



**IEH/SA-PRO - INDUSTRIAL EVAPORATOR**  
**STAINLESS STEEL TUBE PROFESSIONAL LINE**  
AMONIA / NH<sub>3</sub>

- Increment of air throw property trough CABERO ESS
- Improved hygiene by powder coated casing
- Removable inspection sheets
- Drip tray can be folded down



# QUALITY



## CABERO STANDS FOR COMPETENCE, INNOVATION UND PROSPERITY

CABERO is a synonym for competence, innovation and prosperity – and 25 years enthusiasm for the requirements of the market. Since 1980 CABERO has been developing and using most modern and efficient manufacturing technology and therefore setting benchmark. Specialisation and continuous investments in Research and Development (R+D), in optimised manufacturing methods and technologies guarantee the customer a constant and steadily quality as well as a high „added value“.



## CABERO STANDS FOR QUALITY AND ENVIRONMENTAL AWARENESS

Through combination of proven and innovative design methods our „Research and Development“ centers have main focus on functionality and reliability. This not only applies to single unit but throughout the whole range with main emphasis to thermodynamic rules.

As a result we provide convincing equipment concept for installation, utilization, maintenance and safety in operation. This reflects in long term sustainability of the investment and excellent economy prospect.



## LONG-TERM DURABILITY

CABERO equipment is supplied with powder coated surface protection on all covers. Environmentally friendly and food safe is applied to all cover parts prior to assembly. Importance of high safety protection is achieved through thoughtful design selecting prime materials and components, strict internal quality audits and random tests. This ensures and guarantees the customer long equipment durability and constant safety of goods and people.



## COMMON HANDLING AND HYGIENE

Long lasting corrosion protection is essential for hygiene in cold rooms. Smooth and powder coated surfaces of CABERO equipment ensures easy compliance with current standards and codes.

Modern design with removable front and side covers, folding down drip tray and easy access to all parts of equipment reduces service costs and maintenance hours.



# OPERATION

## CABERO PROVIDES YOU OPTIMAL SOLUTIONS

A consequent market observation and analysis define our innovative product policy, driven by continuous further developments for the purpose of our customers. Thereby we focus on the maximum benefit for the environment and for our customers – true to our motto „we share your goals“.

Due to the two product lines, PROFESSIONAL LINE and ECONOMY LINE, CABERO is one of the few manufacturers, who offers for different operational areas two comprehensive, coordinated and qualitative high-grade air cooler product lines.



## QUALITY, WHICH YOU REQUIRE

The operational areas are super markets, petrol stations, butcher`s shops, slaughter houses, groceries reloading points, cold storages and much more. The system provides here optimal protection of the goods - guaranteed through high safety of temperature. Sensitive reefer cargo like vegetables, meat, cheese or fish will be optimal matured and/or refined due to the ideal humidity level in the cold rooms. CABERO-air cooler are important components and guarantors for an efficient operation.



## INSTALLATION AND OPERATION SECURITY

CABERO-air cooler can be fast and common mounted and maintained. In the stage of development we focus in particular on a easy handling of installation for the assembly operator. The important modules are easily accessible and guarantee our customers a safe operation without harmful foreign oils or foreign substances in the refrigeration plants.



## CABERO STANDS FOR FLEXIBILITY, SERVICE AND ABILITY TO SUPPLY

CABERO defines the customer orientation not only in technical and commercial service and support, but rather in a flexible and specific assortment of products and with it linked availability of accessories and spare parts. This is supplemented through a sophisticated and adherence to just-in-time logistics of our own fleet management.



## EXECUTION IEH / SA-PRO

### COIL

tube material:  $\varnothing$  5/8" Stainless Steel (304 and 316)  
fin material: aluminium, epoxy coated aluminium, AlMg3  
fin spacing: 4, 7, 10, 12 and dual 16:8 mm  
coil pattern: 55x55 mm inline

### CASING

Galvanised sheet, powder coated RAL 9010

### DRIP TRAY

Aluminium, powder coated RAL 9010  
Tray can be folded down as well as detached from unit for inspection and cleaning

### FANS

Low noise, maintenance free fan-motors, with protection class F and IP 54, compliant to DIN 40050. Standard motors are suitable for temperatures from -30 °C to +45 °C, however motors with other temperature requirements are available on request. Standard motors are 2 speed and capacities and airflow shown in tables are at high speed (delta wired). Standard air discharge is horizontal, draw through, yet other arrangements are possible.

