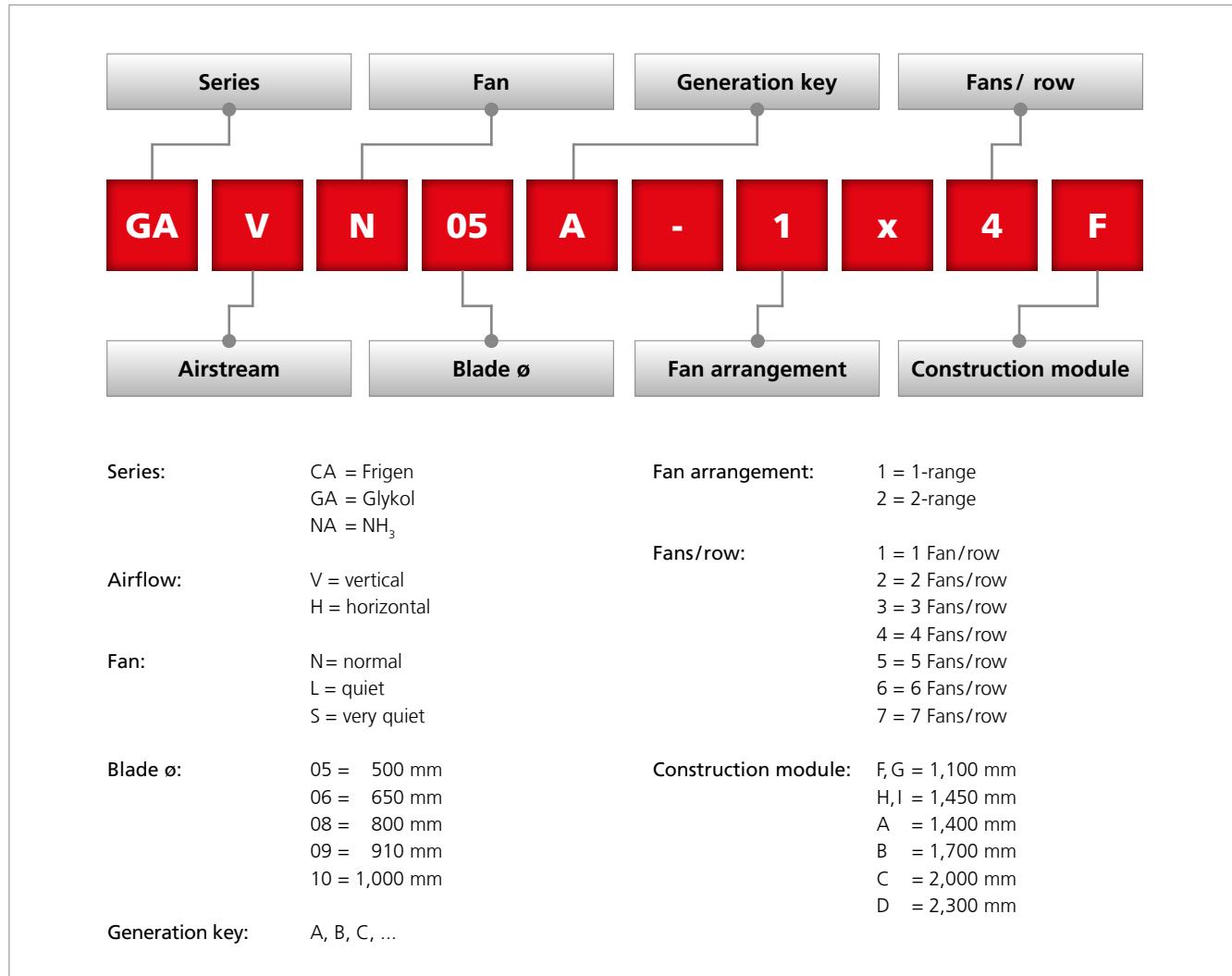


# GAV/H

## Construction

Nomenclature:



## Application

### Nominal capacity:

Nominal capacity GA. from 15 to 785 kW at  $t_{L1}=32^\circ\text{C}$  and  $t_{glycol}=45/40^\circ\text{C}$ , 34 Vol% Monoethyenglycol (Antifrogen N)

### Suitable refrigerants:

The type series is suitable for all conventional brines and water. EDP calculation in acc. with GEA Küba selection software.

All 828 models designed for **external installation**.

