



Content



CO_2

Racks Units

 QuietCO₂OL Multi Compressor Indoor MiniCO₂OL[®] Compact MaxiCO₂OL[®] Compact CO₂OLtec[®] EVO PowerCO₂OL[®] FlexiCO₂OL[®] CompactCO₂OL[®] 	
 Packaged Condensing Units QuietCO2OL QuietCO2OL Multi Compressor Outdoo GC5 CO2 GC5 Hybrid 	DI
Gas Coolers Soprano [®] CO ₂ Soprano [®] CO ₂ (Centrifugal) Alto CO ₂ Tenor [®] CO ₂	

Tenor[®] CO₂ (Centrifugal)

Air Coolers

BP/BN Evolution CO ₂
CAN/CAB Evolution CO ₂
- DEC Evolution CO

DFC Evolution CO₂ SoloCO,OL[®]







MaxiCO2OL compact

Compact CO2OL

Hybrid COOL

COOLtec[®]Evo

Power CO₂OL



HFC/HFC)
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11

12 13 14

15

16

17

18

19

20 21 22

23

Racks Units	
CCR H/CCB HL [®]	25
CKR SH/CKB SH [®]	26
CCR SH/CCB SH [®]	27
Bare Units	
GRS	28
GSB/GSB SH	29
GF/GFB	30
• GFS	31
Packaged Condensing Units	
Minicold Split	32
Supercold SH/Scroll	33
Quietis [®] Evolution	34
 Quietis[®] G (Centrifugal) 	35
Quietor [®] Evolution	36
Quietor [®] SH	37
 Quietor[®] City (Centrifugal) 	38
GCV SH/Scroll	39
GC SH	40
■ GC5	41
Air-Cooled Condensers	
Adagio	42
 Alto 	43
■ Tenor [®]	44
 Sirocco (Centrifugal) 	45
Fluid Coolers	
Adagio Fluid Cooler	46
Alto Fluid Cooler	47
Tenor [®] Fluid Chiller	48
Air Coolers	
BP/BN Evolution	49
	50

CAN/CAB Evolution	50
DFC Evolution	51
Solo 50-60-80	52
DUO Evolution	53

54

QFC/QFR

New CO₂ products and solutions



CO₂OLtec® Evo high-efficiency rack





QuietCO₂OL Multi Compressors Indoor



2 | Mechanical Systems 2020

Centrifugal CO₂ gas coolers

QuietCO₂OL Multi Compressors Outdoor







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

- Uses CO₂ 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 different choice of controler
- Integrated medium pressure receiver
- Removable side panels for easy maintenance access
- Serviceability from the front
- Heating & Air conditioning capabilities
- Large capacity control 30-70Hz (SH) and 25-100 rps (Rotary)
- Can be split into 2 modules
- 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





MiniCO₂OL[®]Compact

Transcritical CO₂ booster rack for medium to large supermakets

- Uses CO₂ natural refrigerant
- Not affected by the EU F-Gas Regulation
- 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
- 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



QuietCO ₂ OL MC Indoor	MT application	LT application (Semi Hermetic)			
No. of compressors	1 – 5	1			
Refrigeration capacity	2 – 49,5 kW 2 – 9,5 kW				
Refrigerant	R744				

aporating temp.	MT	-8°C /	/ LT	-32°C:	ambient	temperature	= 32°C	
aporating tomp.		007	· - ·	02 0,	unibion	tomporataro	- 02 0	

MiniCO ₂ 0L [®] Compact	MT application	LT application				
No. of compressors	2 - 6	0 – 4				
Refrigeration capacity	20 – 380 kW ^{ri} 0 – 110 kW ^{ri}					
Refrigerant	R744					
(1) -32% / -10%						

(1) ⁻⁰² C / ⁻¹⁰ C
 (2) -10°C / ⁺36°C outside (negative heat rejection not deducted)

Ev









MaxiCO₂OL[®]Compact

Transcritical CO₂ booster rack for medium to large supermarket and warehouse

- Uses CO₂ 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



CO₂OLtec[®]Evo

New generation of transcritical CO₂ rack with modulating ejector and CO, pump for medium to large supermarket and warehouse

- Uses CO₂ natural refrigerant
- High-efficiency CO₂ 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
- 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





MaxiCO ₂ OL [®] Compact	MT application	LT application			
No. of compressors	3 - 6	0 – 4			
Refrigeration capacity	200 – 550 kW ^{es} 0 – 360 kW ⁽¹⁾				
Refrigerant	R744				