The integral thermal contact (termistors) must be used as motor protection. We reserve the right to use different fan manufacturers and technical motor data may vary. Power consumption may also vary at different operating temperatures and due to external pressure drop. For corresponding electrical data please refer to fan / motor labels on units.

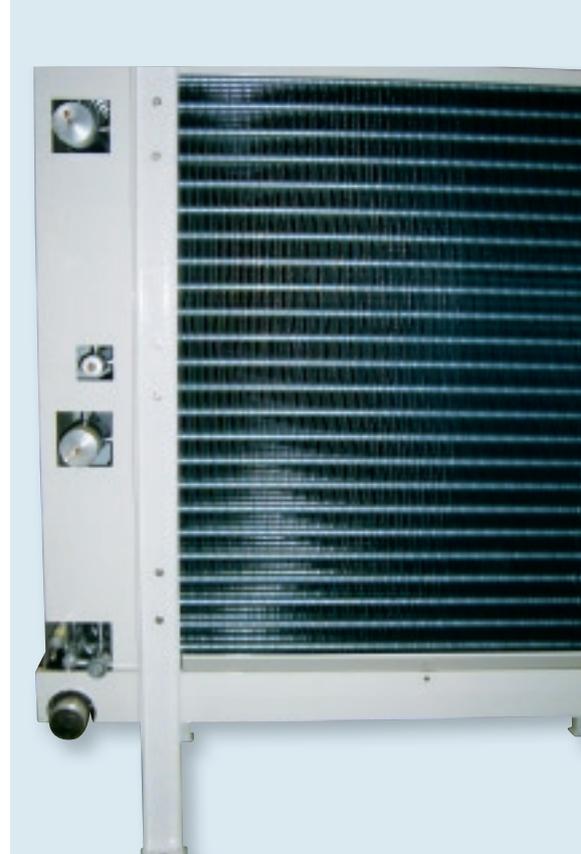
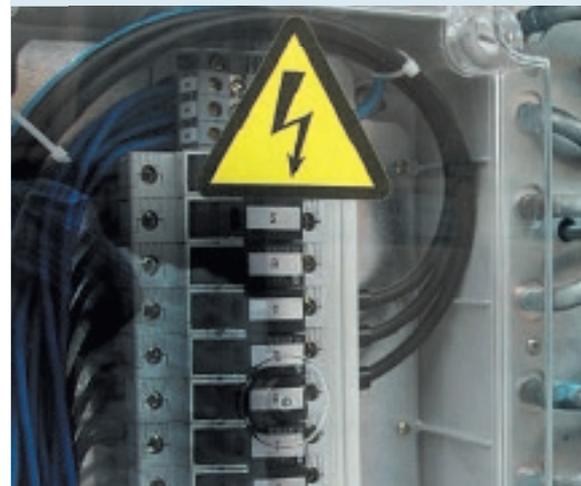
### SOUND PRESSURE LEVEL

Noise pressure levels shown in tables are calculated in accordance with EN13487.

### DEFROSTING

(optional against additional price)

- defrosting by water spray IEH / SA-PRO ... W
- electrical defrosting acc. VDE 0720 in coil and drip tray IEH / SA-PRO ... E
- hot gas defrosting in coil and drip tray IEH / SA-PRO....H





## CAPACITY DATA

Catalogue capacities are based on difference between air inlet temperature and evaporating temperature in compliance with ENV328. Capacities shown at operating conditions 0/-8 °C are based on 80 % RH at air inlet. Capacities shown at operating conditions -18/-25 °C are based on 95 % RH at air inlet.

For other conditions please use correction factors or contact our office or representative.

## PACKING

Units are supplied packed in installation position. Drip tray is packed separately and delivered on top or side of the unit.

