

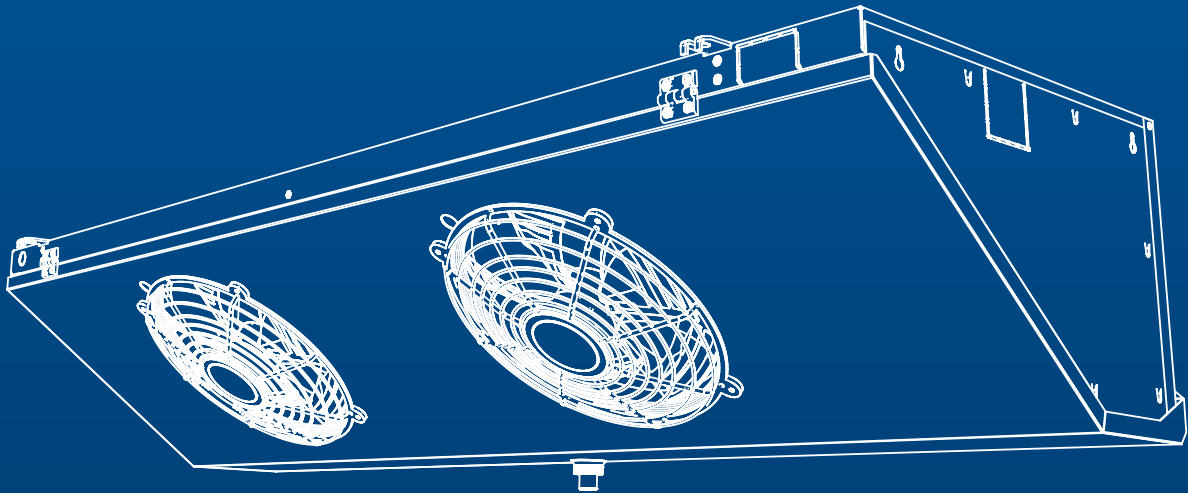


# SLIM / Compact

*Air cooler – slimline design*

## GASC

CO<sub>2</sub>, R-404A, R-134a, ...  
50 – 60 Hz  
0.6 - 14 KW



# GASC

Air cooler – slimline design

0.6 – 14 kW



### Advantages

- Flat casing
- 80 bar for CO<sub>2</sub>
- Little space requirement
- Easy to clean
- Short delivery times with units in stock
- Electric defrost factory-fitted or as a heating set for installation by customer

### Easy mounting

- Ceiling mounting brackets with slotted hole for easy installation
- Fans wired to terminal box
- Empty tube for defrost sensor
- Easily removable side cover
- Schrader valve at outlet

### Quick and easy to clean

- Hinged drip tray with a spring lock
- Easy access to all components
- Heat exchanger can be cleaned from three sides
- Inner and outer trays hinged

### HACCP hygiene certificate

- All materials used are food-safe
- All components are easy to clean
- Visual inspection of the entire unit possible
- Support bracket flush with upper surface of casing

### Heat exchangers

The air coolers are equipped with an offset tube system, internally grooved tubes and specially pressed fins. Optimised fin systems and adapted pipe circuiting offer safe operation and high efficiency.

### Casing

- Corrosion-resistant aluminium alloy AlMg
- Powder coating in RAL 9003
- Stainless steel ceiling hanger

### High-quality tray design

- Corrosion-resistant aluminium alloy AlMg
- Powder coating in RAL 9003
- Hinged inner and outer tray
- Outer tray is thermally decoupled to prevent water condensation

### Energy-efficient fans

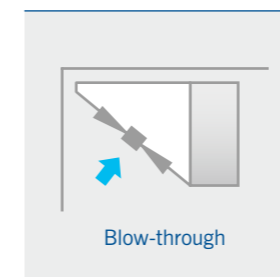
- Up to 60 % lower power consumption
- Two speeds as standard feature
- Integrated motor protection
- Usable at 50 + 60 Hz
- IP 54 in acc. with DIN 40050
- Low-noise operation at reduced speed

