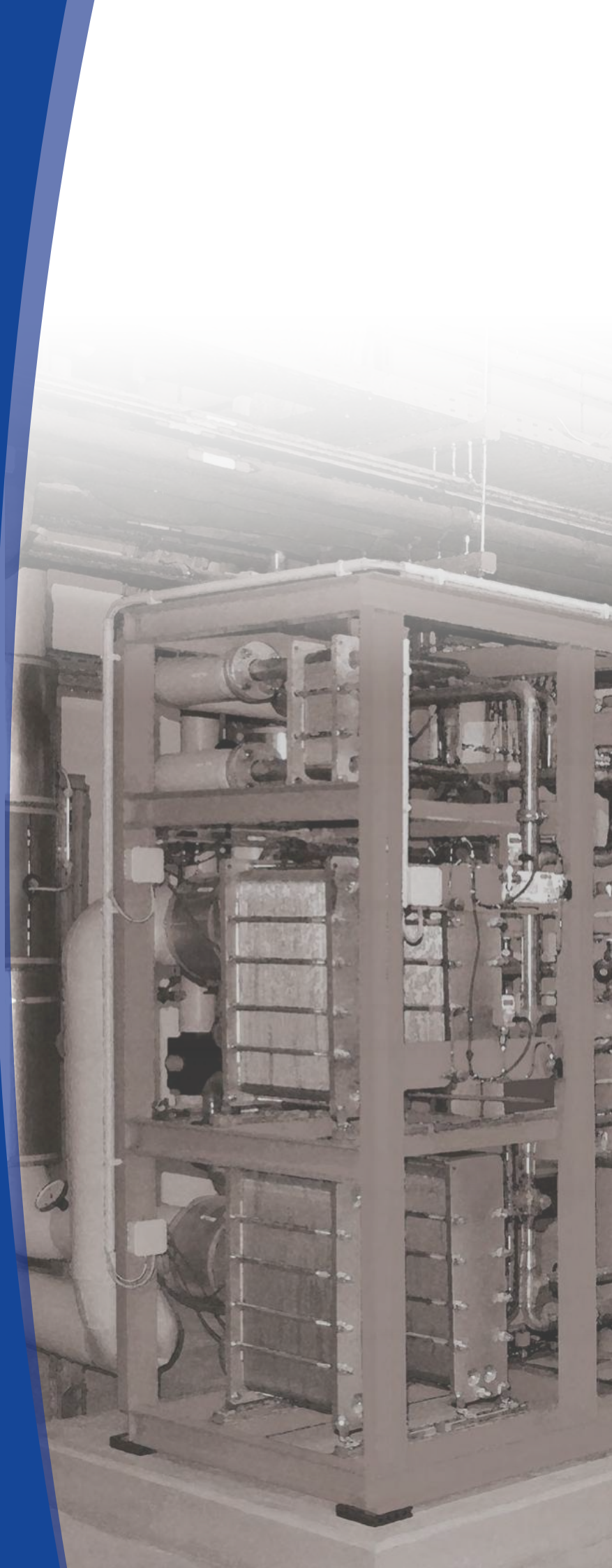


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# Mechanical Systems

**WHEN IT COMES TO COOL,  
YOU'RE IN COMPLETE CONTROL.**

Carrier Commercial Refrigeration solutions go well beyond cabinets, counters and freezers. We offer complete refrigeration systems and controls to help stores of all sizes ensure food freshness and safety while reducing environmental impact and annual operating costs.



# QuietCO<sub>2</sub>OL Multi-Compressors Indoor

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

- Uses CO<sub>2</sub> natural refrigerant
- Small size unit for indoor installation (800 x 1200 x 1800 mm)
- 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
- MT Suction: 80 Bar
- Liquid receiver: 80 Bar
- Gas cooler discharge: 120 Bar



## QuietCOOL MC

QuietCO <sub>2</sub> OL® MC Indoor	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<sub>2</sub>OL<sup>®</sup> Compact