## REMARKS

Units are supplied with support brackets suitable for ceiling mounting. For units operating at low temperatures fan peripheral heaters are recommended. For units operating below -40 °C please contact our office. Special materials and fans may be required for such operating conditions. All electrical components are in accordance to VDE conditions. Alternative tube and fin thickness and materials are available on request.

## ACCESSORIES AND SPECIAL EXECUTIONS

- insulated tray
- wall support
- feet for floor mounting
- increased air throw (streamer equipped unit)
- air throw unit
- casing made of stainless steel
- non return valve
- Hot gas interconnecting tubing
- Check valve for hot gas
- 60 Hz fans available on request
- coated fins
- fan peripheral heaters
- connection for air distribution sock
- reinforced fans with external static pressure
- limited 230 V fans depending diameter
- CABERO Efficiency Stream System (ESS)

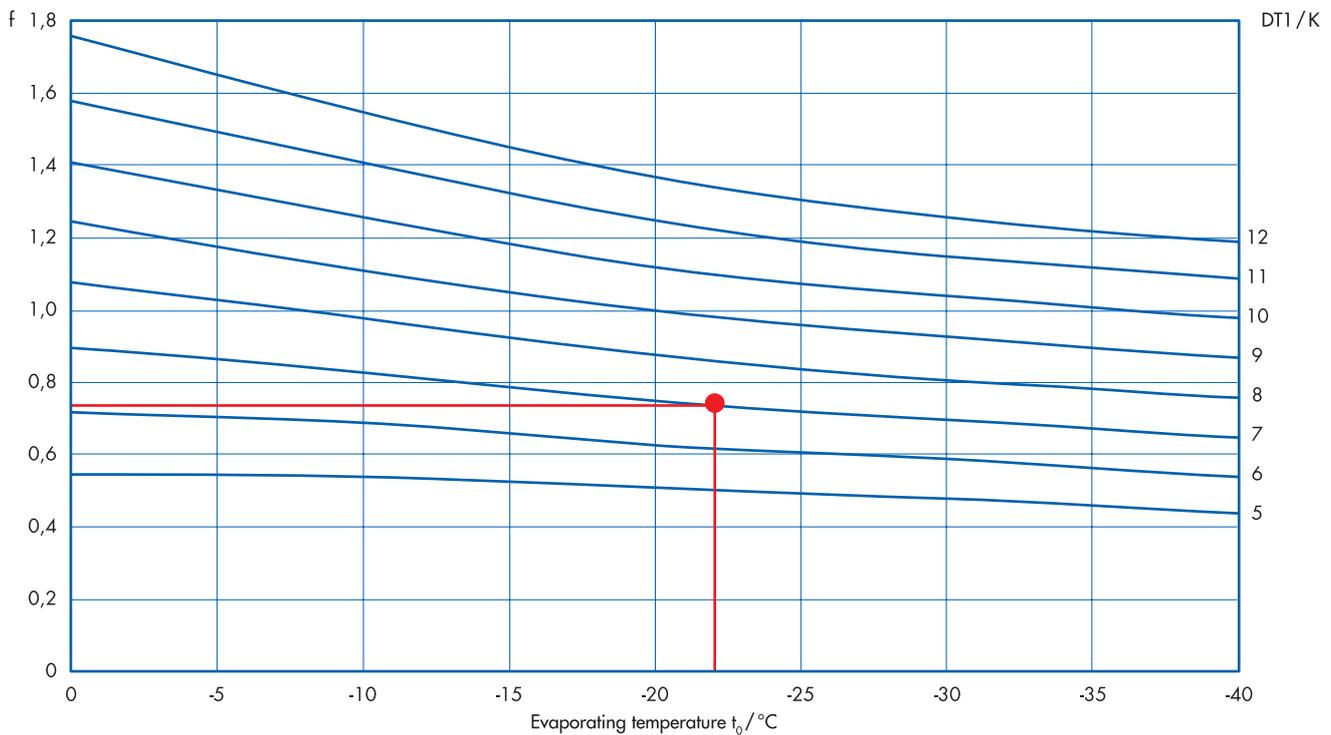
fin spacing	Model IEH/SA ...	nom. capacity NH <sub>3</sub>						connections			electrical defrosting			fan(s) 50 Hz			dimensions in mm waterspray defrost * dimension + 100						net weight kg					
		fin distance coil code	number of fans	fan diameter generation key	kW DT1 = 8 K; RH 85 % T <sub>evap.</sub> = -8 °C	kW DT1 = 7 K; RH 95 % T <sub>evap.</sub> = -25 °C	dm <sup>3</sup>	m <sup>2</sup>	m <sup>3</sup> /h	m	noise pressure level dB(A) 1m	inlet mm	outlet mm	hotgas in/out	Coil kW	Drip tray kW	Total kW	capacity W	current A	current type V	drain NW"	L		B	*H	E	F	A
4 mm	4 C 1/50 .1	13.4	10.2	12.0	80.4	7510	19	69	21.3	33.7	21.3	4.4	2.2	6.6	730	1.35	400/3/50	1 1/4	1700	816	740	1190	620	500	184.0			
