Carrier

Mechanical Systems

About Carrier

Founded by the inventor of modern air conditioning, Carrier is the world's leader in high-technology heating, air conditioning and refrigeration solutions. Carrier experts provide sustainable solutions, integrating energy-efficient products, building controls and energy services for residential, commercial, retail, transport and food service customers.

With more than a century of expertise, we drive innovation while putting our customers first, helping protect our planet, and inspiring and empowering our people.

$ 17.5B
2020
NET sales

~ 8.000
Active patents
and pending patent
applications worldwide

160+
countries

56,000
employees

80+
brands

100+
new products
for the 6th
consecutive year

Delivering confidence

through innovative & sustainable refrigeration solutions

Carrier Commercial Refrigeration is a part of Carrier Global Corporation and a leading supplier of innovative, sustainable and intelligent cold chain solutions in the food retail and cold storage industries.

Remote and plug-in cabinets. Chillers and freezers. Systems and controls. Carrier provides the design, installation, service and support your need to enjoy optimum performance – from day one through the entire life-cycle.

We deliver a comprehensive range of solutions to keep goods cool, energy costs low and environmental footprint to a minimum. Delivering confidence.

9.000+
connected stores

22.000+
sites maintained

700+
top trained technicians

50K+
Carrier Refrigeration products in stores and warehouses

For further information and contacts visit our website:
www.carrier-refrigeration.com

REMOTE CABINETS

COUNTERS

PLUG-IN CABINETS

MECHANICAL SYSTEMS

SERVICES

Check our complete range of solutions, Naturally...

Content

CO_2

Rack units

Packaged Condensing Units

Gas Coolers

Air Coolers

HFC / HFO

Rack units

Bare units

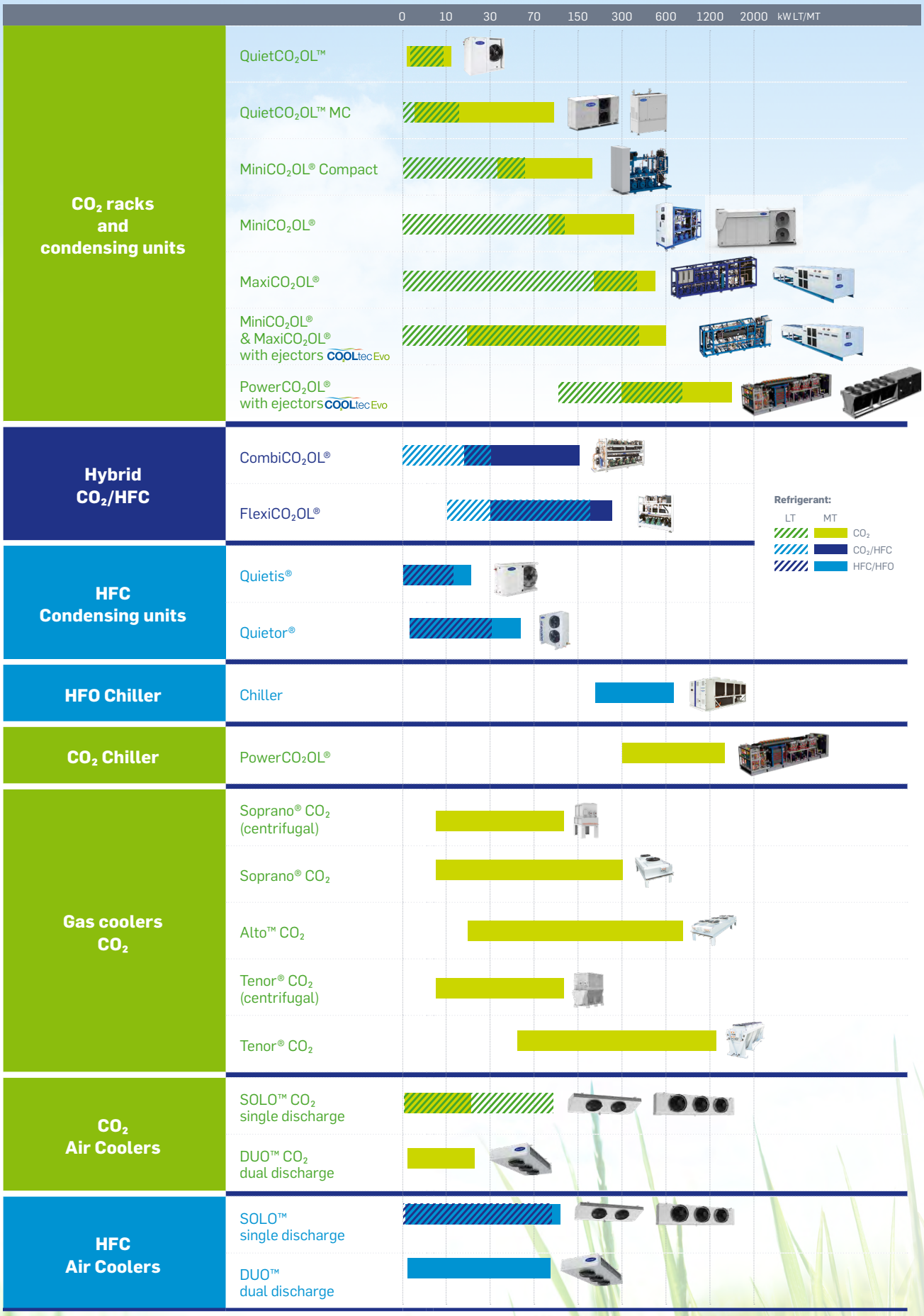
Packaged Condensing Units

Air-Cooled Condensers

Fluid Coolers

Air Coolers

Our products



Solutions for various types of applications

Retail Stores

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

Recommended products

Refrigeration Power Packs:

MiniCO$_2$OL® Compact

Air-Cooled gas coolers:

Alto™ CO$_2$

Air Coolers:

Solo™ 25-31-35 CO$_2$

Duo™ 31-35 CO$_2$

Food service

- Restaurants
- Catering
- Petrol stations
- Large kitchens

Recommended products

Packaged condensing units:

QuietCO$_2$OL™ & QuietCO$_2$OL™ Multi-compressors

Quietor® Evolution

Air Coolers

Solo™ 25-31 XS CO$_2$

Cold storage

- Warehouses
- Large cold rooms

Recommended products

Refrigeration Power Packs:

MaxiCO$_2$OL® compact

PowerCO$_2$OL™ (Chiller)

Air-cooled condensers & Gas Coolers:

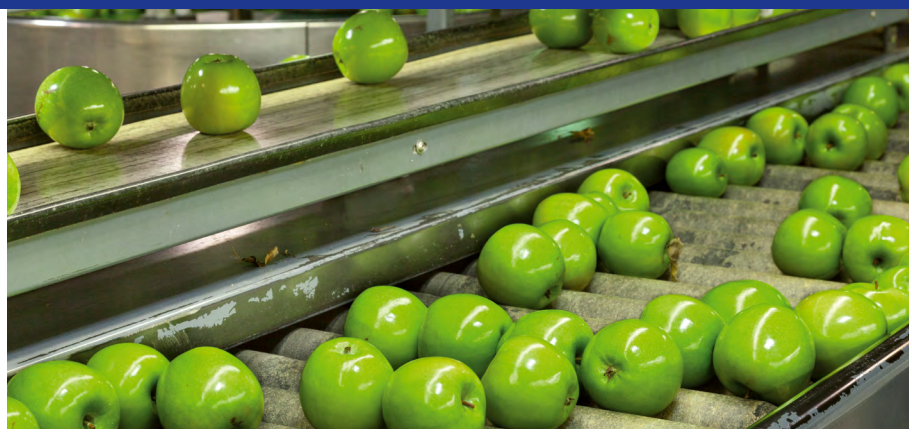
Tenor®

Air Coolers:

SoloCO$_2$OL® & Duo™

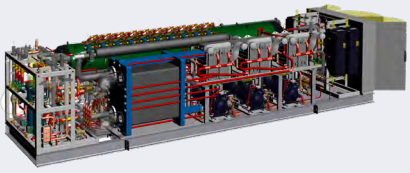
Industry

- Process cooling



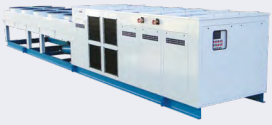
Recommended products

Rack Units:



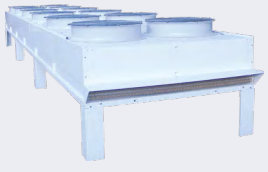
PowerCO$_2$OL™

Packaged Condensing Units:



GC5™

Air-Cooled Gas Coolers:



Alto™


KYLMÄKONE
MT501.2
Carrier
Carrier

CO_2 solutions

QuietCO$_2$OL™ Multi-Compressors Indoor

Compact refrigeration rack unit for convenience stores, gas stations and small to medium cold rooms

- Uses CO_2 natural refrigerant
- Small size unit for indoor installation (1200 x 800 x 1950 mm or 1650 x 800 x 1950mm)
- Designed for small and medium store formats
- Semi-hermetic reciprocating & Hermetic Rotary version
- Booster on the semi-hermetic version
- Integrated electrical control panel with controller
- Integrated medium pressure receiver
- Removable side panels for easy maintenance access
- Serviceability from the front
- Heating & air conditioning capabilities
- Large capacity control
- Can be split into 2 modules

Design PS:

- LT Suction: 80 Bar (Optional 60 Bar)
- MT Suction: 80 Bar (Optional 60 Bar)
- Liquid receiver: 80 Bar (Optional 60 Bar)
- Gas cooler discharge: 120 Bar

QuietCOOL MC

QuietCO$_2$OL™ MC Indoor	MT application	LT application (Semi-hermetic)
No. of compressors	1-5 (Rotary) / 1-4 (Semi-hermetic)	1-2
Refrigeration capacity	2 – 93 kW	0 – 17 kW
Refrigerant	R744	

Evaporating temp. MT -8°C/BT -32°C; Ambient temperature= 32°C

MiniCO$_2$OL® Compact

Transcritical CO_2 booster rack for small to medium supermarkets

- Uses CO_2 natural refrigerant
- Not affected by the EU F-Gas Regulation
- Compact unit for indoor installation
- Single or dual temperature range
- Semi-hermetic compressors
- Integrated electrical control panel incorporating rack and gas cooler controls
- Variable speed drive for primary compressor or CRII capacity regulation (optional)
- Optional heat recovery
- Variety of options available

Design PS:

- LT Suction: 30 Bar
- MT Suction: 52 Bar
- Liquid receiver: 60 Bar
- Gas cooler discharge: 120 Bar

MiniCO$_2$OL compact

MiniCO$_2$OL® compact	MT application	LT application
No. of compressors	3	0 – 2
Refrigeration capacity	45 – 190 kW [2]	0 – 57 kW [1]
Refrigerant	R744	

[1] -30°C /-5°C. [2] -5°C /+36°C outside (negative heat rejection not deducted)

MiniCO$_2$OL®

Transcritical CO_2 booster rack for medium to large supermarkets

- Uses CO_2 natural refrigerant
- Not affected by the EU F-Gas Regulation
- Compact unit for indoor installation
- Single or dual temperature range
- Semi-hermetic compressors
- Integrated electrical control panel incorporating rack and gas cooler controls
- Variable speed drive for primary compressor
- Optional parallel compression (ECO compressor)
- Optional outdoor housing with built-on gas cooler
- Optional heat recovery & air conditioning
- Variety of options available

Design PS:

- LT Suction: 30 Bar (Optional 60, 80 Bar)
- MT Suction: 45 Bar (Optional 52, 60, 80 Bar)
- Liquid receiver: 45 Bar (Optional 52, 60, 80 Bar)
- Gas cooler discharge: 120 Bar

MiniCO$_2$OL

MiniCO$_2$OL®	MT application	LT application
No. of compressors	4 – 6	0 – 4
Refrigeration capacity	90 – 380 kW [2]	0 – 110 kW [1]
Refrigerant	R744	

[1] -30°C /-5°C. [2] -5°C /+36°C outside (negative heat rejection not deducted)

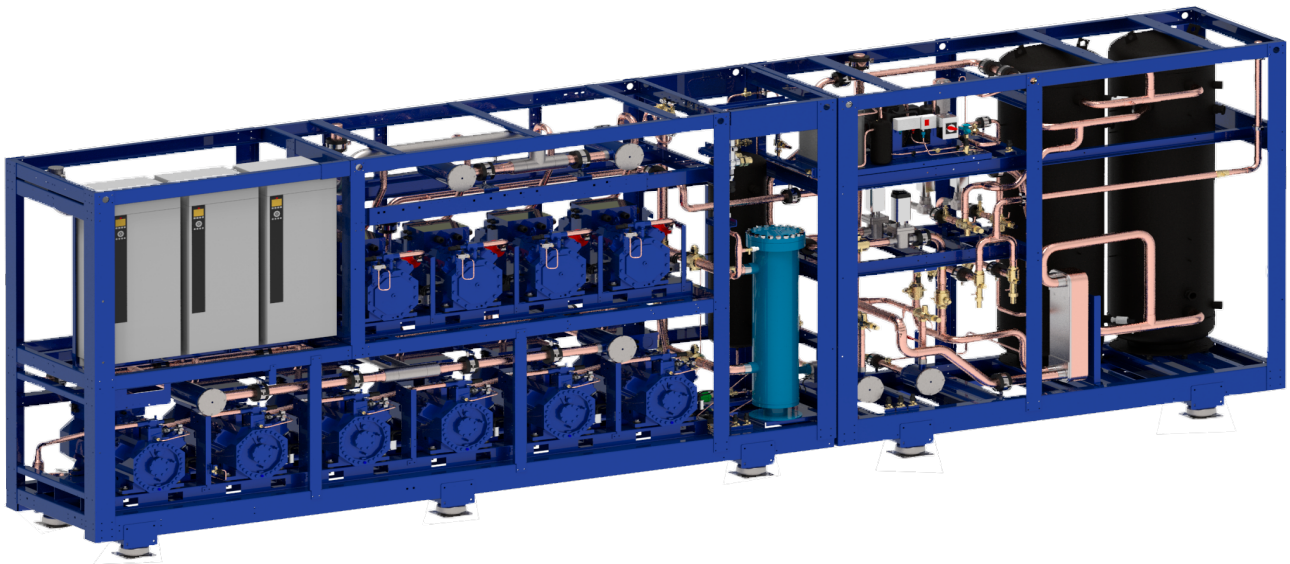
MaxiCO$_2$OL®

Transcritical CO_2 booster rack for medium to large supermarkets and warehouses

- Uses CO_2 natural refrigerant
- Not affected by the EU F-Gas Regulation
- Flexible unit for indoor installation
- Modular product makes the installation easy
- Designed for large store formats and warehouses
- Single or dual temperature range
- 6 cylinders semi-hermetic compressors
- Integrated electrical control panel incorporating rack and gas cooler controls
- MT & LT variable speed drive on the lead compressor
- Optional parallel compression (ECO compressor)
- Optional outdoor housing with built-on gas cooler
- Optional heat recovery & air conditionning
- Variety of options available

