COMMERCIAL EVAPORATORS

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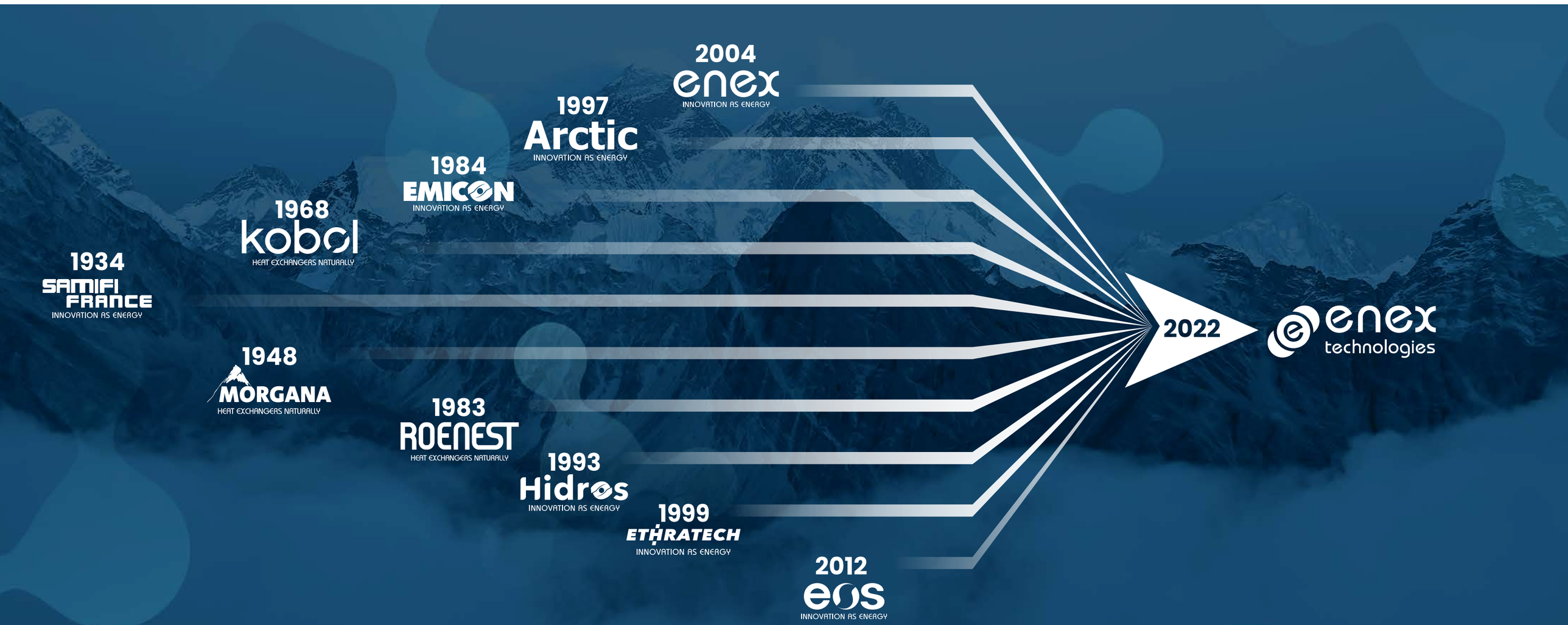
About

Enex Technologies is a transformative world leader in natural and energy efficient cooling, heating, ventilation and refrigeration equipment that began in the 1930s by producing ammonia natural refrigeration equipment, later adding CO_2, water and propane as natural refrigerants with low global warming potential.

Pioneers and innovators in natural HVACR since the 1930s



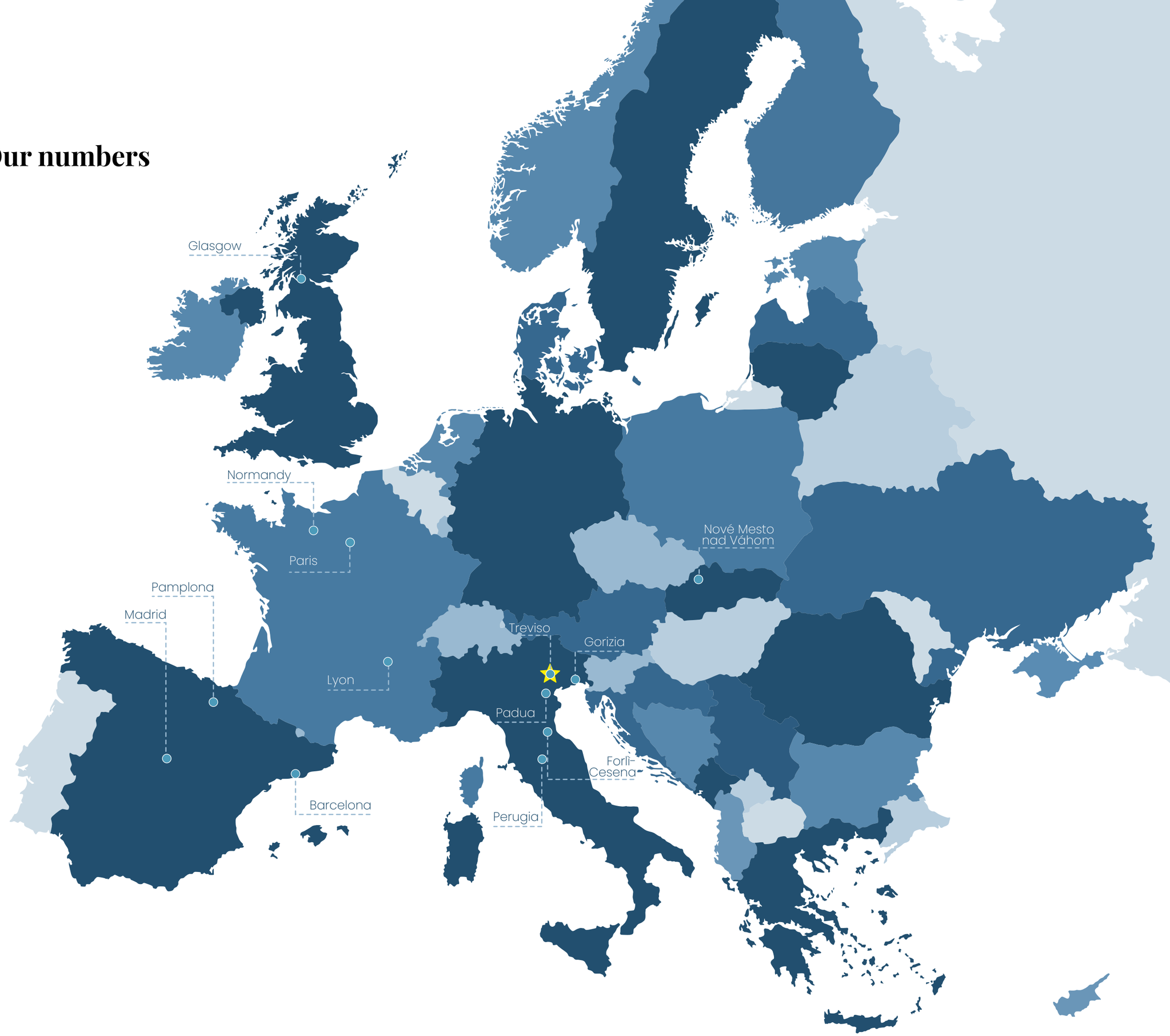
Our numbers

200M€
Revenues

1000+
Employees

12
Factories

125
Countries



★ Headquarter

● Manufacturing, R&D site and commercial office

Our segments

Our leading natural refrigerant, energy efficiency and energy transition technologies transform the HVACR industry.

COOLING

Our chillers are designed to operate efficiently with all refrigerants, generating cold water for climatization or industrial processes.

REFRIGERATION

Our commercial and industrial refrigeration systems are designed for high performance, quality, reliability and carbon footprint reduction through the use of natural refrigerants Ammonia and CO_2.

HEATING

Our high efficiency heat pump range using natural refrigerant CO_2 is a simple-to use, elegant solution for applications requiring high quantities of sanitary hot water.

We are driven by strong values to create a better and more sustainable world

SUSTAINABILITY

Buildings consume 40% of the energy used in the developed world. HVACR systems use 60% of the energy in buildings. Our high efficiency solutions are central to reducing global warming, and we strive every day to help our customers reduce their carbon footprint by using natural refrigerants.

INNOVATION

Always leading. From pioneering the efficient and safe use of natural refrigerants to helping the industry move away from gas heat towards systems that use electricity.

COMMUNITIES

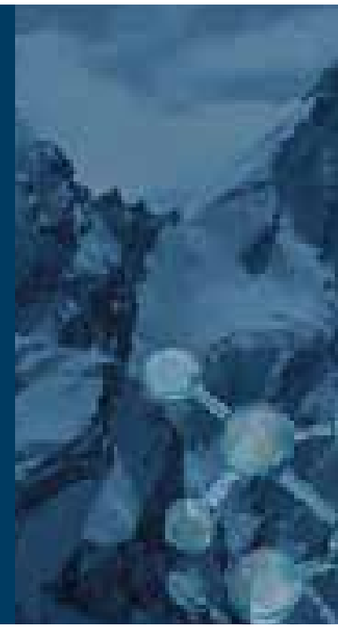
We are a European industrial champion, building clean factories that support new jobs, growth and expansion to new markets.

DIVERSITY & INCLUSION

At Enex Technologies we ensure that every colleague feels respected, valued and motivated to support our customers, every day.

Our leading natural refrigerant, energy efficiency and energy transition technologies transform the HVACR industry

Enex Technologies is committed to developing and improving innovative and efficient low global warming technologies in HVAC, commercial and industrial refrigeration systems that reduce energy consumption and environmental impact.



Natural refrigerants

CO_2 (R744)

CO_2 is a naturally occurring, non-ozone-depleting refrigerant that addresses today's concerns about the global warming potential (GWP) of common F-gases. With a GWP of 1, CO_2 is widely and effectively used in commercial and industrial refrigeration systems.

AMMONIA (R717)

Ammonia is the most widely used natural refrigerant for large industrial applications. With a GWP of 0, ammonia is a cost-effective, efficient, and sustainable alternative refrigerant.

PROPANE (R290)

With its excellent thermodynamic properties and a GWP of 3, Propane is an energy efficient, reliable, versatile, and cost-effective natural refrigerant.

WATER (R718)

Indirect systems using pure water or brine mixtures to transfer heat are simple to install and easy to service in all applications.

CO_2 Gas coolers

GM/GN/GO/GP · 15 - 900 Kw

KGR · 20 - 525 Kw

kW

0 25 50 100 500 1000

CO_2 Evaporators

MR · 1-13 Kw

CR · 0,5 - 20 Kw

XR · 1 - 25 Kw

OC · 6 - 260 Kw

OD · 6 - 157 Kw

KEB · 14 - 92 Kw

KEV · 30 - 90 Kw

kW

0 10 20 50 100 250 500

HFC-HFO Condensers

KCR/CRC · 15 -390 Kw

GPC/GMC/GSC · 3 - 525 Kw

CHN/CAH · 10 - 1300 Kw

KCV · 160 - 1550 Kw

kW

0 25 50 100 500 1000 1500 2000

HFC-HFO Evaporators

MR · 1-12 Kw

CR · 1 - 22 Kw

XR · 1 - 23 Kw

OC · 6 - 233 Kw

OD · 9 - 147 Kw

KEB · 14 - 90 Kw

KEV · 29 - 90 Kw

kW

0 10 20 50 100 250 500

Dry Coolers

DRC · 50 – 350 Kw

DP/DO/DN/DU/DR · 10 – 1050 Kw

KDV · 150 – 1500 Kw

kW

0 25 50 100 500 1000 1500 2000

NH_3 Condensers

ACF · 50 – 1150 Kw

ACV · 185 – 1720 Kw

NCX · 260 – 2450 Kw

kW

0 25 50 100 500 1000 1500 2000 3000

NH_3 Evaporators

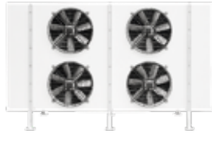
ETFI · 7 – 80 Kw

ARI · 12 – 190 Kw

EDI · 5 – 195 Kw

EDIT · 15 – 420 Kw

ECI · 2-420 Kw



SBFI · 40 – 430 Kw

BTVI · 20 – 540 Kw

BF · 35 – 800 Kw

kW

0 10 20 50 100 250 500 800

Brine Coolers

MR · 1-11 Kw

CR · 1 – 25 Kw

XR · 1 – 25 Kw

OC · 5 – 185 Kw

OD · 5 – 100 Kw

kW

0 10 20 50 100 250 500

CO_2 Evaporators

Enex Technologies' CO_2 Evaporating Coil heat exchangers cover all the needs related to the maximum achievable pressures and the specifications related to CO_2 system design in terms of thermodynamic performance and frame conformation, so that they can be perfectly integrated into the customer's machine or system.

Reliable and environmentally sustainable cooling solutions for industrial and commercial applications.

SLIM COMPACT CO

The reliable, efficient, and eco-friendly cooling solution, ideal for small cold rooms for cooling and freezing applications

MR/MC CO_2

Cooling capacity from 0,8 kW to 4,8 kW
PS=60 bar (80bar as optional)

ENEX TECHNOLOGIES presents the **Slim Compact CO2 Evaporator** range for commercial applications. This unit was designed to meet every need: energy efficiency, ergonomics, space, etc.

All ENEX TECHNOLOGIES products are designed and conceived with levels of excellence in food preservation, robustly built to ensure long life.

Ready to use in CO2 subcritical and transcritical installations, our Slim Compact CO2 line consists of more than 20 models, available in cooling capacities between 0,8 and 4,8 KW.

Our complete portfolio offers a large range of accessories to meet any specification and can be customized according to the application.

LEADING PROFESSIONAL SOLUTIONS IN HEAT REJECTION

ENEX TECHNOLOGIES' assessment of Slim Compact CO2 Evaporator performance parameters under different conditions and control strategies is essential to designing and optimizing the units for specific applications.

Our SLIM COMPACT CO2 EVAPORATORS range which can beare segmented into following ranges:

RANGE	STANDARD CONDITIONS SC2 (kW)	STANDARD CONDITIONS SC3 (kW)
MR / MC CO_2	0,8 - 4,8	0,4 - 2,7

SC2: Air Inlet Temperature 0ºC, Evaporating Temperature -8ºC
SC3: Air Inlet Temperature -18ºC, Evaporating Temperature -25ºC

MAIN FEATURES

With more than 400 years of combined experience in design, production and distribution and doing business in over 125 countries, ENEX TECHNOLOGIES Slim Compact CO_2 Evaporator line offers customers a wide spectrum of benefits including, but not limited to:

HIGH PERFORMANCE

• Staggered arrangement of copper tubes across self-spaced corrugated fins.
• Optimization of circuits for maximum efficiency.
• The EC fans adapt to the needs of the installation with minimal energy consumption (available as optional).

SELECTION SOFTWARE

•Our proprietary selection software gives customers flexibility in adjusting settings as parameters of the application change.

SAFETY

• Ready up to PS=80bar
• Resistance and leaks tests up to 115 bar
• Burst tests up to 240 bar
• Equipment pressurised with nitrogen at 2 bar

QUALITY: ROBUSTNESS + RELIABILITY

• Strong and robust design using high-quality components ensure long life.

SUSTAINABILITY

• With a GWP of 1, CO2 is widely and effectively used in commercial and industrial refrigeration systems.

TECHNICAL FEATURES

NOMENCLATURE

M R 35 CO2 60B

Typology
M = Mini - Slim Compact
Fin Spacing
R = 4,2 mm
C = 7,0 mm
Model code
Technology
CO2 = CO2 evaporator
Service pressure
60B = PS 60bar
80B = PS 80bar

FINNED COILS

• Built with copper tubes Ø 3/8" (MR) and Ø 12mm (MC), manufactured in compliance with the CUPROCLIMA specifications. The staggered arrangement of copper tubes across self-spaced fins, the accurate link between tubes and fins as well as the use of corrugated fins, all this configuration allows our coils to reach the highest performance.
• All coils are subjected to a resistance & leakage test under a rated pressure of 86 bar (PS=60bar) and 115 bar (PS=80bar), also pressurized using nitrogen at 2 bar to avoid the corrosion of the inner surface of the copper tubes.
• Fin spacings is available: 4,2mm / 7mm.

CASING

• The case structure of the unit is manufactured from plate of aluminium-magnesium alloy (97.5% Al-2.5% Mg), giving it a high protection against corrosion, even in extreme environmental conditions; moreover this casing allows to meet more demanding food hygiene standards.
• Includes double drip tray to make the drainage of the water (resulting from defrost) easier.
• For better maintenance the drip tray and fans plate are readily dismounted from the casework giving an easy and fast access to the inside of the unit cooler.

FANS MOTORS

• Fan diameter available: Ø 250 mm.
• Axial fans with external rotor (230V I @ 50/60Hz).
• Equipped as standard with AC fan motors with excellent acoustic performance.
• All motors have class B insulation, grade IP-44 protection, thermal protection device and working on a temperature range from –40°C up to + 40°C.
• Painted fan guards are made of zinc plated steel wire and support a water tight terminal box where the fans' motors are wired.

ELECTRIC DEFROST

• Electric heaters are optional for all MR/MC series. Recommended for use below 2°C air inlet temperature.
• They are shielded by a stainless steel tube and their terminals are vulcanised over it to avoid electric shunts; every heater includes a single ground wireThey are strategically located across the finned coil in order to provide suitable and uniform defrosting.

