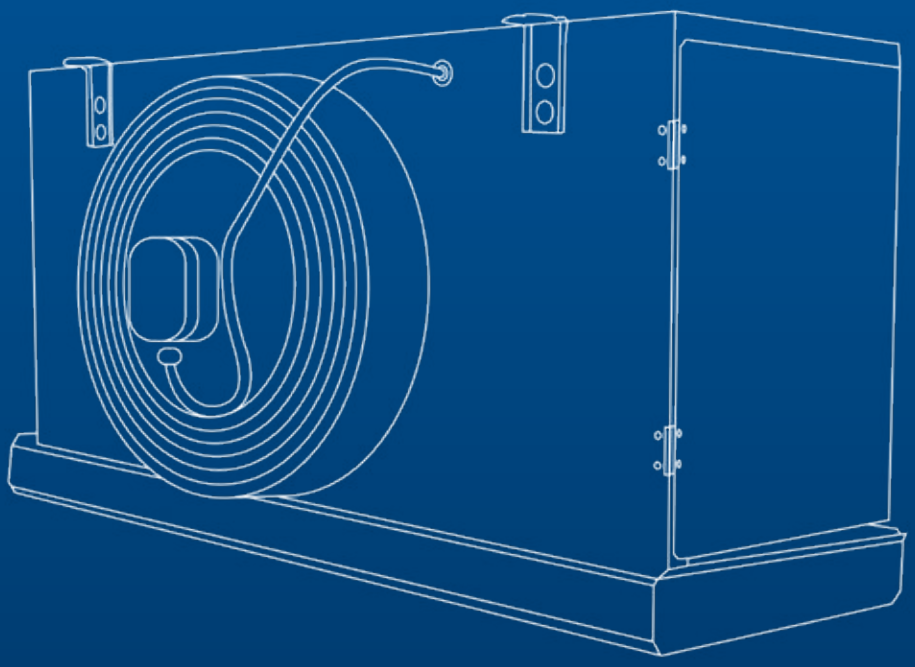
CUBIC / Compact

Air cooler – cubic design, compact

GACC

CO_2, R-404A, R-134a, ...
50 – 60 Hz
1.5 – 68 KW



GÜNTNER

CUBIC / **Compact**

GACC

Air cooler – cubic design, compact

1.5 – 68 kW

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

TÜV SÜD HACCP

Advantages

- Compact design
- 80 bar for CO_2
- Optimised casing dimensions for transport and storage
- 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

- Hinged side cover for opening
- Hinges allow hang-out
- Ceiling mounting brackets with slotted hole
- Schrader valve at outlet
- Easy access to all components

Inspection and cleaning

- Easy access to all components
- Heat exchanger can be cleaned from three sides
- Hinged inner and outer trays
- Outer tray is thermally decoupled to prevent water condensation

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 a staggered 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 mounting bracket

High-quality tray design

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

Top-quality fans

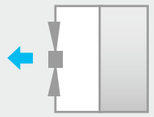
- Standard EC and AC fans available
- ErP-compliant
- Motor protection with thermocontacts
- 50 or 60 Hz
- Adjustable speed

Options / Accessories

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

Technical details

Air-flow direction



draw through

Refrigerant/capacity

Refrigerant	t_o	Air inlet	Fin spacing 4 mm	Fin spacing 7 mm
HFC	-8 °C -25 °C	0 °C -18 °C	1.5 – 61 kW	1.5 – 55 kW 1.5 – 39 kW
CO_2 DX	-8 °C -25 °C	0 °C -18 °C	1.5 – 68 kW	1.5 – 65 kW 1.5 – 52 kW

Fans

1 – 4

315/400/500 mm

Available defrost types

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

Heat exchanger

Highly efficient heat exchangers in well-proven Güntner quality

Fin spacing:
4/7 mm

Available material

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

✓ Standard version

✓ Available option

Suitable applications

Commercial refrigeration
Industrial refrigeration

Storage rooms and many types of cold storage rooms with low and medium humidity

Room temperatures +20 to -28 °C

Evaporator coil

- Aluminium fins
- Fin pattern: 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_2

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, to be wired at site
- 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
- AC fan 500 mm, 400 V, 3~, 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 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_2 and NH_3 have not previously been certified by Eurovent.