Design PS:

- LT Suction: 25 Bar (Optional 30, 52, 60 Bar)
- MT Suction: 45 Bar (Optional 52, 60 Bar)
- Liquid receiver: 45 Bar (Optional 52, 60, 80 Bar)
- Gas cooler discharge: 120 Bar



MaxiCOOL

MaxiCO$_2$OL®	MT application	LT application
No. of compressors	3 – 6	0 – 4
Refrigeration capacity	200 – 550 kW[2]	0 – 450 kW[1]
Refrigerant	R744	

[1] -30°C /-5°C. [2] -5°C /+36°C outside (negative heat rejection not deducted)

CO_2OLtec®Evo

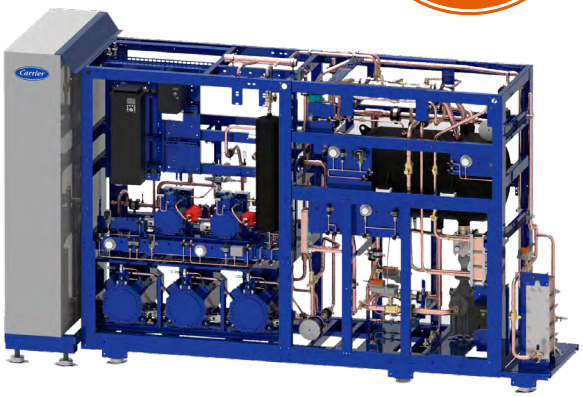
New generation of transcritical CO_2 rack with modulating ejector and CO_2 pump for small to large supermarkets and warehouses

- Uses CO_2 natural refrigerant
- High-efficiency CO_2 solution for all climates
- Includes advanced modulating vapor ejector technology (patented)
- Designed for small to large store formats, for indoor installation
- Semi-flooded operation allowing higher efficiency and better food conservation
- Single or dual temperature range
- Semi-hermetic compressors
- Integrated electrical control panel incorporating controls for rack, high-efficiency module and gas cooler
- Variable speed drive on the lead compressor
- Variety of options available to further improve efficiency in all climates

Up to 40%* energy savings

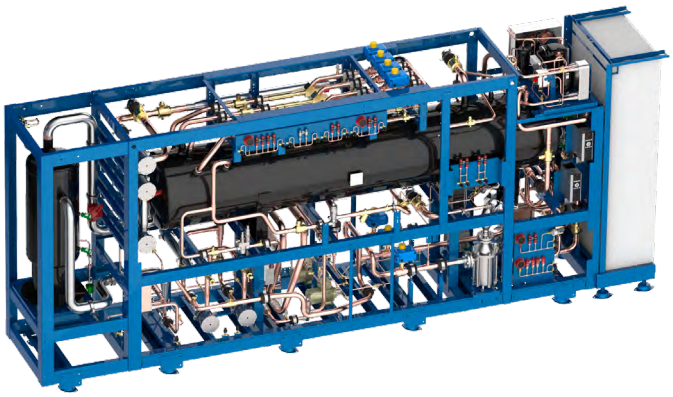
Design PS:

- LT Suction: 30 Bar
- MT Suction: 52 Bar (Optional 52, 60 Bar)
- Liquid receiver: 52 Bar (Optional 52, 60, 80 Bar)
- Gas cooler discharge: 120 Bar



CO_2OLtec®Evo Single frame – MiniCO_2OL® with integrated High-efficiency module

MiniCO_2OL® or MaxiCO_2OL®



High-efficiency module

COOLtecEvo

CO_2OLtec®Evo		MT application	LT application
CO_2OLtec® Evo single frame**	No. of compressors	3 – 5	0 – 4
	Refrigeration capacity	Up to 260 kW***	Up to 92 kW***
CO_2OLtec® Evo 2 frames	No. of compressors	2 – 6	0 – 4
	Refrigeration capacity	65 – 600 kW***	0 – 450 kW***
	Refrigerant	R744	

* Up to 40% energy savings compared to a standard HFC system; up to 30% energy savings compared to a standard CO_2 transcritical system.
** Some options are not available on this model.
*** See operating conditions for MiniCO_2OL® or MaxiCO_2OL®

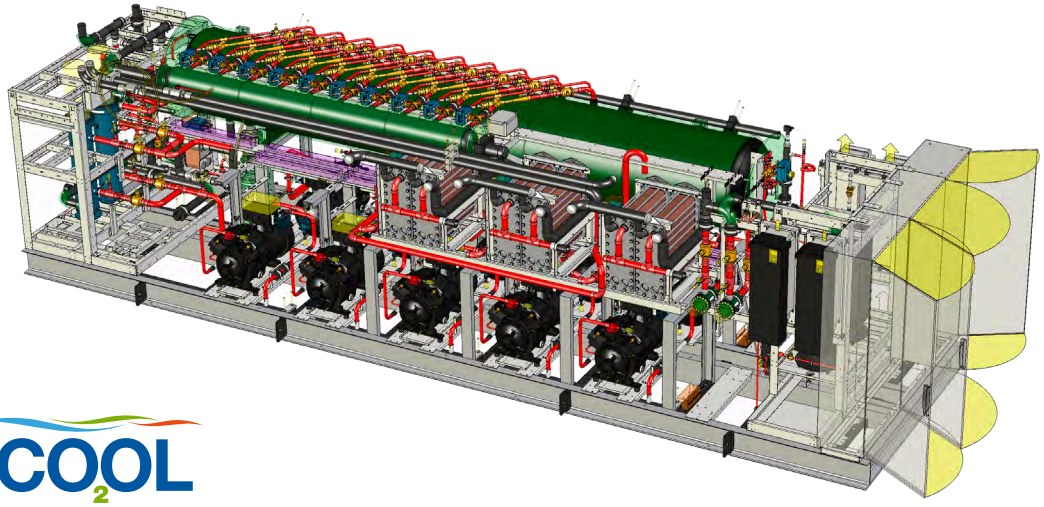
PowerCO$_2$OL™

Industrial CO$_2$ transcritical solution

- Uses CO_2 natural refrigerant
- Not affected by the EU F-Gas Regulation
- Single or dual evaporating temperature
- Chiller version
- Optional outdoor frame for oudoor installation
- Semi-hermetic compressors (6 cylinders)
- Integrated controls (rack and gas cooler)
- Inverter on the main compressor
- (MT and LT as standard)
- Modulating vapor ejector
- Heat recovery and air conditionning (Option)
- Numerous options available

Service pressure:

- Suction LT: 80 Bar (Optional 60 Bar)
- Suction MT: 80 Bar (Optional 60 Bar)
- Liquid receiver: 80 Bar
- Gas cooler discharge: 120 Bar



PowerCO$_2$OL

Configurations	PowerCO$_2$OL™ MT DX	PowerCO$_2$OL™ MT Chiller	PowerCO$_2$OL™ MT+LT DX	PowerCO$_2$OL™ LT DX	PowerCO$_2$OL™ MT Chiller + LT DX	PowerCO$_2$OL™ MT (DX+Chiller) +LT DX	PowerCO$_2$OL™ Heat pump
Applications	**Power 1**	**Power 2**	**Power 3**	**Power 4**	**Power 5**	**Power 6**	**Power 7**
Distribution center	✓	✓	✓	✓			
Warehouse	✓	✓	✓	✓			
Hypermarket	✓	✓	✓				
Food processing	✓	✓	✓	✓	✓	✓	
Tunnel freezer			✓	✓			
Heating		✓					✓
Air conditionning		✓					✓
Sport venues	✓	✓					✓
Ice rink	✓	✓					✓

PowerCO$_2$OL™	MT application	LT application
No. of compressors	3 – 8	0 – 6
Refrigeration capacity	Up to 1500 kW*	0 – 700kW*
Refrigerant	R744	

* -32°C /-10°C ; -10°C /+36°C ambient air temperature (negative heat rejection not deducted)

FlexiCO$_2$OL®

R134a / CO_2 cascade compressor rack for medium to large supermarkets and warehouses

- Uses natural refrigerant CO_2 for low temperature
- LT rack only (MT rack on another frame)
- Indoor installation
- Designed for supermarkets and hypermarkets
- Single or dual temperature range
- Semi-hermetic compressors
- Integrated electrical control panel with controller and condenser control
- CO_2 refrigerant receiver with liquid line
- Cascade heat exchanger
- Available as Brine/CO_2 cascade
- Variety of options available

Design PS:

- LT Suction: 25 Bar
- LT Discharge: 45 Bar
- MT Suction: 17 Bar
- MT Discharge: 19 Bar

CO2 NATURAL REFRIGERANT

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

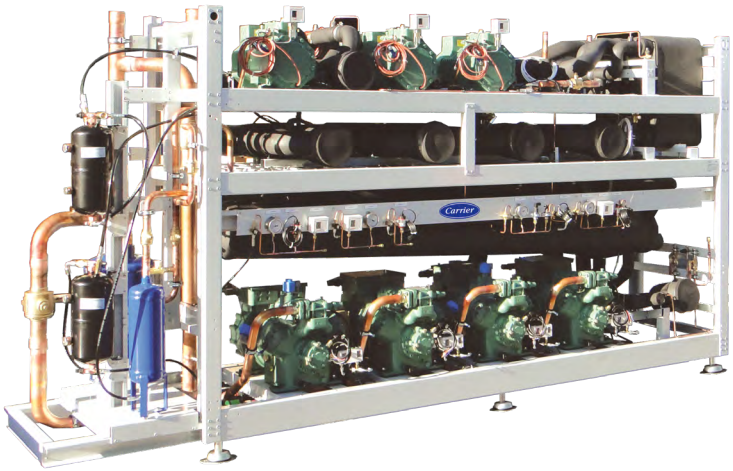
CombiCO$_2$OL®

Hybrid cascade stacked refrigeration rack combining a CO_2 LT rack running as a cascade and a R134a MT rack for medium to large supermarket

- Uses natural refrigerant CO_2 for low temperature
- Adapted for supermarkets and hypermarkets
- Indoor installation
- Single or dual temperature range
- R134a compressors for an optimized Coefficient of Performance (COP)
- Integrated CO_2 refrigerant receiver
- Cascade heat exchanger
- Easy installation and maintenance
- Stacked compressors for space saving
- Electrical enclosure integrated as standard with one controller per rack
- Other refrigerant available: R513A
- Variety of options available

Design PS:

- LT Suction: 25 Bar
- LT Discharge: 45 Bar
- MT Suction: 17 Bar
- MT Discharge: 19 Bar



CO2 NATURAL REFRIGERANT

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

QuietCO$_2$OL™

Packaged refrigeration unit for food retail and small store format

- Uses CO_2 natural refrigerant
- Not affected by the EU F-Gas Regulation
- 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
- Water cooled version
- Removable side panels for easy maintenance access
- Polar kit version available (EC fan + electrical panel heater)

Design PS:

- LT Suction: 80 Bar
- MT Suction: 80 Bar
- Liquid receiver: 90 Bar
- Gas cooler discharge: 120 Bar

QuietCO$_2$OL

QuietCO$_2$OL™	MT application	LT application
No. of compressors	1	2
Refrigeration capacity	0,8 – 9,1 kW	0,7 – 6,5 kW
Refrigerant	R744	

Evaporating temp. MT -8°C/BT -32°C; Ambient temperature= 32°C

QuietCO$_2$OL™ Multi-Compressors Outdoor

Packaged refrigeration unit for convenience stores, gas stations and small to medium cold rooms

- Uses CO_2 natural refrigerant
- Small size unit for outdoor application
- Semi-hermetic reciprocating & hermetic rotary version
- Large capacity control 30-70Hz (SH) and 25-100rps (Rotary)
- Designed for small and medium store formats
- Booster on the semi-hermetic version
- Integrated gas cooler and medium pressure receiver
- Available also without gas cooler for small outdoor space
- Saves indoor space
- Integrated electrical control panel with controller
- Removable housing panels for easy maintenance access
- Light weight for easier handling and lower structure impact

QuietCO$_2$OL™ MC Outdoor

Design PS:

- LT Suction: 80 Bar (Optional 60 Bar)
- MT Suction: 80 Bar (Optional 60 Bar)
- Liquid receiver: 80 Bar (Optional 60 Bar)
- Gas cooler discharge: 120 Bar

QuietCO$_2$OL™ MC Outdoor without gas cooler

Outdoor SH version

Outdoor Rotary version

QuietCO$_2$OL MC

QuietCO$_2$OL™® MC Outdoor	MT application	LT application (Semi Hermetic)
No. of compressors	1-5 (Rotary) / 1-2 (Semi-hermetic)	1
Refrigeration capacity	2 – 50 kW	0 - 10 kW
Refrigerant	R744	

Evaporating temp. MT -8°C/BT -32°C; Ambient temperature= 32°C

MiniCO$_2$OL® Outdoor

Packaged refrigeration condensing unit for small and medium supermarkets

- Uses CO_2 natural refrigerant
- Small size unit for outdoor application
- Semi-hermetic reciprocating compressors
- Large capacity control 30-70Hz
- Designed for small and medium store formats
- Medium temperature and Booster version
- Integrated medium pressure receiver
- Integrated horizontal blowing gas cooler
- Available also without gas cooler for small outdoor space
- Saves indoor space
- Integrated electrical control panel with controller
- Optional heat recovery
- Removable side panels for easy maintenance access

Design PS:

- LT Suction: 25 Bar (Optional 80, 60 Bar)
- MT Suction: 45 Bar (Optional 80, 60, 52 Bar)
- Liquid receiver: 45 Bar (Optional 80, 60, 52 Bar)
- Gas cooler discharge: 120 Bar

