

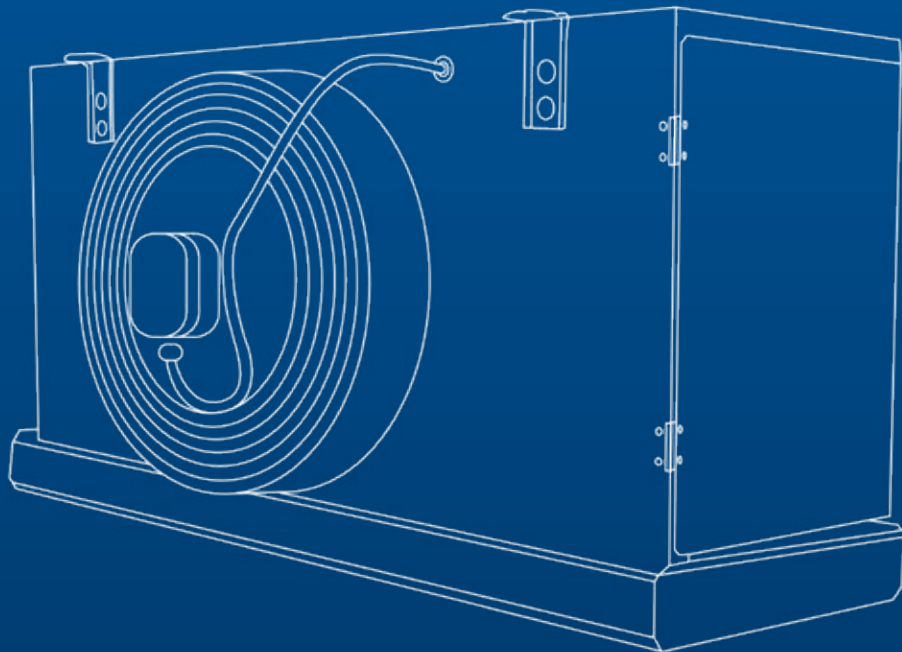


CUBIC / Compact

Air cooler – cubic design, compact

GACC

CO₂, R-404A, R-134a, ...
50 – 60 Hz
1.5 – 68 KW



GACC

Air cooler – cubic design, compact

1.5 – 68 kW



Advantages

- Compact design
- 80 bar for CO₂
- 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

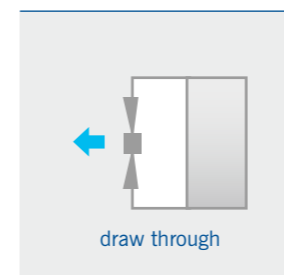
Options / Accessories

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



Technical details

Air-flow direction



Refrigerant/capacity

Refrigerant	t ₀	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 Guntner 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 CO₂

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 CO₂ and NH₃ 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 ₂					
	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