### Possible areas 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 parallelpiped measuring surface squared around the dry cooler (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. In the case of multi-fan dry cooler deviations of up to 3 dB(A) may occur.

## Construction

### Casing

**Self-supporting construction, fan sections individually partitioned.**

- Casing and legs from galvanized sheet steel
- Temperature- and UV-radiation resistant powder coating RAL 7032 pebble gray
- Lifting lugs standard

### Heat exchanger

**Standard tube arrangement lengthwise, staggered, in special copper.**

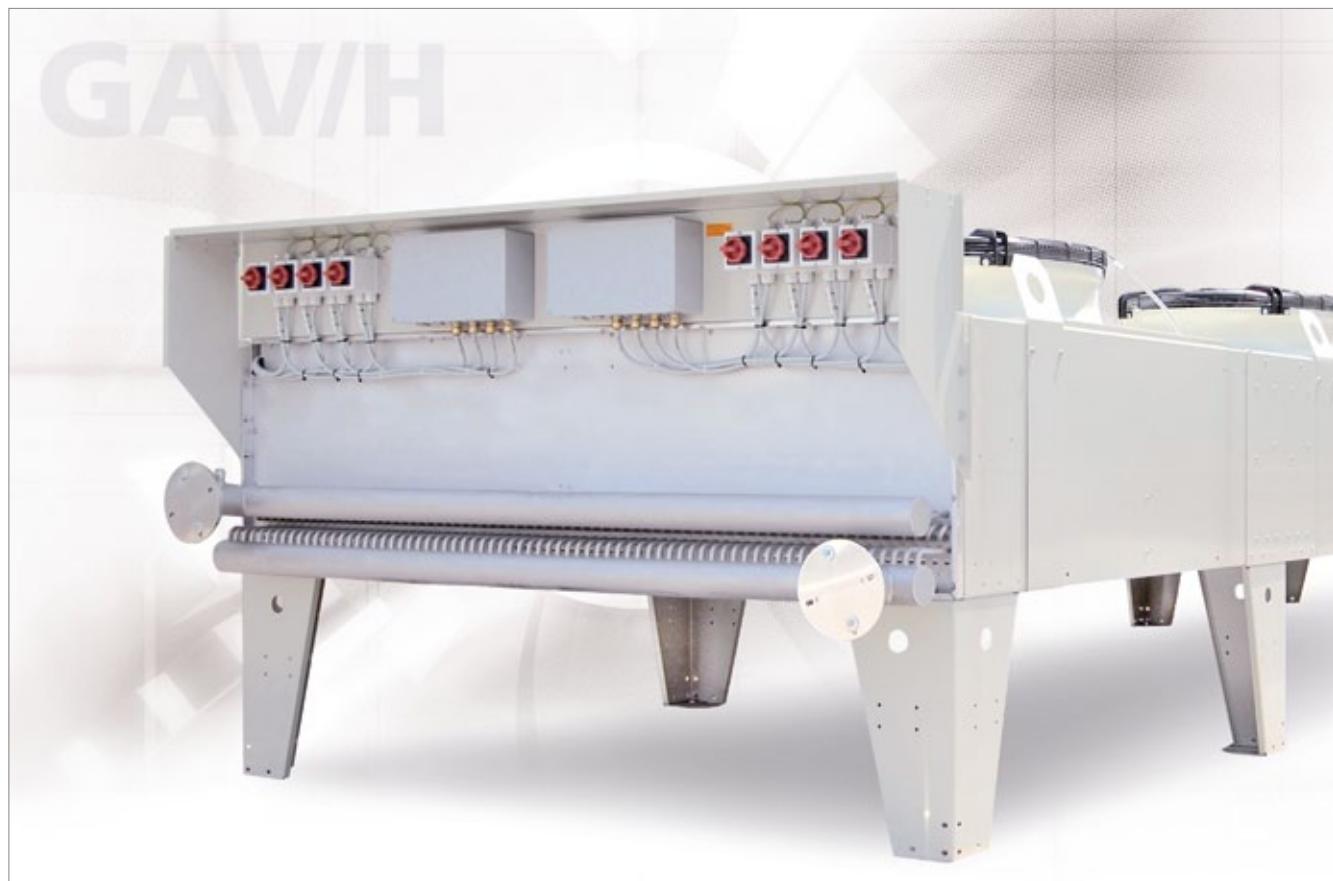
- Material:  
Tubes: SF-Cu  
Fins: AL with closed dimpled fins  
Fin spacing: 2.2 mm
- Multi-circuiting possible
- Connections  
Male thread connection of steel, vertical type (use for vertical and horizontal airflow)
- Maximum permissible pressure: 16 bar