MiniCO$_2$OL outdoor

MiniCO$_2$OL® outdoor	MT application	LT application
No. of compressors	3	2
Refrigeration capacity	50-160 kW*	5-67 kW*
Refrigerant	R744	

*Evaporating temp. -5°C/LT -30°C; Ambient temperature=36°C

GC5™ CO_2

Transcritical CO_2 Booster rack for medium to large supermarkets and warehouses

- Uses natural refrigerant CO_2
- Outdoor unit for large cooling capacities
- Compatible racks: MiniCO_2OL® Compact, MaxiCO_2OL® Compact, CO_2OLtec® Evo
- 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
- Low sound level version
- Walk-in housing

Design PS:

- LT Suction: 30 Bar
- MT Suction: 45 Bar (Optional 52, 60 Bar)
- Liquid receiver: 45 Bar (Optional 52, 60, 80 Bar)
- Gas cooler discharge: 120 Bar

CO_2 NATURAL REFRIGERANT

MiniCO2OL MaxiCO2OL CO2OLtec Evo

GC5™ CO_2®	MT application	LT application
No. of compressors	6	4
Refrigeration capacity	65 – 600 kW (2)	0 – 450 kW (1)
Refrigerant	R744	

(1) -32°C /-10°C. (2) -10°C /+36°C ambient temperature (Capacity rejected negative not taken into account)

GC5™ Hybrid

Packaged refrigeration unit for medium to large supermarkets and warehouses

- Uses natural refrigerant CO_2 for low temperature
- 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
- Walk-in housing
- Other HFC refrigerant available: R513A

Design PS:

- LT Suction: 30 Bar
- Refoulement BT: 45 Bar
- MT Suction: 17 Bar
- MT Discharge: 19 Bar

HybridCO2OL

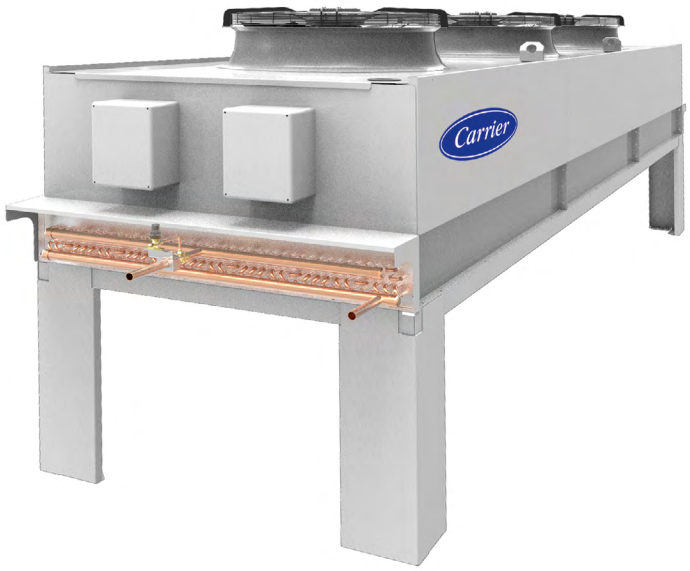
GC5™ Hybrid	MT application	LT application
No. of compressors	3 – 6	2 – 4
Refrigeration capacity	29 – 279 kW	9 – 171 kW
Refrigerant	R134a	R744

Evaporating temp. MT -8°C/BT -32°C; Ambient temperature= 32°C

Soprano® CO_2

Air-cooled gas cooler for commercial refrigeration applications

- Uses CO_2 natural refrigerant
- 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
- Energy savings and reduction of CO_2 emissions thanks to EC technology
- Compliant with ErP Directiv
- Design PS: 120 Bar



NATURAL REFRIGERANT

Soprano® CO_2	
No. of fans	1 – 6
Capacity	7 – 300 kW
Refrigerant	R744

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

Soprano® CO_2 (Centrifugal)

Air-cooled gas cooler for commercial refrigeration applications

- Uses CO_2 natural refrigerant
- Small to medium-sized capacities
- Indoor application
- Single row design
- Adjustable air flow
- Ductable for 3 different blowing directions
- Robust casing
- Compact design
- Splitable into 2 modules
- Installation possible against a wall
- Easy fans and casing disassembly
- High-efficiency EC centrifugal fans
- Analog signal or Modbus fan control
- Energy savings and CO_2 emissions reduction thanks to EC technology
- Compliant with ErP Directive
- Design PS: 120 Bar

CO_2 NATURAL REFRIGERANT

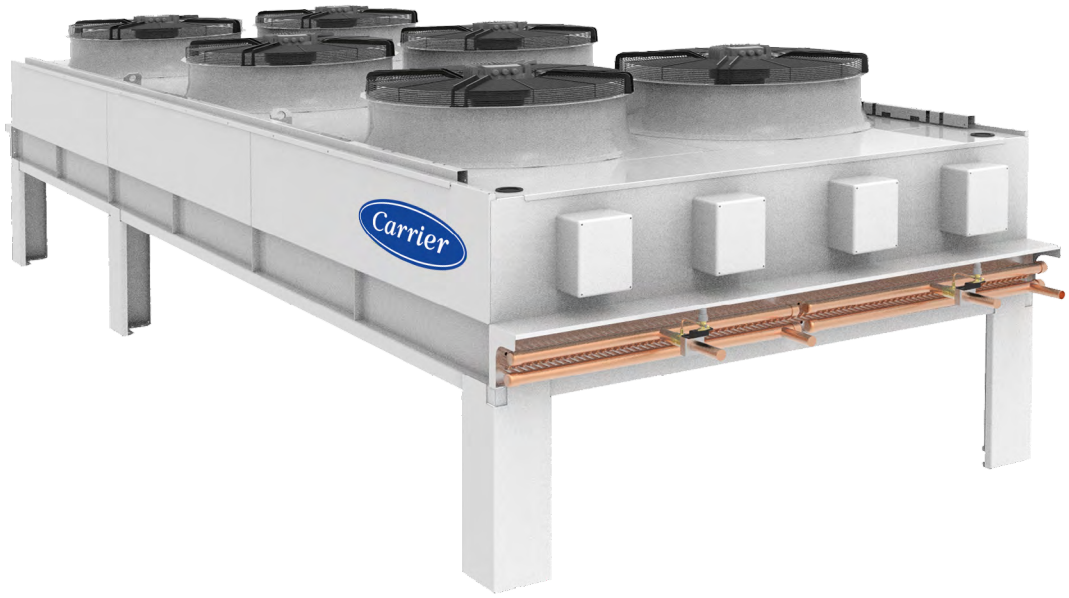
Soprano® CO_2 (Centrifugal)	
No. of fans	1 – 3
Capacity	3.7 – 92 kW
Refrigerant	R744

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

Alto™ CO_2

Air-cooled gas cooler for commercial and industrial refrigeration applications

- Uses CO_2 natural refrigerant
- 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
- Energy savings and reduction of CO_2 emissions thanks to EC technology
- Compliant with ErP Directiv
- Design PS: 120 Bar