CO2 · EVAPORATORS
SLIM COMPACT CO_2 - MR/MC CO_2

OPTIONS & ACCESORIES

COIL

• PS=80bar
• Copper Fins
• Coated Fins
• Other material
• AquaAero treatment
• Blygold treatment
• Cataphoresis treatment

CASING

• Aluminium 5052
• White painted
• Stainless-steel casing

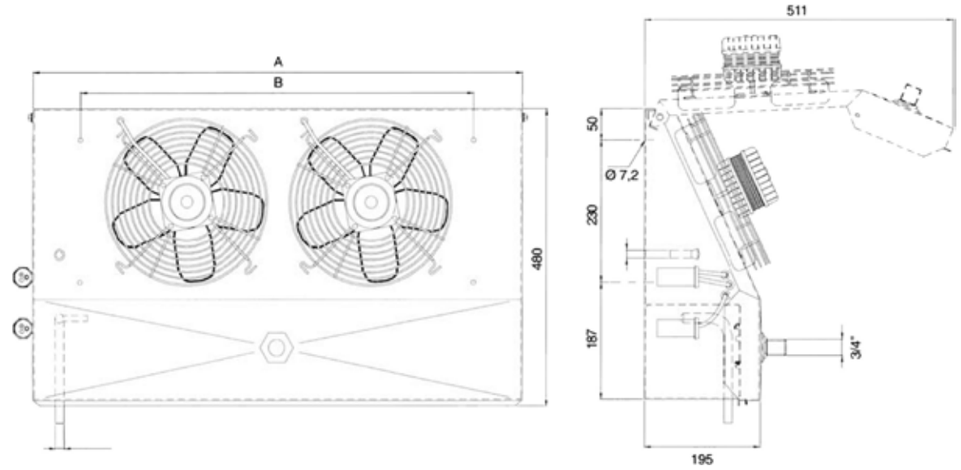
DEFROST

• Hot gas defrost
• Hot gas defrost in coil and electric in tray
• Electric defrost (wired)
• Fan ring heaters

OTHER

• High efficiency fans / EC fans

PRODUCT RANGE OVERVIEW



MODEL		Fans		Dimensions	
		Nº	Ø (mm)	A	B
MR-6	MC-4	1	250	520	348
MR-12	MC-11	2	250	825	653
MR-21	MC-17	3	250	1.130	958
MR-28	MC-23	4	250	1.435	1.263
MR-35	MC-30	5	250	1.740	1.568

TECHNICAL DATA

Fin pitch = 4,2 mm

Fan Ø= 250 mm, RPM = 1.300

Model	Capacity (kW)			Surface	Internal Volume	Air Flow	Air Throw	Fans Data			Electrical defrost		Inlet	Outlet	Weight
	SC2	SC3	SC4	m²	dm³	m³/h	m	N°	kW	A	kW	A	mm	mm	kg
MR-6 CO2	0,8	0,6	0,5	3,5	0,63	440	3,5	1	0,04	0,3	0,3	1,3	3/8"	3/8"	9
MR-12 CO2	1,9	1,4	1,2	7	1,26	880	4,5	2	0,07	0,5	0,5	2,3	3/8"	3/8"	15
MR-21 CO2	3,0	2,1	1,8	10,5	1,89	1.320	5,5	3	0,11	0,8	0,7	3,3	3/8"	3/8"	21
MR-28 CO2	3,9	2,8	2,3	14	2,51	1.760	6,5	4	0,14	1,0	1,0	4,4	3/8"	3/8"	27
MR-35 CO2	4,9	3,5	3,0	17,5	3,14	2.200	7,5	5	0,18	1,3	1,2	5,4	3/8"	3/8"	33

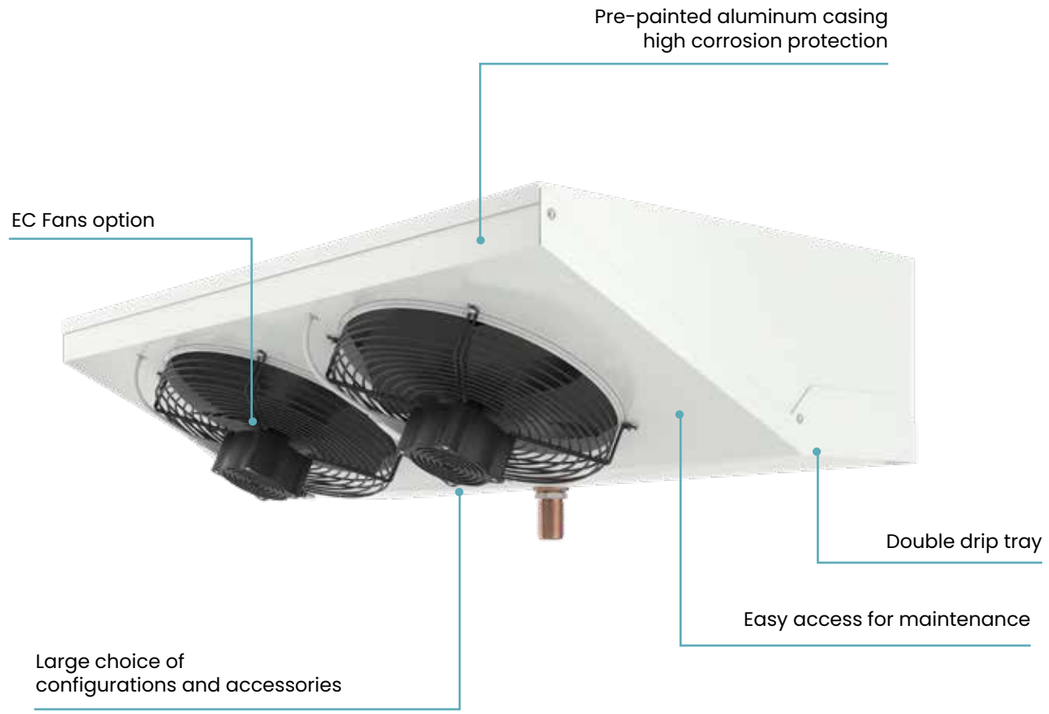
Fin pitch = 7 mm

Fan Ø= 250 mm, RPM = 1.300

Model	Capacity (kW)			Surface	Internal Volume	Air Flow	Air Throw	Fans Data			Electrical defrost		Inlet	Outlet	Weight
	SC2	SC3	SC4	m²	dm³	m³/h	m	N°	kW	A	kW	A	mm	mm	kg
MC-4 CO2	0,6	0,5	0,4	2,3	0,63	455	4,5	1	0,04	0,3	0,6	2,6	3/8"	3/8"	9
MC-11 CO2	1,5	1,1	0,9	4,6	1,26	910	5,5	2	0,07	0,5	1,0	4,7	3/8"	3/8"	15
MC-17 CO2	2,4	1,7	1,5	6,8	1,89	1.365	6,5	3	0,11	0,8	1,5	6,7	3/8"	3/8"	21
MC-23 CO2	3,2	2,3	1,9	9,1	2,51	1.820	7,5	4	0,14	1,0	1,9	8,8	3/8"	3/8"	27
MC-30 CO2	3,9	2,8	2,4	11,3	3,14	2.275	8,5	5	0,18	1,3	2,4	10,8	3/8"	3/8"	33

CO2 · EVAPORATORS
SLIM COMPACT CO_2 - MR/MC CO_2

DISTINCTIVE TECHNOLOGICAL CHOICES OF THE RANGE



EC Fan option

PS = 80 bar Coil option

Easy access for maintenance

CUBIC COMPACT CO2

The reliable, efficient, and sustainable cooling solution, ideal for small and medium cold rooms for cooling and freezing applications

CR/CC

Cooling capacity from 1 kW to 19 kW
PS 60 bar (80bar as optional)

ENEX TECHNOLOGIES presents the **Cubic Compact CO2 Evaporator** range for commercial applications. This unit was designed to meet every need: energy efficiency, ergonomics, space, etc.

All ENEX TECHNOLOGIES products are designed and conceived with levels of excellence in food preservation, robustly built to ensure long life.

Ready to use in CO2 subcritical and transcritical installations, our Cubic Compact CO2 line consists of more than 100 models, available in cooling capacities between 1 and 19 KW.

Our complete portfolio offers a large range of accessories to meet any specification and can be customized according to the application.

LEADING PROFESSIONAL SOLUTIONS IN HEAT REJECTION

ENEX TECHNOLOGIES' assessment of Cubic Compact CO2 Evaporator performance parameters under different conditions and control strategies is essential to designing and optimizing the units for specific applications.

Our CUBIC COMPACT CO2 EVAPORATORS are segmented into two ranges:

RANGE	STANDARD CONDITIONS SC2 (kW)	STANDARD CONDITIONS SC3 (kW)
CR/CC CO2	1 - 19	0,4 - 11

SC2: Air Inlet Temperature 0ºC, Evaporating Temperature -8ºC
SC3: Air Inlet Temperature -18ºC, Evaporating Temperature -25ºC

MAIN FEATURES

With more than 400 years of combined experience in design, production and distribution and doing business in over 125 countries, ENEX TECHNOLOGIES Cubic Compact CO2 Evaporator line offers customers a wide spectrum of benefits including, but not limited to:

HIGH PERFORMANCE

• Square arrangement of copper tubes across self-spaced corrugated fins.
• Optimization of circuits for maximum efficiency.
• Optional EC fans adapt to the needs of the installation application with minimal energy consumption

SELECTION SOFTWARE

• Our proprietary selection software gives customers flexibility in adjusting settings as parameters of the application change.

SAFETY

• Ready up to PS 80 bar
• Resistance and leak tests up to 115 bar
• Burst tests up to 240 bar
• Equipment pressurized with nitrogen at 2 bar

QUALITY: ROBUSTNESS + RELIABILITY

• Strong and robust design using high-quality components ensure long life.

SUSTAINABILITY

• With a GWP of 1, CO2 is widely and effectively used in commercial and industrial refrigeration systems.

TECHNICAL FEATURES

NOMENCLATURE

C R 25 CO2 60B

Typology
C = Cubic
Fin Spacing
R = 4,5 mm
C = 7,0 mm
Model code
Technology
CO2 = CO2 evaporator
Service pressure
60B = PS 60bar
80B = PS 80bar

FINNED COILS

• Built with copper tubes Ø 12mm, manufactured in compliance with the CUPROCLIMA specifications. The staggered arrangement of copper tubes across self-spaced fins, the accurate link between tubes and fins as well as the use of corrugated fins, all this configuration allows our coils to reach the highest performance.
• All coils are subjected to a resistance & leakage test under a rated pressure of 86 bar (PS=60bar) and 115 bar (PS=80bar), also pressurized using nitrogen at 2 bar to avoid the corrosion of the inner surface of the copper tubes.
• Fin spacings available: 4,5mm / 7mm

CASING

• The case structure of the unit is manufactured from plate of aluminium-magnesium alloy (97.5% Al-2.5% Mg) , giving it a high protection against corrosion, even in extreme environmental conditions; moreover this casing allows to meet more demanding food hygiene standards.
• Includes double drip tray to make the drainage of the water (resulting from defrost) easier.
• For better maintenance the drip tray and endplates are readily dismounted from the casework giving an easy and fast access to the inside of the unit cooler.

FANS MOTORS

• Fan diameter available: Ø 250/315/350 mm.
• Axial fans with external rotor (230V I @ 50/60Hz).
• Equipped as standard with AC fan motors with excellent acoustic performance.
• All motors have class B insulation, grade IP-44 protection, thermal protection device and working on a temperature range from –40ºC up to + 40ºC (from –25ºC up to + 40ºC for EC fan)
• Painted fan guards are made of zinc plated steel wire and support a water tight terminal box where the fans' motors are wired.

ELECTRIC DEFROST

• Electric heaters are optional for all CR/CC series. Recommended for use below 2ºC air inlet temperature.
• They are strategically located across the finned coil in order to provide suitable and uniform defrosting.

CO2 · EVAPORATORS
CUBIC COMPACT - CR/ CC CO_2

OPTIONS & ACCESORIES

COIL

• PS=80bar
• Copper Fins
• Coated Fins
• Other material
• AquaAero treatment
• Blygold treatment
• Cataphoresis treatment

CASING

• Aluminium 5052
• White painted
• Stainless-steel casing
• Insulated drip tray

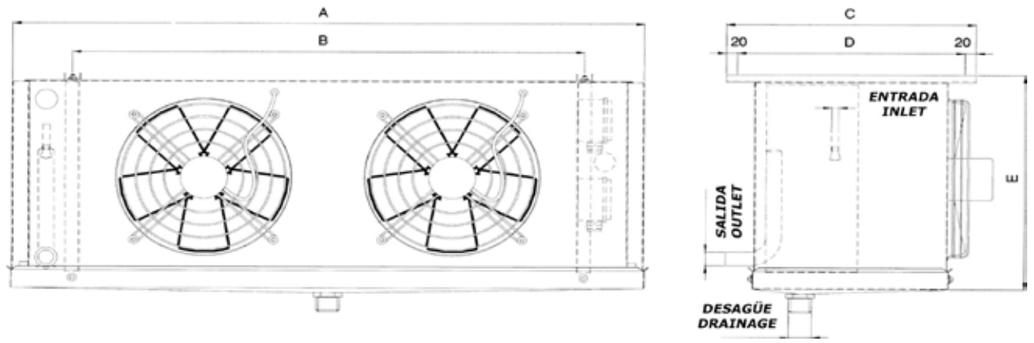
DEFROST

• Hot gas defrost
• Hot gas defrost in coil and electric in tray
• Electric defrost (wired)
• Fan ring heaters

OTHER

• High efficiency fans / EC fans

PRODUCT RANGE OVERVIEW



MODEL		Fans		Dimensions				
		Nº	Ø (mm)	A	B	c	D	E
CR-9	CC-5	1	250	575	335	410	370	375
CR-12	CC-9	1	250	575	335	410	370	375
CR-18	---	2	250	905	685	410	370	375
CR-25	CC-15	1	315	695	475	450	410	440
CR-32	CC-19	3	250	1.235	1.015	410	370	375
CR-39	CC-27	1	350	905	685	490	450	565
CR-44	CC-33	2	315	1.145	925	450	410	440
CR-52	CC-41	2	315	1.145	925	450	410	440
CR-67	CC-50	3	315	1.595	1.375	450	410	440
CR-79	CC-56	2	350	1.565	1.345	490	450	565
CR-96	CC-75	2	350	1.565	1.345	490	450	565
CR-119	CC-85	3	350	2.225	2.005	490	450	565
CR-148	CC-114	3	350	2.225	2.005	490	450	565

CO2 · EVAPORATORS
CUBIC COMPACT - CR/ CC CO_2

TECHNICAL DATA

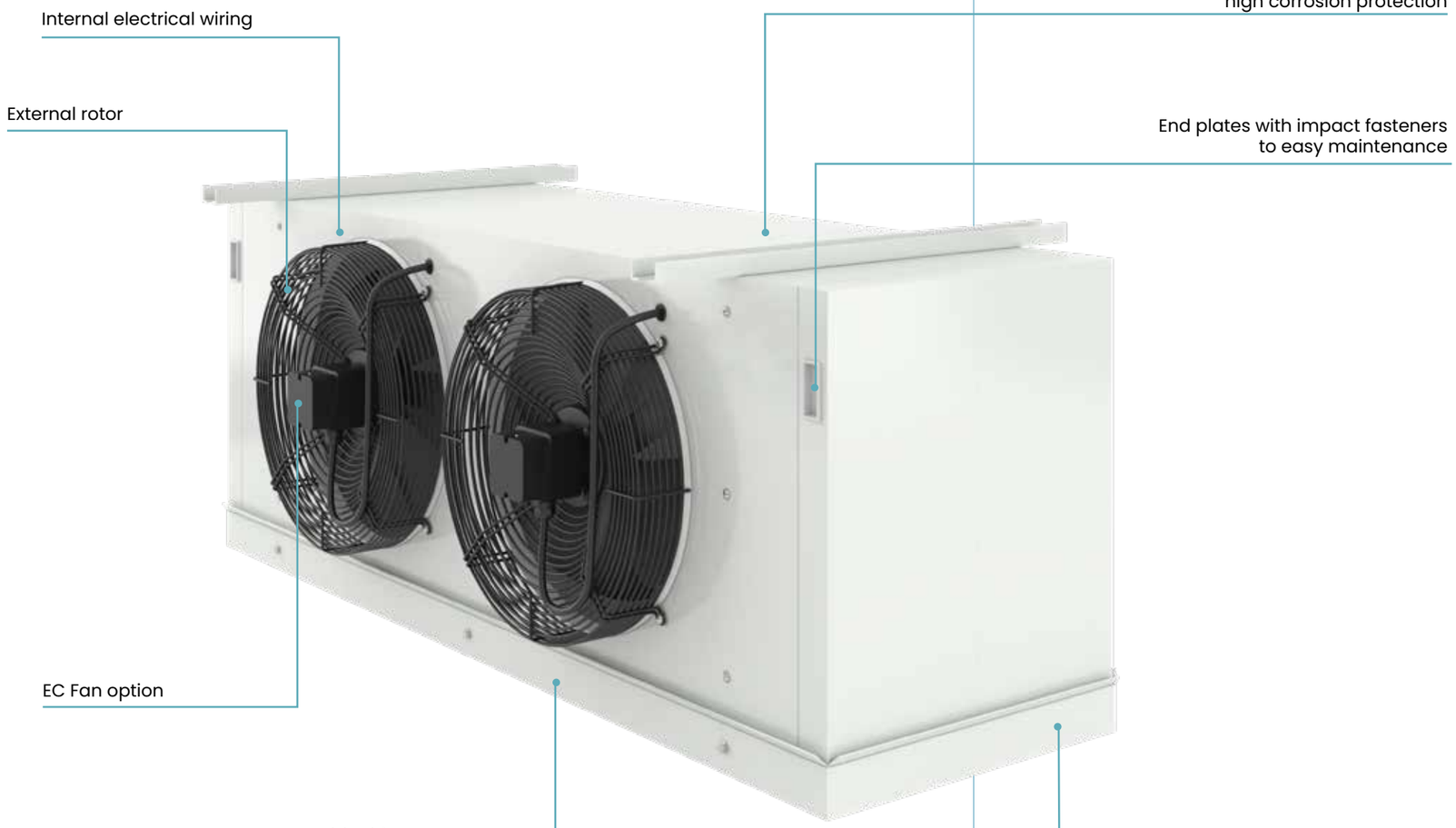
Fin pitch = 4,5 mm

Model	Capacity (kW)			Surface	Internal Volume	Air Flow	Air Throw	Fans Data					Electrical defrost		Inlet	Outlet	Weight
	SC2	SC3	SC4	m²	dm³	m³/h	m	Nº	Ø	RPM	kW	A	kW	A	mm	mm	kg
CR-9 CO_2	1,1	0,8	0,7	5,7	1,3	800	8,0	1	250	1.300	0,04	0,3	0,9	1,5	3/8"	3/8"	11
CR-12 CO_2	1,5	1,1	0,9	8,5	2,0	650	7,0	1	250	1.300	0,04	0,3	1,1	1,9	3/8"	3/8"	14
CR-18 CO_2	2,2	1,6	1,3	8,5	2,0	1.600	9,0	2	250	1.300	0,07	0,5	1,5	2,6	3/8"	3/8"	17
CR-25 CO_2	3,4	2,5	2,1	13,9	3,2	1.500	14,5	1	315	1.350	0,11	0,5	1,4	2,3	3/8"	3/8"	22
CR-32 CO_2	4,4	3,1	2,7	17	3,9	2.200	10,0	3	250	1.300	0,11	0,8	2,1	3,8	3/8"	3/8"	27
CR-39 CO_2	5,2	3,7	3,2	18,1	4,2	2.825	20,0	1	350	1.350	0,15	0,7	2,4	5,1	3/8"	3/8"	29
CR-44 CO_2	6,0	4,3	3,6	18,5	4,3	3.500	17,0	2	315	1.350	0,22	1,1	2,4	3,9	3/8"	3/8"	34
CR-52 CO_2	6,6	4,8	4,1	27,8	6,4	2.870	16,0	2	315	1.350	0,22	1,1	3,2	6,9	3/8"	1/2"	44
CR-67 CO_2	8,7	6,4	5,4	27,8	6,4	5.250	18,0	3	315	1.350	0,33	1,6	3,4	5,4	1/2"	1/2"	49
CR-79 CO_2	10,4	7,5	6,3	36,2	8,3	5.650	24,0	2	350	1.350	0,33	1,5	4,5	9,3	1/2"	1/2"	56
CR-96 CO_2	12,7	9,0	7,5	54,3	12,4	5.200	22,0	2	350	1.350	0,33	1,5	5,5	9,7	1/2"	1/2"	71
CR-119 CO_2	15,6	11,2	9,5	54,3	12,4	8.475	27,0	3	350	1.350	0,50	2,2	6,4	13,5	5/8"	5/8"	81
CR-148 CO_2	19,1	13,5	11,3	81,4	18,7	7.800	25,0	3	350	1.350	0,50	2,2	8,0	14,2	5/8"	5/8"	105

Fin pitch = 7 mm

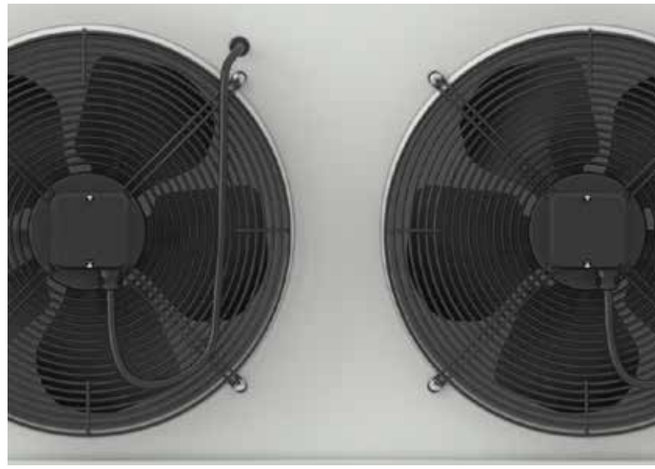
Model	Capacity (kW)			Surface	Internal Volume	Air Flow	Air Throw	Fans Data					Electrical defrost		Inlet	Outlet	Weight
	SC2	SC3	SC4	m²	dm³	m³/h	m	Nº	Ø	RPM	kW	A	kW	A	mm	mm	kg
CC-5 CO_2	0,5	0,4	0,3	2,9	1,0	800	9,0	1	250	1.300	0,04	0,3	0,9	1,5	3/8"	3/8"	9
CC-9 CO_2	1,2	0,9	0,7	5,8	2,0	650	8,0	1	250	1.300	0,04	0,3	1,1	1,9	3/8"	3/8"	12
CC-15 CO_2	2,1	1,5	1,2	6,3	2,1	1.800	19,0	1	315	1.350	0,11	0,5	1,4	2,3	3/8"	3/8"	18
CC-19 CO_2	2,8	2,0	1,7	8,7	2,9	2.400	16,0	3	250	1.300	0,11	0,8	2,1	3,8	3/8"	3/8"	23
CC-27 CO_2	4,1	2,9	2,5	12,4	4,2	2.800	22,0	1	350	1.350	0,15	0,7	2,4	5,1	3/8"	3/8"	28
CC-33 CO_2	4,9	3,5	2,9	12,6	4,3	3.670	19,0	2	315	1.350	0,22	1,1	2,4	3,9	3/8"	3/8"	32
CC-41 CO_2	5,8	4,2	3,5	18,9	6,4	3.200	17,0	2	315	1.350	0,22	1,1	3,2	6,9	3/8"	1/2"	39
CC-50 CO_2	7,0	5,1	4,3	18,9	6,4	5.490	20,0	3	315	1.350	0,33	1,6	3,4	5,4	1/2"	1/2"	46
CC-56 CO_2	8,2	5,8	4,9	24,7	8,3	5.600	25,0	2	350	1.350	0,33	1,5	4,5	9,3	1/2"	1/2"	52
CC-75 CO_2	10,7	7,5	6,4	37	12,4	5.360	23,0	2	350	1.350	0,33	1,5	5,5	9,7	5/8"	5/8"	67
CC-85 CO_2	12,5	8,8	7,5	37	12,4	8.545	28,0	3	350	1.350	0,50	2,2	6,4	13,5	5/8"	5/8"	78
CC-114 CO_2	16,2	11,4	9,7	55,5	18,7	8.050	26,0	3	350	1.350	0,50	2,2	8,0	14,2	5/8"	5/8"	98

DISTINCTIVE TECHNOLOGICAL CHOICES OF THE RANGE



CO2 · EVAPORATORS
CUBIC COMPACT - CR/ CC CO_2

EC Fan option



PS = 80 bar Coil option

End plates with impact fasteners to easy maintenance

DUAL FLOW COMPACT CO2

The reliable, efficient, and sustainable cooling solution, ideal for small and medium cold rooms for cooling and freezing applications.