### Axial fans

**Compact unit without external pressure, weather resistant:  
Motor with fans, Fan guard in accordance with DIN EN ISO 13857 and assembly brackets.**

- Fan blade ø 500, 650, 800, 910, 1000 mm, balanced in two levels according to a DIN EN ISO 1940 standard
- Motors, three-phase current  $400 \pm 10\% \text{V}$ , 50 Hz, 2 speeds,  $\Delta$ -Y-connections, Protection: IP 54
- Variable speed control by reduction of voltage.
- Proof to frequency changes (maximum fan pitch  $dU/dt = 500 \text{V}/\mu\text{s}$ ;  $U_{\text{peak}} < 1000 \text{V}$ ,  $f_{\text{max}} < 60 \text{Hz}$ ).
- Standard protection of motor by thermocouples.
- For outdoor installation and ambient motor temperatures of -30°C up to +60°C.
- Please contact Küba for special voltages.
- GA. 05 and 06: Fans 230V 1, (no surcharge)
- All fans ErP 2015 compliant

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



## Power, Fluid connections

### Power

To determine the specifications of the dry coolers for use with other fluids or other conditions, please use our GEA Küba Selection Software.

### Connections

Standard models include air vents and drain plug.

Cooling agent flow $V_{\text{GLY}}$ m <sup>3</sup> /h	Male screw connection according to DIN 2440 NW [Inches]
< 1.09	1/2
< 1.98	3/4
< 3.14	1
< 4.75	1 1/4
< 6.45	1 1/2
< 10.60	2
< 20.08	2 1/2
< 24.50	3
< 42.41	4
< 49.00	2 x 3
< 84.82	2 x 4

## Fans

Speed actuator and control operation

### Speed control by decrease of the effective voltage

Single-phase and three-phase motors can be speed controlled via voltage reduction. During partial speed, substantial losses occur in the rotor, since slip power is transformed into heat. The voltage decrease can be accomplished by a transformer or by phase control.

When using phase control, the voltage has a greater harmonic content, resulting in additional losses and causing additional heat in the motor.

Depending on installation conditions, the noise level may increase with electronic speed control by voltage reduction through phase angle control. The current may furthermore be higher than given on the nameplate.

### Speed control by frequency converters

The standard AC fans are suitable for operation with frequency converters between 30% and 100% of rated motor frequency. For reduction of peak voltages and voltage increase speed and motor noise (at reduced speed) frequency converter manufacturers recommend the use of all pole sinus filters

Axial fans are suited for operation by frequency converters provided the following points are observed:

Sinus filters to ensure sinusoidal supply voltage between phases and between phase and protective earth, as offered by some converter manufacturers, must be fitted between frequency converter and motor.

$dU/dt$  filters (also called motor or damping filters) must not be used instead of sinus filters.

When using sinus filters it may be unnecessary to use screened motor supply cables, metal terminal boxes and a second earth wire connection on the motor.

If the operational leakage current of 3.5 mA is exceeded, the earthing requirements as set out in DIN VDE 0160/5.88, Section 6.5.2.1, must be complied with.

**Manufacturers instructions must be observed!**

### Motor Protection:

A current-dependent motor protection facility (motor circuitbreaker or bimetal tripping device) is not provided and it must be noted that protection by thermo-couples TK should be wired.

Thermocouples are temperature-dependent elements which are insulated such that they are embedded in the windings of the motors. They open an electrical contact as soon as the maximum permissible permanent temperature is exceeded. They should be integrated in the control circuit of contactors in such a way, that in case of failure no automatic reactivation occurs.

Thermocouples fulfill the conditions for protecting devices with electric motor drive (IEC VDE 0730) against overloading.

## Sound Data

### Sound Power Levels

The A-grade total sound power level  $L_{WA}$  has been determined by way of sound measurements in accordance with DIN EN ISO 3744 for one fan.

DIN EN ISO 3744 describes the measuring method with precision class 2 with a standard deviation (acoustic power) of  $\leq 2\text{dB}$ .