HFC

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

CO_2

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

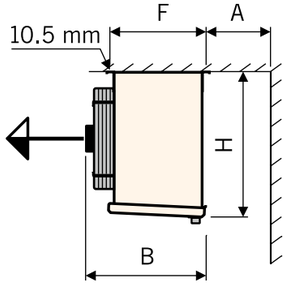
50 Hz AC		Number of fans	Nominal capacity R-404A		Sur-face	Air volume flow	Fan speed	Air throw *	Fan type	Volta-ge	Power consump-tion	Current	Energy efficiency class
Fin spacing	Defrost		SC2 dT1 = 8 K t_o = -8 °C	SC3 dT1 = 7 K t_o = -25 °C							Pel total		
7 mm	Electric		kW	kW	m²	m³/h	rpm	m		V	kW	A	
GACC RX 031.1/1-70.E-1845987			1.7	1.3	5.3	1660	1350	10	VT0603	230	0.1	0.4	D
GACC RX 031.1/1-70.E-1846012			2.4	1.9	7.9	1580	1350	9	VT0603	230	0.1	0.4	C
GACC RX 031.1/1-70.E-1846011			2.9	2.2	10.6	1510	1350	8	VT0603	230	0.1	0.4	C
GACC RX 040.1/1-70.E-1846027			3.3	2.6	9.8	3400	1310	14	VT0605	230	0.2	0.9	D
GACC RX 040.1/1-70.E-1846026			4.6	3.8	14.7	3220	1310	13	VT0605	230	0.2	0.9	C
GACC RX 040.1/1-70.E-1845982			5.6	4.5	19.6	3060	1310	12	VT0605	230	0.2	0.9	C
GACC RX 031.1/2-70.E-1845996			3.4	2.7	10.6	3320	1350	11	VT0603	230	0.2	0.4	D
GACC RX 031.1/2-70.E-1846007			4.8	3.7	15.9	3160	1350	10	VT0603	230	0.2	0.4	C
GACC RX 031.1/2-70.E-1846000			5.7	4.5	21.2	3020	1350	9	VT0603	230	0.2	0.4	C
GACC RX 040.1/2-70.E-1846021			9.2	7.3	29.4	6440	1310	14	VT0605	230	0.4	0.9	C
GACC RX 040.1/2-70.E-1846008			11.1	9.0	39.2	6120	1310	13	VT0605	230	0.4	0.9	C
GACC RX 050.1/2-70.E-1845981			19.2	15.3	60.5	13700	1410	23	VT01285	400	1.0	1.5	D
GACC RX 050.1/2-70.E-1845999			23.7	18.4	80.6	13360	1410	22	VT01285	400	1.0	1.5	C
GACC RX 050.1/2-70.E-1845980			27.0	21.9	100.8	13040	1410	21	VT01285	400	1.0	1.5	C
GACC RX 031.1/3-70.E-1845991			7.2	5.5	23.8	4740	1350	10	VT0603	230	0.3	0.4	C
GACC RX 031.1/3-70.E-1846015			8.6	6.9	31.8	4530	1350	9	VT0603	230	0.3	0.4	C
GACC RX 040.1/3-70.E-1846010			13.8	11.0	44.1	9660	1310	15	VT0605	230	0.6	0.9	C
GACC RX 040.1/3-70.E-1845979			16.8	13.0	58.7	9180	1310	14	VT0605	230	0.6	0.9	C
GACC RX 050.1/3-70.E-1846009			35.5	28.6	120.9	20040	1410	23	VT01285	400	1.5	1.5	C
GACC RX 050.1/3-70.E-1845977			40.5	31.3	151.2	19560	1410	22	VT01285	400	1.6	1.5	C
GACC RX 031.1/4-70.E-1846014			9.5	7.5	31.8	6320	1350	11	VT0603	230	0.4	0.4	C
GACC RX 031.1/4-70.E-1846001			11.5	9.1	42.4	6040	1350	10	VT0603	230	0.4	0.4	C
GACC RX 040.1/4-70.E-1846017			18.4	14.8	58.7	12880	1310	16	VT0605	230	0.8	0.9	C
GACC RX 040.1/4-70.E-1846019			22.3	18.1	78.3	12240	1310	14	VT0605	230	0.8	0.9	C
GACC RX 050.1/4-70.E-1845978			47.5	36.9	161.3	26720	1410	24	VT01285	400	2.0	1.5	C
GACC RX 050.1/4-70.E-1846018			52.1	37.4	201.6	26080	1410	23	VT01285	400	2.1	1.5	C