## Transcritical CO<sub>2</sub> booster rack for medium to large supermarkets

- 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



**MiniCOOL<sub>2</sub>compact**

MiniCO <sub>2</sub> OL <sup>®</sup> compact	MT application	LT application
No. of compressors	2 – 6	0 – 4
Refrigeration capacity	20 – 380 kW <sup>(2)</sup>	2 – 110 kW <sup>(1)</sup>
Refrigerant	R744	

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



# MaxiCO<sub>2</sub>OL<sup>®</sup> Compact

**Transcritical CO<sub>2</sub> booster rack for medium to large supermarkets and warehouses**

- Uses CO<sub>2</sub> 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 conditioning
- 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<sub>2</sub>compact**

MaxiCO <sub>2</sub> OL <sup>®</sup> compact	MT application	LT application
No. of compressors	3 – 6	0 – 4
Refrigeration capacity	200 – 550 kW <sup>(2)</sup>	0 – 360 kW <sup>(1)</sup>
Refrigerant	R744	

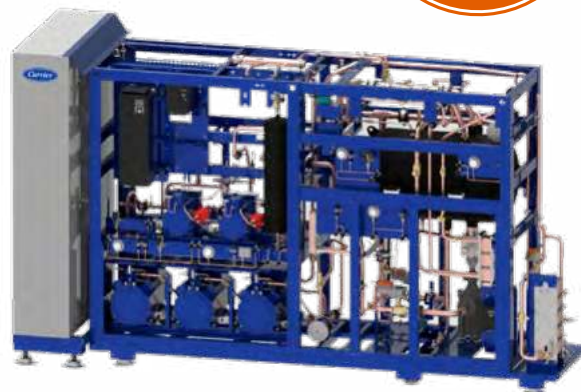
<sup>(1)</sup> -30°C / -5°C. <sup>(2)</sup> -5°C / +36°C outside (negative heat rejection not deducted)

# CO<sub>2</sub>OLtec® Evo

## New generation of transcritical CO<sub>2</sub> rack with modulating ejector and CO<sub>2</sub> pump for small to large supermarkets and warehouses

- Uses CO<sub>2</sub> natural refrigerant
- High-efficiency CO<sub>2</sub> 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



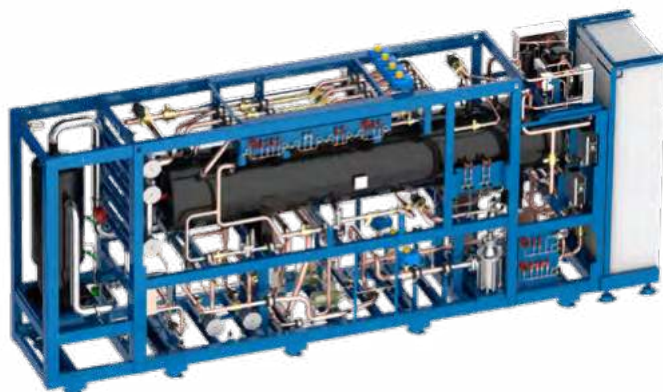
CO<sub>2</sub>OLtec®Evo Single frame – MiniCO<sub>2</sub>OL® compact with integrated High-efficiency module

### 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



MiniCO<sub>2</sub>OL® compact or MaxiCO<sub>2</sub>OL® compact



High-efficiency module



CO <sub>2</sub> OLtec®Evo		MT application	LT application
CO <sub>2</sub> OLtec® Evo single frame**	No. of compressors	3 – 5	0 – 4
	Refrigeration capacity	Up to 260 kW***	Up to 92 kW***
CO <sub>2</sub> OLtec® 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<sub>2</sub> transcritical system.

\*\* Some options are not available on this model.