XR/XC CO_2

Cooling capacity from 1 ,8 kW to 18,5 kW
PS=60 bar (80bar as optional)

ENEX TECHNOLOGIES presents the **Dual Flow Compact CO2 Evaporator** range for commercial applications. This unit was designed to meet every need: energy efficiency, ergonomics, space, etc.

All ENEX TECHNOLOGIES products are designed and conceived with levels of excellence in food preservation, robustly built to ensure long life.

Ready to use in CO2 subcritical and transcritical installations, consists of more than 20 models, available in cooling capacities between 1,8 and 18,5 KW.

Our complete portfolio offers a large range of accessories to meet any specification and can be customized according to the application.

LEADING PROFESSIONAL SOLUTIONS IN HEAT REJECTION

ENEX TECHNOLOGIES' assessment of Dual Flow Compact CO2 Evaporator performance parameters under different conditions and control strategies is essential to designing and optimizing the units for specific applications.

Our DUAL FLOW COMPACT CO2 EVAPORATORS can be segmented into two ranges:

RANGE	STANDARD CONDITIONS SC2 (kW)	STANDARD CONDITIONS SC3 (kW)
XR/XC CO2	1,8 - 18,5	1 - 11

SC2: Air Inlet Temperature 0°C, Evaporating Temperature -8°C
SC3: Air Inlet Temperature -18°C, Evaporating Temperature -25°C

MAIN FEATURES

With more than 400 years of combined experience in design, production and distribution and doing business in over 125 countries, ENEX TECHNOLOGIES Dual Flow Compact CO2 Evaporator line offers customers a wide spectrum of benefits including, but not limited to:

HIGH PERFORMANCE

• Staggered arrangement of the copper tubes across selfspaced fins, the accurate link between tubes and fins as well as the use of corrugated fins allow our finned coils to reach high performance.
• Optimization of circuits for maximum efficiency.
• The EC fans adapt to the needs of the installation with minimal energy consumption (available as optional).

SELECTION SOFTWARE

•Our proprietary selection software gives customers flexibility in adjusting settings as parameters of the application change.

SAFETY

• Ready up to PS=80bar
• Resistance and leaks tests up to 115 bar
• Burst tests up to 240 bar
• Equipment pressurised with nitrogen at 2 bar

QUALITY: ROBUSTNESS + RELIABILITY

• High-quality components guarantee a long life product. Strong and robust design

SUSTAINABILITY

• With a GWP of 1, CO2 is widely and effectively used in commercial and industrial refrigeration systems.

TECHNICAL FEATURES

NOMENCLATURE

X R 41 CO2 60B

Typology
X = Dual flow
Fin Spacing
R = 3,5 mm
C = 6,0 mm
Model code
Technology
CO2 = CO2 evaporator
Service pressure
60B = PS 60bar
80B = PS 80bar

FINNED COILS

• Built with copper tubes Ø 12mm, manufactured in compliance with the CUPROCLIMA specifications. The staggered arrangement of copper tubes across self-spaced fins, the accurate link between tubes and fins as well as the use of corrugated fins, all this configuration allows our coils to reach the highest performance.
• All coils are subjected to a resistance & leakage test under a rated pressure of 86 bar (PS=60bar) and 115 bar (PS=80bar), also pressurized using nitrogen at 2 bar to avoid the corrosion of the inner surface of the copper tubes.
• Fin spacings available: 3,5mm / 6mm

CASING

• The case structure of the unit is manufactured from plate of aluminium-magnesium alloy (97.5% Al-2.5% Mg), giving it a high protection against corrosion, even in extreme environmental conditions; moreover this casing allows to meet more demanding food hygiene standards.
• Includes double drip tray to make the drainage of the water (resulting from defrost) easier.
• For better maintenance the drip tray and endplates are readily dismounted from the casework giving an easy and fast access to the inside of the unit cooler.

FANS MOTORS

• Fan diameter available: Ø 300 mm.
• Axial fans with external rotor (230V I @ 50/60Hz).
• Equipped as standard with AC fan motors with excellent acoustic performance.
• All motors have class B insulation, grade IP-44 protection, thermal protection device and working on a temperature range from –40°C up to +40°C (from –25°C up to +60°C for EC fan)
• Painted fan guards are made of zinc plated steel wire and support a water tight terminal box where the fans' motors are wired.

ELECTRIC DEFROST

• Electric heaters are optional for all XR/XC series. Recommended for use below 2°C air inlet temperature.
• They are strategically located across the finned coil in order to provide suitable and uniform defrosting.

CO2 · EVAPORATORS
DUAL FLOW COMPACT - XR/XC CO_2

OPTIONS & ACCESORIES

COIL

• PS=80bar
• Copper Fins
• Coated Fins
• Other material
• AquaAero treatment
• Blygold treatment
• Cataphoresis treatment

CASING

• Aluminium 5052
• White painted
• Stainless-steel casing

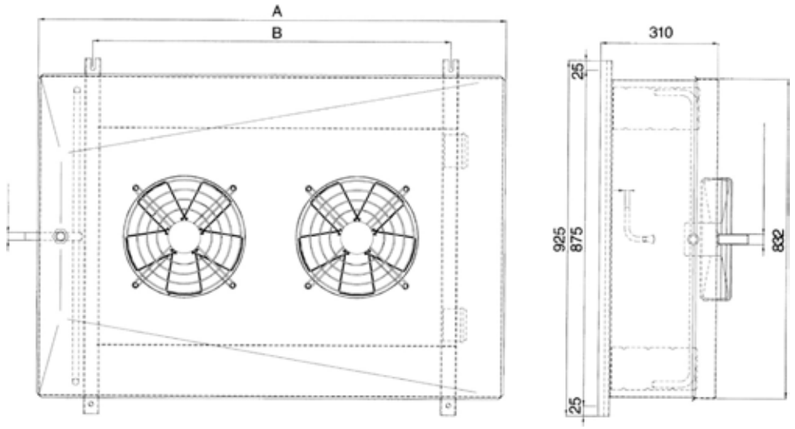
DEFROST

• Hot gas defrost
• Hot gas defrost in coil and electric in tray
• Electric defrost (wired)
• Fan ring heaters

OTHER

• High efficiency fans / EC fans

PRODUCT RANGE OVERVIEW



MODEL		Fans		Dimensions	
		Nº	Ø (mm)	A	B
XR-20	XC-17	1	300	768	480
XR-41	XC-35	2	300	1.218	930
XR-71	XC-49	3	300	1.668	1.380
XR-87	XC-71	4	300	2.188	1.830
XR-115	XC-87	5	300	2.568	2.280
XR-137	XC-107	6	300	2.920	2.730

TECHNICAL DATA

Fin pitch = 3,5 mm

Fan Ø= 300 mm, RPM = 1.050

Model	Capacity (kW)			Surface	Internal Volume	Air Flow	Air Throw	Fans Data			Electrical defrost		Inlet	Outlet	Weight
	SC2	SC3	SC4	m²	dm³	m³/h	m	Nº	kW	A	kW	A	mm	mm	kg
XR-20 LS CO_2	1,9	1,4	1,2	13,6	2,48	1.100	2x5,0	1	0,08	0,3	1,1	1,9	3/8"	3/8"	26
XR-41 LS CO_2	4,9	3,6	3,0	27,1	4,95	2.200	2x6,0	2	0,15	0,7	2,0	3,5	3/8"	3/8"	44
XR-71 LS CO_2	7,8	5,6	4,8	40,7	7,43	3.300	2x7,0	3	0,23	1,0	2,8	5,0	1/2"	1/2"	59
XR-87 LS CO_2	10,6	7,5	6,4	54,2	9,9	4.400	2x8,0	4	0,30	1,4	3,6	6,5	1/2"	1/2"	86
XR-115 LS CO_2	12,6	9,2	7,8	67,8	12,37	5.500	2x9,0	5	0,38	1,7	4,5	8,0	5/8"	5/8"	98
XR-137 LS CO_2	15,5	11,1	9,5	81,3	14,84	6.600	2x11,0	6	0,46	2,0	5,3	9,5	5/8"	5/8"	120

Fan Ø= 300 mm, RPM = 1.390

Model	Capacity (kW)			Surface	Internal Volume	Air Flow	Air Throw	Fans Data			Electrical defrost		Inlet	Outlet	Weight
	SC2	SC3	SC4	m²	dm³	m³/h	m	Nº	kW	A	kW	A	mm	mm	kg
XR-20 HS CO_2	2,2	1,7	1,3	13,6	2,48	1.450	2x7,0	1	0,08	0,3	1,1	1,9	3/8"	3/8"	26
XR-41 HS CO_2	5,8	4,3	3,6	27,1	4,95	2.900	2x8,0	2	0,15	0,7	2,0	3,5	3/8"	3/8"	44
XR-71 HS CO_2	9,3	6,7	5,7	40,7	7,43	4.350	2x9,0	3	0,23	1,0	2,8	5,0	1/2"	1/2"	59
XR-87 HS CO_2	12,6	8,9	7,6	54,2	9,9	5.800	2x10,0	4	0,30	1,4	3,6	6,5	1/2"	1/2"	86
XR-115 HS CO_2	15,1	11,0	9,4	67,8	12,37	7.250	2x12,0	5	0,38	1,7	4,5	8,0	5/8"	5/8"	98
XR-137 HS CO_2	18,6	13,4	11,4	81,3	14,84	8.700	2x14,0	6	0,46	2,0	5,3	9,5	5/8"	5/8"	120

Fin pitch = 6 mm

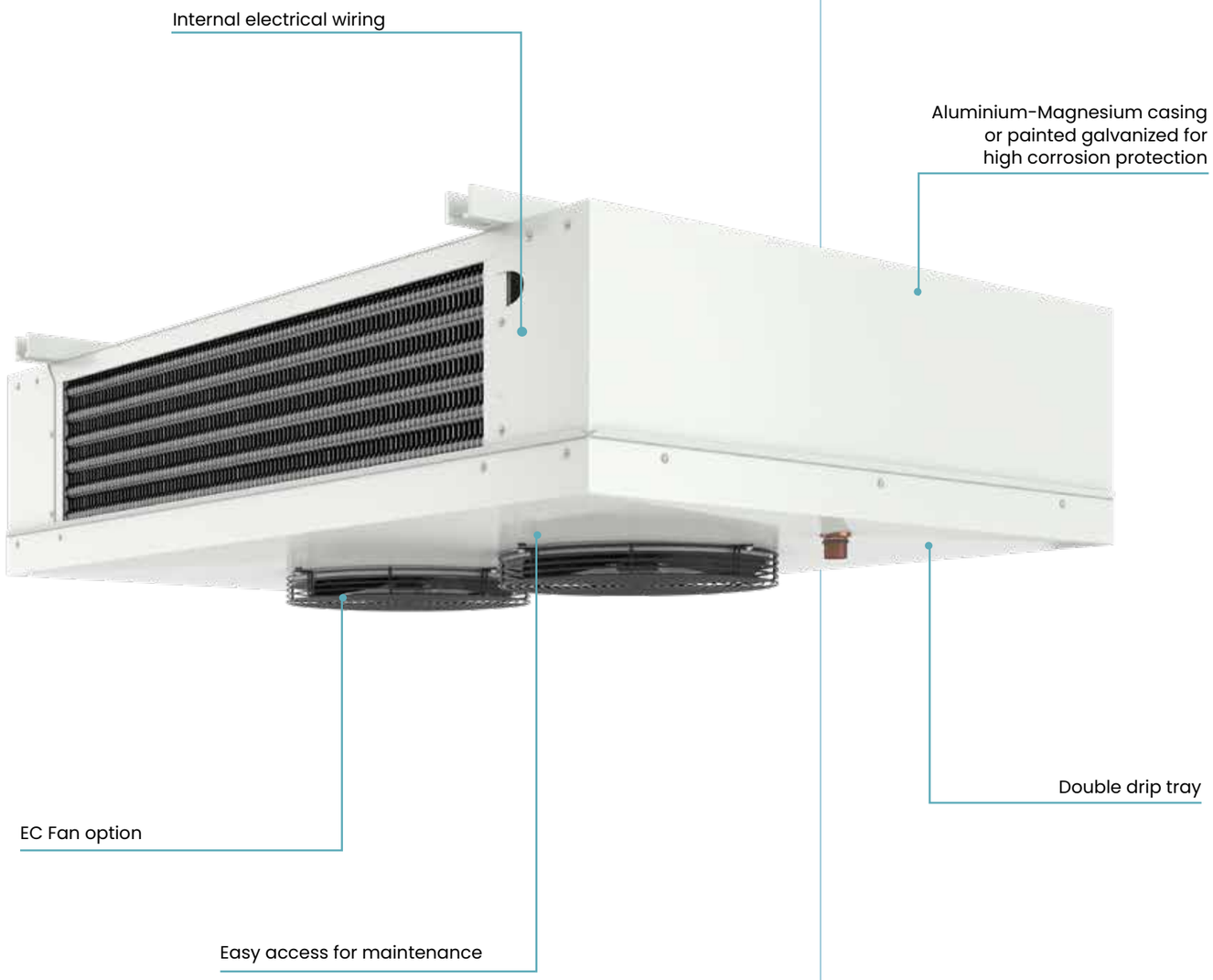
Fan Ø= 300 mm, RPM = 1.050

Model	Capacity (kW)			Surface	Internal Volume	Air Flow	Air Throw	Fans Data			Electrical defrost		Inlet	Outlet	Weight
	SC2	SC3	SC4	m²	dm³	m³/h	m	Nº	kW	A	kW	A	mm	mm	kg
XC-17 LS CO_2	1,4	1,0	0,8	7,8	2,48	1.130	2x6,0	1	0,08	0,3	1,1	1,9	3/8"	3/8"	25
XC-35 LS CO_2	4,0	2,8	2,3	15,5	4,95	2.260	2x7,0	2	0,15	0,7	2,0	3,5	3/8"	3/8"	42
XC-49 LS CO_2	6,4	4,5	3,8	23,2	7,43	3.390	2x8,0	3	0,23	1,0	2,8	5,0	1/2"	1/2"	56
XC-71 LS CO_2	8,7	6,1	5,2	30,9	9,9	4.520	2x9,0	4	0,30	1,4	3,6	6,5	1/2"	1/2"	82
XC-87 LS CO_2	10,3	7,4	6,1	38,7	12,37	5.650	2x10,0	5	0,38	1,7	4,5	8,0	5/8"	5/8"	94
XC-107 LS CO_2	12,7	9,0	7,7	46,4	14,84	6.780	2x12,0	6	0,46	2,0	5,3	9,5	5/8"	5/8"	114

Fan Ø= 300 mm, RPM = 1.390

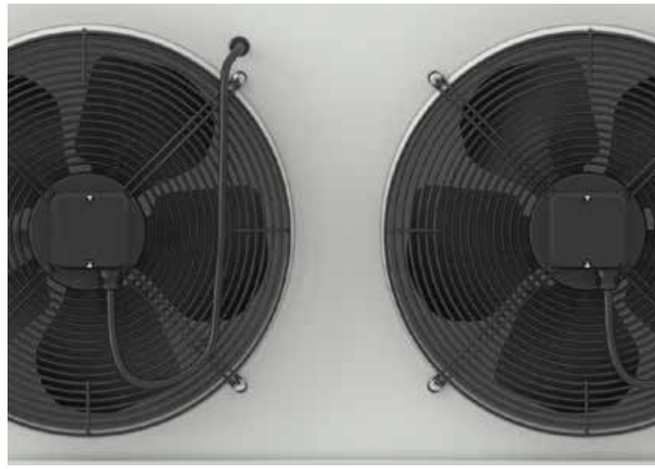
Model	Capacity (kW)			Surface	Internal Volume	Air Flow	Air Throw	Fans Data			Electrical defrost		Inlet	Outlet	Weight
	SC2	SC3	SC4	m²	dm³	m³/h	m	Nº	kW	A	kW	A	mm	mm	kg
XC-17 HS CO_2	1,6	1,2	1,0	7,8	2,48	1.500	2x8,0	1	0,08	0,3	1,1	1,9	3/8"	3/8"	25
XC-35 HS CO_2	4,7	3,4	2,8	15,5	4,95	3.000	2x9,0	2	0,15	0,7	2,0	3,5	3/8"	3/8"	42
XC-49 HS CO_2	7,6	5,4	4,6	23,2	7,43	4.500	2x10,0	3	0,23	1,0	2,8	5,0	1/2"	1/2"	56
XC-71 HS CO_2	10,4	7,3	6,2	30,9	9,9	6.000	2x11,0	4	0,30	1,4	3,6	6,5	1/2"	1/2"	82
XC-87 HS CO_2	12,2	8,9	7,5	38,7	12,37	7.500	2x13,0	5	0,38	1,7	4,5	8,0	5/8"	5/8"	94
XC-107 HS CO_2	15,1	10,8	9,2	46,4	14,84	9.000	2x15,0	6	0,46	2,0	5,3	9,5	5/8"	5/8"	114

DISTINCTIVE TECHNOLOGICAL CHOICES OF THE RANGE



CO2 · EVAPORATORS
DUAL FLOW COMPACT - XR/XC CO_2

EC Fan option



PS = 80 bar Coil option

End plates with impact fasteners to easy maintenance

HFC-HFO Evaporators

Enex Technologies' Evaporating Coil heat exchangers are compatible with all design requirements from the current low-GWP refrigerants available today. They are made according to customer specifications in terms of thermodynamic, structural and frame conformation performance, so that they can be perfectly integrated into the customer's machine or system.

