

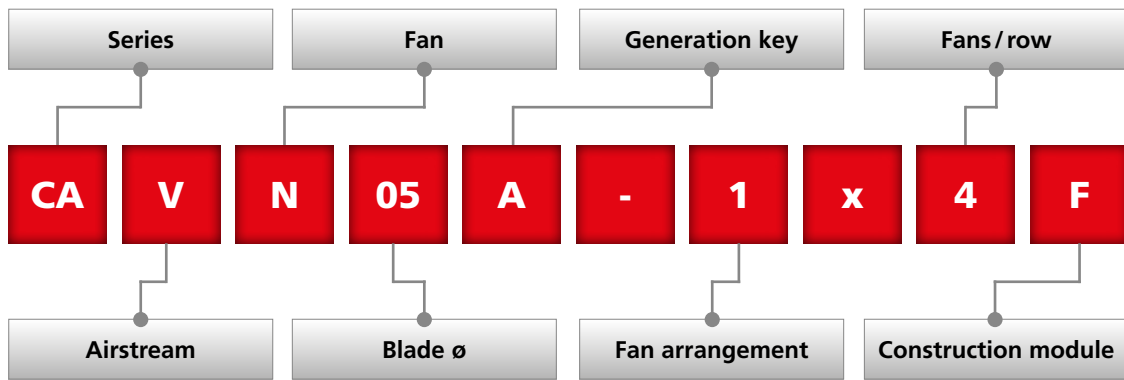


GEA Küba Red Line
Condensers & Dry Coolers

Reliable. Efficient. Silent.

Construction

Nomenclature



Series: CA = Frigen
GA = Glykol
NA = NH₃

Airstream: V = vertical
H = horizontal

Fan: N = normal
L = quiet
S = very quiet

Blade ø: 05 = 500 mm
06 = 650 mm
08 = 800 mm
09 = 910 mm
10 = 1,000 mm

Generation key: A, B, C, ...

Fan arrangement: 1 = 1-range
2 = 2-range

Fans/row: 1 = 1 fan/row
2 = 2 fans/row
3 = 3 fans/row
4 = 4 fans/row
5 = 5 fans/row
6 = 6 fans/row
7 = 7 fans/row

Construction module: F, G = 1,100 mm
H, I = 1,450 mm
A = 1,400 mm
B = 1,700 mm
C = 2,000 mm
D = 2,300 mm

Application

- **Nominal capacity:**
R404A CA. from 11 to 1,041 kW at $\Delta t=15K$ ($t_{l1} = 25^{\circ}C$, $t_c = 40^{\circ}C$)
- **Suitable refrigerants:**
Frigene (e.g. R134a, R404A, R407C, R507, etc.)
Calculation see section "Capacity" and in acc. with EDP
Calculation in acc. with GEA Küba selection software.
- All 828 types are designed for **external installation**.
- **Possible fields of application:**
 - Industrial plants
 - Supermarkets
 - Cold rooms

The low noise level of the S models allows installation in **noise-sensitive areas** such as:

 - Office complexes
 - Hospitals
 - Residential areas

Sound pressure levels

The sound pressure level L_{PA} indicated is the mean measurement area sound pressure level computed from Sound Power Level L_{WA} upon the parallel piped measuring surface squared around the condenser (reference square) at a distance of 10m and finishing off upon the reflecting level. The sound pressure levels L_{PA} indicated are for external installations above a reflecting level. The sound pressure level will increase if reflecting bordering surfaces other than reflecting installation surface exist. Acoustic power is measured using the enveloping surface method in accordance with EN 13487 and/or DIN EN ISO 3741 or DIN EN ISO 3744. The total acoustic power level is calculated by adding up the total acoustic pressure levels on the sectional measuring surfaces (DIN EN 13487).

Start-up, switching and control noise is ignored. Beat frequencies of up to 3 dB (A) may occur in apparatus with several fans.

Selection table 1-range (N + L)