### Options / Accessories

- Epoxy resin-coated fins
- Electric defrost heater for coils and trays
- EC fans
- AC fans
- Heating set for retrofitting

## Technical details

### Air-flow direction



### Refrigerant/capacity

Refrigerant	t <sub>0</sub>	Air inlet	Fin spacing 4 mm	Fin spacing 7 mm
HFC	-8 °C -25 °C	0 °C -18 °C	0.8 – 13 kW	0.6 – 10 kW 0.6 – 9 kW
CO <sub>2</sub> DX	-8 °C -25 °C	0 °C -18 °C	0.8 – 14 kW	0.6 – 12 kW 0.6 – 9 kW

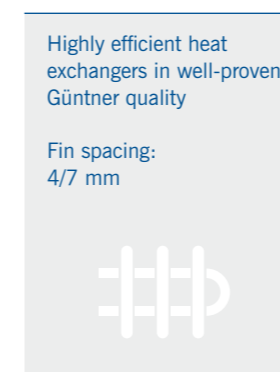
### Fans



### Available defrost types

Circulating air	Electric	Hot gas	Brine	Water
✓	✓ Coil ✓ Tray	–	–	–

### Heat exchanger

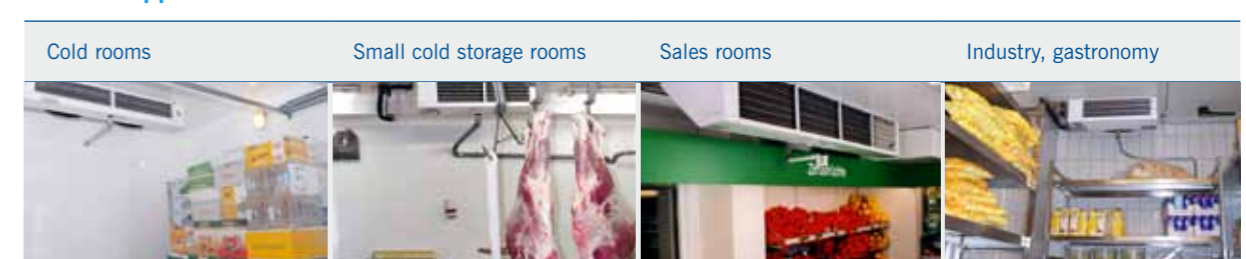


### Available material

	Tray	Fin	Casing	Tube
AlMg	✓		✓	
Aluminium		✓		
Copper				✓
Aluminium, epoxy resin-coated		✓		

✓ Standard version  
✓ Available option

### Suitable applications



## Evaporator coil



- AlMg fins
- Fin spacing: 4 mm or 7 mm
- Tubes staggered in air-flow direction
- Special copper tubes Ø 12 mm
- Schrader valve at outlet
- 80 bar for CO<sub>2</sub>

## Casing



- Aluminium-magnesium alloy, powder-coated in RAL 9003 (signal white)
- Stainless steel brackets for ceiling mounting flush with upper surface of casing

## Drip tray



- Aluminium-magnesium alloy, powder-coated in RAL 9003, thermally decoupled, polyamide condensation water drain, G thread with flat sealing compliant with DIN ISO 228-1
- Inner and outer trays hinged and removable for easy cleaning

## Fans



- Low-noise axial fans with two preset speed settings, wired as standard.
- IP 54 in acc. with DIN 40050
- Temperature range: -30 °C to +40 °C
- Protection guard in acc. with EN 294
- Internal motor protection
- Thermal class 130 (B)
- EC fan, 230 V, 1~, 50 – 60 Hz
- AC fan, 230 V, 1~, 50 or 60 Hz

## Options



- Electric defrosting for coils and trays, factory-fitted
- Electric defrosting for coils and trays, in set for on-site installation
- Epoxy resin-coated fins

## Capacity



The Eurovent capacity specifications apply to R-404A. The cooling capacity ratings refer to an air inlet temperature differential derived from the difference between the air inlet temperature at the cooler  $t_{L1}$  and the evaporating temperature  $t_o$ ,  $dT1 = t_{L1} - t_o$ .