### Sound Pressure Level for several fans at nominal speed rating

Fans per dry cooler	2	3	4	5	6	8	10	12	14
Increase $L_{PA}$ [dB(A)]	+3	+5	+6	+7	+8	+9	+10	+11	+11

## Sound Power Level for one fan at nominal speed rating

Module	Fan	Blade Ø	Sound Power Level		Sound Power Level $L_{WA}$ [dB(A)] at Octave band centre frequency f [Hz], A-rated																	
			$L_{WA}$	$\Delta$   $Y$	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz									
			$\Delta$	$Y$	$\Delta$	$Y$	$\Delta$	$Y$	$\Delta$	$Y$	$\Delta$	$Y$	$\Delta$	$Y$	$\Delta$	$Y$						
05-	N	500	83	77	49	45	71	64	72	66	76	70	79	72	77	72	72	64	62	53	50	39
	L		82	76	49	44	70	63	71	66	75	69	78	72	76	69	71	64	61	53	48	39
	S		72	63	43	48	59	50	63	56	65	58	68	57	65	54	59	46	49	35	36	27
06-	N	650	94	90	54	52	74	69	85	81	86	82	89	85	89	85	86	81	75	69	63	58
	L		84	82	50	48	63	61	75	73	76	74	80	77	79	77	73	70	62	59	52	49
	S		77	74	48	46	64	62	67	64	69	66	72	70	71	68	63	59	53	50	43	40
08-	N	800	85	78	56	60	71	64	75	69	78	72	81	74	77	71	72	65	64	57	53	46
	L		86	78	56	56	70	64	75	65	78	71	81	73	80	73	77	68	68	58	57	47
	S		65	60	44	41	53	48	56	54	60	53	60	54	57	50	49	42	41	35	31	27
09-	N	900	92	85	64	59	74	71	81	74	84	77	87	81	87	80	83	75	75	65	62	53
	L		85	78	56	56	71	65	78	69	79	72	81	73	77	69	72	65	66	58	55	45
	S		79	72	59	50	66	60	71	65	71	65	74	66	70	63	66	59	59	50	46	36
10-	N	1000	87	80	62	54	75	72	80	72	82	74	82	74	79	70	74	65	67	59	55	45
	L		82	77	58	53	73	70	75	72	76	71	76	71	71	66	66	61	60	54	46	40
	S		76	72	55	60	68	64	68	64	70	66	70	66	66	62	60	56	54	48	39	34

## Sound Pressure Correction values $L_{PA}$ for other distances

For other distances, the change in Sound Pressure measured with the enveloping surface method depends on the dimensions of the equipment.

The Sound Pressure Level  $L_{PA}$  can be calculated exactly using the GEA Küba Selection Software.

Ø	Number	Distance [in m]	1	2	3	4	5	7	10	15	20	30	50
500	1 to 2 motors	$\Delta L_{PA}$ [in dB(A)]	+16	+12	+9	+7	+5	+3	0	-3	-6	-9	-14
500	3 to 6 motors	$\Delta L_{PA}$ [in dB(A)]	+15	+11	+9	+7	+5	+3	0	-3	-6	-9	-13
650	1 to 2 motors	$\Delta L_{PA}$ [in dB(A)]	+16	+12	+9	+7	+5	+3	0	-3	-6	-9	-13
650	3 to 6 motors	$\Delta L_{PA}$ [in dB(A)]	+14	+11	+9	+7	+5	+3	0	-3	-6	-9	-13
800	1 to 2 motors	$\Delta L_{PA}$ [in dB(A)]	+15	+11	+9	+7	+5	+3	0	-3	-6	-9	-13
800	3 to 10 motors	$\Delta L_{PA}$ [in dB(A)]	+13	+10	+8	+6	+5	+3	0	-3	-5	-9	-13
910	1 to 2 motors	$\Delta L_{PA}$ [in dB(A)]	+15	+11	+9	+7	+5	+3	0	-3	-6	-9	-13
910	3 to 10 motors	$\Delta L_{PA}$ [in dB(A)]	+13	+10	+8	+6	+5	+3	0	-3	-5	-9	-13
1,000	1 to 2 motors	$\Delta L_{PA}$ [in dB(A)]	+14	+11	+8	+7	+5	+3	0	-3	-6	-9	-13
1,000	3 to 10 motors	$\Delta L_{PA}$ [in dB(A)]	+13	+10	+8	+6	+5	+3	0	-3	-5	-9	-13

The stated correction values  $\Delta L_{PA}$  are approximate values.