Reliable and low GWP solutions for industrial and commercial applications

SLIM COMPACT HFC-HFO

The reliable, efficient, and eco-friendly cooling solution, ideal for small cold rooms for cooling and freezing applications

MR/MC

Cooling capacity from 0,7 kW to 4,2 kW

ENEX TECHNOLOGIES presents the **Slim Compact Evaporator** range for commercial applications. This unit was designed to meet every need: energy efficiency, ergonomics, space, etc.

All ENEX TECHNOLOGIES products are designed and conceived with levels of excellence in food preservation, robustly built to ensure long life.

Ready to use in installations with Low-GWP refrigerants, our Slim Compact Evaporator HFC-HFO line consists of more than 20 models, available in cooling capacities between 0,7 and 4,2 KW.

Our complete portfolio offers a large range of accessories to meet any specification and can be customized according to the application.

LEADING PROFESSIONAL SOLUTIONS IN HEAT REJECTION

ENEX TECHNOLOGIES' assessment of slim compact evaporator performance parameters under different conditions and control strategies is essential to designing and optimizing the units for specific applications.

Our SLIM COMPACT EVAPORATOR line is segmented into two ranges:

RANGE	STANDARD CONDITIONS SC2 (kW)	STANDARD CONDITIONS SC3 (kW)
MR / MC	0,7 - 4,2	0,4 - 2,6

SC2: Air Inlet Temperature 0°C, Evaporating Temperature -8°C
SC3: Air Inlet Temperature -18°C, Evaporating Temperature -25°C

MAIN FEATURES

With more than 400 years of combined experience in design, production and distribution and doing business in over 125 countries, ENEX TECHNOLOGIES Slim Compact HFC-HFO line offers customers a wide spectrum of benefits including, but not limited to:

HIGH PERFORMANCE

- Staggered arrangement of copper tubes across self-spaced corrugated fins.
- Optimization of circuits for maximum efficiency.
- The EC fans adapt to the needs of the installation with minimal energy consumption (available as optional).

SELECTION SOFTWARE

- Available for ENEX TECHNOLOGIES customers, for greater comfort and dynamism in the day-to-day activities.

SAFETY

- Ready up to PS=30bar
- Resistance and leaks tests up to 43 bar
- Burst tests up to 90 bar
- Equipment pressurised with nitrogen at 2 bar

QUALITY: ROBUSTNESS + RELIABILITY

- Strong and robust design using high-quality components ensure long life.

SUSTAINABILITY

- A2L READY
- Low GWP refrigerants:
  - R1234yf: GWP=4
  - R1234ze: GWP=6
  - R455A: GWP=145
  - R454C: GWP=146

TECHNICAL FEATURES

NOMENCLATURE

M R 35

Typology
M = "Mini" / Slim Compact
Fin Spacing
R = 4,2 mm
C = 7,0 mm
Model code

FINNED COILS

• Built with copper tubes Ø 3/8" (MR) and Ø 12mm (MC), manufactured in compliance with the CUPROCLIMA specifications. The staggered arrangement of copper tubes across self-spaced fins, the accurate link between tubes and fins as well as the use of corrugated fins, all this configuration allows our coils to reach the highest performance.
• All coils are subjected to a resistance & leakage test under a rated pressure of 43 bar (PS=30bar) and 65 bar (PS=45bar), also pressurized using nitrogen at 2 bar to avoid the corrosion of the inner surface of the copper tubes.
• Fin spacings is available: 4,2mm / 7mm.

CASING

• The case structure of the unit is manufactured from plate of aluminium-magnesium alloy (97.5% Al-2.5% Mg), giving it a high protection against corrosion, even in extreme environmental conditions; moreover this casing allows to meet more demanding food hygiene standards.
• Includes double drip tray to make the drainage of the water (resulting from defrost) easier.
• For better maintenance the drip tray and fans plate are readily dismounted from the casework giving an easy and fast access to the inside of the unit cooler.

FAN MOTORS

• Fan diameter available: Ø 250 mm.
• Axial fans with external rotor (230V I @ 50/60Hz).
• Equipped as standard with AC fan motors with excellent acoustic performance.
• All motors have class B insulation, grade IP-44 protection, thermal protection device and working on a temperature range from –40ºC up to + 40ºC.
• Painted fan guards are made of zinc plated steel wire and support a water tight terminal box where the fans' motors are wired.

ELECTRIC DEFROST

• Electric heaters are optional for all MR/MC series. Recommended for use below 2ºC air inlet temperature.
• They are shielded by a stainless steel tube and their terminals are vulcanised over it to avoid electric shunts; every heater includes a single ground wireThey are strategically located across the finned coil in order to provide suitable and uniform defrosting.

HFC-HFO · EVAPORATORS
SLIM COMPACT - MR/MC

OPTIONS & ACCESORIES

COIL

• PS=45bar
• Copper Fins
• Coated Fins
• Other material
• AquaAero treatment
• Blygold treatment
• Cataphoresis treatment

CASING

• Aluminium 5052
• White painted
• Stainless-steel casing

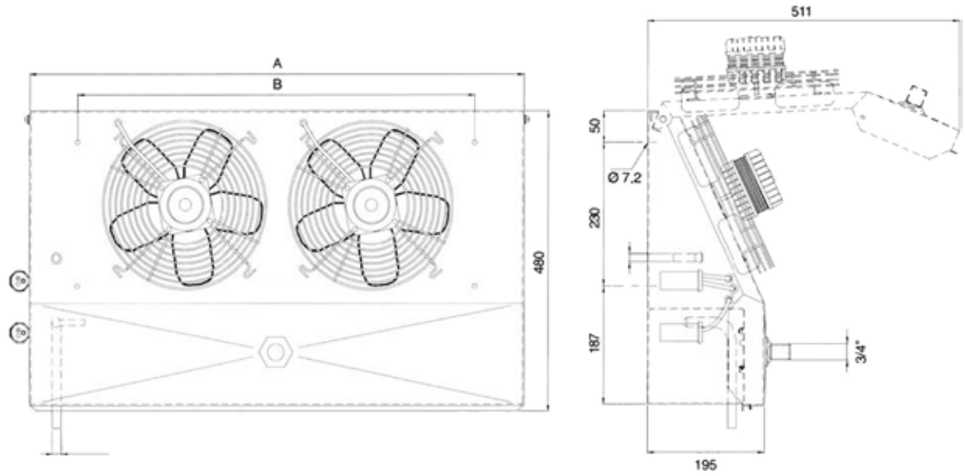
DEFROST

• Hot gas defrost
• Hot gas defrost in coil and electric in tray
• Electric defrost (wired)
• Fan ring heaters

OTHER

• High efficiency fans / EC fans

PRODUCT RANGE OVERVIEW



MODEL		Fans		Dimensions	
		Nº	Ø (mm)	A	B
MR-6	MC-4	1	250	520	348
MR-12	MC-11	2	250	825	653
MR-21	MC-17	3	250	1.130	958
MR-28	MC-23	4	250	1.435	1.263
MR-35	MC-30	5	250	1.740	1.568

TECHNICAL DATA

Fin pitch = 4,2 mm

Fan Ø= 250 mm, RPM = 1300

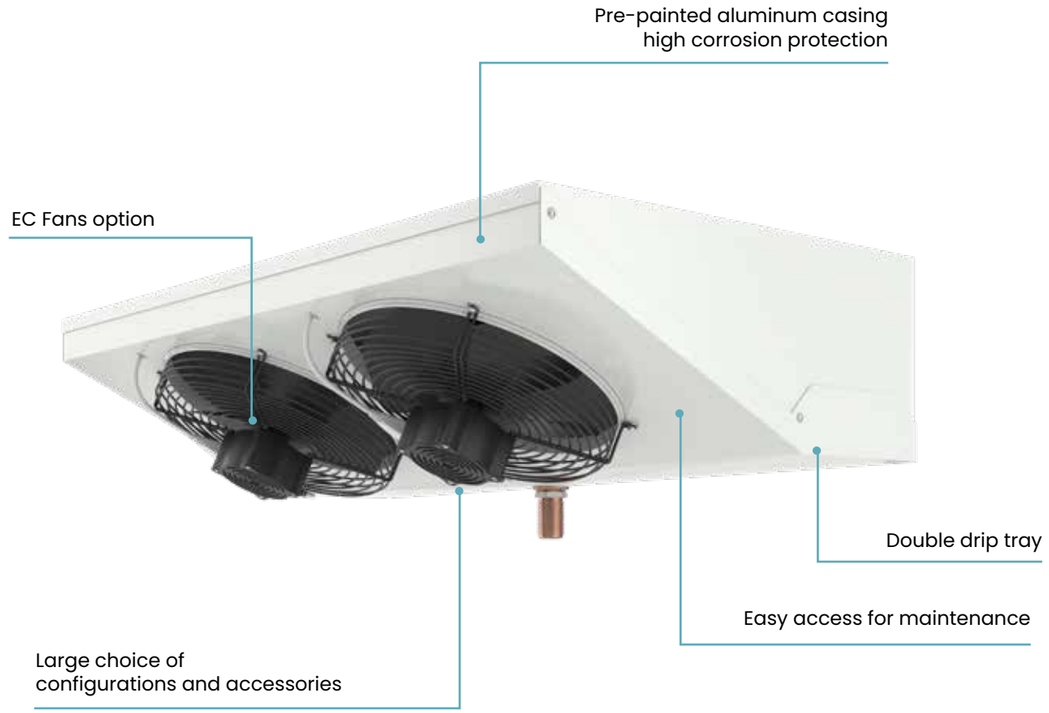
Model	Capacity (kW)			Surface	Internal Volume	Air Flow	Air Throw	Fans Data			Electrical defrost		Inlet	Outlet	Weight
	SC2	SC3	SC4	m²	dm³	m³/h	m	N°	kW	A	kW	A	mm	mm	kg
MR-6	0,8	0,6	0,5	3,6	1,1	440	3,5	1	0,04	0,3	0,3	1,3	3/8"	3/8"	7
MR-12	1,6	1,1	0,9	7,1	1,9	880	4,5	2	0,07	0,5	0,5	2,3	3/8"	3/8"	12
MR-21	2,5	1,8	1,5	10,6	2,7	1.320	5,5	3	0,11	0,8	0,7	3,3	1/2"	5/8"	16
MR-28	3,2	2,2	1,8	14,1	3,5	1.760	6,5	4	0,14	1,0	1,0	4,4	1/2"	5/8"	21
MR-35	4,1	3,0	2,4	17,6	4,3	2.200	7,5	5	0,18	1,3	1,2	5,4	1/2"	5/8"	26

Fin pitch = 7 mm

Fan Ø= 250 mm, RPM = 1300

Model	Capacity (kW)			Surface	Internal Volume	Air Flow	Air Throw	Fans Data			Electrical defrost		Inlet	Outlet	Weight
	SC2	SC3	SC4	m²	dm³	m³/h	m	N°	kW	A	kW	A	mm	mm	kg
MC-4	0,6	0,5	0,4	2,8	1,5	455	4,5	1	0,04	0,3	0,6	2,6	1/2"	1/2"	8
MC-11	1,6	1,2	1,0	5,5	2,5	910	5,5	2	0,07	0,5	1,0	4,7	1/2"	1/2"	13
MC-17	2,3	1,7	1,4	8,3	3,5	1.365	6,5	3	0,11	0,8	1,5	6,7	1/2"	5/8"	19
MC-23	3,2	2,3	1,9	11	4,5	1.820	7,5	4	0,14	1,0	1,9	8,8	1/2"	5/8"	24
MC-30	3,9	2,8	2,3	13,7	6	2.275	8,5	5	0,18	1,3	2,4	10,8	1/2"	5/8"	30

DISTINCTIVE TECHNOLOGICAL CHOICES OF THE RANGE



EC Fan option

PS = 80 bar Coil option

Easy access for maintenance

CUBIC COMPACT HFC-HFO

The reliable, efficient, and sustainable cooling solution, ideal for small and medium cold rooms for cooling and freezing applications

CR/CC

Cooling capacity from 1 kW to 17 kW

ENEX TECHNOLOGIES presents the **Cubic Compact Evaporator r**ange for commercial applications. This unit was designed to meet every need: energy efficiency, ergonomics, space, etc.

All ENEX TECHNOLOGIES products are designed and conceived with levels of excellence in food preservation, robustly built to ensure long life.

Ready to use in installations with Low-GWP refrigerants, our Cubic Compact HFC-HFO line consists of more than 100 models, available in cooling capacities between 1 and 17 KW.

Our complete portfolio offers a large range of accessories to meet any specification and can be customized according to the application.

LEADING PROFESSIONAL SOLUTIONS IN HEAT REJECTION

ENEX TECHNOLOGIES' assessment of Cubic Compact HFC-HFO Evaporator performance parameters under different conditions and control strategies is essential to designing and optimizing the units for specific applications.

Our CUBIC COMPACT HFC-HFO EVAPORATORS are segmented into two ranges:

RANGE	STANDARD CONDITIONS SC2 (kW)	STANDARD CONDITIONS SC3 (kW)
CR/CC	1 - 17	0,5 - 10

SC2: Air Inlet Temperature 0ºC, Evaporating Temperature -8ºC
SC3: Air Inlet Temperature -18ºC, Evaporating Temperature -25ºC

MAIN FEATURES

With more than 400 years of combined experience in design, production and distribution and doing business in over 125 countries, ENEX TECHNOLOGIES Cubic Compact HFC-HFO Evaporator line offers customers a wide spectrum of benefits including, but not limited to:

HIGH PERFORMANCE

- Staggered arrangement of the copper tubes across selfspaced fins, the accurate link between tubes and fins as well as the use of corrugated fins allow our finned coils to reach high performance.
- Optimization of circuits for maximum efficiency.
- The EC fans adapt to the needs of the installation with minimal energy consumption (available as optional).

SELECTION SOFTWARE

•Our proprietary selection software gives customers flexibility in adjusting settings as parameters of the application change.

SAFETY

- Ready up to PS=30bar
- Resistance and leaks tests up to 43 bar
- Burst tests up to 90 bar
- Equipment pressurised with nitrogen at 2 bar

QUALITY: ROBUSTNESS + RELIABILITY

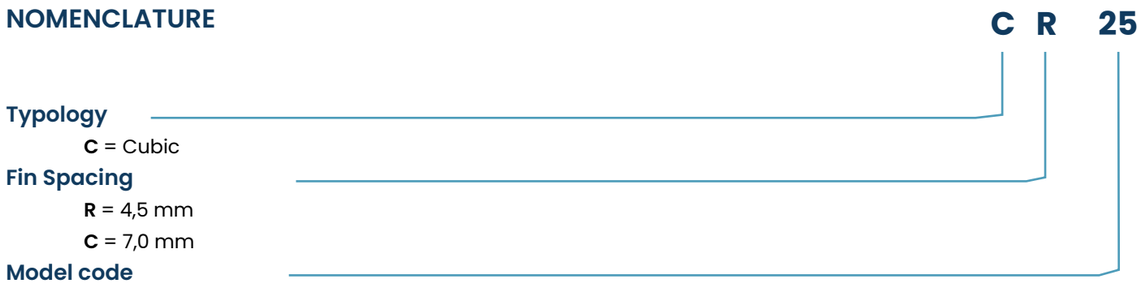
- Strong and robust design using high-quality components ensure long life.

SUSTAINABILITY

- A2L READY
- Low GWP refrigerants:
  - R1234yf: GWP=4
  - R1234ze: GWP=6
  - R455A: GWP=145
  - R454C: GWP=146

TECHNICAL FEATURES

NOMENCLATURE



FINNED COILS

• Built with copper tubes Ø 12mm, manufactured in compliance with the CUPROCLIMA specifications. The staggered arrangement of copper tubes across self-spaced fins, the accurate link between tubes and fins as well as the use of corrugated fins, all this configuration allows our coils to reach the highest performance.
• All coils are subjected to a resistance & leakage test under a rated pressure of 43 bar (PS=30bar) and 65 bar (PS=45bar), also pressurized using nitrogen at 2 bar to avoid the corrosion of the inner surface of the copper tubes.
• Fin spacings available: 4,5mm / 7mm

CASING

• The case structure of the unit is manufactured from plate of aluminium-magnesium alloy (97.5% Al-2.5% Mg) , giving it a high protection against corrosion, even in extreme environmental conditions; moreover this casing allows to meet more demanding food hygiene standards.
• Includes double drip tray to make the drainage of the water (resulting from defrost) easier.
• For better maintenance the drip tray and endplates are readily dismounted from the casework giving an easy and fast access to the inside of the unit cooler.

FAN MOTORS

• Fan diameter available: Ø 250/315/350 mm.
• Axial fans with external rotor (230V I @ 50/60Hz).
• Equipped as standard with AC fan motors with excellent acoustic performance.
• All motors have class B insulation, grade IP-44 protection, thermal protection device and working on a temperature range from −40ºC up to + 40ºC (from −25ºC up to + 40ºC for EC fan)
• Painted fan guards are made of zinc plated steel wire and support a water tight terminal box where the fans' motors are wired.

ELECTRIC DEFROST

• Electric heaters are optional for all CR/CC series. Recommended for use below 2ºC air inlet temperature.
• They are strategically located across the finned coil in order to provide suitable and uniform defrosting.