CO_2 NATURAL REFRIGERANT

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® CO_2

Air-cooled gas cooler for commercial and industrial refrigeration applications

- Uses CO_2 natural refrigerant
- Large capacities
- Outdoor installation
- Single or double row design
- Vertical airflow
- Robust casing
- High-efficiency EC fans
- Reduced footprint due to V-shaped configuration
- Modbus control for EC fans
- Energy savings and reduction of CO_2 emissions thanks to EC technology
- Compliant with ErP Directiv
- Design PS: 120 Bar

CO_2 NATURAL REFRIGERANT

Tenor® CO_2	
No. of fans	2 – 16
Capacity	64 – 1208 kW
Refrigerant	R744

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

Tenor® CO_2 (Centrifugal)

Air-cooled gas cooler for commercial refrigeration applications

- Uses CO_2 natural refrigerant
- Small to medium-sized capacities
- Indoor application
- Reduced footprint thanks to the V-shaped configuration
- Single row design
- Adjustable air flow
- Ductable for 3 different blowing directions
- Robust casing
- Compact design
- Splitable into 2 modules
- Installation possible against a wall
- Easy fans and casing disassembly
- High-efficiency EC centrifugal fans
- Analog signal or Modbus fan control
- Energy savings and CO_2 emissions reduction thanks to EC technology
- Compliant with ErP Directive
- Design PS: 120 Bar

CO_2 NATURAL REFRIGERANT

Tenor® CO_2 (Centrifugal)	
No. of fans	1 – 3
Capacity	3.7 – 92 kW
Refrigerant	R744

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

Solo™ 25-31 XS CO_2

Air cooler for commercial applications

- Uses CO_2 natural refrigerant
- Compact, ceiling-mounted air cooler
- Designed for refrigerated display cases and small cold rooms
- Aluminium-Magnesium alloy casing
- Axial fans
- Finned coil with smooth copper tubes and aluminium fins
- Large choice of fan diameter as well as fin spacing
- Optional coil coating, electric defrost and EC fan
- Compliant with ErP Directive
- Design PS: 80 Bar

CO_2 NATURAL REFRIGERANT

Solo™ 25-31 XS CO_2	MT application	LT application
No. of fans	1 – 4	2 – 3
Refrigeration capacity	0,74 – 7,3 kW	0,59 – 6 kW
Refrigerant	R744	

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

Solo™ 25-31-35 CO_2

Air cooler for commercial applications

- Uses CO_2 natural refrigerant
- Ceiling-mounted cubic air cooler
- Designed for all types of cold rooms from small to medium capacities
- Aluminium-Magnesium alloy casing
- Axial fans
- Finned coil with copper tubes and aluminium fins
- Large choice of fan diameter as well as fin spacing
- Casing complete with doors and removable pan
- Optional coil coating, electric defrost and EC fan
- Compliant with ErP Directive
- Design PS: 80 Bar

CO_2 NATURAL REFRIGERANT

Solo™ 25-31-35 CO_2	MT application	LT application
No. of fans	1 – 5	
Refrigeration capacity	1,2 – 23,9 kW	1 – 16,4 kW
Refrigerant	R744	

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

Duo™ 31-35 CO_2

Air cooler for commercial applications

- Uses CO_2 natural refrigerant
- Ceiling-mounted dual-discharge air cooler
- Designed for working areas, such as preparation rooms
- Aluminium-Magnesium alloy casing
- Low air speed for occupied areas
- Axial fans
- Comfortable sound level
- Finned coils with smooth copper tubes and aluminium fins
- Specially designed casing for easy cleaning and maintenance access
- Optional coil coating, electric defrost and EC fan
- Compliant with ErP Directive
- Design PS: 80 Bar

CO_2 NATURAL REFRIGERANT

Duo™ 31-35 CO_2	
No. of fans	1 – 5
Refrigeration capacity	2,6 – 24,6 kW
Refrigerant	R744

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

SoloCO$_2$OL®

Industrial air cooler for large capacity low temperature applications

- Uses CO_2 natural refrigerant
- 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
- Air streamer (Option)
- High efficiency defrost (Option)
- Coil treatment (Option)
- Compliant with ErP Directiv
- Design PS: 30 Bar

SoloCO$_2$OL

CO$_2$ NATURAL REFRIGERANT

SoloCO$_2$OL®	
No. of fans	1 – 4
Refrigeration capacity	4 – 111 kW
Refrigerant	R744

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


Carrier

HFC / HFO solutions

CCR H/CCB HL

Compressor pack system for small to medium supermarket

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

CCR H - CCB H	MT application	LT application
No. of compressors	2 – 4	2 – 4
Refrigeration capacity	6 – 101 kW	3 – 36 kW
Refrigerant	R134A/R407F/R448A/R449A/R513A/R450A	R407F/R448A/R449A

Performance data with Reference fluid (without glide), -10°C/+45°C(MT), -35°C/+40°C (LT), 20K superheat

CKR SH/CKB SH

Compressor pack system for small to medium supermarket

- 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	R134A/R407F/R448A/R449A/	R407F/R448A/R449A

Performance data with Reference fluid (without glide), -10°C/+45°C(MT), -35°C/+40°C (LT), 20K superheat

CCR SH/CCB SH

Compressor pack system for small to large supermarket

- 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	38 – 190 kW	21 – 140 kW
Refrigerant	R134A/R407F/R448A/R449A/R513A/R450A	R134A/R407F/R448A/R449A

Performance data with Reference fluid (without glide), -10°C/+45°C(MT), -30°C/+40°C (LT), 20K superheat

GRS™

Compressor receiver set for cold room application

- 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

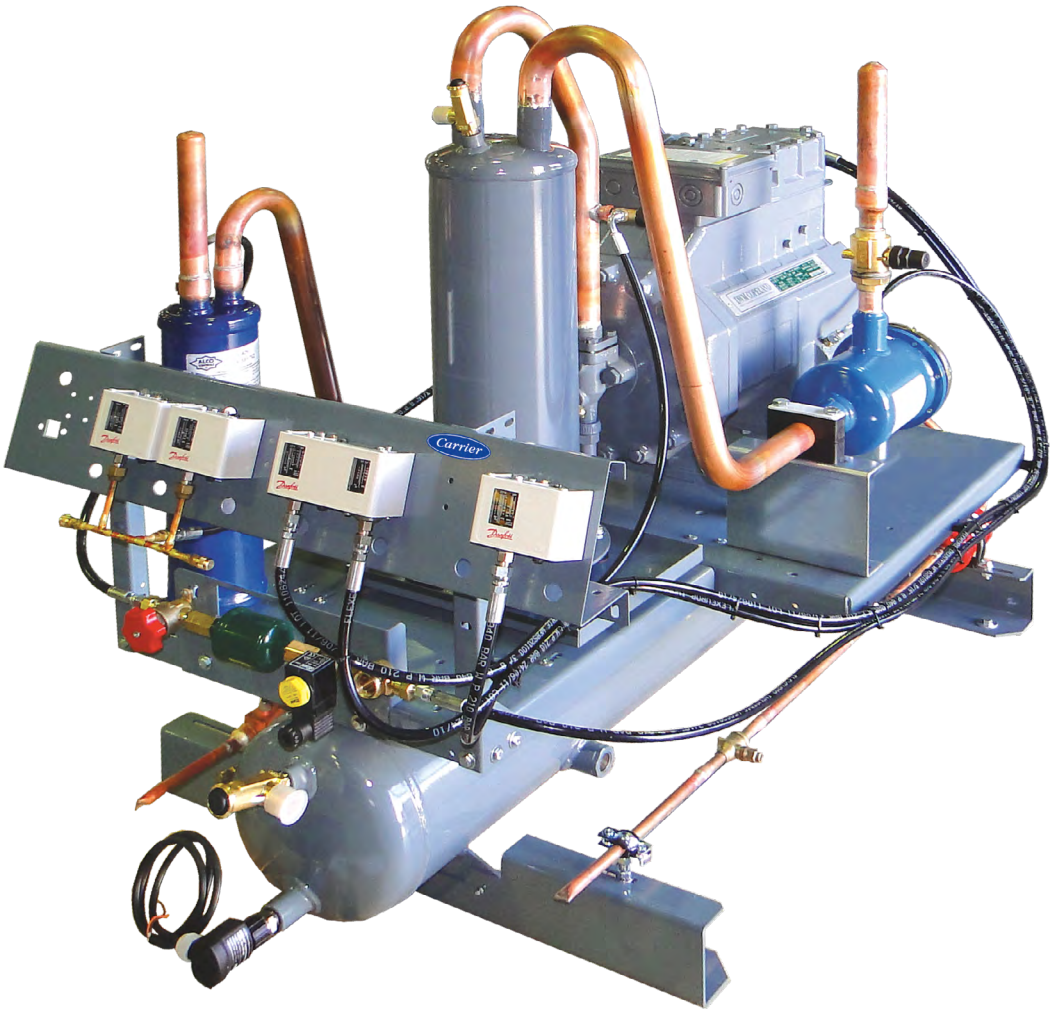
GRS™	MT application	LT application
No. of compressors	1	
Refrigeration capacity	2 – 70 kW	0 – 31 kW
Refrigerant	R134A (MT only)/R407F/R448A/R449A	