(1) -32°C / -10°C (2) -10°C / +36°C outside (negative heat rejection not deducted)

C0 ₂ 0Ltec [®] Evo	MT application	LT application			
No. of compressors	2 - 6	0 – 4			
Refrigeration capacity	65 – 600 kW* 0 – 450 kW*				
Refrigerant	R744				

*Up to 40% annual energy savings compared to a standard HFC system, up to 30% annual energy savings compared to a standard CO2 transcritical system **See operating conditions for MiniCO₂OL or MaxiCO₂OL compact





MiniCO_OL compact or MaxiCO_OL compact







Industrial CO₂ transcritical solution

- Uses CO₂ 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)
- Inte
- Des

• Integrated controls (rack and gas co	oler)								
Designed for the following application	ns: Hee	L PUMP SPC	int venue Dis	stribution center p	rood ing	e rink	are etail	AIC TUNNE	el freezer
Single evaporating temperature MT	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
Dual evaporating temperature MT/LT	\checkmark		\checkmark	\checkmark		\checkmark			
Single evaporating temperature LT	\checkmark		\checkmark	\checkmark		\checkmark		\checkmark	

- Inverter on the main compressor (MT and LT as standard)
- Modulating vapor ejector
- Heatrecovery 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





FlexiCO₂OL[®]

R134a / CO₂ cascade compressor rack for medium to large supermarket and warehouse

- Uses natural refrigerant CO₂ 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
- CO₂ refrigerant receiver with liquid line
- Cascade heat exchanger
- Available as Brine/CO₂ cascade
- Variety of options available
- Design PS:
- LT Suction: 25 Bar
- LT Discharge: 45 Bar
- MT Suction: 17 Bar
- MT Discharge: 19 Bar

PowerCO ₂ OL [®]	MT application LT application				
No. of compressors	3 – 8	0 - 6			
Refrigeration capacity	Up to 1500 kW [®] Up to 550 kW [®]				
Refrigerant	R744				

(1) -32°C / -10°C (2) -10°C / +36°C ambient air temperature (negative heat rejection not deducted)

Power COOL

FlexiC0 ₂ 0L°	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







Hybrid cascade stacked refrigeration rack combining a CO₂ LT rack running as a cascade and a R134a MT rack for medium to large supermarket.

- Uses natural refrigerant CO₂ 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 electrical cabinet as standard with a controller on each rack
- Integrated CO₂ refrigerant receiver
- Cascade heat exchanger
- Easy installation and maintenance
- Stacked compressors for space saving
- Variety of options available
- Design PS:
- LT Suction: 25 Bar
- LT Discharge: 45 Bar
- MT Suction: 17 Bar
- MT Discharge: 19 Bar





QuietCO₂OL

Packaged refrigeration unit for Food retail and small store format

- Uses CO₂ 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

Compact COOL

CompactCO 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

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





tion	LT application	
	2	
<w .<="" th=""><th>0,7 – 6,5 kW</th></w>	0,7 – 6,5 kW	
R7	44	





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

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



Outdoor version without gas cooler



Outdoor Rotary version



QuietCOOL

QuietCO ₂ OL MC Outdoor	MT application	LT application (Semi Hermetic)
No. of compressors	1 – 5	1
Refrigeration capacity	2 – 49,5 kW	2 – 9,5 kW
Refrigerant	R744	

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







$GC5CO_{2}$

Transcritical CO₂ Booster rack for medium to large supermarket and warehouce

- Uses natural refrigerant CO,
- 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
- 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

GC5 CO, MT applica No. of compressors Refrigeration capacity 200 - 550 Refrigerant

(1) -32°C / -10°C (2) -10°C (2) -10°C / +36°C outside (negative heat rejection not deducted)



tion		LT application
	3	3
kW		0 – 360 kW
	R7	44



GC5Hybrid

Packaged refrigeration unit for medium to large supermarket and warehouce

- Uses natural refrigerant CO₂ 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
- Design PS:
- LT Suction: 30 Bar
- LT Discharge: 45 Bar
- MT Suction: 17 Bar
- MT Discharge: 19 Bar





Soprano[®]CO₂

Air-cooled gas cooler for commercial refrigeration applications

- Uses CO₂ 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 CO₂ emissions due to EC technology
- Compliant with ErP Directive
- Undergoing EUROVENT approval (new Eurovent 2020 program)
- Design PS: 120 Bar

Hybrid COOL

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

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





Soprano[®]CO₂ (Centrifugal)