These conditions are marked with dT1 and comply with the requirements of EN 328 and the Eurovent certification\*.

Our Güntner Product Calculator design software provides you with a thermodynamic design with capacity specifications compliant with Eurovent. This program provides a safe and easy way of configuring a suitable switch cabinet containing the appropriate control and regulation components.

## HACCP



Quality standard for hygiene certified by TÜV SÜD: The units are easy to clean and are particularly suitable for foodstuff processing applications since they are also approved for all materials used in contact with food.

## ErP Directive






The second stage of the ErP Directive requiring mandatory minimum efficiency levels for fans came into effect on 1 January 2015. The products affected include products with built-in fans whose optimum input power is higher than 125 W. Conformity with the ErP Directive is explicitly indicated for units designed with the Güntner Product Calculator (GPC).




## Note

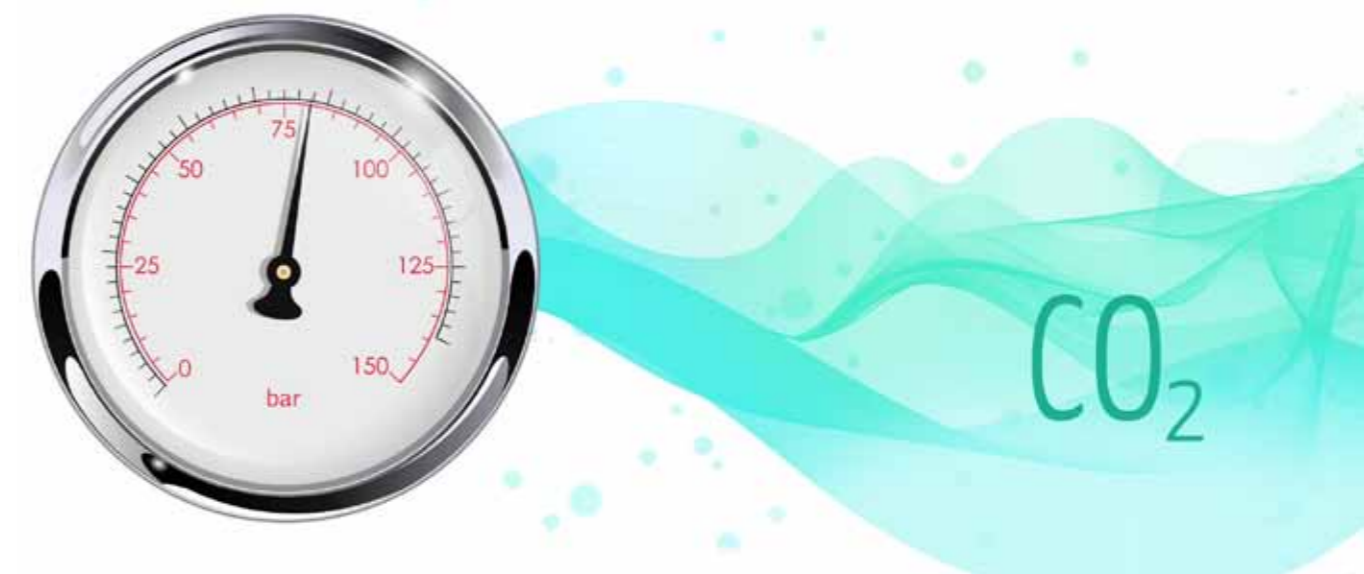
The operation of units below a cold room temperature of -25 °C requires a special design.

Please contact our Sales team for further information.