## Selection table 2-range (N+L)

GAV/H N ..-2x ..				GAV/H L ..-2x ..				GA. N+L								
Type	Nominal capacity Q <sub>GLY</sub>	Airflow		Sound pressure L <sub>PA</sub> =10 m		Type	Nominal capacity Q <sub>GLY</sub>	Airflow		Sound pressure L <sub>PA</sub> =10 m		Surface	Tube volume	Weight		
GA.	[kW]	[m³/h]		[dB(A)]		GA.	[kW]	[m³/h]		[dB(A)]		[m²]	[dm³]	[kg]		
	Δ	Y	Δ	Y	Δ	Y		Δ	Y	Δ	Y					
N09A-2x1A	105.0	84.3	40,290	29,930	62	55	L09A-2x1A	98.7	78.5	34,550	25,560	55	47	311	70.6	480
N09A-2x1B	122.3	99.6	44,330	33,810	62	55	L09A-2x1B	112.3	88.4	39,540	28,750	55	47	378	81.1	530
N09A-2x1C	136.7	111.5	47,650	36,400	62	55	L09A-2x1C	126.5	98.1	42,990	31,060	55	47	445	71.4	580
N09A-2x1D	149.9	122.3	50,260	38,930	62	55	L09A-2x1D	137.7	107.9	45,220	33,020	55	47	511	81.9	630
N09A-2x2A	210.1	168.6	80,580	59,860	66	59	L09A-2x2A	187.7	150.1	69,100	51,120	59	51	622	99.3	860
N09A-2x2B	243.7	199.3	88,660	67,620	66	59	L09A-2x2B	224.7	175.6	79,080	57,500	59	51	756	140.7	960
N09A-2x2C	273.5	223.3	95,290	72,800	66	59	L09A-2x2C	253.1	196.0	85,990	62,120	59	51	889	141.2	1,060
N09A-2x2D	300.1	244.4	100,520	77,860	66	59	L09A-2x2D	275.6	214.8	90,430	66,040	59	51	1.022	162.2	1,160
N09A-2x3A	296.7	239.0	120,860	89,800	68	61	L09A-2x3A	266.1	211.6	103,640	76,670	61	53	933	148.0	1,240
N09A-2x3B	349.8	286.6	133,000	101,440	68	61	L09A-2x3B	322.8	252.6	118,610	86,260	61	53	1.134	179.4	1,400
N09A-2x3C	395.8	323.7	142,940	109,190	68	61	L09A-2x3C	366.4	285.3	128,980	93,180	61	53	1.334	210.9	1,590
N09A-2x3D	435.7	357.2	150,780	116,780	67	60	L09A-2x3D	401.5	313.6	135,650	99,070	60	52	1.534	242.3	1,680
N09A-2x4A	420.5	337.3	161,150	119,730	69	62	L09A-2x4A	375.6	298.8	138,190	102,230	62	54	1.245	196.9	1,680
N09A-2x4B	487.4	398.7	177,330	135,250	68	61	L09A-2x4B	449.7	351.3	158,150	115,010	61	53	1.511	238.8	1,800
N09A-2x4C	547.2	447.0	190,580	145,590	68	61	L09A-2x4C	506.2	391.9	171,980	124,240	61	53	1.778	280.8	2,100
N09A-2x4D	600.6	488.7	201,040	155,710	68	61	L09A-2x4D	551.5	429.2	180,860	132,090	61	53	2.045	322.7	2,300
N09A-2x5A	540.9	435.3	201,440	149,660	69	62	L09A-2x5A	485.6	385.2	172,740	127,790	62	54	1.556	245.8	2,050
N09A-2x5B	625.6	512.3	221,660	169,060	69	62	L09A-2x5B	574.1	448.6	197,690	143,760	62	54	1.889	298.3	2,300
N09A-2x5C	701.9	566.4	238,230	181,990	69	62	L09A-2x5C	646.9	500.2	214,970	155,300	62	54	2.223	350.7	2,490
N09A-2x6A	664.3	531.7	241,730	179,590	70	63	L09A-2x6A	592.6	471.7	207,290	153,350	63	55	1.867	294.8	2,460
N09A-2x6B	762.0	620.8	265,990	202,870	70	63	L09A-2x6B	703.1	546.2	237,230	172,510	63	55	2.267	357.7	2,760
N09A-2x7A	784.9	630.5	282,020	209,520	71	64	L09A-2x7A	700.4	555.7	241,840	178,910	64	56	2.178	343.7	2,870
N10A-2x1B	128.7	104.6	47,820	36,050	58	50	L10A-2x1B	110.3	96.4	38,630	32,420	52	48	378	81.1	530
N10A-2x1C	144.7	121.1	51,390	40,270	58	50	L10A-2x1C	123.2	107.1	41,510	34,620	52	48	445	71.4	580
N10A-2x1D	159.0	135.5	54,700	44,310	58	50	L10A-2x1D	135.6	118.6	44,320	37,460	52	48	511	81.9	630
N10A-2x2B	257.5	209.4	95,630	72,100	61	53	L10A-2x2B	220.8	192.9	77,260	64,840	55	51	756	140.7	960
N10A-2x2C	289.5	240.7	102,780	80,540	61	53	L10A-2x2C	246.4	214.3	83,020	69,240	55	51	889	141.2	1,060
N10A-2x2D	318.1	271.2	109,400	88,620	61	53	L10A-2x2D	271.2	237.1	88,640	74,920	55	51	1.022	162.2	1,160
N10A-2x3B	369.6	301.0	143,450	108,150	63	55	L10A-2x3B	317.2	277.4	115,890	97,260	57	53	1.134	179.4	1,510
N10A-2x3C	418.6	350.5	154,170	120,810	63	55	L10A-2x3C	356.8	311.1	124,530	103,860	57	53	1.334	210.9	1,550
N10A-2x3D	464.8	395.3	164,100	132,930	62	54	L10A-2x3D	395.3	346.6	132,960	112,380	56	52	1.534	242.3	1,680
N10A-2x4B	515.1	418.9	191,260	144,200	63	55	L10A-2x4B	441.8	385.9	154,520	129,680	57	53	1.511	238.8	1,850
N10A-2x4C	579.2	481.5	205,560	161,080	63	55	L10A-2x4C	492.8	428.8	166,040	138,480	57	53	1.778	280.8	2,060
N10A-2x4D	636.3	542.5	218,800	177,240	63	55	L10A-2x4D	542.6	474.0	177,280	149,840	57	53	2.045	322.7	2,300
N10A-2x5B	661.7	535.3	239,080	180,250	64	56	L10A-2x5B	564.1	495.0	193,150	162,100	58	54	1.889	298.3	2,310
N10A-2x5C	737.7	613.9	256,950	201,350	64	56	L10A-2x5C	629.0	544.5	207,550	173,100	58	54	2.223	350.7	2,550
N10A-2x6B	805.8	653.3	286,890	216,300	65	57	L10A-2x6B	690.3	600.4	231,780	194,520	59	55	2.267	357.7	2,772