HFC-HFO · EVAPORATORS
CUBIC COMPACT - CR/ CC

OPTIONS & ACCESORIES

COIL

• PS=45bar
• Copper Fins
• Coated Fins
• Other material
• AquaAero treatment
• Blygold treatment
• Cataphoresis treatment

CASING

• Aluminium 5052
• White painted
• Insulated drip tray

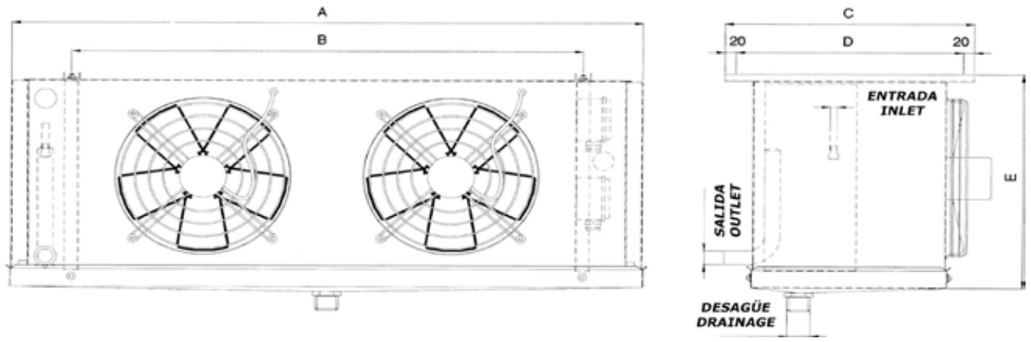
DEFROST

• Hot gas defrost
• Hot gas defrost in coil and electric in tray
• Electric defrost (wired)
• Fan ring heaters

OTHER

• High efficiency fans / EC fans

PRODUCT RANGE OVERVIEW



MODEL		Fans		Dimensions				
		Nº	Ø (mm)	A	B	c	D	E
CR-9	CC-5	1	250	575	335	410	370	375
CR-12	CC-9	1	250	575	335	410	370	375
CR-18	---	2	250	905	685	410	370	375
CR-25	CC-15	1	315	695	475	450	410	440
CR-32	CC-19	3	250	1.235	1.015	410	370	375
CR-39	CC-27	1	350	905	685	490	450	565
CR-44	CC-33	2	315	1.145	925	450	410	440
CR-52	CC-41	2	315	1.145	925	450	410	440
CR-67	CC-50	3	315	1.595	1.375	450	410	440
CR-79	CC-56	2	350	1.565	1.345	490	450	565
CR-96	CC-75	2	350	1.565	1.345	490	450	565
CR-119	CC-85	3	350	2.225	2.005	490	450	565
CR-148	CC-114	3	350	2.225	2.005	490	450	565

HFC-HFO · EVAPORATORS
CUBIC COMPACT - CR/ CC

TECHNICAL DATA

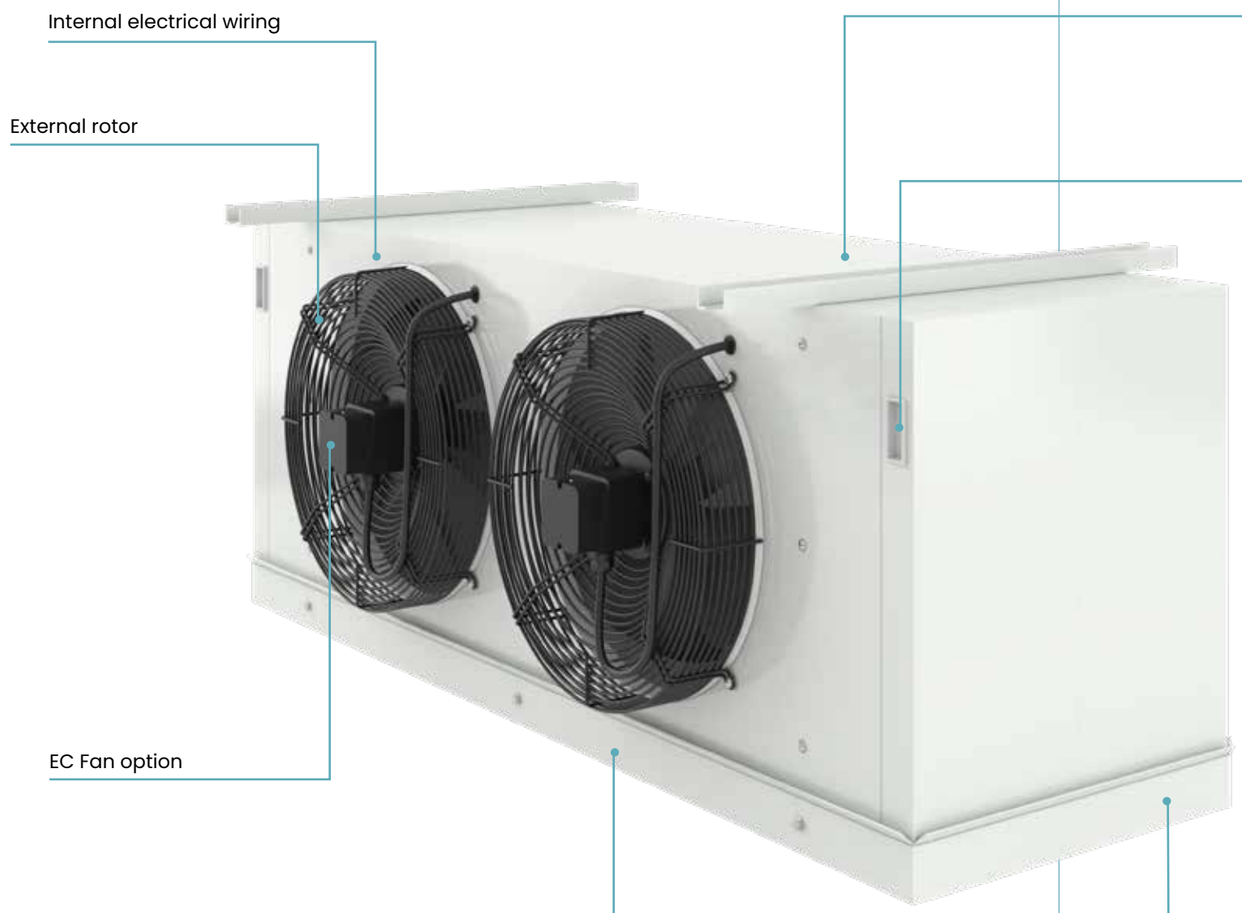
Fin pitch = 4,5 mm

Model	Capacity (kW)			Surface	Internal Volume	Air Flow	Air Throw	Fans Data					Electrical defrost		Inlet	Outlet	Weight
	SC2	SC3	SC4	m²	dm³	m³/h	m	Nº	Ø	RPM	kW	A	kW	A	mm	mm	kg
CR-9	1,2	0,9	0,8	5,7	1,9	800	8,0	1	250	1.300	0,04	0,25	0,9	1,5	1/2″	1/2″	9
CR-12	1,5	1,1	0,9	8,5	2,8	650	7,0	1	250	1.300	0,04	0,25	1,1	1,9	1/2″	1/2″	11
CR-18	2,1	1,6	1,3	8,5	2,4	1.600	9,0	2	250	1.300	0,07	0,50	1,5	2,6	1/2″	1/2″	14
CR-25	2,9	2,2	1,8	13,9	2,8	1.500	14,5	1	315	1.350	0,11	0,54	1,4	2,3	1/2″	5/8″	18
CR-32	3,7	2,8	2,3	16,9	4,5	2.200	10,0	3	250	1.300	0,11	0,75	2,1	3,8	1/2″	5/8″	22
CR-39	4,3	3,2	2,6	18,1	5,2	2.825	20,0	1	350	1.350	0,15	0,73	2,4	5,1	1/2″	5/8″	24
CR-44	4,9	3,6	2,9	18,5	5	3.500	17,0	2	315	1.350	0,22	1,08	2,4	3,9	1/2″	5/8″	28
CR-52	5,9	4,3	3,5	24,2	7,5	2.870	16,0	2	315	1.350	0,22	1,08	3,2	6,9	1/2″	7/8″	36
CR-67	7,4	5,4	4,4	27,7	7,2	5.250	18,0	3	315	1.350	0,33	1,62	3,4	5,4	1/2″	7/8″	40
CR-79	8,7	6,4	5,3	36,1	9,4	5.650	24,0	2	350	1.350	0,33	1,46	4,5	9,3	1/2″	7/8″	45
CR-96	11,0	8,1	6,6	54,1	14	5.200	22,0	2	350	1.350	0,33	1,46	5,5	9,7	5/8″	1 1/8″	55
CR-119	13,1	9,7	8,0	54,1	12,8	8.475	27,0	3	350	1.350	0,50	2,19	6,4	13,5	5/8″	1 1/8″	65
CR-148	16,6	11,9	9,8	81,1	20,4	7.800	25,0	3	350	1.350	0,50	2,19	8,0	14,2	5/8″	1 3/8″	81

Fin pitch = 7 mm

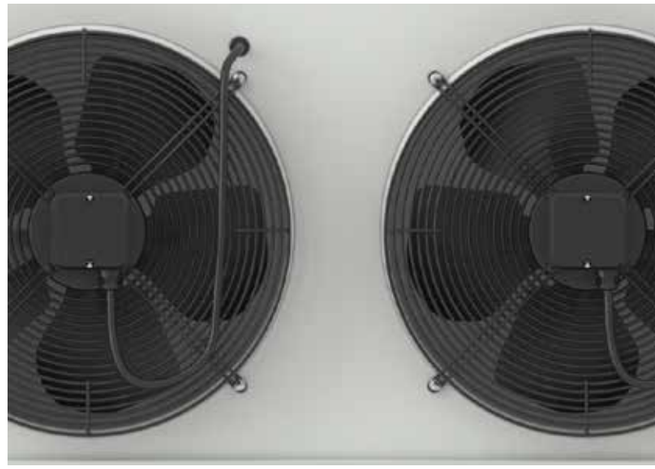
Model	Capacity (kW)			Surface	Internal Volume	Air Flow	Air Throw	Fans Data					Electrical defrost		Inlet	Outlet	Weight
	SC2	SC3	SC4	m²	dm³	m³/h	m	Nº	Ø	RPM	kW	A	kW	A	mm	mm	kg
CC-5	0,8	0,6	0,5	3	1,4	800	9,0	1	250	1300	0,04	0,25	0,9	1,5	1/2″	1/2″	8
CC-9	1,4	1,0	0,8	5,9	2,8	650	8,0	1	250	1300	0,04	0,25	1,1	1,9	1/2″	1/2″	10
CC-15	1,9	1,5	1,2	6,5	2,8	1.800	19,0	1	315	1350	0,11	0,54	1,4	2,3	1/2″	5/8″	15
CC-19	2,7	1,9	1,6	8,9	3,2	2.400	16,0	3	250	1300	0,11	0,75	2,1	3,8	1/2″	5/8″	19
CC-27	3,7	2,7	2,2	12,7	4,8	2.800	22,0	1	350	1350	0,15	0,73	2,4	5,1	1/2″	5/8″	23
CC-33	4,4	3,2	2,6	13	5	3.670	19,0	2	315	1350	0,22	1,08	2,4	3,9	1/2″	5/8″	27
CC-41	5,6	4,0	3,3	19,4	7,5	3.200	17,0	2	315	1350	0,22	1,08	3,2	6,9	1/2″	5/8″	31
CC-50	6,7	4,9	4,0	19,4	7,2	5.490	20,0	3	315	1350	0,33	1,62	3,4	5,4	1/2″	7/8″	38
CC-56	7,4	5,3	4,4	25,2	8,7	5.600	25,0	2	350	1350	0,33	1,46	4,5	9,3	1/2″	7/8″	42
CC-75	9,9	7,0	5,8	38	14	5.360	23,0	2	350	1350	0,33	1,46	5,5	9,7	5/8″	1 1/8″	51
CC-85	11,5	8,3	6,8	38	14	8.545	28,0	3	350	1350	0,50	2,19	6,4	13,5	5/8″	1 1/8″	62
CC-114	14,9	10,5	8,8	56,9	20	8.050	26,0	3	350	1350	0,50	2,19	8,0	14,2	5/8″	1 1/8″	75

DISTINCTIVE TECHNOLOGICAL CHOICES OF THE RANGE



HFC-HFO · EVAPORATORS
CUBIC COMPACT - CR/ CC

EC Fan option



PS = 45 bar Coil option

End plates with impact fasteners to easy maintenance

DUAL FLOW COMPACT HFC-HFO

The reliable, efficient, and sustainable cooling solution, ideal for small and medium cold rooms for cooling and freezing applications.

XR/XC

Cooling capacity from 2 kW to 16,5 kW

ENEX TECHNOLOGIES presents the **Dual Flow Compact Evaporator** range for commercial applications. This unit was designed to meet every need: energy efficiency, ergonomics, space, etc.

All ENEX TECHNOLOGIES products are designed and conceived with levels of excellence in food preservation, robustly built to ensure long life.

This line of product, **ready to use in installations with Low GWP refrigerants**, consists of more than 20 models, available in cooling capacities between 2 and 16,5 KW.

Our complete portfolio offers a large range of accessories to meet any specification and can be customized according to the application.

LEADING PROFESSIONAL SOLUTIONS IN HEAT REJECTION

ENEX TECHNOLOGIES' assessment of Dual Flow Compact HFC-HFO Evaporator performance parameters under different conditions and control strategies is essential to designing and optimizing the units for specific applications.

Our DUAL FLOW COMPACT EVAPORATOR is offered in a single range:

RANGE	STANDARD CONDITIONS SC2 (kW)	STANDARD CONDITIONS SC3 (kW)
XR/XC	2 - 16,5	1 - 10

SC2: Air Inlet Temperature 0°C, Evaporating Temperature -8°C
SC3: Air Inlet Temperature -18°C, Evaporating Temperature -25°C

MAIN FEATURES

With more than 400 years of combined experience in design, production and distribution and doing business in over 125 countries, ENEX TECHNOLOGIES Dual Flow Compact CO2 Evaporator line offers customers a wide spectrum of benefits including, but not limited to:

HIGH PERFORMANCE

• Staggered arrangement of the copper tubes across selfspaced fins, the accurate link between tubes and fins as well as the use of corrugated fins allow our finned coils to reach high performance.
• Optimization of circuits for maximum efficiency.
• The EC fans adapt to the needs of the installation with minimal energy consumption (available as optional).

SELECTION SOFTWARE

•Our proprietary selection software gives customers flexibility in adjusting settings as parameters of the application change.

SAFETY

• Ready up to PS=30bar
• Resistance and leaks tests up to 43 bar
• Burst tests up to 90 bar
• Equipment pressurised with nitrogen at 2 bar

QUALITY: ROBUSTNESS + RELIABILITY

• Strong and robust design using high-quality components ensure long life.

SUSTAINABILITY

• A2L READY
• Low GWP refrigerants:
  - R1234yf: GWP=4
  - R1234ze: GWP=6
  - R455A: GWP=145
  - R454C: GWP=146

TECHNICAL FEATURES

NOMENCLATURE

X R 41

Typology
X = Dual flow
Fin Spacing
R = 3,5 mm
C = 6,0 mm
Model code

FINNED COILS

• Built with copper tubes Ø 12mm, manufactured in compliance with the CUPROCLIMA specifications. The staggered arrangement of copper tubes across self-spaced fins, the accurate link between tubes and fins as well as the use of corrugated fins, all this configuration allows our coils to reach the highest performance.
• All coils are subjected to a resistance & leakage test under a rated pressure of 43 bar (PS=30bar) and 65 bar (PS=45bar), also pressurized using nitrogen at 2 bar to avoid the corrosion of the inner surface of the copper tubes.
• Fin spacings available: 3,5mm / 6mm

CASING

• The case structure of the unit is manufactured from plate of aluminium-magnesium alloy (97.5% Al-2.5% Mg), giving it a high protection against corrosion, even in extreme environmental conditions; moreover this casing allows to meet more demanding food hygiene standards.
• Includes double drip tray to make the drainage of the water (resulting from defrost) easier.
• For better maintenance the drip tray and endplates are readily dismounted from the casework giving an easy and fast access to the inside of the unit cooler.

FANS MOTORS

• Fan diameter available: Ø 300 mm.
• Axial fans with external rotor (230V I @ 50/60Hz).
• Equipped as standard with AC fan motors with excellent acoustic performance.
• All motors have class B insulation, grade IP-44 protection, thermal protection device and working on a temperature range from –40°C up to +40°C (from –25°C up to +60°C for EC fan)
• Painted fan guards are made of zinc plated steel wire and support a water tight terminal box where the fans' motors are wired.

ELECTRIC DEFROST

• Electric heaters are optional for all XR/XC series. Recommended for use below 2°C air inlet temperature.
• They are strategically located across the finned coil in order to provide suitable and uniform defrosting.

HFC-HFO · EVAPORATORS
DUAL FLOW COMPACT - XR/XC

OPTIONS & ACCESORIES

COIL

• PS=45bar
• Copper Fins
• Coated Fins
• Other material
• AquaAero treatment
• Blygold treatment
• Cataphoresis treatment

CASING

• Aluminium 5052
• White painted
• Stainless-steel casing

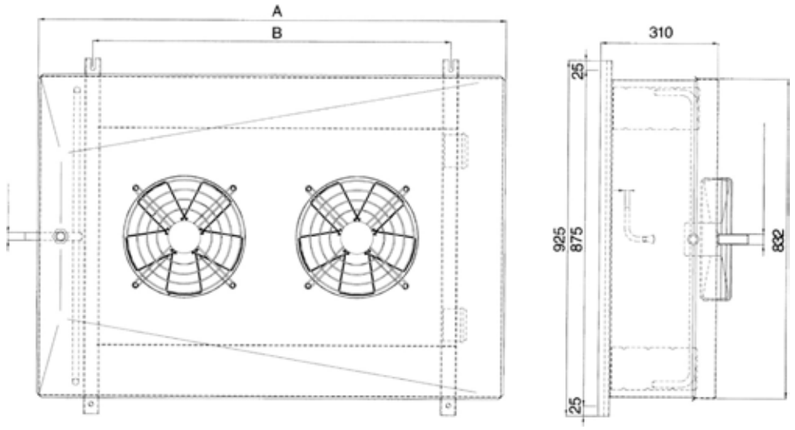
DEFROST

• Hot gas defrost
• Hot gas defrost in coil and electric in tray
• Electric defrost (wired)
• Fan ring heaters

OTHER

• High efficiency fans / EC fans

PRODUCT RANGE OVERVIEW



MODEL		Ventilateurs		Dimensions	
		N°	Ø (mm)	A	B
XR-20	XC-17	1	300	768	480
XR-41	XC-35	2	300	1.218	930
XR-71	XC-49	3	300	1.668	1.380
XR-87	XC-71	4	300	2.188	1.830
XR-115	XC-87	5	300	2.568	2.280
XR-137	XC-107	6	300	2.920	2.730

HFC-HFO · EVAPORATORS
DUAL FLOW COMPACT - XR/XC

TECHNICAL DATA

Fin pitch = 3,5 mm

Fan Ø= 300 mm, RPM = 1.050

Model	Capacity (kW)			Surface	Internal Volume	Air Flow	Air Throw	Fans Data			Electrical defrost		Inlet	Outlet	Weight
	SC2	SC3	SC4	m²	dm³	m³/h	m	N°	kW	A	kW	A	mm	mm	kg
XR-20 LS	2,2	1,6	1,4	13,9	3,4	1.100	2x5,0	1	0,08	0,3	1,1	1,9	1/2″	5/8″	22
XR-41 LS	4,3	3,2	2,7	27,7	6	2.200	2x6,0	2	0,15	0,7	2,0	3,5	1/2″	7/8″	37
XR-71 LS	6,9	5,0	4,2	41,5	8,5	3.300	2x7,0	3	0,23	1,0	2,8	5,0	1/2″	7/8″	48
XR-87 LS	9,2	6,7	5,6	55,4	9,7	4.400	2x8,0	4	0,30	1,4	3,6	6,5	5/8″	1 1/8″	71
XR-115 LS	11,6	8,3	6,9	69,2	11,8	5.500	2x9,0	5	0,38	1,7	4,5	8,0	5/8″	1 1/8″	80
XR-137 LS	13,8	10,1	8,3	89	13,9	6.600	2x11,0	6	0,46	2,0	5,3	9,5	5/8″	1 3/8″	98

Fan Ø= 300 mm, RPM = 1.390

Model	Capacity (kW)			Surface	Internal Volume	Air Flow	Air Throw	Fans Data			Electrical defrost		Inlet	Outlet	Weight
	SC2	SC3	SC4	m²	dm³	m³/h	m	N°	kW	A	kW	A	mm	mm	kg
XR-20 HS	2,6	2,0	1,6	13,9	3,4	1.450	2x7,0	1	0,08	0,3	1,1	1,9	1/2″	5/8″	22
XR-41 HS	5,2	3,9	3,2	27,7	6	2.900	2x8,0	2	0,15	0,7	2,0	3,5	1/2″	7/8″	37
XR-71 HS	8,1	5,9	4,9	41,5	8,5	4.350	2x9,0	3	0,23	1,0	2,8	5,0	1/2″	7/8″	48
XR-87 HS	10,7	8,0	6,7	55,4	9,7	5.800	2x10,0	4	0,30	1,4	3,6	6,5	5/8″	1 1/8″	71
XR-115 HS	13,5	9,7	8,0	69,2	11,8	7.250	2x12,0	5	0,38	1,7	4,5	8,0	5/8″	1 1/8″	80
XR-137 HS	16,2	11,9	9,8	89	13,9	8.700	2x14,0	6	0,46	2,0	5,3	9,5	5/8″	1 3/8″	98

