins
- Casing complete with doors and pivoting pan
- Variety of options available
- Compliant with ErP Directive
- EUROVENT certified



CAN/CAB EVOLUTION	MT application	LT application
No. of fans	1 – 6	
Capacity	2 – 54 kW	1 – 40 kW
Refrigerant	R134a, R407F, R404A, R507, R407A, R407C, R417A, R422A, R448A, R449A	

Fluid = R404A; inlet air temp./evaporating temp.: MT = 0°C/-8°C; LT = -18°C/-25°C



SOLO

Industrial air cooler for large capacity medium and low temperature applications

- Ceiling-mounted cubic air cooler
- Designed for large capacity refrigeration, storage and freezing applications
- Hinged side covers and drain pan
- Wired fans with quick connectors and wired heaters
- Finned coil with grooved copper tubes and aluminium fins
- Delivered in mounting position (with drain pan)
- Variety of options available
- Compliant with ErP Directive
- EUROVENT certified



SOLO	MT application	LT application
No. of fans	1 – 4	
Capacity	7 – 128 kW	4 – 90 kW
Refrigerant	R134a, R407F, R404A, R507, R407A, R407C, R417A, R422A	

Fluid = R404A; inlet air temp./evaporating temp.: MT = 0°C/-8°C; LT = -18°C/-25°C



DFC Evolution

Air cooler for medium and high temperature applications

- Ceiling-mounted dual-discharge air cooler
- Designed for working areas, such as preparation rooms
- Low air speed for occupied areas
- Axial fans, configured for optimal air flow
- Comfortable sound level
- Finned coils with grooved copper tubes and aluminium fins
- Specially designed casing for easy cleaning and maintenance access
- Variety of options available
- Compliant with ErP Directive
- EUROVENT certified



DFC EVOLUTION	
No. of fans	1 – 5
Capacity	2 – 16 kW
Refrigerant	R134a, R407F, R404A, R507, R407A, R407C, R417A, R422A

Fluid = R404A; inlet air temp./evaporating temp.: MT = 10°C/0°C



DUO Evolution

Air cooler for medium temperature applications

- Ceiling-mounted dual-discharge air cooler
- Designed for refrigerated warehouses, preparation/processing cold rooms
- Low air speed for occupied areas
- Axial fans, configured for optimal air flow
- Comfortable sound level
- Finned coils with grooved copper tubes and aluminium fins
- Specially designed casing for easy cleaning and maintenance access
- Variety of options available, including factory mounted expansion valve
- Compliant with ErP Directive
- EUROVENT certified



DUO EVOLUTION	
No. of fans	1 – 5
Capacity	4 – 97 kW
Refrigerant	R134a, R407F, R404A, R507, R407A, R407C, R417A, R422A

Fluid = R404A; inlet air temp./evaporating temp.: MT = 10°C/0°C



QFC/QFR

Air cooler for medium and low temperature applications

- Modular design for floor mounting
- Designed for low temperature blast freezers (QFC) and medium temperature blast chillers (QFR)
- Standard fan pressure = 50 Pa
- Axial fans, configured for optimal air flow
- Finned coils with grooved copper tubes and aluminium fins
- Adjustable unit height according to customer needs
- Variety of options available



Notes

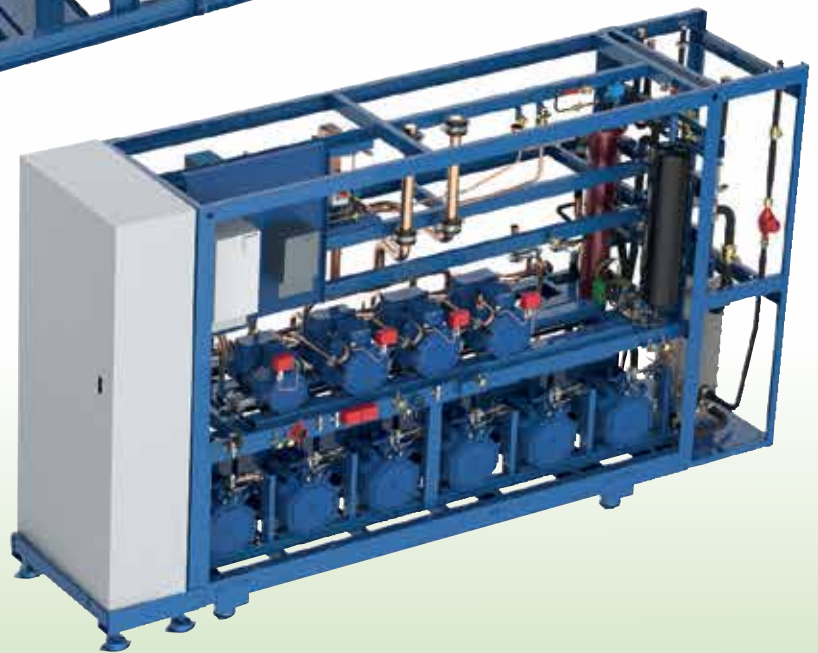
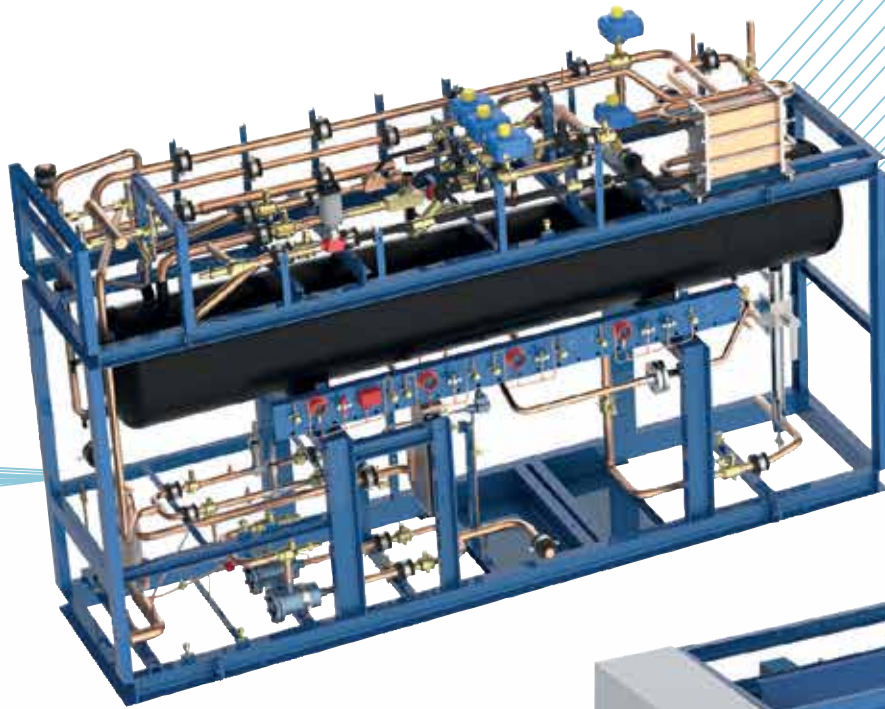


QFC/QFR	MT application	LT application
No. of fans	2 – 6	
Capacity	15 – 77 kW	10 – 53 kW
Refrigerant	R404A	

Fluid = water; inlet air temp. = 25°C; inlet fluid temp. = 40°C fluid dT=5K Fluid = R404A; evaporating temp./dT: MT = -8°C/8K; LT= -40°C/6K

PROFROID

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