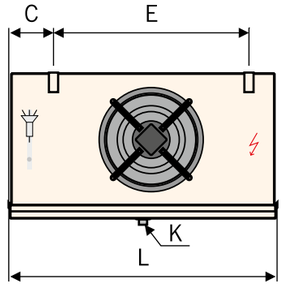
* measurable up to 0.5 m/s

Sound pressure	Sound power level	Tube volume	mounted el. defrost/Coil and drip tray	Sketch unittype	Dimensions								Net weight	Connections refrigerant		In stock
			El. voltage / Power consumption		L	B	H	C	E	F	A	K		Inlet	Outlet	
dB(A) 3 m	dB(A)	l			mm	mm	mm	mm	mm	mm	mm	NW“	kg	mm Ø	mm Ø	
40.7	62.0	2.1	230V-1~-0,97kW	GACC1	752	430	455	165	460	332	300	G¾	21	12	12	
40.7	62.0	3.3	230V-1~-1,44kW	GACC1	752	430	455	165	460	332	300	G¾	24	16**	18	✓
40.7	62.0	4.3	230V-1~-1,44kW	GACC1	752	430	455	165	460	332	300	G¾	28	16**	18	✓
50.5	72.0	3.8	230V-1~-1,78kW	GACC1	1006	560	565	177	680	406	400	G1¼	30	16**	18	
50.5	72.0	5.8	230V-1~-2,32kW	GACC1	1006	560	565	177	680	406	400	G1¼	38.5	16**	28	
50.5	72.0	7.6	230V-1~-2,86kW	GACC1	1006	560	565	177	680	406	400	G1¼	42.5	16**	28	
43.5	65.0	3.8	230V-1~-1,71kW	GACC2	1212	430	455	165	920	332	300	G¾	33	16**	18	✓
43.5	65.0	5.7	230V-1~-2,57kW	GACC2	1212	430	455	165	920	332	300	G¾	37	16**	18	✓
43.5	65.0	7.6	230V-1~-2,57kW	GACC2	1212	430	455	165	920	332	300	G¾	44	16**	22	✓
53.2	75.0	10.3	230V-1~-4,95kW	GACC2	1686	560	565	177	1360	406	400	G1¼	62	16**	28	✓
53.2	75.0	13.8	400V-3~N-6,2kW	GACC2	1686	560	565	177	1360	406	400	G1¼	75	22**	35	
58.8	81.0	21.3	400V-3~N-11,15kW	GACC2a	2377	623	755	234	1000	486	550	G1¼	128	22**	42	✓
58.8	81.0	27.9	400V-3~N-11,15kW	GACC2a	2377	623	755	234	1000	486	550	G1¼	143	22**	42	✓
58.8	81.0	34.4	400V-3~N-12,9kW	GACC2a	2377	623	755	234	1000	486	550	G1¼	153	22**	54	✓
45.1	66.8	8.2	230V-1~-3,7kW	GACC3	1672	430	455	165	1380	332	300	G¾	53	16**	22	✓
45.1	66.8	11.2	230V-1~-3,7kW	GACC3	1672	430	455	165	1380	332	300	G¾	64	16**	35	✓
54.7	76.8	15.1	400V-3~N-6,5kW	GACC3a	2366	560	565	177	680	406	400	G1¼	88.5	22**	35	✓
54.7	76.8	19.8	400V-3~N-8,1kW	GACC3a	2366	560	565	177	680	406	400	G1¼	106.5	22**	35	✓
60.2	82.8	40.8	400V-3~N-15,2kW	GACC3a	3377	623	755	234	1000	486	550	G1¼	208.5	28**	54	✓
60.2	82.8	49.7	2x400V-3~N-17,6kW	GACC3a	3377	623	755	234	1000	486	550	G1¼	220.5	22**	54	
46.2	68.0	10.8	230V-1~-5,55kW	GACC4	2132	430	455	165	920	332	300	G¾	69	16**	28	
46.2	68.0	14.4	230V-1~-5,55kW	GACC4	2132	430	455	165	920	332	300	G¾	83	16**	35	
55.7	78.0	20.0	400V-3~N-9,1kW	GACC4a	3046	560	565	177	680	406	400	G1¼	116	22**	42	
55.7	78.0	26.2	400V-3~N-11,4kW	GACC4a	3046	560	565	177	680	406	400	G1¼	141	22**	42	
61.1	84.0	53.2	2x400V-3~N-21,1kW	GACC4a	4387	623	755	234	1000	486	550	G1¼	270	28**	54	
61.1	84.0	65.1	2x400V-3~N-24,6kW	GACC4a	4387	623	755	234	1000	486	550	G1¼	288	28**	54	