Fin pitch = 6 mm

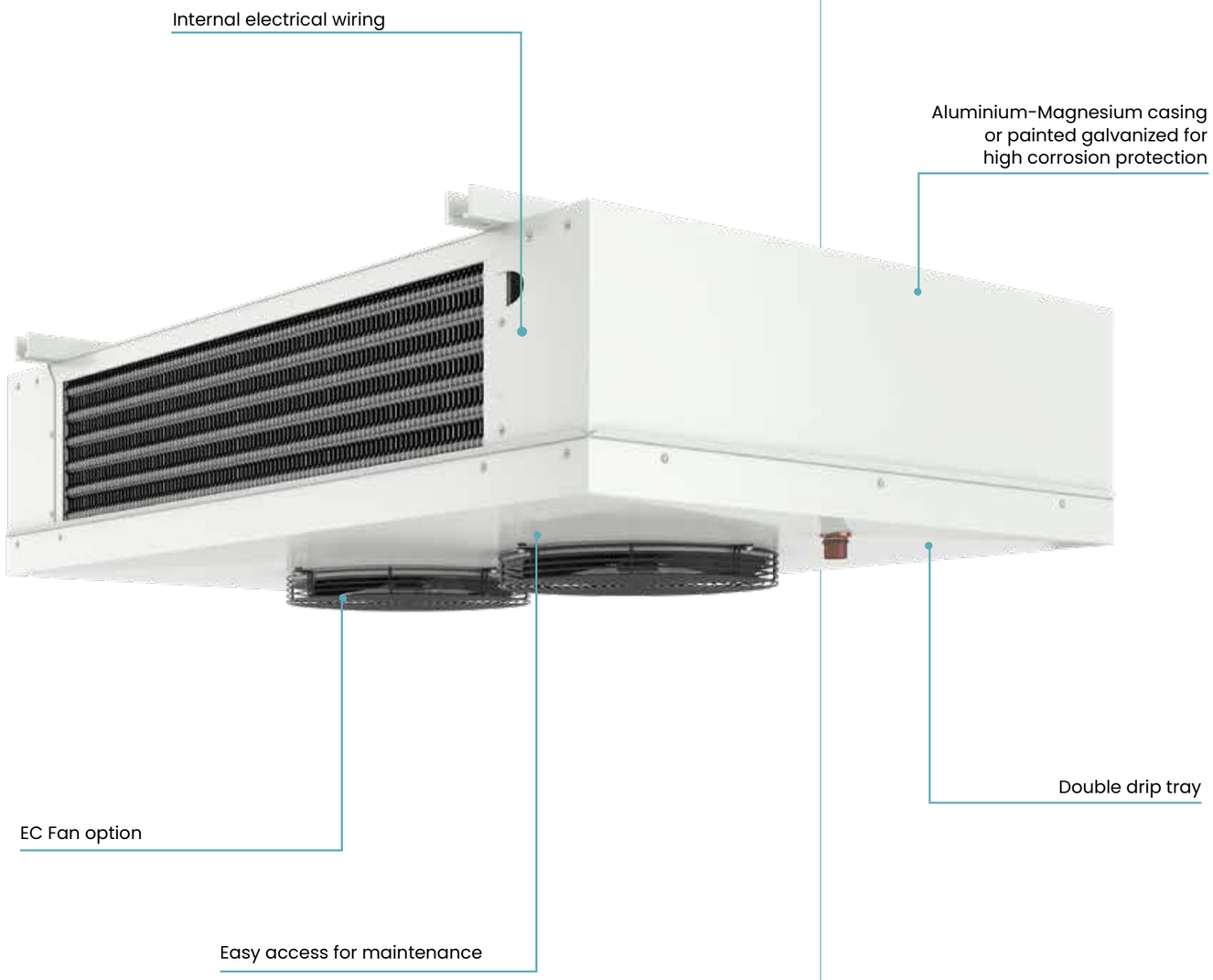
Fan Ø= 300 mm, RPM = 1.050

Model	Capacity (kW)			Surface	Internal Volume	Air Flow	Air Throw	Fans Data			Electrical defrost		Inlet	Outlet	Weight
	SC2	SC3	SC4	m²	dm³	m³/h	m	N°	kW	A	kW	A	mm	mm	kg
XC-17 LS	1,8	1,3	1,1	8,1	3,4	1.130	2x6,0	1	0,08	0,3	1,1	1,9	1/2″	5/8″	21
XC-35 LS	3,5	2,6	2,2	16,2	6	2.260	2x7,0	2	0,15	0,7	2,0	3,5	1/2″	7/8″	35
XC-49 LS	5,9	4,1	3,4	24,2	8,5	3.390	2x8,0	3	0,23	1,0	2,8	5,0	5/8″	7/8″	45
XC-71 LS	7,8	5,5	4,6	32,3	9,7	4.520	2x9,0	4	0,30	1,4	3,6	6,5	5/8″	7/8″	67
XC-87 LS	9,8	7,0	5,7	40,4	11,8	5.650	2x10,0	5	0,38	1,7	4,5	8,0	5/8″	1 1/8″	75
XC-107 LS	11,7	8,3	6,9	51,9	13,9	6.780	2x12,0	6	0,46	2,0	5,3	9,5	5/8″	1 1/8″	92

Fan Ø= 300 mm, RPM = 1.390

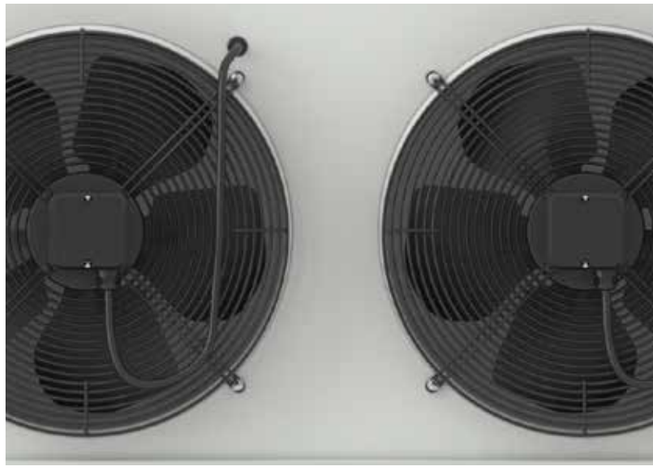
Model	Capacity (kW)			Surface	Internal Volume	Air Flow	Air Throw	Fans Data			Electrical defrost		Inlet	Outlet	Weight
	SC2	SC3	SC4	m²	dm³	m³/h	m	N°	kW	A	kW	A	mm	mm	kg
XC-17 HS	2,1	1,6	1,3	8,1	3,4	1.500	2x8,0	1	0,08	0,3	1,1	1,9	1/2″	5/8″	21
XC-35 HS	4,2	3,1	2,6	16,2	6	3.000	2x9,0	2	0,15	0,7	2,0	3,5	1/2″	7/8″	35
XC-49 HS	6,9	5,0	4,1	24,2	8,5	4.500	2x10,0	3	0,23	1,0	2,8	5,0	5/8″	7/8″	45
XC-71 HS	9,1	6,6	5,5	32,3	9,7	6.000	2x11,0	4	0,30	1,4	3,6	6,5	5/8″	7/8″	67
XC-87 HS	11,6	8,2	6,8	40,4	11,8	7.500	2x13,0	5	0,38	1,7	4,5	8,0	5/8″	1 1/8″	75
XC-107 HS	13,8	9,9	8,2	51,9	13,9	9.000	2x15,0	6	0,46	2,0	5,3	9,5	5/8″	1 1/8″	92

DISTINCTIVE TECHNOLOGICAL CHOICES OF THE RANGE



HFC-HFO · EVAPORATORS
DUAL FLOW COMPACT - XR/XC

EC Fan option



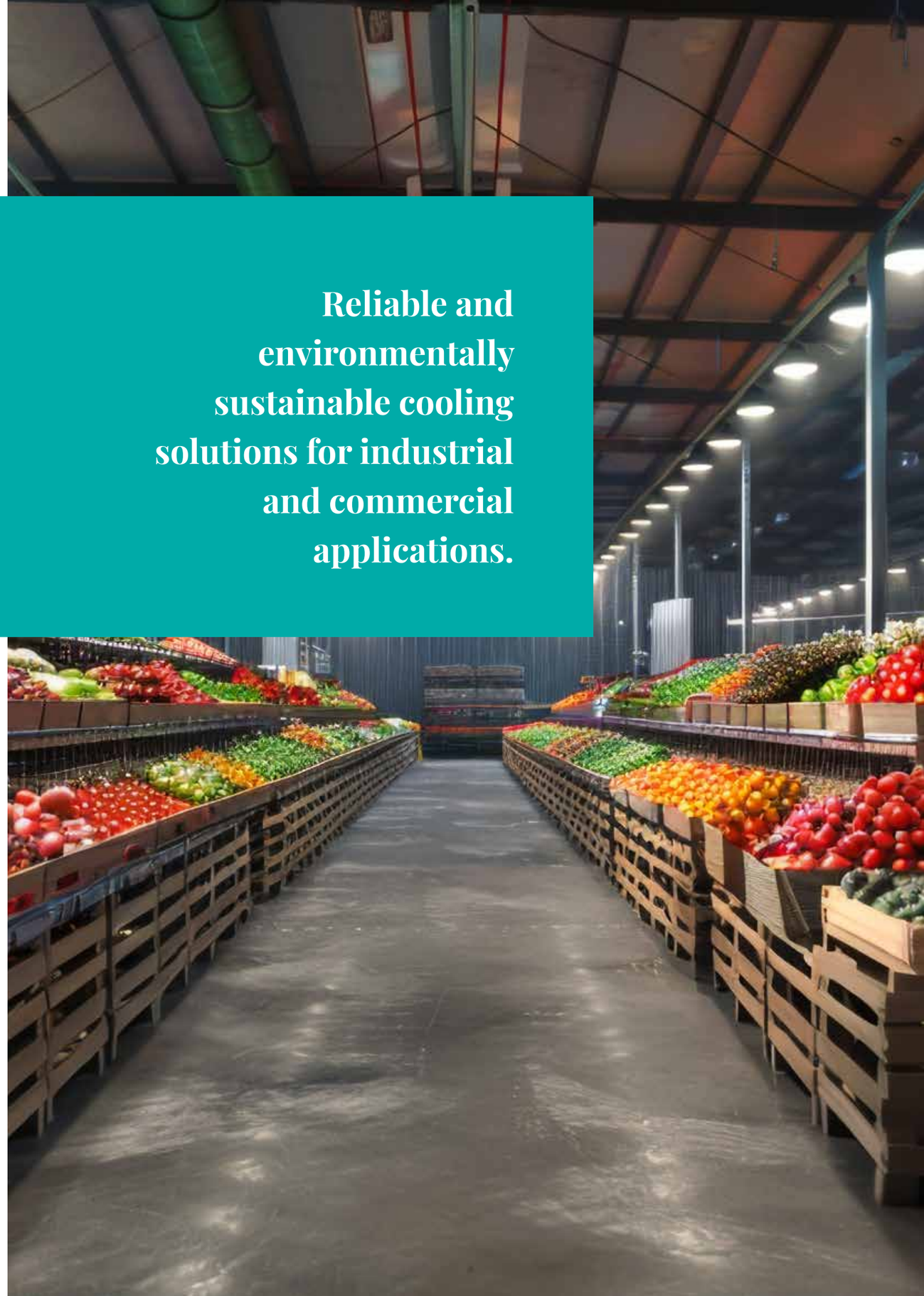
PS = 80 bar Coil option

End plates with impact fasteners to easy maintenance

Brine Coolers

Enex Technologies' Brine Coolers are installed inside cold rooms, process rooms and refrigerated cabinets. Multiple configurations allow adaptation to different applications, available spaces and layouts. The use of a mixture of water and glycol as a carrier fluid provides an excellent alternative to more traditional refrigeration cycle systems, and by following the design logic of a traditional cooling coil exchanger, temperatures and cooling capacities suitable for the refrigeration sector can be obtained.

Reliable and environmentally sustainable cooling solutions for industrial and commercial applications.



SLIM COMPACT

The reliable, efficient, and eco-friendly cooling solution, ideal for small cold rooms for cooling and freezing applications

MR/MC GLY

Cooling capacity from 0,9 kW to 3,5 kW

ENEX TECHNOLOGIES presents the **Slim Compact Brine Cooler** range for commercial applications. This product line is designed to meet or exceed customer needs including energy efficiency, ergonomics, space, etc.

All ENEX TECHNOLOGIES products are designed and conceived with levels of excellence in food preservation, robustly built to ensure long life.

Our Slim Compact Brine Cooler line consists of more than 20 models available in cooling capacities between 0,9 and 3,5 kW.

Our complete portfolio offers a large range of configurations and accessories to meet any specification and can be customized according to the application.

LEADING PROFESSIONAL SOLUTIONS IN HEAT REJECTION

ENEX TECHNOLOGIES' assessment of Slim Compact performance parameters under different conditions and control strategies is essential to designing and optimizing the units for specific applications.

Our SLIM COMPACT BRINE COOLERS are segmented into two ranges:

RANGE	*CONDITIONS (kW)
MR / MC GLY	0,9 - 3,5

***Conditions**: Air Inlet Temperature 2°C, Fluid Inlet Temperature -8°C, Fluid Outlet Temperature -4°C, Ethylene Glycol 35%.

MAIN FEATURES

With more than 400 years of combined experience in design, production and distribution and doing business in over 125 countries, ENEX TECHNOLOGIES slim compact brine cooler line offers customers a wide spectrum of benefits including, but not limited to:

HIGH PERFORMANCE

- Staggered arrangement of copper tubes across self-spaced corrugated fins.
- Optimization of circuits for maximum efficiency.
- The EC fans adapt to the needs of the installation with minimal energy consumption (available as optional).

SELECTION SOFTWARE

- Our proprietary selection software gives customers flexibility in adjusting settings as parameters of the application change.

SAFETY

- Ready up to PS=16bar
- Resistance and leaks tests up to 23 bar
- Burst tests up to 48 bar
- Equipment pressurised with nitrogen at 2 bar

QUALITY: ROBUSTNESS + RELIABILITY

- Strong and robust design using high-quality components ensure long life.

SUSTAINABILITY

- With a GWP of 0

TECHNICAL FEATURES

NOMENCLATURE

M R 25 GLY C2

Typology
M = "Mini" / Slim Compact
Fin Spacing
R = 4,2 mm
C = 7,0 mm
Model code
Technology
GLY = Brine Cooler
No of circuits

FINNED COILS

• Built with copper tubes Ø 3/8" (MR) and Ø 12mm (MC), manufactured in compliance with the CUPROCLIMA specifications. The staggered arrangement of copper tubes across self-spaced fins, the accurate link between tubes and fins as well as the use of corrugated fins, all this configuration allows our coils to reach the highest performance.
• All coils are subjected to a resistance & leakage test under a rated pressure of 23 bar (PS=16bar), also pressurized using nitrogen at 2 bar to avoid the corrosion of the inner surface of the copper tubes.
• Fin spacings is available: 4,2mm / 7mm.

CASING

• The case structure of the unit is manufactured from plate of aluminium-magnesium alloy (97.5% Al-2.5% Mg), giving it a high protection against corrosion, even in extreme environmental conditions; moreover this casing allows to meet more demanding food hygiene standards.
• Includes double drip tray to make the drainage of the water (resulting from defrost) easier.
• For better maintenance the drip tray and fans plate are readily dismounted from the casework giving an easy and fast access to the inside of the unit cooler.

FAN MOTORS

• Fan diameter available: Ø 250 mm.
• Axial fans with external rotor (230V I @ 50/60Hz).
• Equipped as standard with AC fan motors with excellent acoustic performance.
• All motors have class B insulation, grade IP-44 protection, thermal protection device and working on a temperature range from –40°C up to + 40°C.
• Painted fan guards are made of zinc plated steel wire and support a water tight terminal box where the fans' motors are wired.

ELECTRIC DEFROST

• Electric heaters are optional for all MR/MC series. Recommended for use below 2°C air inlet temperature.
• They are shielded by a stainless steel tube and their terminals are vulcanised over it to avoid electric shunts; every heater includes a single ground wireThey are strategically located across the finned coil in order to provide suitable and uniform defrosting.

OPTIONS & ACCESORIES

COIL

• Copper Fins
• Coated Fins
• Other material
• AquaAero treatment
• Blygold treatment
• Cataphoresis treatment

CASING

• Aluminium 5052
• White painted
• Stainless-steel casing

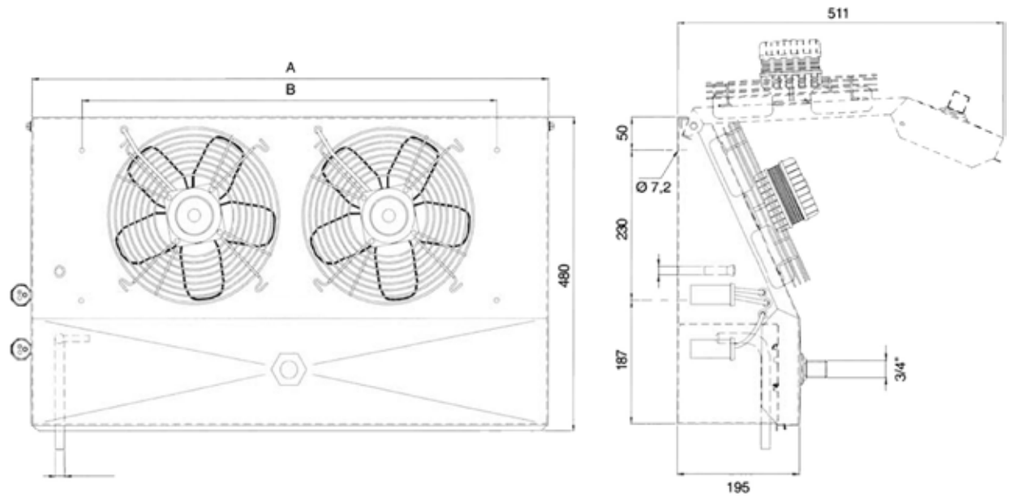
DEFROST

• Hot gas defrost
• Hot gas defrost in coil and electric in tray
• Electric defrost (wired)
• Fan ring heaters

OTHER

• High efficiency fans / EC fans

PRODUCT RANGE OVERVIEW



MODEL		Fans		Dimensions	
		Nº	Ø (mm)	A	B
MR-6	MC-4	1	250	520	348
MR-12	MC-11	2	250	825	653
MR-21	MC-17	3	250	1.130	958
MR-28	MC-23	4	250	1.435	1.263
MR-35	MC-30	5	250	1.740	1.568

TECHNICAL DATA

Fin pitch = 4,2 mm

Fan Ø= 250 mm, RPM = 1.300

Model	Capacity (kW)	Surface	Internal Volume	Fluid Flow	Air Flow	Air Throw	Fans Data			Electrical defrost		Manifolds**	Weight
	SC*	m²	dm³	m³/h	m³/h	m	N°	kW	A	kW	A	mm	kg
MR 6 GLY C2	0,8	3,5	0,8	0,19	440	3,5	1	0,04	0,3	0,3	1,3	7/8"	7
MR 12 GLY C2	1,6	7,0	1,6	0,38	880	4,5	2	0,07	0,5	0,5	2,3	7/8"	12
MR 21 GLY C3	2,2	10,5	2,3	0,52	1.320	5,5	3	0,11	0,8	0,7	3,3	7/8"	16
MR 28 GLY C4	2,8	14,0	3,1	0,66	1.760	6,5	4	0,14	1,0	1,0	4,4	7/8"	21
MR 35 GLY C4	3,4	17,5	3,9	0,82	2.200	7,5	5	0,18	1,3	1,2	5,4	7/8"	26