\*\*\* see operating conditions for MiniCO<sub>2</sub>OL® or MaxiCO<sub>2</sub>OL® compact

# PowerCO<sub>2</sub>OL™

## Industrial CO<sub>2</sub> transcritical solution

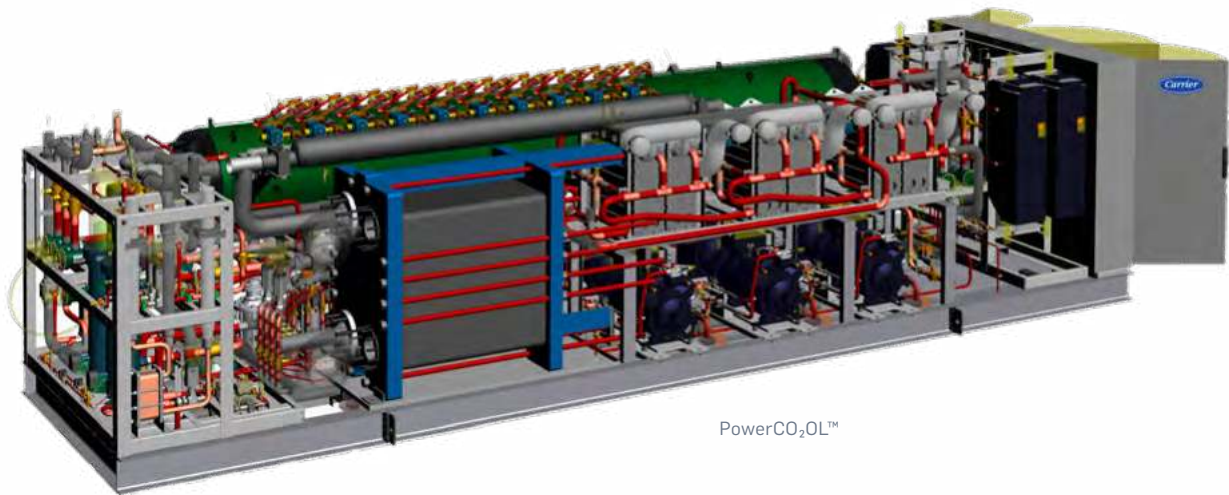
- Uses CO<sub>2</sub> natural refrigerant
- Not affected by the EU F-Gas Regulation
- Single or dual evaporating temperature
- Chiller version
- Optional outdoor frame for outdoor installation
- Semi-hermetic compressors (6 cylinders)
- Integrated controls (rack and gas cooler)
- Designed for the following applications:

	Heat pump	Distribution center	Food industry	Hypermarket	Sport venues	Ice rink	Air conditioning	Data Center	Tunnel freezer
Single evaporating temperature MT	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dual evaporating temperature MT+LT	✓	✓	✓	✓					
Single evaporating temperature LT	✓	✓	✓	✓					✓

- Inverter on the main compressor
- (MT and LT as standard)
- Modulating vapor ejector
- Heat recovery and air conditioning (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



## PowerCOOL<sub>2</sub>

PowerCO <sub>2</sub> OL™	MT application	LT application
No. of compressors	3 – 8	0 – 6
Refrigeration capacity	Up to 1500 kW*	Up to 550 kW*
Refrigerant	R744	

\* 32°C / -10°C. <sup>(2)</sup> -10°C / +36°C ambient air temperature (negative heat rejection not deducted)

# FlexiCO<sub>2</sub>OL<sup>®</sup>

## R134a / CO<sub>2</sub> cascade compressor rack for medium to large supermarkets and warehouses

- Uses natural refrigerant CO<sub>2</sub> 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<sub>2</sub> refrigerant receiver with liquid line
- Cascade heat exchanger
- Available as Brine/CO<sub>2</sub> cascade
- Variety of options available

### Design PS:

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



FlexiCO <sub>2</sub> OL <sup>®</sup>	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<sub>2</sub>OL

## Hybrid cascade stacked refrigeration rack combining a CO<sub>2</sub> LT rack running as a cascade and a R134a MT rack for medium to large supermarket

- Uses natural refrigerant CO<sub>2</sub> 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<sub>2</sub> 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 refrigerants available: R449A, R448A, R407F, R513A
- Variety of options available

### Design PS:

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



CombiCO <sub>2</sub> 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<sub>2</sub>OL™

## Packaged refrigeration unit for food retail and small store format

- Uses CO<sub>2</sub> 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<sub>2</sub>OL

QuietCO <sub>2</sub> 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<sub>2</sub>OL™ Multi-Compressors Outdoor