Performance data with Reference fluid (without glide), -10°C/+45°C(MT), -35°C/+40°C (LT), 20K superheat

GSB™ SH

Air-cooled condensing unit for cold room application

- Space saving design for indoor installation
- Designed for a small to medium 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



GSB™ SH	MT application	LT application
No. of compressors	1	1
Refrigeration capacity	2 – 108 kW	0 – 43 kW
Refrigerant	R134A (MT only)/R407F/R448A/R449A	

Performance with the reference fluid: Evaporating temperature -10°C (MT) & -35°C (LT). Ambient +32°C. Superheat 10K

GF™

Air-cooled condensing unit for cold room application

- Space saving design for indoor installation
- Designed for a small to medium 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™	MT application	LT application
No. of compressors	1	
Refrigeration capacity	2 – 70 kW	0 – 31 kW
Refrigerant	R134A (MT only)/R407F/R448A/R449A	

Performance with the reference fluid: Evaporating temperature -10°C (MT) & -35°C (LT). Ambient +32°C. Superheat 10K

GFS™

Air-cooled condensing unit for cold room application

- 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	1
Refrigeration capacity	5 – 17 kW	1 – 6 kW
Refrigerant	R134A (MT only)/R407F/R448A/R449A	

Performance with the reference fluid: Evaporating temperature -10°C (MT) & -35°C (LT). Ambient +32°C. Superheat 10K

Minicold™

Refrigeration unit for cold room application

- Condensing unit for outdoor installation
- Designed for low temperature freezer rooms and medium temperature chiller rooms
- Version available for wine cellar
- Hermetic compressor
- Remote electrical control panel for wall mounting
- Controller manages compressor, fans, temperature alarm and lighting
- Variety of options available

Minicold™	MT application	LT application
No. of compressors	1	
Refrigeration capacity	0 – 10 kW	0 – 5 kW
Refrigerant	R452A / R449A / R448A (MT only)	

Reference fluid (without glide), cold room temp. MT +0°C/LT -25°C; ambient temperature = 32°C

Supercold™ SH/Scroll

Split refrigeration unit for cold room application

- Condensing unit for outdoor installation
- Designed for low temperature and medium temperature cold rooms
- 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
Refrigeration capacity	2 – 55 kW	0 – 31 kW
Refrigerant	R134A (MT only) / R407F / R448A / R449A	

Reference fluid (without glide), cold room temp. MT +0°C/LT -25°C; ambient temperature = 32°C

Quietis® Evolution

Air-cooled condensing unit for cold room and cabinet application

- Compact design for outdoor installation
- Designed for cold room or display cabinet applications
- Low sound level
- Hermetic reciprocating compressors
- Articulated electrical terminal block, all components factory wired
- Hinged door with large opening angle for easy maintenance access
- Easy wall mounting fix and set (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 (MT) / R513A (MT) / R448A (MT) / R449A (MT) / R452A (BT)	

Reference fluid (without glide), evaporating temp. MT -10°C/LT -35°C; ambient temperature = 32°C

Quietis® G (Centrifugal)

Indoor air-cooled condensing unit for cold room and cabinet application

- 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®

Quietis® G (Centrifugal)	MT application	LT application
No. of compressors	1	1
Refrigeration capacity	0 – 18 kW	0 – 8 kW
Refrigerant	R134a (MT) / R513A (MT) / R449A (MT) / R452A	

Reference fluid (without glide), evaporating temp. MT -10°C/LT -35°C; ambient temperature = 32°C

Quietor® Evolution

Air-cooled condensing unit for cold room and cabinet application

- 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/R513A/R450A - MT only) / R407F / R448A / R449A	

Reference fluid (without glide), evaporating temp. MT -10°C/LT -35°C; ambient temperature = 32°C

Quietor® SH

Air-cooled condensing unit for cold room and cabinet application

- 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	3-31 kW	0-8 kW
Refrigerant	(R134a/R513A/R450A - MT only) / R407F / R448A / R449A	

Reference fluid (without glide), evaporating temp. MT -10°C/LT -35°C; ambient temperature = 32°C

Quietor® City (Centrifugal)

Indoor air-cooled condensing unit for cold room and cabinet application

- 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/R513A/R450A - MT only) / R407F / R448A / R449A	

Reference fluid (without glide), evaporating temp. MT -10°C/LT -35°C; ambient temperature= 32°C

GCV™ SH/Scroll

Air-cooled condensing unit for small to medium supermarket

- 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/R513A/R450A - MT only) / R407F / R448A / R449A	

Reference fluid (without glide), evaporating temp. MT -10°C/LT -35°C; ambient temperature = 32°C

GC™ SH

Air-cooled condensing unit for small to medium supermarket

- 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™ SH	MT application	LT application
No. of compressors	1 – 2	
Refrigeration capacity	16 – 153 kW	6 – 48 kW
Refrigerant	(R134a/R513A/R450A - MT only) / R407F / R448A / R449A	

Reference fluid (without glide), evaporating temp. MT -10°C/LT -35°C; ambient temperature = 32°C

GC5™

Air-cooled condensing unit for medium to large supermarkets and warehouses

- 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/R513A/R450A (MT only) / R407F / R448A / R449A	

Reference fluid (without glide), evaporating temp. MT -10°C/LT -35°C; ambient temperature = 32°C

Adagio™

Air-cooled condenser for commercial 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 Directiv