Fin pitch = 7 mm

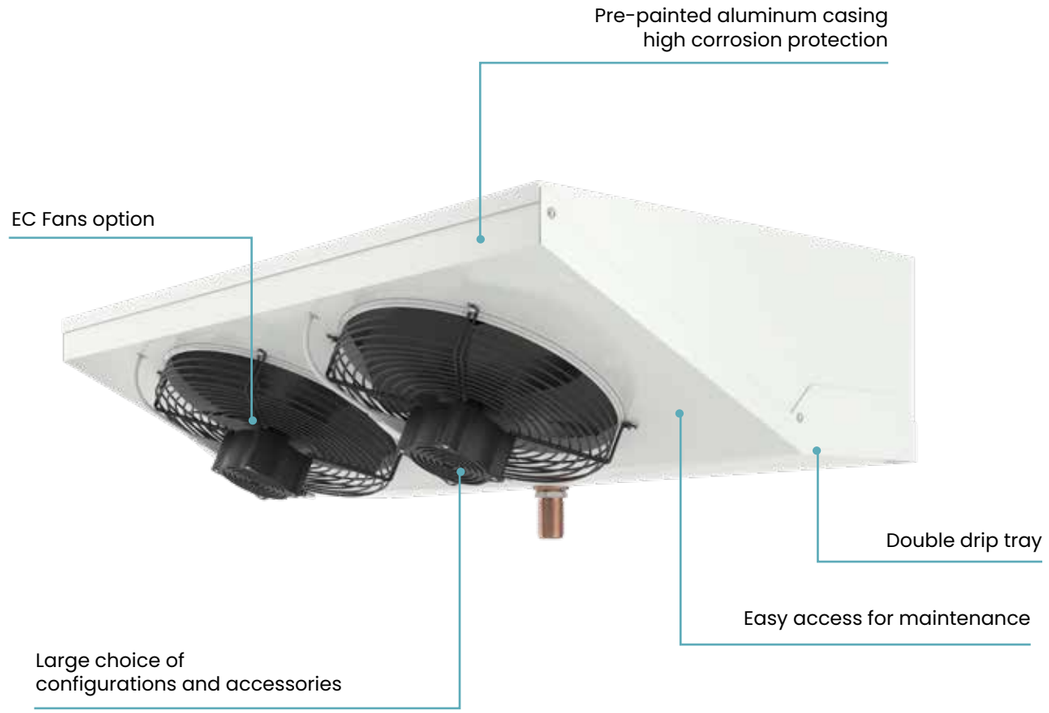
Fan Ø= 250 mm, RPM = 1.300

Model	Capacity (kW)	Surface	Internal Volume	Fluid Flow	Air Flow	Air Throw	Fans Data			Electrical defrost		Manifolds**	Weight
	SC*	m²	dm³	m³/h	m³/h	m	N°	kW	A	kW	A	mm	kg
MC 4 GLY C1	0,8	2,7	1,0	0,18	455	4,5	1	0,04	0,3	0,6	2,6	1/2"	8
MC 11 GLY C1	1,5	5,4	2,0	0,35	910	5,5	2	0,07	0,5	1,0	4,7	1/2"	13
MC 17 GLY C2	2,0	8,1	3,1	0,47	1.365	6,5	3	0,11	0,8	1,5	6,7	7/8"	19
MC 23 GLY C2	2,6	10,7	4,1	0,62	1.820	7,5	4	0,14	1,0	1,9	8,8	7/8"	24
MC 30 GLY C3	3,0	13,4	5,1	0,72	2.275	8,5	5	0,18	1,3	2,4	10,8	7/8"	30

*Conditions: Air Inlet Temperature 2°C, Fluid Inlet Temperature -8°C, Fluid Outlet Temperature -4°C, Ethylene Glycol 35%.
** Sections size can change drastically by fluid used and boundary conditions

BRINE COOLERS
SLIM COMPACT - MR/MC GLY

DISTINCTIVE TECHNOLOGICAL CHOICES OF THE RANGE



EC Fan option

Compact design

Easy access for maintenance

CUBIC COMPACT

The reliable, efficient, and sustainable cooling solution, ideal for small and medium cold rooms for cooling and freezing applications

CR/CC GLY

Cooling capacity from 1,3 kW to 20 kW

ENEX TECHNOLOGIES presents the **Cubic Compact Brine Cooler** range for commercial applications. This product line is designed to meet or exceed customer needs including energy efficiency, ergonomics, space, etc.

All ENEX TECHNOLOGIES products are designed and conceived with levels of excellence in food preservation, robustly built to ensure long life.

This line of product, consists of more than 25 models, available in cooling capacities between 1,3 and 20 KW.

Our complete portfolio offers a large range of configurations and accessories to meet any specification and can be customized according to the application.

LEADING PROFESSIONAL SOLUTIONS IN HEAT REJECTION

ENEX TECHNOLOGIES' assessment of Cubic Compact performance parameters under different conditions and control strategies is essential to designing and optimizing the units for specific applications.

Our CUBIC COMPACT BRINE COOLERS are segmented into two ranges:

RANGE	*CONDITIONS (kW)
CR/CC GLY	1,3 - 20

***Conditions**: Air Inlet Temperature 2°C, Fluid Inlet Temperature -8°C, Fluid Outlet Temperature -4°C, Ethylene Glycol 35%.

MAIN FEATURES

With more than 400 years of combined experience in design, production and distribution and doing business in over 125 countries, ENEX TECHNOLOGIES cubic compact brine cooler line offers customers a wide spectrum of benefits including, but not limited to:

HIGH PERFORMANCE

• Staggered arrangement of the copper tubes across selfspaced fins, the accurate link between tubes and fins as well as the use of corrugated fins allow our finned coils to reach high performance.
• Optimization of circuits for maximum efficiency.
• The EC fans adapt to the needs of the installation with minimal energy consumption (available as optional).

SELECTION SOFTWARE

• Our proprietary selection software gives customers flexibility in adjusting settings as parameters of the application change.

SAFETY

• Ready up to PS=16bar
• Resistance and leaks tests up to 23 bar
• Burst tests up to 48 bar
• Equipment pressurised with nitrogen at 2 bar

QUALITY: ROBUSTNESS + RELIABILITY

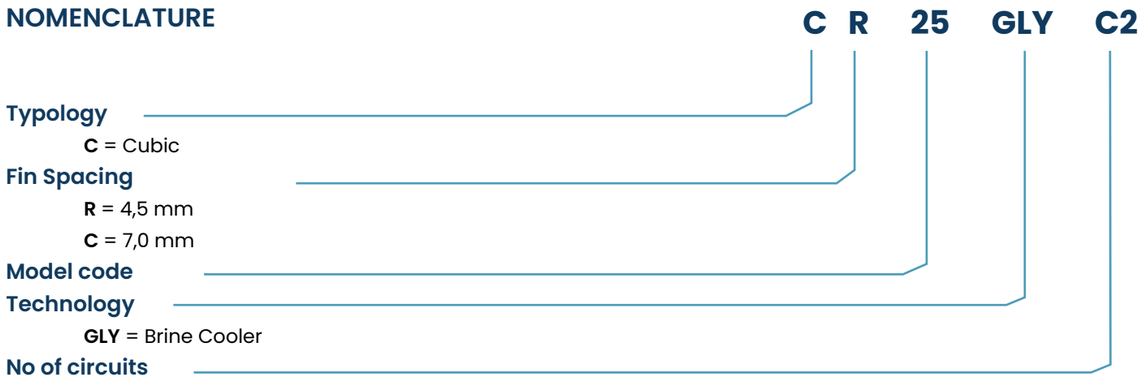
• High-quality components guarantee a long life product. Strong and robust design

SUSTAINABILITY

• With a GWP of 0

TECHNICAL FEATURES

NOMENCLATURE



FINNED COILS

• Built with copper tubes Ø 12mm, manufactured in compliance with the CUPROCLIMA specifications. The staggered arrangement of copper tubes across self-spaced fins, the accurate link between tubes and fins as well as the use of corrugated fins, all this configuration allows our coils to reach the highest performance.
• All coils are subjected to a resistance & leakage test under a rated pressure of 23 bar (PS=16bar), also pressurized using nitrogen at 2 bar to avoid the corrosion of the inner surface of the copper tubes.
• Fin spacings available: 4,5mm / 7mm

CASING

• The case structure of the unit is manufactured from plate of aluminium-magnesium alloy (97.5% Al-2.5% Mg) , giving it a high protection against corrosion, even in extreme environmental conditions; moreover this casing allows to meet more demanding food hygiene standards.
• Includes double drip tray to make the drainage of the water (resulting from defrost) easier.
• For better maintenance the drip tray and endplates are readily dismounted from the casework giving an easy and fast access to the inside of the unit cooler.

FAN MOTORS

• Fan diameter available: Ø 250/315/350 mm.
• Axial fans with external rotor (230V I @ 50/60Hz).
• Equipped as standard with AC fan motors with excellent acoustic performance.
• All motors have class B insulation, grade IP-44 protection, thermal protection device and working on a temperature range from −40°C up to + 40°C (from −25°C up to + 40°C for EC fan)
• Painted fan guards are made of zinc plated steel wire and support a water tight terminal box where the fans' motors are wired.

ELECTRIC DEFROST

• Electric heaters are optional for all CR/CC series. Recommended for use below 2°C air inlet temperature.
• They are strategically located across the finned coil in order to provide suitable and uniform defrosting.

BRINE COOLERS
CUBIC COMPACT - CR/ CC GLY

OPTIONS & ACCESORIES

COIL

• Copper Fins
• Coated Fins
• Other material
• AquaAero treatment
• Blygold treatment
• Cataphoresis treatment

CASING

• Aluminium 5052
• White painted
• Stainless-steel casing
• Insulated drip tray

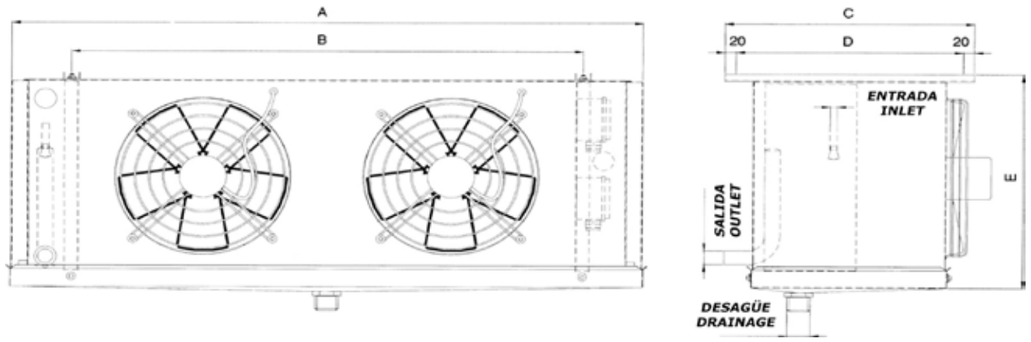
DEFROST

• Hot gas defrost
• Hot gas defrost in coil and electric in tray
• Electric defrost (wired)
• Fan ring heaters

OTHER

• High efficiency fans / EC fans

PRODUCT RANGE OVERVIEW



MODEL		Fans		Dimensions				
		Nº	Ø (mm)	A	B	c	D	E
CR-9	CC-5	1	250	575	335	410	370	375
CR-12	CC-9	1	250	575	335	410	370	375
CR-18	---	2	250	905	685	410	370	375
CR-25	CC-15	1	315	695	475	450	410	440
CR-32	CC-19	3	250	1.235	1.015	410	370	375
CR-39	CC-27	1	350	905	685	490	450	565
CR-44	CC-33	2	315	1.145	925	450	410	440
CR-52	CC-41	2	315	1.145	925	450	410	440
CR-67	CC-50	3	315	1.595	1.375	450	410	440
CR-79	CC-56	2	350	1.565	1.345	490	450	565
CR-96	CC-75	2	350	1.565	1.345	490	450	565
CR-119	CC-85	3	350	2.225	2.005	490	450	565
CR-148	CC-114	3	350	2.225	2.005	490	450	565

BRINE COOLERS
CUBIC COMPACT - CR/ CC GLY

TECHNICAL DATA

Fin pitch = 5 mm

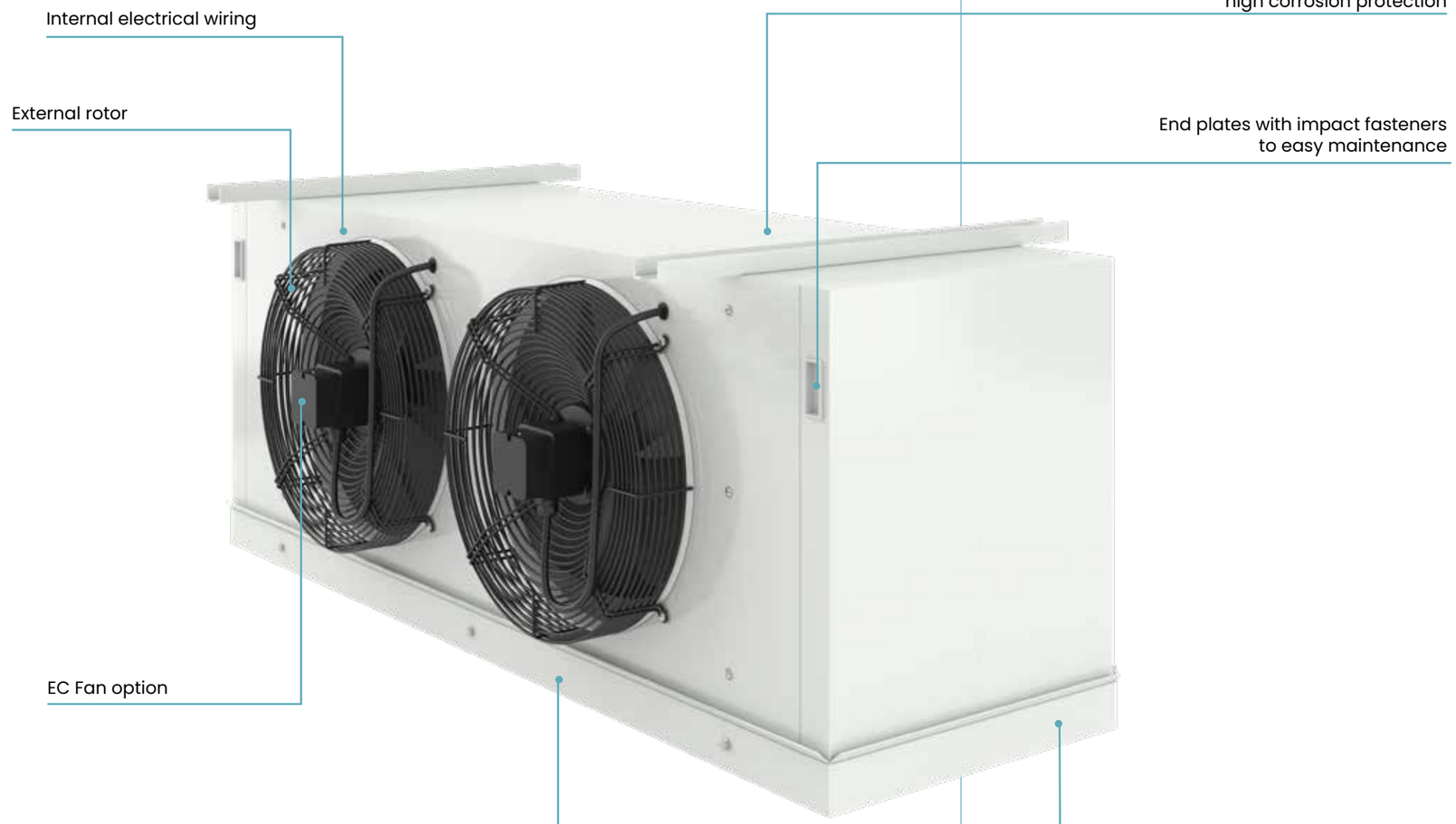
Model	Capacity (kW)	Surface	Internal Volume	Fluid Flow	Air Flow	Air Throw	Fans Data					Electrical defrost		Manifolds	Weight
	SC*	m²	dm³	m³/h	m³/h	m	Nº	Ø	RPM	kW	A	kW	A	mm	kg
CR-9 GLY C1	1,3	5,7	1,5	0,31	800	8,0	1	250	1.300	0,04	0,3	0,9	1,5	1/2"	9
CR-12 GLY C2	1,6	8,5	2,2	0,36	650	7,0	1	250	1.300	0,04	0,3	1,1	1,9	7/8"	11
CR-18 GLY C2	1,7	8,5	2,2	0,4	1.600	9,0	2	250	1.300	0,07	0,5	1,5	2,6	7/8"	14
CR-25 GLY C3	2,9	13,9	3,6	0,68	1.500	14,5	1	315	1.350	0,11	0,5	1,4	2,3	7/8"	18
CR-32 GLY C3	3,1	17,0	4,4	0,73	2.200	10,0	3	250	1.300	0,11	0,8	2,1	3,8	7/8"	22
CR-39 GLY C3	3,9	18,1	4,7	0,93	2.825	20,0	1	350	1.350	0,15	0,7	2,4	5,1	7/8"	24
CR-44 GLY C3	4,0	18,5	4,8	0,95	3.500	17,0	2	315	1.350	0,22	1,1	2,4	3,9	7/8"	28
CR-52 GLY C4	5,2	27,8	7,2	1,26	2.870	16,0	2	315	1.350	0,22	1,1	3,2	6,9	7/8"	36
CR-67 GLY C4	5,6	27,8	7,2	1,33	5.250	18,0	3	315	1.350	0,33	1,6	3,4	5,4	7/8"	40
CR-79 GLY C5	6,9	36,2	9,4	1,65	5.650	24,0	2	350	1.350	0,33	1,5	4,5	9,3	1 1/8"	45
CR-96 GLY C7	9,3	54,3	14,1	2,25	5.200	22,0	2	350	1.350	0,33	1,5	5,5	9,7	1 1/8"	55
CR-119 GLY C7	13,9	54,3	14,1	3,35	8.475	27,0	3	350	1.350	0,50	2,2	6,4	13,5	1 3/8"	65
CR-148 GLY C9	18,8	81,4	21,1	4,52	7.800	25,0	3	350	1.350	0,50	2,2	8,0	14,2	1 5/8"	81

Fin pitch = 7 mm

Model	Capacity (kW)	Surface	Internal Volume	Fluid Flow	Air Flow	Air Throw	Fans Data					Electrical defrost		Manifolds	Weight
	SC*	m²	dm³	m³/h	m³/h	m	Nº	Ø	RPM	kW	A	kW	A	mm	kg
CC-5 GLY C1	0,9	2,9	1,1	0,2	800	5,7	1	250	1.300	0,04	0,3	0,9	1,5	1/2"	8
CC-9 GLY C2	1,3	5,8	2,2	0,31	650	8,0	1	250	1.300	0,04	0,3	1,1	1,9	7/8"	10
CC-15 GLY C2	1,9	6,3	2,4	0,45	1.800	19,0	1	315	1.350	0,11	0,5	1,4	2,3	7/8"	15
CC-19 GLY C2	2,2	8,7	3,3	0,51	2.400	16,0	3	250	1.300	0,11	0,8	2,1	3,8	7/8"	19
CC-27 GLY C3	3,3	12,4	4,7	0,78	2.800	22,0	1	350	1.350	0,15	0,7	2,4	5,1	7/8"	23
CC-33 GLY C3	3,5	12,6	4,8	0,84	3.670	19,0	2	315	1.350	0,22	1,1	2,4	3,9	7/8"	27
CC-41 GLY C4	4,8	18,9	7,2	1,14	3.200	17,0	2	315	1.350	0,22	1,1	3,2	6,9	7/8"	31
CC-50 GLY C4	4,9	18,9	7,2	1,17	5.490	20,0	3	315	1.350	0,33	1,6	3,4	5,4	7/8"	38
CC-56 GLY C5	5,9	24,7	9,4	1,42	5.600	25,0	2	350	1.350	0,33	1,5	4,5	9,3	7/8"	42
CC-75 GLY C7	8,3	37,0	14,1	1,98	5.360	23,0	2	350	1.350	0,33	1,5	5,5	9,7	1 1/8"	51
CC-85 GLY C7	8,3	37,0	14,1	1,99	8.545	28,0	3	350	1.350	0,50	2,2	6,4	13,5	1 1/8"	62
CC-114 GLY C9	11,8	55,5	21,1	2,83	8.050	26,0	3	350	1.350	0,50	2,2	8,0	14,2	1 1/8"	75

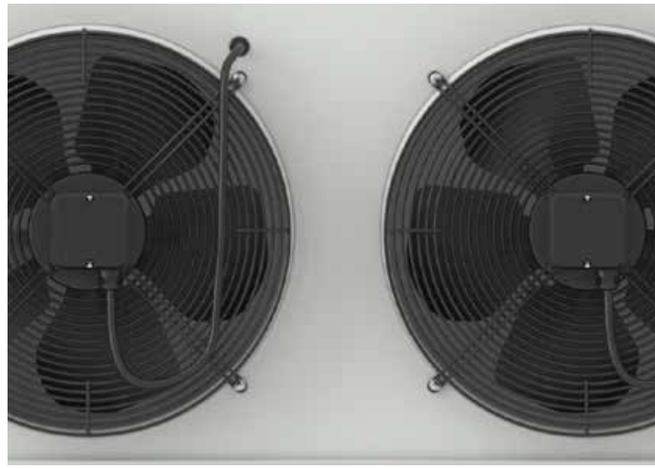
*Conditions: Air Inlet Temperature 2ºC, Fluid Inlet Temperature -8ºC, Fluid Outlet Temperature -4ºC, Ethylene Glycol 35%.
** Sections size can change drastically by fluid used and boundary conditions

DISTINCTIVE TECHNOLOGICAL CHOICES OF THE RANGE



BRINE COOLERS
CUBIC COMPACT - CR/ CC GLY

EC Fan option



PS = 45 bar Coil option

End plates with impact fasteners to easy maintenance

DUAL FLOW COMPACT

The reliable, efficient, and sustainable cooling solution, ideal for small and medium cold rooms for cooling and freezing applications.