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

- Uses CO<sub>2</sub> 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 side panels for easy maintenance access
- Light weight for easier handling and lower structure impact
- Design PS:
  - LT Suction: 80 Bar (Optional 60, 52 Bar)
  - MT Suction: 80 Bar (Optional 60, 52 Bar)
  - Liquid receiver: 80 Bar (Optional 60, 52 Bar)
  - Gas cooler discharge: 120 Bar



QuietCO<sub>2</sub>OL MC Outdoor



QuietCO<sub>2</sub>OL MC Outdoor without gas cooler

**Design PS:**

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



Outdoor SH version



Outdoor Rotary version

## QuietCOOL MC

QuietCO <sub>2</sub> 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



# GC5 CO<sub>2</sub>

## Transcritical CO<sub>2</sub> Booster rack for medium to large supermarkets and warehouses

- Uses natural refrigerant CO<sub>2</sub>
- Outdoor unit for large cooling capacities
- Compatible racks: MiniCO<sub>2</sub>OL Compact, MaxiCO<sub>2</sub>OL Compact, CO<sub>2</sub>OLtec 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



MiniCO<sub>2</sub>compact

MaxiCO<sub>2</sub>compact

CO<sub>2</sub>OLtec Evo

GC5 CO <sub>2</sub> <sup>®</sup>	MT application	LT application
No. of compressors	6	4
Refrigeration capacity	65 – 600 kW	0 – 450 kW
Refrigerant	R744	

<sup>(1)</sup> -32°C /-10°C. <sup>(2)</sup> -10°C /+36°C ambient temperature (Capacity rejetée négative non prise en compte)

# GC5 Hybrid

## Packaged refrigeration unit for medium to large supermarkets and warehouses

- Uses natural refrigerant CO<sub>2</sub> 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: R449A, R448A, R407F, R513A

### Design PS:

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



HybridCOOL<sub>2</sub>

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<sub>2</sub>

## Air-cooled gas cooler for commercial refrigeration applications

- Uses CO<sub>2</sub> 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<sub>2</sub> emissions thanks to EC technology
- Compliant with ErP Directive
- Undergoing EUROVENT approval
- Design PS: 120 Bar



Soprano® CO <sub>2</sub>	
No. of fans	1 – 6
Capacity	7 – 300 kW
Refrigerant	R744

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



# Soprano<sup>®</sup> CO<sub>2</sub> (Centrifugal)

## Air-cooled gas cooler for commercial refrigeration applications

- Uses CO<sub>2</sub> natural refrigerant
- Small to medium-sized capacities
- Indoor application
- Single row design
- Adjustable air flow
- Ductable for 3 different blowing direction
- 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<sub>2</sub> emissions reduction thanks to EC technology
- Compliant with ErP Directive
- Design PS: 120 Bar



### Soprano CO<sub>2</sub> (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<sub>2</sub>

## Air-cooled gas cooler for commercial and industrial refrigeration applications

- Uses CO<sub>2</sub> 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<sub>2</sub> emissions thanks to EC technology
- Compliant with ErP Directive
- Undergoing EUROVENT approval
- Design PS: 120 Bar



Alto™ CO <sub>2</sub>	
No. of fans	1 - 10
Capacity	23 - 840 kW
Refrigerant	R744

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

# Tenor<sup>®</sup> CO<sub>2</sub>

## Air-cooled gas cooler for commercial and industrial refrigeration applications

- Uses CO<sub>2</sub> 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<sub>2</sub> emissions thanks to EC technology
- Compliant with ErP Directive
- Undergoing EUROVENT approval
- Design PS: 120 Bar



Tenor <sup>®</sup> CO <sub>2</sub>	
No. of fans	2 – 16
Capacity	64 – 1208 kW
Refrigerant	R744

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



# Tenor<sup>®</sup> CO<sub>2</sub> (Centrifugal)

## Air-cooled gas cooler for commercial refrigeration applications

- Uses CO<sub>2</sub> natural refrigerant
- Small to medium-sized capacities
- Indoor application
- Reduced footprint thanks to the V- shape configuration
- Single row design
- Adjustable air flow
- Ductable for 3 different blowing direction
- Robust casing
- Compact design
- Splittable 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<sub>2</sub> emissions reduction thanks to EC technology
- Compliant with ErP Directive
- Design PS: 120 Bar