Nominal capacity Q<sub>GLY</sub>: 34% by vol. monoethylene glycol (Antifrogen N); t (in/out) = 45/40°C, t<sub>L1</sub> = 32°C

Sound pressure: Enveloping surface method, in acc. with DIN EN ISO 13487

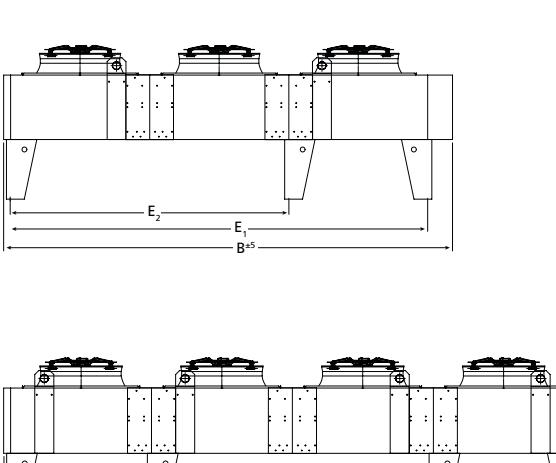
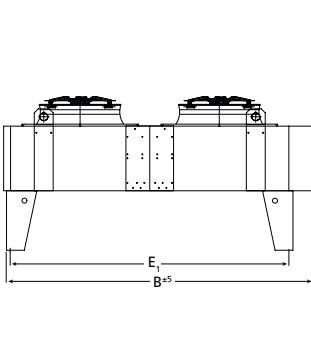
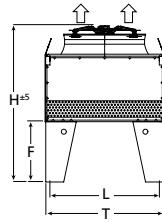
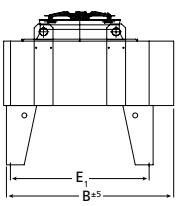
Δ: Valid at high rpm

Y: Valid at low rpm

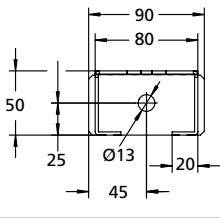
Container type (CGAV/H) and other designs available  
in our GEA Küba Select selection program!