Air-cooled gas cooler for commercial refrigeration applications

- Uses CO₂ natural refrigerant
- Small to medium-sized capacities
- Indoor application
- Single row design
- Adjustable air flow
- Robust casing
- High-efficiency EC centrifugal fans
- Analog signal or Modbus fan control
- Energy savings and CO₂ emissions reduction thanks to EC technology
- Compliant with ErP Directive
- Design PS: 120 bars





$Alto^{T}CO_{2}$

Air-cooled as cooler for commercial and industrial refrigeration applications

- Uses CO₂ 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 CO₂ emissions due to EC technology
- Compliant with ErP Directive
- Undergoing EUROVENT approval (new Eurovent 2020 program)
- Design PS: 120 Bar

Soprano [®] CO ₂ Centrifugal		
No. of fans	1 – 3	
Capacity	0 – 80 kW	
Refrigerant	R744	

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

Alto CO ₂	
No. of fans	
Capacity	
Refrigerant	

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



1 – 10	
23 – 840 kW	
R744	



Tenor[®]CO₂

Air-cooled gas cooler for commercial and industrial refrigeration applications

- Uses CO₂ 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 CO₂ emissions due to EC technology
- Compliant with ErP Directive
- Undergoing EUROVENT approval (new Eurovent 2020 program)
- Design PS: 120 Bar





Tenor[®]CO₂ (Centrifugal)

Air-cooled gas cooler for commercial refrigeration applications

- Uses CO₂ natural refrigerant
- Small to medium-sized capacities
- Indoor application
- Single row design
- Adjustable air flow
- Robust casing
- High-efficiency EC centrifugal fans
- Reduced footprint due to V-shaped configuration
- Analog signal or Modbus fan control
- Energy savings and CO₂ emissions reduction thanks to EC technology
- Modbus control for EC fans
- Compliant with ErP Directive
- Undergoing EUROVENT approval (new Eurovent 2020 program)
- Design PS: 120 Bar

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

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

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



1 – 3	
3.7 – 92 kW	
R744	





BP/BN Evolution CO₂

Air cooler for commercial applications

- Uses CO₂ natural refrigerant
- 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
- Coil treatment (Option)
- Compliant with ErP Directive
- Undergoing EUROVENT approval (new EUROVENT 2020 program)
- Design PS: 80 Bar



CAN/CAB Evolution CO₂

Air cooler for commercial applications

- Uses CO₂ natural refrigerant
- 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
- Expansion valve mounted (Option)
- Coil treatment (Option)
- Compliant with ErP Directive
- Undergoing EUROVENT approval (new EUROVENT 2020 program)
- Design PS: 80 Bar

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 = $0^{\circ}C$ / $-8^{\circ}C$; LT = $-18^{\circ}C$ / $-25^{\circ}C$



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



		LT application
	1 – 6	
V		1 – 10 kW
	R744	



Air cooler for commercial applications

• Uses CO₂ natural refrigerant

arri

- 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
- Specially designed casing for easy cleaning and maintenance access
- Solenoid and expansion valve mounted (Option)
- Coil treatment (Option)
- Compliant with ErP Directive
- Undergoing EUROVENT approval (new EUROVENT 2020 program)
- Design PS: 80 Bar



R744



SoloCO₂OL®

Industrial air cooler for large capacity low temperature applications

- Uses CO₂ 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 (new EUROVENT 2020 program)
- Design PS: 30 Bar

SoloC0 ₂ 0L [®]	
No. of fans	1 – 4
Capacity	5 – 110 kW
Refrigerant	R744

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

Fluid = R744; inlet air temp. / evaporating temp.: $MT = 10^{\circ}C / 0^{\circ}C$

Refrigerant





New HFC/HFO products and 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 – 100 kW	3 – 36 kW
Refrigerant	R134A / R404A / R407F / R448A / R449A / R450A / R 513A	R404A / R407F / R448A / R449A

Performance data with R404A, -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



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



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 / R404A / R407F / R448A / R449A / R450A / R513A	R404A / R407F / R448A / R449A

Performance data with R404A, -10°C / +45°C(MT), -35°C / +40°C (LT), 20K superheat

Performance data with R404A, -10°C / +45°C(MT), -35°C / +40°C (LT), 20K superheat

	LT application	
	2 – 5	
	21 – 140 kW	
0A / R513A	R404A / R407F / R448A / R449A	



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





GSB/GSB SH

Compressor receiver set for cold room application

- Space saving design for indoor installation
- Designed for a small to medium cooling capacitiy application
- Operate with a remote condenser (see page 50)
- Semi-hermetic compressor
- Compressor cylinder head cooling fans (depending on model)
- Refrigerant receiver positioned below compressor
- 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) / R404A / R407F / R448A / R449A / R507	