\*Capacity specifications for CO<sub>2</sub> and NH<sub>3</sub> have not previously been certified by Eurovent.

HFC					
	El. voltage		Fin spacing	 Defrosting type	Techn. details
EC	50/60 Hz	4 mm	4 mm	A – Circulating air	Page 8 – 9
				E – Electric	Page 10 – 11
		7 mm	7 mm	A – Circulating air	Page 12 – 13
				E – Electric	Page 14 – 15
AC	50 Hz	4 mm	4 mm	A – Circulating air	Page 16 – 17
				E – Electric	Page 18 – 19
		7 mm	7 mm	A – Circulating air	Page 20 – 21
				E – Electric	Page 22 – 23
AC	60 Hz	4 mm	4 mm	A – Circulating air	Page 24 – 25
				E – Electric	Page 26 – 27
		7 mm	7 mm	A – Circulating air	Page 28 – 29
				E – Electric	Page 30 – 31

CO <sub>2</sub>					
	El. voltage		Fin spacing	 Defrosting type	Techn. details
EC	50/60 Hz	4 mm	4 mm	A – Circulating air	Page 32 – 33
				E – Electric	Page 34 – 35
		7 mm	7 mm	A – Circulating air	Page 36 – 37
				E – Electric	Page 38 – 39
AC	50 Hz	4 mm	4 mm	A – Circulating air	Page 40 – 41
				E – Electric	Page 42 – 43
		7 mm	7 mm	A – Circulating air	Page 44 – 45
				E – Electric	Page 46 – 47
AC	60 Hz	4 mm	4 mm	A – Circulating air	Page 48 – 49
				E – Electric	Page 50 – 51
		7 mm	7 mm	A – Circulating air	Page 52 – 53
				E – Electric	Page 54 – 55



# GASC RX for HFC | Capacity tables

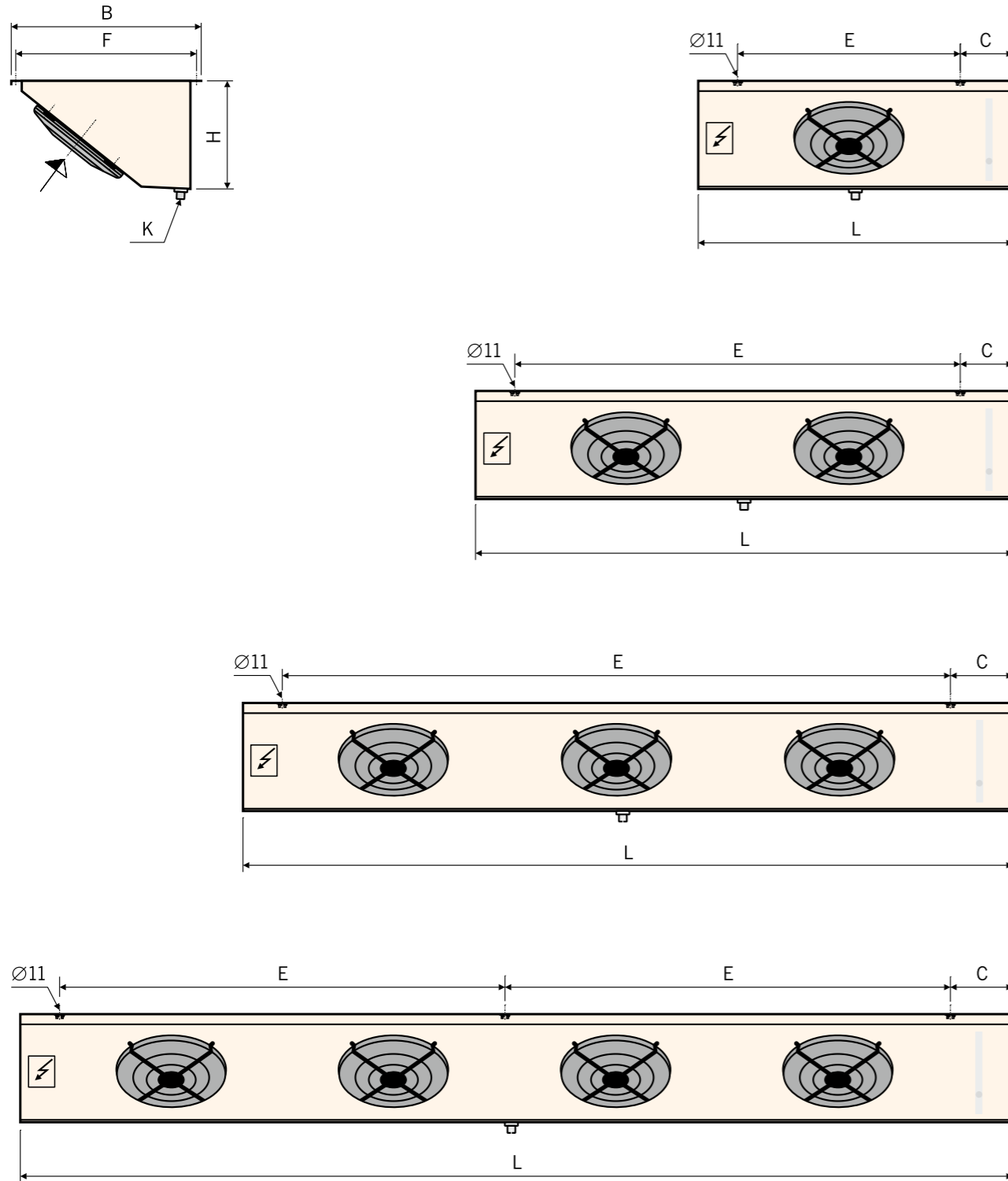
Fluid				Hz					
CO <sub>2</sub>	HFC	AC	EC	50	60	4 mm	7 mm	A	E