## Dimensions 2-range (GAV)

Type	GAV-..2x... Dimensions [mm]								
GA.	H	B	E <sub>1</sub>	E <sub>2</sub>	E <sub>3</sub>	E <sub>4</sub>	F	T	L
<b>05A-2x1F</b>	1,000	1,410	960	-	-	-	500	1,702	1,652
<b>05A-2x1G</b>	1,000	1,410	960	-	-	-	500	1,702	1,652
<b>05A-2x2F</b>	1,000	2,512	2,062	-	-	-	500	1,702	1,652
<b>05A-2x2G</b>	1,000	2,512	2,062	-	-	-	500	1,702	1,652
<b>05A-2x3F</b>	1,000	3,613	3,163	1,102	-	-	500	1,702	1,652
<b>05A-2x3G</b>	1,000	3,613	3,163	1,102	-	-	500	1,702	1,652
<b>06A-2x1F</b>	1,030	1,410	960	-	-	-	500	2,210	2,160
<b>06A-2x1H</b>	1,030	1,760	1,310	-	-	-	500	2,210	2,160
<b>06A-2x1G</b>	1,030	1,410	960	-	-	-	500	2,210	2,160
<b>06A-2x1I</b>	1,030	1,760	1,310	-	-	-	500	2,210	2,160
<b>06A-2x2F</b>	1,030	2,512	2,062	-	-	-	500	2,210	2,160
<b>06A-2x2H</b>	1,030	3,212	2,762	-	-	-	500	2,210	2,160
<b>06A-2x2G</b>	1,030	2,512	2,062	-	-	-	500	2,210	2,160
<b>06A-2x2I</b>	1,030	3,212	2,762	-	-	-	500	2,210	2,160
<b>06A-2x3F</b>	1,030	3,613	3,163	1,102	-	-	500	2,210	2,160
<b>06A-2x3H</b>	1,030	4,663	4,213	1,452	-	-	500	2,210	2,160
<b>06A-2x3G</b>	1,030	3,613	3,163	1,102	-	-	500	2,210	2,160
<b>06A-2x3I</b>	1,030	4,663	4,213	1,452	-	-	500	2,210	2,160
<b>08A-2x1A</b>	1,805	1,730	1,403	-	-	-	850	2,365	2,273
<b>08A-2x1B</b>	1,805	2,030	1,703	-	-	-	850	2,365	2,273
<b>08A-2x1C</b>	1,805	2,330	2,003	-	-	-	850	2,365	2,273
<b>08A-2x2A</b>	1,805	3,130	2,805	-	-	-	850	2,365	2,273
<b>08A-2x2B</b>	1,805	3,730	3,405	-	-	-	850	2,365	2,273
<b>08A-2x2C</b>	1,805	4,335	4,005	-	-	-	850	2,365	2,273
<b>08A-2x3A</b>	1,805	4,535	4,206	2,803	-	-	850	2,365	2,273
<b>08A-2x3B</b>	1,805	5,435	5,106	3,403	-	-	850	2,365	2,273
<b>08A-2x3C</b>	1,805	6,335	6,006	4,002	-	-	850	2,365	2,273
<b>08A-2x4A</b>	1,955	5,935	5,608	1,402	4,205	-	1,000	2,365	2,273
<b>08A-2x4B</b>	1,955	7,135	6,808	1,702	5,105	-	1,000	2,365	2,273
<b>08A-2x4C</b>	1,955	8,335	8,008	2,002	6,005	-	1,000	2,365	2,273
<b>08A-2x5A</b>	1,955	7,335	7,009	2,805	4,205	-	1,000	2,365	2,273
<b>08A-2x5B</b>	1,955	8,835	8,509	3,403	5,105	-	1,000	2,365	2,273
<b>08A-2x5C</b>	1,955	10,335	10,004	4,003	6,005	-	1,000	2,365	2,273
<b>08A-2x6A</b>	1,955	8,738	8,411	2,803	5,606	-	1,000	2,365	2,273
<b>08A-2x6B</b>	1,955	10,536	10,209	3,403	6,805	-	1,000	2,365	2,273
<b>08A-2x7A</b>	1,955	10,139	9,812	2,803	4,205	7,008	1,000	2,365	2,273