Performance data with R404A, -10°C / +45°C (MT), -35°C / +40°C (LT), 20K superheat

GSB/GSB SH	MT applicati
No. of compressors	
Refrigeration capacity	2 – 108 kW
Refrigerant	R134a (N

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



tion	LT application	
	1	
W	0 – 43 kW	
(MT only) / R404A / R407F / R448A / R449A / R507		



GF/GFB

Air-cooled condensing unit for for cold room application

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





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

GF/GFB	MT application	LT application
No. of compressors		1
Refrigeration capacity	2 – 70 kW	0 – 31 kW
Refrigerant	R134a (MT only) / R404A / R407F / R448A / R449A / R507	

GFS	MT application	LT application
No. of compressors		I
Refrigeration capacity	5 – 17 kW	1 – 6 kW
Refrigerant	R134a (MT only) / R404A / R407F / R448A / R449A / R507	

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

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







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

Minicold Split

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 Split	MT application	LT application
No. of compressors	1	1
Refrigeration capacity	0 – 10 kW	0 – 5 kW
Refrigerant	R404A / R449 (MT only) / R452A	

Supercold SH/Scroll Split MT applica No. of compressors 1 Refrigeration capacity 2 – 55 kW Refrigerant R134A

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



tion	LT application
	1
V	0 – 31 kW
(MT only) / R404A / R407F / R448A / R449A / R507	



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[®]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®	MT application	LT application
No. of compressors	1 -	- 2
Refrigeration capacity	0 – 18 kW	0 – 8 kW
Refrigerant	R134a (MT only) / R404A / R448A (I	MT only) / R449A (MT only) / R452A

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



tion	LT application
	1
V	0 – 8 kW
nly) / R404A / R448A (MT only) / R449A (MT only) / R452A	



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[®]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 [®] Evolution	MT application	LT application
No. of compressors	1 -	- 2
Refrigeration capacity	2 – 46 kW	2 – 28 kW
Refrigerant	R134a (MT only) / R404A / R407F / R448A / R44	19A / R450A (MT only) / R507 / R513A (MT only)

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

Quietor [®] SH	MT application	LT application	
No. of compressors	1	1	
Refrigeration capacity	3 – 31 kW	0 – 8 kW	
Refrigerant	R134a (MT only) / R404A / R407F / R448A / R44	49A / R450A (MT only) / R507 / R513A (MT only)	





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





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

Quietor [®] City (centrifugal)	MT application	LT application
No. of compressors	1 -	- 2
Refrigeration capacity	6 – 23 kW	5 – 14 kW
Refrigerant	R134a (MT only) / R404A / R407F / R448A /	R449A / R450A (MT only) / R513A (MT only)

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

GCV SH/Scroll	MT applicat
No. of compressors	
Refrigeration capacity	15 – 113 kl
Refrigerant	R134a (MT only) / R404



tion	LT application
2 -	- 4
<w .<="" td=""><td>6 – 37 kW</td></w>	6 – 37 kW
4A / R407F / R448A / R449A / R450A (MT only) / R513A (MT only)	



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





GC5

Air-cooled condensing unit for medium to large supermarket and warehouse

- 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

GC SH	MT application	LT application
No. of compressors	1 -	- 2
Refrigeration capacity	16 – 153 kW	6 – 48 kW
Refrigerant	R134a (MT only) / R404A / R407F / R448A /	R449A / R450A (MT only) / R513A (MT only)

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



tion	LT application
	2 - 6
κW	9 – 213 kW
4A / R407F / R448A / R449A / R450A (MT only) / R513A (MT only)	



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





	Carri	e
		-

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

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 *Non Eurovent certified fluids

Fluid = R404A; inlet air temp. = 25°C; condensing temp. = 40°C subcooling 3K *Non Eurovent certified fluids





1 – 12
22 – 1126 kW
07F, R407C, R417A*, R422A*, R507, R448A, R449A, R450A, R513A



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







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

No. of fans	2 – 20
Capacity	61 – 1911 kW
Refrigerant	R134a, R404A, R407A, R407F, R407C, R417A*, R422A*, R507, R448A, R449A, R450A, R513A

Fluid = R404A; inlet air temp. = 25°C; condensing temp. = 40°C subcooling 3K *Non Eurovent certified fluids

Sirocco (centrifugal)	
No. of fans	
Capacity	
Refrigerant	R134a, R404A, R407A, R40