 GEA Küba CAV/H
Selection table 1-range

CAV/H N ..-1x ..							CAV/H L ..-1x ..							CA. N+L			
Type	Nominal capacity Q _c		Airflow		Sound pressure L _{PA} =10m		Type	Nominal capacity Q _c		Airflow		Sound pressure L _{PA} =10m		Number of Circuits	Surface [m ²]	Tube volume [dm ³]	Weight [kg]
	Δ	Y	Δ	Y	Δ	Y		Δ	Y	Δ	Y	Δ	Y				
CA.	[kW]		[m ³ /h]		[dB(A)]		CA.	[kW]		[m ³ /h]		[dB(A)]		x	[m ²]	[dm ³]	[kg]
N05A-1x1F	19.6	16.4	6,410	4,940	52	45	L05A-1x1F	19.3	16.6	6,260	5,030	50	44	4	42	6.8	86
N05A-1x1G	25.2	20.3	6,020	4,640	52	45	L05A-1x1G	24.6	20.4	5,840	4,680	50	44	8	84	13.5	97
N05A-1x2F	39.5	33.2	12,830	9,880	55	48	L05A-1x2F	38.9	33.6	12,510	10,050	53	47	6	84	13.3	116
N05A-1x2G	50.7	42.2	12,040	9,280	55	48	L05A-1x2G	49.5	42.2	11,680	9,350	53	47	12	167	26.6	158
N05A-1x3F	59.3	49.9	19,240	14,820	57	50	L05A-1x3F	58.4	50.5	18,770	15,080	55	49	8	125	19.9	172
N05A-1x3G	76.3	62.1	18,050	13,920	57	50	L05A-1x3G	74.4	62.4	17,520	14,030	55	49	16	251	39.6	228
N06A-1x1F	36.1	32.7	14,650	12,310	63	59	L06A-1x1F	28.5	26.8	9,820	8,900	53	51	4	55	9.2	128
N06A-1x1G	48.3	42.1	12,700	10,600	63	59	L06A-1x1G	34.9	32.0	8,360	7,530	53	51	8	110	18.3	150
N06A-1x1H	41.4	37.6	15,430	13,170	63	59	L06A-1x1H	32.0	30.1	10,250	9,350	53	51	8	73	12.0	142
N06A-1x1I	54.3	48.8	13,670	11,960	62	58	L06A-1x1I	40.4	37.1	9,470	8,570	52	50	13	146	23.8	176
N06A-1x2F	72.6	65.7	29,300	24,630	66	62	L06A-1x2F	57.2	53.7	19,630	17,790	56	54	8	110	18.4	208
N06A-1x2G	96.7	84.2	25,390	21,190	65	61	L06A-1x2G	69.7	64.0	16,720	15,050	55	53	16	221	35.8	255
N06A-1x2H	84.1	76.2	30,860	26,340	66	62	L06A-1x2H	64.9	61.0	20,500	18,700	56	54	11	146	23.8	242
N06A-1x2I	109.2	98.2	27,340	23,910	65	61	L06A-1x2I	81.1	74.6	18,940	17,140	55	53	21	291	47.0	299
N06A-1x3F	108.7	98.4	43,950	36,940	68	64	L06A-1x3F	85.8	80.7	29,450	26,690	58	56	11	166	27.3	300
N06A-1x3G	145.3	126.6	38,090	31,790	67	63	L06A-1x3G	104.9	96.2	25,080	22,580	57	55	21	331	53.3	370
N06A-1x3H	126.2	114.5	46,290	39,510	68	64	L06A-1x3H	97.4	91.6	30,750	28,050	58	56	16	218	35.5	357
N06A-1x3I	163.8	147.3	41,020	35,870	67	63	L06A-1x3I	121.7	111.9	28,400	25,700	57	55	32	437	70.5	418
N08A-1x1A	64.1	52.9	16,500	12,900	52	46	L08A-1x1A	61.0	46.1	15,470	10,890	53	46	12	158	25.9	290
N08A-1x1B	71.6	57.9	18,100	13,850	52	46	L08A-1x1B	67.7	51.5	16,840	12,010	53	46	18	191	31.5	320
N08A-1x1C	77.0	62.5	18,900	14,630	52	46	L08A-1x1C	73.7	56.0	17,880	12,830	53	46	18	225	36.7	340
N08A-1x2A	128.4	105.8	33,000	25,790	54	49	L08A-1x2A	122.2	92.2	30,940	21,770	56	49	24	315	51.2	500
N08A-1x2B	144.6	116.8	36,200	27,700	54	49	L08A-1x2B	136.7	103.7	33,690	24,020	56	49	24	383	61.7	570
N08A-1x2C	154.1	125.1	37,790	29,250	54	49	L08A-1x2C	147.5	112.0	35,760	25,660	56	49	36	450	72.1	620
N08A-1x3A	192.6	158.8	49,500	38,690	56	51	L08A-1x3A	183.3	138.3	46,410	32,660	58	51	36	473	76.6	730
N08A-1x3B	217.0	175.2	54,290	41,540	56	51	L08A-1x3B	205.1	155.6	50,530	36,030	58	51	36	574	92.4	840
N08A-1x3C	232.6	188.8	56,690	43,880	56	51	L08A-1x3C	222.5	162.0	53,640	38,480	58	51	36	675	108.1	920
N08A-1x4A	257.7	212.7	66,000	51,580	57	52	L08A-1x4A	245.3	185.3	61,880	43,540	59	52	36	630	102.2	970
N08A-1x4B	286.5	231.6	72,390	55,390	57	52	L08A-1x4B	270.8	205.9	67,380	48,040	59	52	72	765	123.0	1,110
N08A-1x4C	308.3	250.2	75,580	58,510	57	52	L08A-1x4C	295.0	224.1	71,520	51,310	59	52	72	901	144.0	1,220
N08A-1x5A	319.3	263.4	82,510	64,480	58	53	L08A-1x5A	303.8	229.6	77,350	54,430	60	53	72	788	126.5	1,180
N08A-1x5B	360.5	291.0	90,490	69,240	57	52	L08A-1x5B	340.7	258.6	84,220	60,050	59	52	72	957	154.3	1,340
N08A-1x5C	387.3	314.1	94,480	73,140	57	52	L08A-1x5C	370.4	270.4	89,400	64,140	59	52	72	1,126	180.5	1,480

Continued on next page →

Nominal capacity Q_c: R404A; Δt=15K; t_i= 25°C; t_c=40°C
 Sound pressure: Enveloping surface method, in acc. with DIN EN ISO 13487
 Δ: Valid at high rpm
 Y: Valid at low rpm

Container type (CCAV/H) and other designs available in our GEA Küba Select selection program!



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GEA Heat Exchangers

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