GACC RX for HFC | Capacity tables

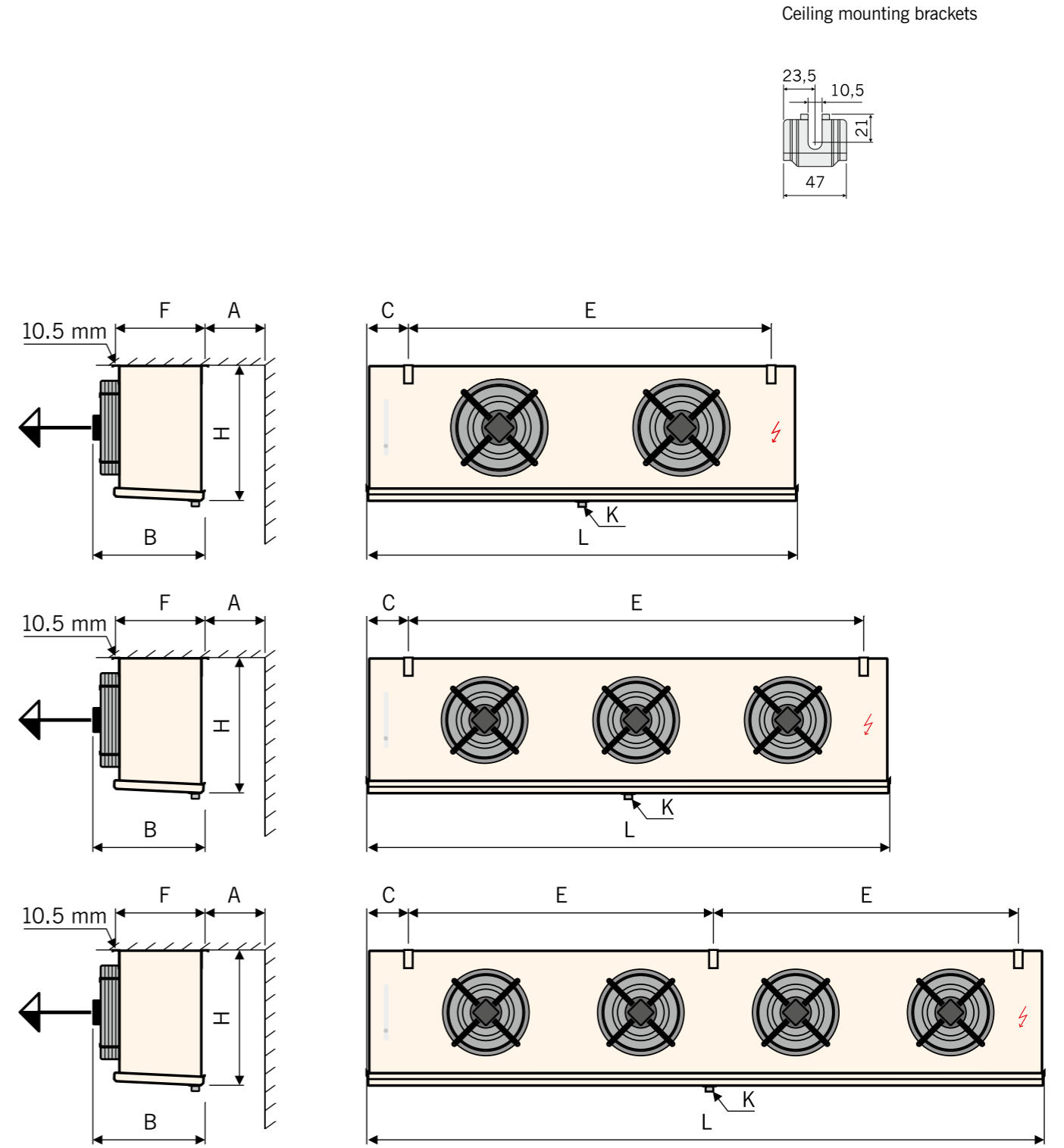
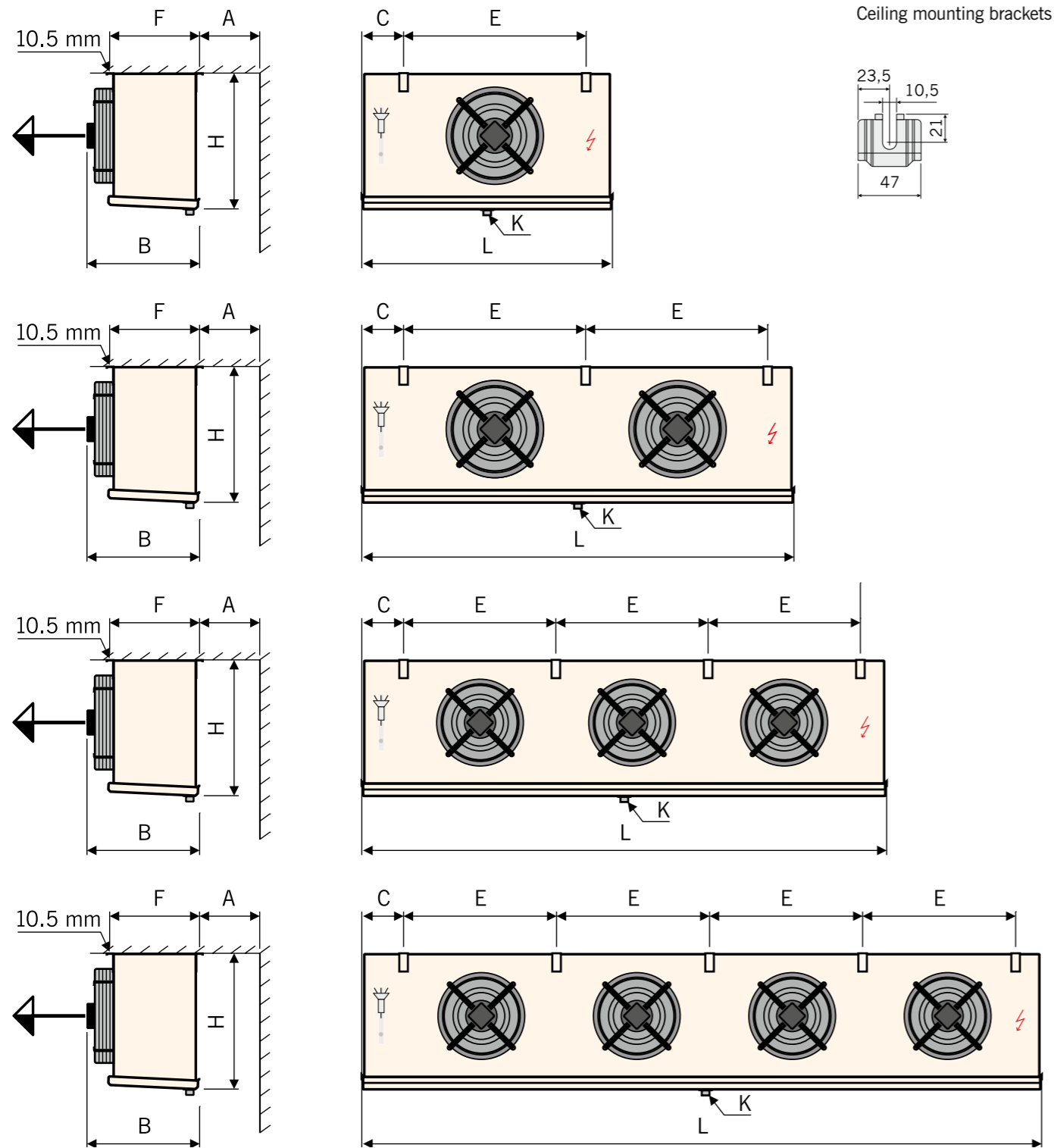
Fluid				Hz					
CO ₂	HFC	AC	EC	50	60	4 mm	7 mm	A	E