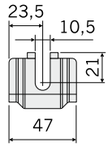
** Multiple injection

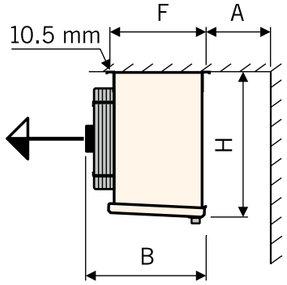
GACC | Dimensional sketches unit type I

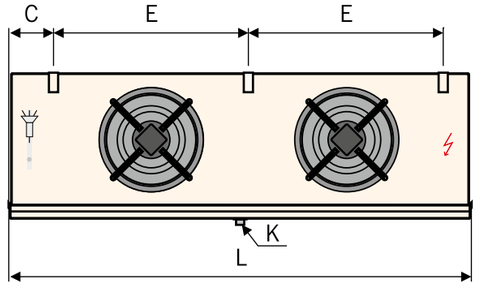


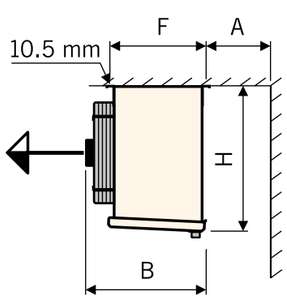


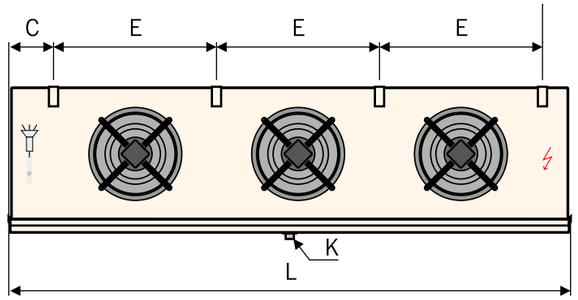
Ceiling mounting brackets

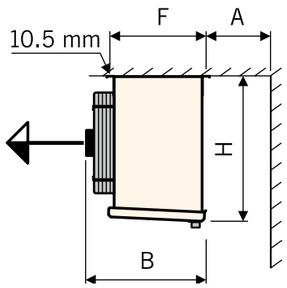


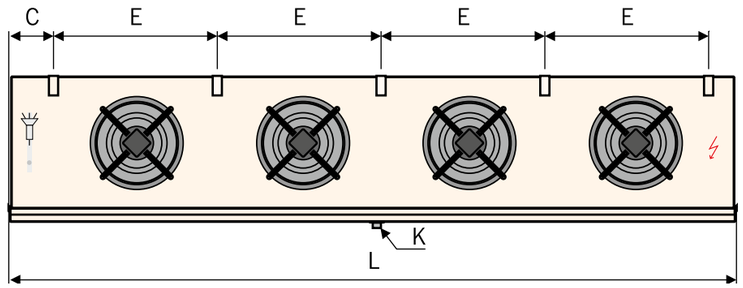




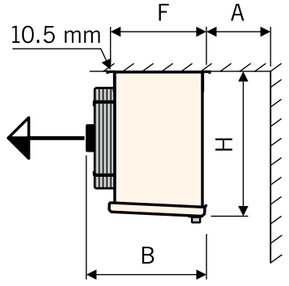


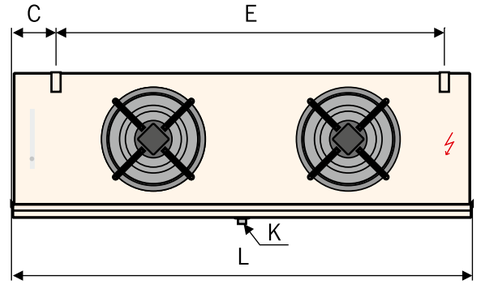




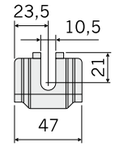


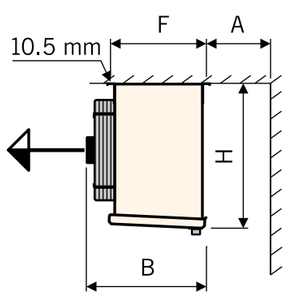
GACC | Dimensional sketches unit type II

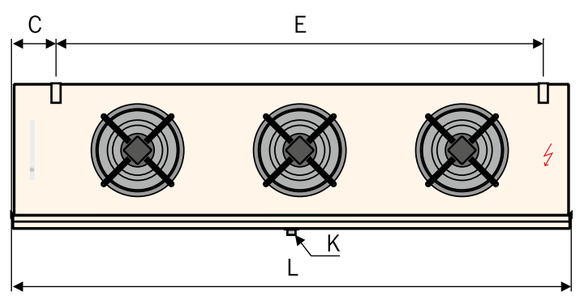