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









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





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

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

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





1 – 12	
90 – 1000 kW	
All fluids compatible with copper	





Tenor[®] Fluid Chiller

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





BP/BN Evolution

Air cooler for cold room applications

- Compact, ceiling-mounted air cooler
- Designed for refrigerated diplay 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

Tenor [®] Fluid Chiller	
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

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





	LT application
1 -	- 4
	1 – 2 kW
407A / R407C / R417A* / R422A* / R449A / R448A / R513A / R450A	



CAN/CAB 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



EUROVEN



DFC Evolution

MT/HT air cooler for preparation rooms 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

CAN/CAB Evolution	MT application	LT application
No. of fans	1.	- 6
Capacity	2 – 54 kW	1 – 40 kW
Refrigerant	R134a (MT only) / R407F / R404A / R507 / R407A / R407	7C / R417A* / R422A* / R449A / R448A / R513A / R450A

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

DFC Evolution	MT application	LT application
No. of fans	1-	- 5
Capacity	2 – 16 kW	
Refrigerant	R134a (MT only) / R407F / R404A / R507 / R407A / R407	7C / R417A* / R422A* / R449A / R448A / R513A / R450A

Fluid = R404A; 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







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

Solo 50-60-80	MT application	LT application
No. of fans	1.	- 4
Capacity	7 – 128 kW	4 – 90 kW
Refrigerant	R134a (MT only) / R407F / R404A / R507 / R407A / R40	7C / R417A* / R422A* / R449A / R448A / R513A / R450A

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



Fluid = R404A; inlet air temp. / evaporating temp.: MT = 10°C / 0°C *Non Eurovent certified fluids





	LT application
1 -	- 5
4 – 9	7 kW
407A / D40	70 / 04174* / 04224* / 04404 / 04484 / 05134 / 04504

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









8



Condensing Units

Packaged

Rack Units

QuietCO ₂ OL
QuietCO ₂ OL MC Outdoo
OptiCO ₂ OL Outdoor
GC5 CO ₂
GC5 Hybrid
Minicold Split
Supercold SH / Scroll
Quietis® Evolution
Quietis [®] G (centrifugal)
Quietor [®] City (centrifug
Quietor [®] SH
Quietor® Evolution
GCV SH / Scroll
GC

r New

QuietCO,OL MC Indoor New

OptiCO_OL Indoor

MaxiC0_0L°

CCR H - CCB HL CKR SH - CKB SH

CCR SH - CCB SH

GSB / GSB SH

GRS

GFS

GF / GFB

MiniCO_OL° Compact CO,OLtec° Evo New

MaxiCO,OL° Compact PowerC0,0L° New CompactCO₂OL° FlexiC0,0L°

CO, OLtec[®] Integral CO₂OLheat

GC5

Soprano[®] CO₂ (Centrifugal) Soprano[®] CO₂ Alto CO, Tenor[®] CO₂ (Centrifugal) Tenor[°] CO₂ Adagio Alto Tenor® **Adagio Fluid Cooler** Alto Fluid Cooler **Tenor[®] Fluid Chiller** Sirocco (centrifugal)

BP / BN Evolution CO.

SoloC0,0L°

SOLO

DFC Evolution CO₂

BP / BN Evolution

DFC Evolution DUO Evolution QFC / QFR

CAN / CAB Evolution

Coolers

Air

-



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Refrigerant /	Kältemittel /	Fluide	/ Refrigerante /	ХЛАДАГЕН
0			0	

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 = 5KFluid = R404A; evaporating temp. / dT: MT = -8°C / 8K; LT = -40°C / 6K *For other fluids please consult us

HFC/HFO Air Coolers



Complete & Sustainable Refrigeration Solutions for Food Retailers

Project Planning

- Display cabinets to maximize merchandising opportunities
- Energy and environmental impact consulting and analysis
- Optimal refrigeration technology solutions for each store type
- Complete project design and documentation

Product Development & Manufacturing

- Next-generation display cabinets to help increase sales
- Advanced refrigeration technology and integrated systems
- Energy-efficient solutions for the system lifecycle
- Sustainable natural refrigerant technologies









Lifecycle Care

- Preventative maintenance program
- 24/7 call center and service assistance
- Remote monitoring to ensure optimized performance
- System modernization for improved efficiency

Installation

- Approach tailored to unique customer requirements
- Experienced teams with standard work processes
- A focus on quality throughout the process
- Limited on-site time for minimal business disruption

Carrier Commercial Refrigeration is a leading supplier of high-efficiency turnkey refrigeration systems and services in the food retail industry.