50 Hz AC		Number of fans	Nominal capacity R-404A		Surface	Air volume flow	Fan speed	Air throw *	Fan type	Voltage	Power consumption	Current	Energy efficiency class
Fin spacing	Defrost		SC2	SC3									
7 mm	Circulating air		dT1 = 8 K t _o = -8 °C	dT1 = 7 K t _o = -25 °C	m ²	m ³ /h	rpm	m		V	kW	A	
GACC RX 031.1/1-70.A-1820864			1.7	1.3	5.3	1660	1350	10	VT0603	230	0.1	0.4	D
GACC RX 031.1/1-70.A-1820863			2.4	1.9	7.9	1580	1350	9	VT0603	230	0.1	0.4	C
GACC RX 031.1/1-70.A-1820865			2.9	2.2	10.6	1510	1350	8	VT0603	230	0.1	0.4	C
GACC RX 040.1/1-70.A-1820854			3.3	2.6	9.8	3400	1310	14	VT0605	230	0.2	0.9	D
GACC RX 040.1/1-70.A-1820883			4.6	3.8	14.7	3220	1310	13	VT0605	230	0.2	0.9	C
GACC RX 040.1/1-70.A-1820878			5.6	4.5	19.6	3060	1310	12	VT0605	230	0.2	0.9	C
GACC RX 031.1/2-70.A-1820880			3.4	2.7	10.6	3320	1350	11	VT0603	230	0.2	0.4	D
GACC RX 031.1/2-70.A-1820849			4.8	3.7	15.9	3160	1350	10	VT0603	230	0.2	0.4	C
GACC RX 031.1/2-70.A-1820845			5.7	4.5	21.2	3020	1350	9	VT0603	230	0.2	0.4	C
GACC RX 040.1/2-70.A-1820879			9.2	7.3	29.4	6440	1310	14	VT0605	230	0.4	0.9	C
GACC RX 040.1/2-70.A-1820837			11.1	9.0	39.2	6120	1310	13	VT0605	230	0.4	0.9	C
GACC RX 050.1/2-70.A-1820877			19.2	15.3	60.5	13700	1410	23	VT01285	400	1.0	1.5	D
GACC RX 050.1/2-70.A-1820867			23.7	18.4	80.6	13360	1410	22	VT01285	400	1.0	1.5	C
GACC RX 050.1/2-70.A-1820840			27.0	21.9	100.8	13040	1410	21	VT01285	400	1.0	1.5	C
GACC RX 031.1/3-70.A-1820866			7.2	5.5	23.8	4740	1350	10	VT0603	230	0.3	0.4	C
GACC RX 031.1/3-70.A-1820860			8.6	6.9	31.8	4530	1350	9	VT0603	230	0.3	0.4	C
GACC RX 040.1/3-70.A-1820876			13.8	11.0	44.1	9660	1310	15	VT0605	230	0.6	0.9	C
GACC RX 040.1/3-70.A-1820859			16.8	13.0	58.7	9180	1310	14	VT0605	230	0.6	0.9	C
GACC RX 050.1/3-70.A-1820838			35.5	28.6	120.9	20040	1410	23	VT01285	400	1.5	1.5	C
GACC RX 050.1/3-70.A-1820858			40.5	31.3	151.2	19560	1410	22	VT01285	400	1.6	1.5	C
GACC RX 031.1/4-70.A-1820841			9.5	7.5	31.8	6320	1350	11	VT0603	230	0.4	0.4	C
GACC RX 031.1/4-70.A-1820874			11.5	9.1	42.4	6040	1350	10	VT0603	230	0.4	0.4	C
GACC RX 040.1/4-70.A-1820871			18.4	14.8	58.7	12880	1310	16	VT0605	230	0.8	0.9	C
GACC RX 040.1/4-70.A-1820870			22.3	18.1	78.3	12240	1310	14	VT0605	230	0.8	0.9	C
GACC RX 050.1/4-70.A-1820884			47.5	36.9	161.3	26720	1410	24	VT01285	400	2.0	1.5	C
GACC RX 050.1/4-70.A-1820855			52.1	37.4	201.6	26080	1410	23	VT01285	400	2.1	1.5	C