### Tenor<sup>®</sup> CO<sub>2</sub> (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<sub>2</sub>

## Air cooler for commercial applications

- Uses CO<sub>2</sub> 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



Solo™ 25-31 XS CO <sub>2</sub>	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<sub>2</sub>

## Air cooler for commercial applications

- Uses CO<sub>2</sub> 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



Solo™ 25-31-35 CO <sub>2</sub>	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<sub>2</sub>

## Air cooler for commercial applications

- Uses CO<sub>2</sub> 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



Duo™ 31-35 CO <sub>2</sub>	
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<sub>2</sub>OL<sup>®</sup>

## Industrial air cooler for large capacity low temperature applications

- Uses CO<sub>2</sub> 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 Directive
- Undergoing EUROVENT approval
- Design PS: 30 Bar



SoloCOOL<sub>2</sub>



SoloCO <sub>2</sub> OL <sup>®</sup>	
No. of fans	1 - 4
Refrigeration capacity	4 - 111 kW
Refrigerant	R744

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



# 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	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



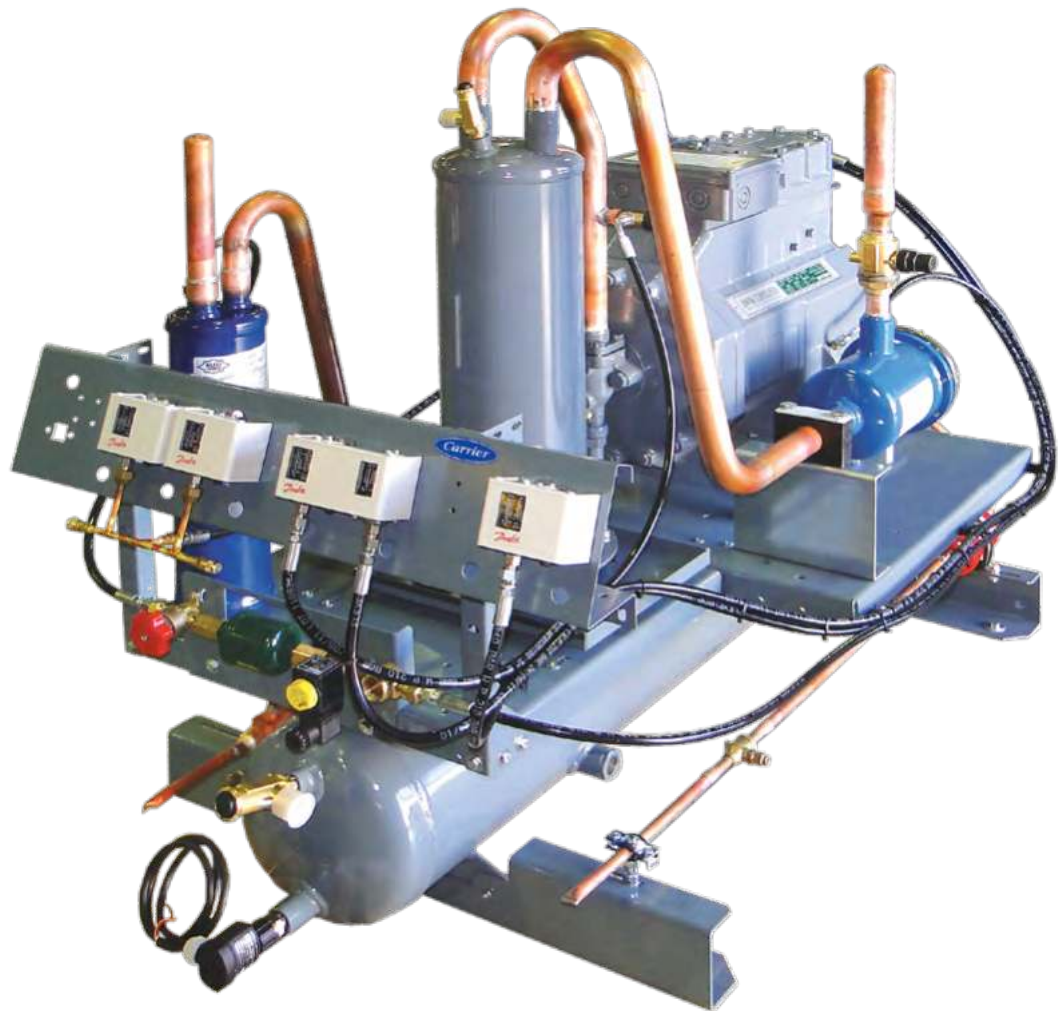
GRS	MT application	LT application
No. of compressors		1
Refrigeration capacity	2 – 70 kW	0 – 31 kW
Refrigerant	R134A (MT only)/R407F/R448A/R449A	