Adagio™	
No. of fans	1 – 6
Capacity	4 – 312 kW
Refrigerant	R134a, R407A, R407C, R407F, R417A, R448A, R449A, R450A, R513A

Fluid = Reference fluid (without glide); 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 Directiv

Alto™	
No. of fans	1 – 12
Capacity	22 – 1128 kW
Refrigerant	R134a, R407A, R407C, R407F, R417A, R448A, R449A, R450A, R513A

Fluid = Reference fluid (without glide); 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 Directiv

Tenor®	
No. of fans	2 – 20
Capacity	61 – 1915 kW
Refrigerant	R134a, R407A, R407C, R407F, R417A, R448A, R449A, R450A, R513A

Fluid = Reference fluid (without glide); inlet air temp. = 25°C; condensing temp. = 40°C subcooling 3K

Sirocco™

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

- Small to large 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™ / CAC (Centrifugal)	
No. of fans	1 – 3
Capacity	11 – 88 kW
Refrigerant	R134a, R407A, R407C, R407F, R417A, R448A, R449A, R450A, R513A

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

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 Directiv

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 Directiv

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 Directiv

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

Solo™ 25-31 XS

Air cooler for cold room applications

- Compact, ceiling-mounted air cooler
- Designed for refrigerated display cases and small cold rooms
- Aluminium-Magnesium alloy casing
- Axial fans
- Finned coil with copper tubes and aluminium fins
- Optimized for a variety of refrigerants
- Large choice of fan diameter as well as fin spacing
- Optional coil coating, electric defrost and EC fan
- Compliant with ErP Directiv

Solo™ 25-31 XS	MT application	LT application
No. of fans	1 – 4	
Refrigeration capacity	1,1 – 8,1 kW	0,7 – 6,3 kW
Refrigerant	R134a, R407F, R407A, R407C, R417A, R449A, R448A, R513A (MT only) / R450A (MT) / R452A	

Fluid = Reference fluid (without glide); inlet air temp./evaporating temp.: MT = 0°C/-8°C; LT = -18°C/-25°C

Solo™ 25-31-35

MT / LT air cooler for small to medium cold rooms applications

- Ceiling-mounted cubic air cooler
- Designed for all types of cold rooms from small to medium capacities
- Aluminium-Magnesium alloy casing
- Axial fans
- Finned coil with copper tubes and aluminium fins
- Optimized for a variety of refrigerants
- Casing complete with doors and removable pan
- Large choice of fan diameter as well as fin spacing
- Optional coil coating, electric defrost and EC fan
- Compliant with ErP Directiv

Solo™ 25-31-35	MT application	LT application
No. of fans	1 – 5	
Refrigeration capacity	1,4 – 24 kW	0,9 – 15 kW
Refrigerant	R134a (MT only) / R407F / R407A / R407C / R417A / R449A / R448A / R513A (MT only) / R450A (MT only) / R452A	

Fluid = Reference fluid (without glide); inlet air temp./evaporating temp.: MT = 0°C/-8°C; LT = -18°C/-25°C

CAN™/CAB 400-500 Evolution

MT / LT air cooler for small to medium cold rooms 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 Directiv

CAN™/CAB 400/500 Evolution	MT application	LT application
No. of fans	1 – 6	
Refrigeration capacity	5,7 – 54 kW	4,4 – 40 kW
Refrigerant	R134a, R407F, R407A, R407C, R417A, R449A, R448A, R513A, R450A	

Fluid = Reference fluid (without glide); inlet air temp./evaporating temp.: MT = 0°C/-8°C; LT = -18°C/-25°C

Duo™ 31-35

MT / HT air cooler for preparation room applications

- Ceiling-mounted dual-discharge air cooler
- Designed for working areas, such as preparation rooms
- Aluminium-Magnesium alloy casing
- Low air speed for occupied areas
- Axial fans
- Comfortable sound level
- Finned coils with copper tubes and aluminium fins
- Optional coil coating, electric defrost and EC fan
- Compliant with ErP Directiv

Duo™ 31-35	
No. of fans	1 – 6
Refrigeration capacity	2,9 – 25,6 kW
Refrigerant	R134a (MT only) / R407F / R407A / R407C / R417A / R449A / R448A / R513A (MT only) / R450A (MT only) / R452A

Fluid = Reference fluid (without glide); inlet air temp./evaporating temp.: MT = 10°C/0°C

Solo™ 50-60-80

MT/LT air cooler for industrial cold rooms 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 Directiv

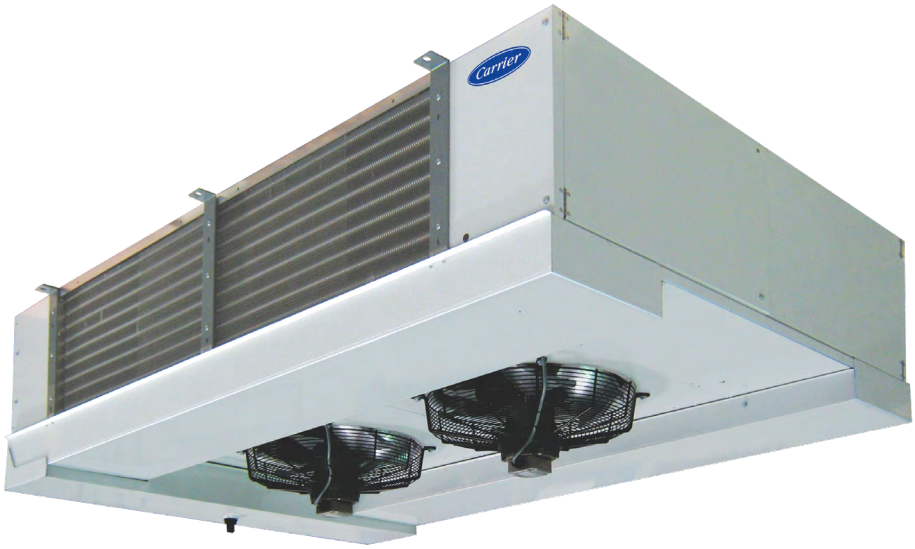
Solo™ 50-60-80	MT application	LT application
No. of fans	1 – 4	
Refrigeration capacity	7 – 128 kW	4 – 90 kW
Refrigerant	R134a, R407F, R407A, R407C, R417A, R449A, R448A, R513A, R450A	

Fluid = Reference fluid (without glide); inlet air temp./evaporating temp.: MT = 0°C/-8°C; LT = -18°C/-25°C

Duo™ Evolution

MT air cooler for preparation / process 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 Directiv



Duo™ Evolution	
No. of fans	1 – 5
Refrigeration capacity	4 – 97 kW
Refrigerant	R134a, R407F, R407A, R407C, R417A, R449A, R448A, R513A, R450A

Fluid = Reference fluid (without glide); inlet air temp./evaporating temp.: MT = 10°C/0°C

QFC/QFR

MT/LT air cooler for fast freezing 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

QFC/QFR	MT application	LT application
No. of fans	2 – 6	
Refrigeration capacity	15 – 77 kW	10 – 53 kW
Refrigerant	Consult us	

Fluid = water; inlet air temp. = 25°C; inlet fluid temp. = 40°C fluid dT=5K Fluid = Reference fluid (without glide); evaporating temp./dT: MT = -8°C/8K; LT= -40°C/6K

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