Sound pressure	Sound power level	Tube volume	El. defrost kit supplied loose	Type of defrost kit	Sketch unit type	Dimensions												Net weight	Connections refrigerant		In stock
						L	B	H	C	E	F	A	K	Inlet	Outlet						
dB(A) 3 m	dB(A)	l	El. voltage / Power consumption			mm	mm	mm	mm	mm	mm	mm	NW"	kg	mm Ø	mm Ø					
40.7	62.0	2.1	230V-1~-0,97kW	BG351035-00001	GACC1	752	430	455	165	460	332	300	G¾	21	12	12					
40.7	62.0	3.3	230V-1~-1,44kW	BG351035-00002	GACC1	752	430	455	165	460	332	300	G¾	24	16**	18	✓				
40.7	62.0	4.3	230V-1~-1,44kW	BG351035-00002	GACC1	752	430	455	165	460	332	300	G¾	28	16**	18	✓				
50.5	72.0	3.8	230V-1~-1,78kW	BG351035-00003	GACC1	1006	560	565	177	680	406	400	G1¼	30	16**	18					
50.5	72.0	5.8	230V-1~-2,32kW	BG351035-00004	GACC1	1006	560	565	177	680	406	400	G1¼	38.5	16**	28					
50.5	72.0	7.6	230V-1~-2,86kW	BG351035-00005	GACC1	1006	560	565	177	680	406	400	G1¼	42.5	16**	28					
43.5	65.0	3.8	230V-1~-1,71kW	BG351035-00006	GACC2	1212	430	455	165	920	332	300	G¾	33	16**	18	✓				
43.5	65.0	5.7	230V-1~-2,57kW	BG351035-00007	GACC2	1212	430	455	165	920	332	300	G¾	37	16**	18	✓				
43.5	65.0	7.6	230V-1~-2,57kW	BG351035-00007	GACC2	1212	430	455	165	920	332	300	G¾	44	16**	22	✓				
53.2	75.0	10.3	230/400V-1~-4,95kW	BG351035-00011	GACC2	1686	560	565	177	1360	406	400	G1¼	62	16**	28	✓				
53.2	75.0	13.8	400V-3~N-6,2kW	BG351035-00012	GACC2	1686	560	565	177	1360	406	400	G1¼	75	22**	35					
58.8	81.0	21.3	400V-3~N-11,15kW	BG351035-00015	GACC2a	2377	623	755	234	1000	486	550	G1¼	128	22**	42	✓				
58.8	81.0	27.9	400V-3~N-11,15kW	BG351035-00015	GACC2a	2377	623	755	234	1000	486	550	G1¼	143	22**	42	✓				
58.8	81.0	34.4	400V-3~N-12,9kW	BG351035-00016	GACC2a	2377	623	755	234	1000	486	550	G1¼	153	22**	54	✓				
45.1	66.8	8.2	230/400V-1~-3,7kW	BG351035-00009	GACC3	1672	430	455	165	1380	332	300	G¾	53	16**	22	✓				
45.1	66.8	11.2	230/400V-1~-3,7kW	BG351035-00009	GACC3	1672	430	455	165	1380	332	300	G¾	64	16**	35	✓				
54.7	76.8	15.1	400V-3~N-6,5kW	BG351035-00017	GACC3a	2366	560	565	177	680	406	400	G1¼	88.5	22**	35	✓				
54.7	76.8	19.8	400V-3~N-8,1kW	BG351035-00018	GACC3a	2366	560	565	177	680	406	400	G1¼	106.5	22**	35	✓				
60.2	82.8	40.8	400V-3~N-15,2kW	BG351035-00021	GACC3a	3377	623	755	234	1000	486	550	G1¼	208.5	28**	54	✓				
60.2	82.8	49.7	(2x) 400V-3~N-17,6kW	BG351035-00022	GACC3a	3377	623	755	234	1000	486	550	G1¼	220.5	22**	54					
46.2	68.0	10.8	230/400V-1~-5,55kW	BG351035-00013	GACC4	2132	430	455	165	920	332	300	G¾	69	16**	28					
46.2	68.0	14.4	230/400V-1~-5,55kW	BG351035-00013	GACC4	2132	430	455	165	920	332	300	G¾	83	16**	35					
55.7	78.0	20.0	400V-3~N-9,1kW	BG351035-00019	GACC4a	3046	560	565	177	680	406	400	G1¼	116	22**	42					
55.7	78.0	26.2	400V-3~N-11,4kW	BG351035-00020	GACC4a	3046	560	565	177	680	406	400	G1¼	141	22**	42					
61.1	84.0	53.2	(2x) 400V-3~N-21,1kW	BG351035-00023	GACC4a	4387	623	755	234	1000	486	550	G1¼	270	28**	54					
61.1	84.0	65.1	(2x) 400V-3~N-24,6kW	BG351035-00024	GACC4a	4387	623	755	234	1000	486	550	G1¼	288	28**	54					