50 Hz AC		Number of fans	Nominal capacity R-404A		Surface	Air volume flow	Fan speed		Air throw *	Fan type	Power consumption	Current	Energy efficiency class
Fin spacing	Defrost		SC2	SC3			high	low					
			dT1 = 8 K t <sub>0</sub> = -8 °C	dT1 = 7 K t <sub>0</sub> = -25 °C	m <sup>2</sup>	m <sup>3</sup> /h	rpm	rpm	m		kW	A	
GASC RX	031.1/1-40.E-1846284		1.2	0.9	7.1	660		900	5	VT03159U	0.09	0.38	E
GASC RX	031.1/1-40.E-1846275		1.9	1.6	10.7	1060		900	7	VT03159U	0.09	0.38	D
GASC RX	031.1/1-40.E-1846254		2.3	1.8	10.7	1440	1300		10	VT03159U	0.10	0.42	D
GASC RX	031.1/1-40.E-1846280		2.1	1.8	16.1	850		900	6	VT03159U	0.09	0.38	D
GASC RX	031.1/1-40.E-1846278		2.8	2.3	16.1	1300	1300		9	VT03159U	0.10	0.42	C
GASC RX	031.1/2-40.E-1846281		2.5	1.9	14.3	1320		900	8	VT03159U	0.18	0.76	E
GASC RX	031.1/2-40.E-1846249		3.9	3.1	21.4	2120		900	10	VT03159U	0.17	0.76	D
GASC RX	031.1/2-40.E-1846271		4.6	3.6	21.4	2880	1300		14	VT03159U	0.20	0.84	D
GASC RX	031.1/2-40.E-1846276		4.3	3.6	32.1	1700		900	8	VT03159U	0.18	0.76	D
GASC RX	031.1/2-40.E-1846268		5.6	4.6	32.1	2600	1300		12	VT03159U	0.20	0.84	C
GASC RX	031.1/3-40.E-1846277		5.8	4.7	32.1	3180		900	12	VT03159U	0.26	1.14	D
GASC RX	031.1/3-40.E-1846266		6.9	5.5	32.1	4320	1300		17	VT03159U	0.29	1.26	D
GASC RX	031.1/3-40.E-1846261		6.4	5.4	48.2	2550		900	10	VT03159U	0.27	1.14	D
GASC RX	031.1/3-40.E-1846250		8.4	6.9	48.2	3900	1300		15	VT03159U	0.30	1.26	C
GASC RX	031.1/4-40.E-1846258		7.8	6.6	42.8	4240		900	14	VT03159U	0.35	1.52	D
GASC RX	031.1/4-40.E-1846252		9.2	7.7	42.8	5760	1300		19	VT03159U	0.39	1.68	D
GASC RX	031.1/4-40.E-1846282		8.5	6.9	64.2	3400		900	12	VT03159U	0.36	1.52	D
GASC RX	031.1/4-40.E-1846253		11.2	8.7	64.2	5200	1300		18	VT03159U	0.40	1.68	C