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 <sup>1</sup>	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<sup>®</sup> 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 <sup>®</sup> 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	

Fluide de référence (sans glissement), Evaporating temp. MT -10°C/BT -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 Directive
- EUROVENT certified



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  
\*Non Eurovent certified fluids

# 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, R407A, R407C, R407F, R417A*, R448A, R449A, R450A, R513A

Fluid = Reference fluid (without glide); inlet air temp. = 25°C; condensing temp. = 40°C subcooling 3K  
\*Non Eurovent certified fluids

# 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, R407A, R407C, R407F, R417A*, R448A, R449A, R450A, R513A

Fluid = Reference fluid (without glide); inlet air temp. = 25°C; condensing temp. = 40°C subcooling 3K  
\*Non Eurovent certified fluids



# Sirocco™ / CAC (Centrifugal)

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 (Sirocco) and 100/200/300 Pa (CAC)
- Centrifugal fan assembly
- Vertical or horizontal airflow
- Connection for air duct system



## Sirocco™ / CAC (Centrifugal)

No. of fans	1 - 5
Capacity	11 - 530 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 Directive
- EUROVENT certified



### Adagio Fluid Cooler

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

Refrigerant = eau ; temp. d'entrée de l'air = 25°C; temp. d'entrée du Refrigerant = 40°C Refrigerant 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<sup>®</sup> 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



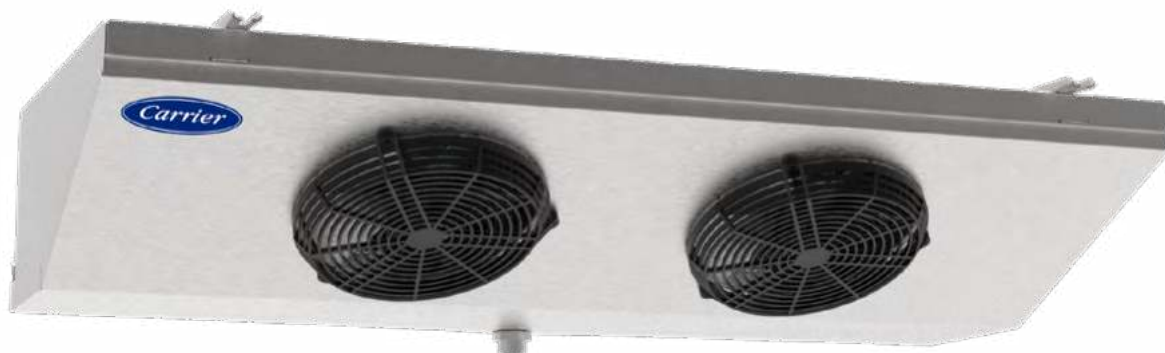
Tenor <sup>®</sup> Fluid Cooler	
No. of fans	2 – 20
Capacity	51 – 1804 kW
Refrigerant	All fluids compatible with copper

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 Directive
- EUROVENT certified



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  
 \*Non Eurovent certified fluids

# 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 Directive
- EUROVENT certified



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  
 \*Non Eurovent certified fluids



# 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 Directive
- EUROVENT certified



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  
 \*Non Eurovent certified fluids

# 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 Directive
- EUROVENT certified



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 Directive
- EUROVENT certified



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  
 \*Non Eurovent certified fluids

# 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 Directive
- EUROVENT certified



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  
 \*Non Eurovent certified fluids

# 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