* measurable up to 0.5 m/s

** Multiple injection



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 $Q_0 = \text{nominal refrigerating capacity } Q_{ON} \times \text{correction factor } f_R$

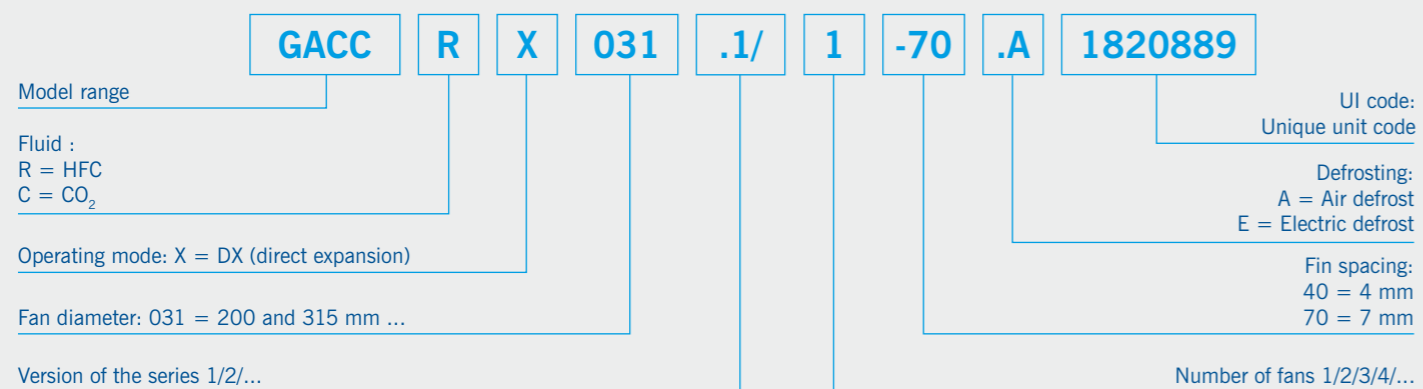
SC2 = standard condition $dT1 = 8 \text{ K}$, $t_o = -8 \text{ °C}$
SC3 = Standard condition $dT1 = 7 \text{ K}$, $t_o = -25 \text{ °C}$

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 $Q_0 = \text{nominal refrigerating capacity } Q_{ON} \times \text{correction factor } f_M$

Nomenclature



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82256 Fürstenfeldbruck
GERMANY

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Members of Güntner Group