XR/XC GLY

Cooling capacity from 2 kW to 10 kW

ENEX TECHNOLOGIES presents the **Dual Flow Compact Brine Cooler** range for commercial applications. This product line is designed to meet or exceed customer needs including energy efficiency, ergonomics, space, etc.

All ENEX TECHNOLOGIES products are designed and conceived with levels of excellence in food preservation, robustly built to ensure long life.

This line of product, consists of more than 20 models, available in cooling capacities between 2 and 10 KW.

Our complete portfolio offers a large range of configurations and accessories to meet any specification and can be customized according to the application.

LEADING PROFESSIONAL SOLUTIONS IN HEAT REJECTION

ENEX TECHNOLOGIES' assessment of Dual Flow Compact performance parameters under different conditions and control strategies is essential to designing and optimizing the units for specific applications.

Our DUAL FLOW COMPACT BRINE COOLERS are offered in a single range:

RANGE	*CONDITIONS (kW)
XR/XC GLY	2 - 10

***Conditions**: Air Inlet Temperature 2°C, Fluid Inlet Temperature -8°C, Fluid Outlet Temperature -4°C, Ethylene Glycol 35%.

MAIN FEATURES

With more than 400 years of combined experience in design, production and distribution and doing business in over 125 countries, ENEX TECHNOLOGIES dual flow compact brine cooler line offers customers a wide spectrum of benefits including, but not limited to:

HIGH PERFORMANCE

- Staggered arrangement of the copper tubes across selfspaced fins, the accurate link between tubes and fins as well as the use of corrugated fins allow our finned coils to reach high performance.
- Optimization of circuits for maximum efficiency.
- The EC fans adapt to the needs of the installation with minimal energy consumption (available as optional).

SELECTION SOFTWARE

- Our proprietary selection software gives customers flexibility in adjusting settings as parameters of the application change.

SAFETY

- Ready up to PS=16bar
- Resistance and leaks tests up to 23 bar
- Burst tests up to 48 bar
- Equipment pressurised with nitrogen at 2 bar

QUALITY: ROBUSTNESS + RELIABILITY

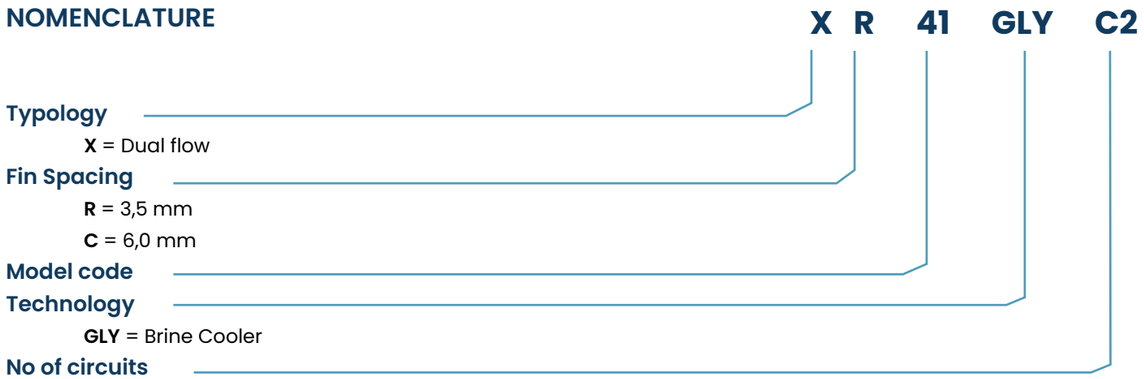
- High-quality components guarantee a long life product. Strong and robust design

SUSTAINABILITY

- With a GWP of 0

TECHNICAL FEATURES

NOMENCLATURE



FINNED COILS

• Built with copper tubes Ø 12mm, manufactured in compliance with the CUPROCLIMA specifications. The staggered arrangement of copper tubes across self-spaced fins, the accurate link between tubes and fins as well as the use of corrugated fins, all this configuration allows our coils to reach the highest performance.
• All coils are subjected to a resistance & leakage test under a rated pressure of 23 bar (PS=16bar), also pressurized using nitrogen at 2 bar to avoid the corrosion of the inner surface of the copper tubes.
• Fin spacings available: 3,5mm / 6mm

CASING

• The case structure of the unit is manufactured from plate of aluminium-magnesium alloy (97.5% Al-2.5% Mg), giving it a high protection against corrosion, even in extreme environmental conditions; moreover this casing allows to meet more demanding food hygiene standards.
• Includes double drip tray to make the drainage of the water (resulting from defrost) easier.
• For better maintenance the drip tray and endplates are readily dismounted from the casework giving an easy and fast access to the inside of the unit cooler.

FANS MOTORS

• Fan diameter available: Ø 300 mm.
• Axial fans with external rotor (230V I @ 50/60Hz).
• Equipped as standard with AC fan motors with excellent acoustic performance.
• All motors have class B insulation, grade IP-44 protection, thermal protection device and working on a temperature range from –40°C up to +40°C (from –25°C up to +60°C for EC fan)
• Painted fan guards are made of zinc plated steel wire and support a water tight terminal box where the fans' motors are wired.

ELECTRIC DEFROST

• Electric heaters are optional for all XR/XC series. Recommended for use below 2°C air inlet temperature.
• They are strategically located across the finned coil in order to provide suitable and uniform defrosting.

BRINE COOLERS
DUAL FLOW COMPACT - XR/XC GLY

OPTIONS & ACCESORIES

COIL

• Copper Fins
• Coated Fins
• Other material
• AquaAero treatment
• Blygold treatment
• Cataphoresis treatment

CASING

• Aluminium 5052
• White painted
• Stainless-steel casing

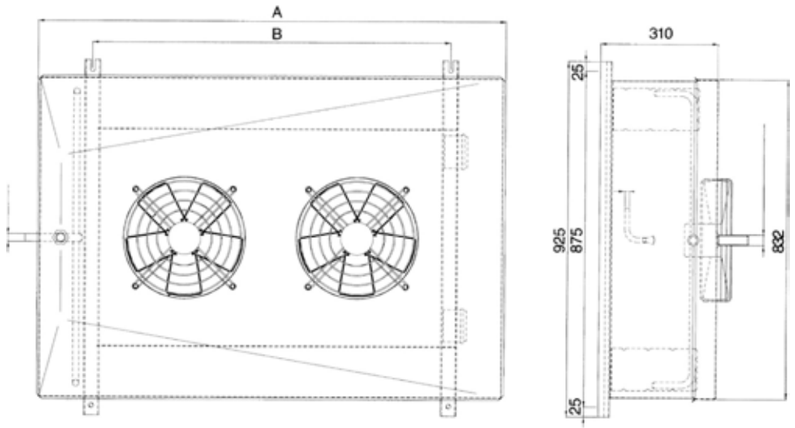
DEFROST

• Hot gas defrost
• Hot gas defrost in coil and electric in tray
• Electric defrost (wired)
• Fan ring heaters

OTHER

• High efficiency fans / EC fans

PRODUCT RANGE OVERVIEW



MODEL		Fans		Dimensions	
		Nº	Ø (mm)	A	B
XR-20	XC-17	1	300	768	480
XR-41	XC-35	2	300	1.218	930
XR-71	XC-49	3	300	1.668	1.380
XR-87	XC-71	4	300	2.188	1.830
XR-115	XC-87	5	300	2.568	2.280
XR-137	XC-107	6	300	2.920	2.730

TECHNICAL DATA

Fin pitch = 4 mm

Fan Ø= 300 mm, RPM = 1.050

Model	Capacity (kW)	Surface	Internal Volume	Fluid Flow	Air Flow	Air Throw	Fans Data			Electrical defrost		Manifolds**	Weight
	SC*	m²	dm³	m³/h	m³/h	m	Nº	kW	A	kW	A	mm	kg
XR 20 LS GLY C2	2,2	13,6	2,8	0,52	1.100	2x5,0	1	0,08	0,3	1,1	1,9	7/8"	22
XR 41 LS GLY C4	3,8	27,1	5,6	0,91	2.200	2x6,0	2	0,15	0,7	2,0	3,5	7/8"	37
XR 71 LS GLY C4	5,7	40,7	8,4	1,37	3.300	2x7,0	3	0,23	1,0	2,8	5,0	7/8"	48
XR 87 LS GLY C6	6,9	54,2	11,2	1,67	4.400	2x8,0	4	0,30	1,4	3,6	6,5	1 1/8"	71
XR 115 LS GLY C8	8,1	67,8	14,0	1,95	5.500	2x9,0	5	0,38	1,7	4,5	8,0	1 1/8"	80
XR 137 LS GLY C8	9,7	81,3	16,8	2,33	6.600	2x11,0	6	0,46	2,0	5,3	9,5	1 1/8"	98

Fan Ø= 300 mm, RPM = 1.390

Model	Capacity (kW)	Surface	Internal Volume	Fluid Flow	Air Flow	Air Throw	Fans Data			Electrical defrost		Manifolds**	Weight
	SC*	m²	dm³	m³/h	m³/h	m	Nº	kW	A	kW	A	mm	kg
XR 20 HS GLY C2	2,5	13,6	2,8	0,59	1.450	2x7,0	1	0,08	0,3	1,1	1,9	--	22
XR 41 HS GLY C4	4,3	27,1	5,6	1,02	2.900	2x8,0	2	0,15	0,7	2,0	3,5	--	37
XR 71 HS GLY C6	5,8	40,7	8,4	1,38	4.350	2x9,0	3	0,23	1,0	2,8	5,0	--	48
XR 87 HS GLY C6	7,7	54,2	11,2	1,84	5.800	2x10,0	4	0,30	1,4	3,6	6,5	--	71
XR 115 HS GLY C8	8,9	67,8	14,0	2,14	7.250	2x12,0	5	0,38	1,7	4,5	8,0	--	80
XR 137 HS GLY C8	17,8	81,3	16,8	4,29	8.700	2x14,0	6	0,46	2,0	5,3	9,5	--	98

Fin pitch = 6 mm

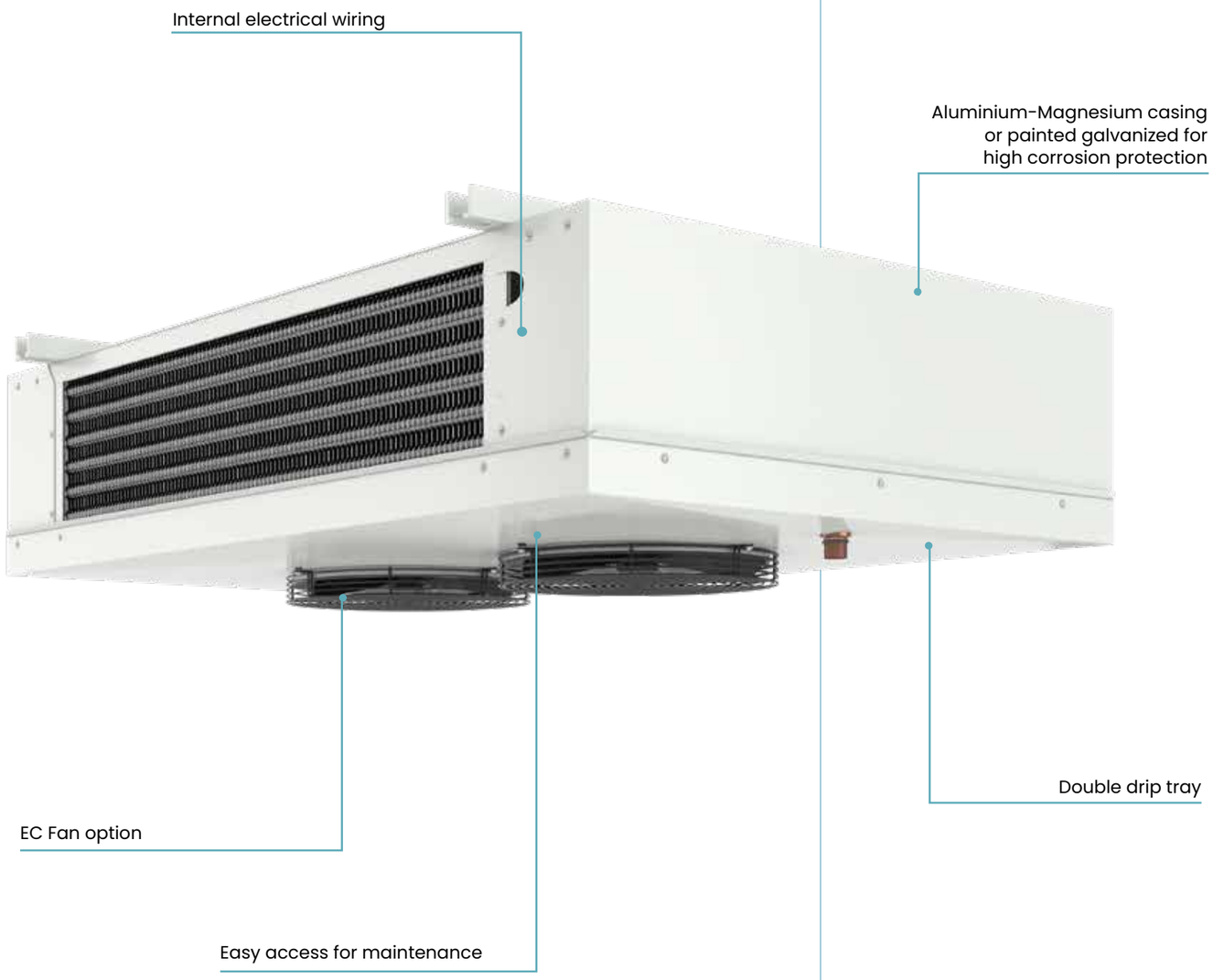
Fan Ø= 300 mm, RPM = 1.050

Model	Capacity (kW)	Surface	Internal Volume	Fluid Flow	Air Flow	Air Throw	Fans Data			Electrical defrost		Manifolds**	Weight
	SC*	m²	dm³	m³/h	m³/h	m	Nº	kW	A	kW	A	mm	kg
XC 17 LS GLY C2	1,8	7,8	2,8	0,41	1.130	2x6,0	1	0,08	0,3	1,1	1,9	7/8"	21
XC 35 LS GLY C4	3,1	15,5	5,6	0,73	2.260	2x7,0	2	0,15	0,7	2,0	3,5	7/8"	35
XC 49 LS GLY C4	4,6	23,2	8,4	1,1	3.390	2x8,0	3	0,23	1,0	2,8	5,0	7/8"	45
XC 71 LS GLY C6	5,7	30,9	11,2	1,36	4.520	2x9,0	4	0,30	1,4	3,6	6,5	7/8"	67
XC 87 LS GLY C6	7,1	38,7	14,0	1,7	5.650	2x10,0	5	0,38	1,7	4,5	8,0	1 1/8"	75
XC 107 LS GLY C6	11,7	46,4	16,8	2,81	6.780	2x12,0	6	0,46	2,0	5,3	9,5	1 1/8"	92

Fan Ø= 300 mm, RPM = 1.390

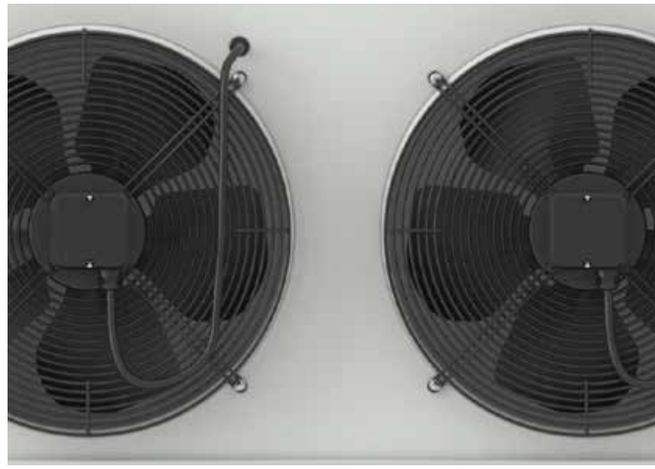
Model	Capacity (kW)	Surface	Internal Volume	Fluid Flow	Air Flow	Air Throw	Fans Data			Electrical defrost		Manifolds**	Weight
	SC*	m²	dm³	m³/h	m³/h	m	Nº	kW	A	kW	A	mm	kg
XC 17 HS GLY C2	2,0	7,8	2,8	0,47	1.500	2x8,0	1	0,08	0,3	1,1	1,9	--	21
XC 35 HS GLY C4	3,5	15,5	5,6	0,83	3.000	2x9,0	2	0,15	0,7	2,0	3,5	--	35
XC 49 HS GLY C4	5,2	23,2	8,4	1,24	4.500	2x10,0	3	0,23	1,0	2,8	5,0	--	45
XC 71 HS GLY C6	6,4	30,9	11,2	1,52	6.000	2x11,0	4	0,30	1,4	3,6	6,5	--	67
XC 87 HS GLY C6	7,9	38,7	14,0	1,9	7.500	2x13,0	5	0,38	1,7	4,5	8,0	--	75
XC 107 HS GLY C8	8,9	46,4	16,8	2,14	9.000	2x15,0	6	0,46	2,0	5,3	9,5	--	92

DISTINCTIVE TECHNOLOGICAL CHOICES OF THE RANGE



BRINE COOLERS
DUAL FLOW COMPACT - XR/XC GLY

EC Fan option



PS = 80 bar Coil option

End plates with impact fasteners to easy maintenance

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