Sound pressure	Sound power level	Tube volume	mounted el. defrost/Coil and drip tray	El. defrost kit supplied loose	Type of defrost kit	Dimensions										Net weight	Connections refrigerant		In stock
						L	B	H	C	E	F	K	Inlet	Outlet					
						L	B	H	C	E	F	K							
dB(A) 3 m	dB(A)	l	El. voltage / Power consumption	El. voltage / Power consumption		mm	mm	mm	mm	mm	mm	mm	kg	mm Ø	mm Ø				
33.8	55.0	0.9	230V-1~-0.95kW	-	-	964	580	234	160	680	552	G <sup>3</sup> / <sub>4</sub>	21.2	9.5	9.5				
33.8	55.0	1.5	230V-1~-0.95kW	-	-	964	580	337	160	680	552	G <sup>3</sup> / <sub>4</sub>	23.4	16**	18				
40.8	62.0	1.5	230V-1~-0.95kW	-	-	964	580	337	160	680	552	G <sup>3</sup> / <sub>4</sub>	23.4	16**	18				
33.8	55.0	2.2	230V-1~-1.55kW	-	-	964	580	337	160	680	552	G <sup>3</sup> / <sub>4</sub>	25.8	16**	18				
40.8	62.0	2.2	230V-1~-1.55kW	-	-	964	580	337	160	680	552	G <sup>3</sup> / <sub>4</sub>	25.8	16**	18				
36.6	58.0	1.8	230V-1~-1.8kW	-	-	1644	580	234	160	1360	552	G <sup>3</sup> / <sub>4</sub>	35.8	16**	18				
36.5	58.0	2.6	230V-1~-1.8kW	-	-	1644	580	337	160	1360	552	G <sup>3</sup> / <sub>4</sub>	39.6	16**	18				
43.5	65.0	2.6	230V-1~-1.8kW	-	-	1644	580	337	160	1360	552	G <sup>3</sup> / <sub>4</sub>	39.6	16**	18				
36.5	58.0	4.0	230/400V-3~-3kW	-	-	1644	580	337	160	1360	552	G <sup>3</sup> / <sub>4</sub>	43.7	16**	22				
43.5	65.0	4.0	230/400V-3~-3kW	-	-	1644	580	337	160	1360	552	G <sup>3</sup> / <sub>4</sub>	43.7	16**	22				
38.0	59.8	3.9	230V-1~-2.45kW	-	-	2324	580	337	160	2040	552	G <sup>3</sup> / <sub>4</sub>	56.7	16**	22				
45.0	66.8	3.9	230V-1~-2.45kW	-	-	2324	580	337	160	2040	552	G <sup>3</sup> / <sub>4</sub>	56.7	16**	22				
38.0	59.8	5.7	230/400V-3~-4.05kW	-	-	2324	580	337	160	2040	552	G <sup>3</sup> / <sub>4</sub>	62.8	16**	22				
45.0	66.8	5.7	230/400V-3~-4.05kW	-	-	2324	580	337	160	2040	552	G <sup>3</sup> / <sub>4</sub>	62.8	16**	22				
39.5	61.0	5.2	230/400V-3~-3.4kW	-	-	3004	580	337	160	1360	552	G1 <sup>1</sup> / <sub>4</sub>	72.6	22**	28				
46.5	68.0	5.2	230/400V-3~-3.4kW	-	-	3004	580	337	160	1360	552	G1 <sup>1</sup> / <sub>4</sub>	72.6	22**	28				
39.5	61.0	7.5	400V-3~-5.7kW	-	-	3004	580	337	160	1360	552	G1 <sup>1</sup> / <sub>4</sub>	80.6	22**	22				
46.5	68.0	7.5	400V-3~-5.7kW	-	-	3004	580	337	160	1360	552	G1 <sup>1</sup> / <sub>4</sub>	80.6	22**	22				