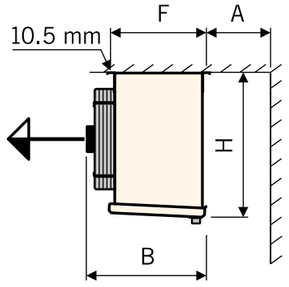


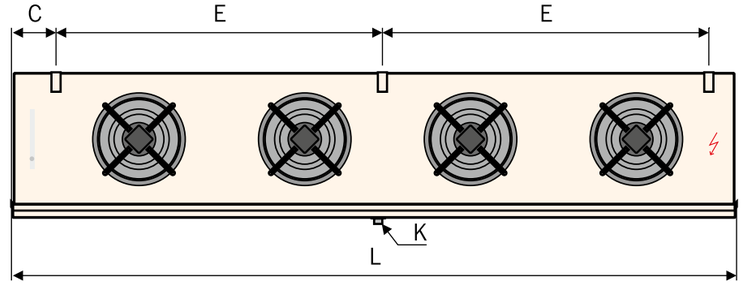
Ceiling mounting brackets











Correction factors acc. to Eurovent

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 = nominal refrigerating capacity Q_{0N} × correction factor f_R

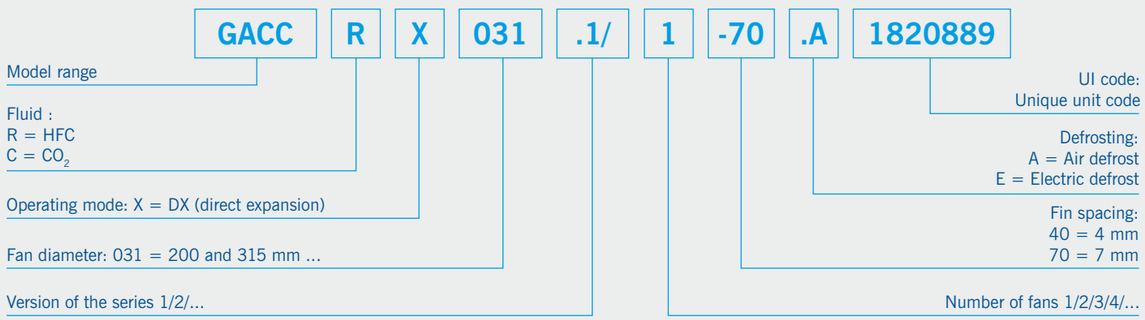
SC2 = standard condition dT1 = 8 K, t_o = -8 °C
SC3 = Standard condition dT1 = 7 K, t_o = -25 °C

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 = nominal refrigerating capacity Q_{0N} × correction factor f_M

Nomenclature



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