<b>09A-2x1A</b>	1,820	1,730	1,403	-	-	-	850	2,365	2,273
<b>09A-2x1B</b>	1,820	2,030	1,703	-	-	-	850	2,365	2,273
<b>09A-2x1C</b>	1,820	2,330	2,003	-	-	-	850	2,365	2,273
<b>09A-2x1D</b>	1,820	2,630	2,303	-	-	-	850	2,365	2,273
<b>09A-2x2A</b>	1,820	3,130	2,805	-	-	-	850	2,365	2,273
<b>09A-2x2B</b>	1,820	3,730	3,405	-	-	-	850	2,365	2,273
<b>09A-2x2C</b>	1,820	4,335	4,005	-	-	-	850	2,365	2,273
<b>09A-2x2D</b>	1,820	4,930	4,605	-	-	-	850	2,365	2,273
<b>09A-2x3A</b>	1,820	4,535	4,206	2,803	-	-	850	2,365	2,273
<b>09A-2x3B</b>	1,820	5,435	5,106	3,403	-	-	850	2,365	2,273
<b>09A-2x3C</b>	1,820	6,335	6,006	4,002	-	-	850	2,365	2,273
<b>09A-2x3D</b>	1,820	7,235	6,906	4,603	-	-	850	2,365	2,273
<b>09A-2x4A</b>	1,970	5,935	5,608	1,402	4,205	-	1,000	2,365	2,273
<b>09A-2x4B</b>	1,970	7,135	6,808	1,702	5,105	-	1,000	2,365	2,273
<b>09A-2x4C</b>	1,970	8,335	8,008	2,002	6,005	-	1,000	2,365	2,273
<b>09A-2x4D</b>	1,970	9,535	9,208	2,302	6,905	-	1,000	2,365	2,273
<b>09A-2x5A</b>	1,970	7,335	7,009	2,805	4,205	-	1,000	2,365	2,273
<b>09A-2x5B</b>	1,970	8,835	8,509	3,403	5,105	-	1,000	2,365	2,273
<b>09A-2x5C</b>	1,970	10,335	10,004	4,003	6,005	-	1,000	2,365	2,273
<b>09A-2x6A</b>	1,970	8,738	8,411	2,803	5,606	-	1,000	2,365	2,273
<b>09A-2x6B</b>	1,970	10,536	10,209	3,403	6,805	-	1,000	2,365	2,273
<b>09A-2x7A</b>	1,970	10,139	9,812	2,803	4,205	7,008	1,000	2,365	2,273
<b>10A-2x1B</b>	1,830	2,030	1,703	-	-	-	850	2,365	2,273
<b>10A-2x1C</b>	1,830	2,330	2,003	-	-	-	850	2,365	2,273
<b>10A-2x1D</b>	1,830	2,630	2,303	-	-	-	850	2,365	2,273
<b>10A-2x2B</b>	1,830	3,730	3,405	-	-	-	850	2,365	2,273
<b>10A-2x2C</b>	1,830	4,330	4,005	-	-	-	850	2,365	2,273
<b>10A-2x2D</b>	1,830	4,930	4,605	-	-	-	850	2,365	2,273
<b>10A-2x3B</b>	1,830	5,435	5,106	3,403	-	-	850	2,365	2,273
<b>10A-2x3C</b>	1,830	6,335	6,006	4,003	-	-	850	2,365	2,273
<b>10A-2x3D</b>	1,830	7,235	6,906	4,603	-	-	850	2,365	2,273
<b>10A-2x4B</b>	1,980	7,135	6,805	1,702	5,105	-	1,000	2,365	2,273
<b>10A-2x4C</b>	1,980	8,335	8,008	2,002	6,005	-	1,000	2,365	2,273
<b>10A-2x4D</b>	1,980	9,535	9,109	2,302	6,905	-	1,000	2,365	2,273
<b>10A-2x5B</b>	1,980	8,835	8,509	3,402	5,105	-	1,000	2,365	2,273
<b>10A-2x5C</b>	1,980	10,335	10,004	4,003	6,005	-	1,000	2,365	2,273
<b>10A-2x6B</b>	1,980	10,536	10,209	3,403	6,805	-	1,000	2,365	2,273



Feet GAV 05/06



Feet GAV 08/09/10