\* measurable up to 0.5 m/s

\*\* Multiple injection



## Correction factors acc. to



Correction factors ( $f_R$ )  
for other refrigerants  
acc. to Eurovent

Refrigerant	$f_R$ SC 2	$f_R$ SC 3
R-507	0.97	0.97
R-134a	0.91	0.85

Effective refrigerating capacity  $Q_0 = \text{nominal refrigerating capacity } Q_{0N} \times \text{correction factor } f_R$

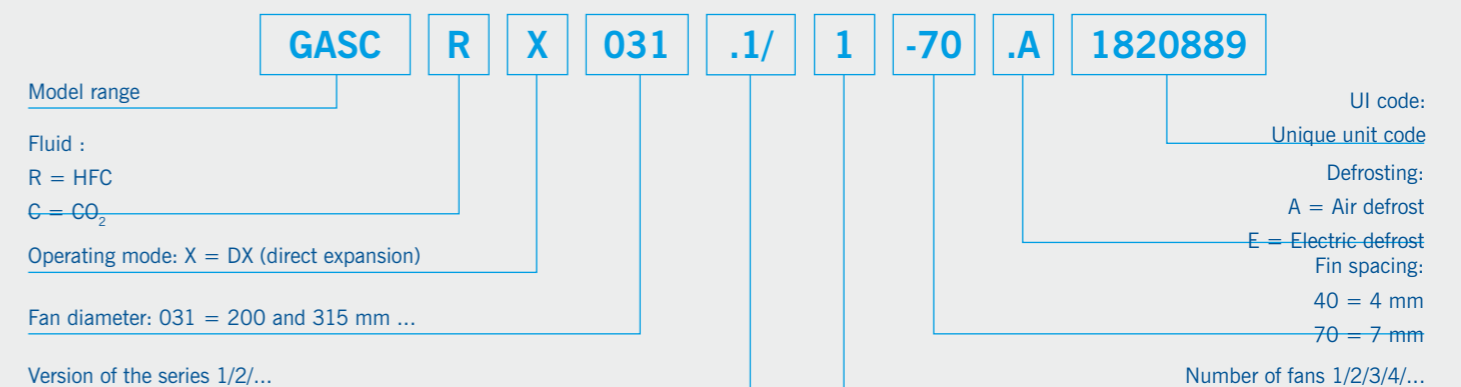
SC2 = standard condition  $dT1 = 8 \text{ K}$ ,  $t_o = -8 \text{ °C}$   
 SC3 = Standard condition  $dT1 = 7 \text{ K}$ ,  $t_o = -25 \text{ °C}$

Correction factors ( $f_M$ )  
for other fin materials  
acc. to Eurovent

Fin material	$f_M$ factor
Aluminium	1
Aluminium-coated	0.97

Effective refrigerating capacity  $Q_0 = \text{nominal refrigerating capacity } Q_{0N} \times \text{correction factor } f_M$

## Nomenclature



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