	4 D 1/50 .1	15.7	11.7	15.0	100.5	7340	19	69	21.3	33.7	21.3	4.4	2.2	6.6	730	1.35	400/3/50	1 1/4	1700	816	740	1190	620	500	199.0			
	4 E 1/50 .1	17.2	12.5	18.0	120.6	7090	18	69	21.3	33.7	21.3	5.5	2.2	7.7	730	1.35	400/3/50	1 1/4	1700	816	740	1190	620	500	215.0			
	4 F 1/50 .1	18.4	13.8	21.0	140.7	6980	18	69	21.3	33.7	21.3	6.6	2.2	8.8	730	1.35	400/3/50	1 1/4	1700	926	740	1190	730	500	230.0			
	4 C 1/71 .1	21.4	16.5	21.0	136.3	12020	29	70	21.3	48.3	21.3	7.2	2.4	9.6	980	1.75	400/3/50	1 1/4	1850	948	1070	1340	700	800	256.9			
	4 D 1/71 .1	24.7	19.1	26.0	170.4	11890	29	70	21.3	48.3	21.3	7.2	2.4	9.6	980	1.75	400/3/50	1 1/4	1850	948	1070	1340	700	800	238.0			
	4 E 1/71 .1	27.1	20.9	31.0	204.5	11580	28	70	26.9	60.3	21.3	9.6	2.4	12.0	980	1.75	400/3/50	1 1/4	1850	948	1070	1340	700	800	310.0			
	4 C 1/80 .1	38.1	27.2	34.0	225.8	20820	36	77	26.9	60.3	21.3	12.0	3.0	15.0	2000	4.00	400/3/50	1 1/4	2165	1030	1400	1655	740	800	339.0			
	4 D 1/80 .1	43.5	32.0	43.0	282.3	19960	36	77	26.9	60.3	21.3	12.0	3.0	15.0	2000	4.00	400/3/50	1 1/4	2165	1030	1400	1655	740	800	415.0			
	4 E 1/80 .1	45.9	33.9	51.0	338.7	18260	35	77	26.9	60.3	21.3	15.0	3.0	18.0	2000	4.00	400/3/50	1 1/4	2165	1030	1400	1655	740	800	475.0			
7 mm	7 C 1/50 .1	9.2	7.2	12.0	47.2	7580	19	69	21.3	33.7	21.3	4.4	2.2	6.6	730	1.35	400/3/50	1 1/4	1700	816	740	1190	620	500	180.0			
	7 D 1/50 .1	11.3	8.6	15.0	59.0	7410	19	69	21.3	33.7	21.3	4.4	2.2	6.6	730	1.35	400/3/50	1 1/4	1700	816	740	1190	620	500	191.0			
	7 E 1/50 .1	12.8	9.6	18.0	70.8	7130	19	69	21.3	33.7	21.3	5.5	2.2	7.7	730	1.35	400/3/50	1 1/4	1700	816	740	1190	620	500	202.5			
	7 G 1/50 .1	14.9	11.5	24.0	94.3	7050	18	69	21.3	33.7	21.3	6.6	2.2	8.8	730	1.35	400/3/50	1 1/4	1700	926	740	1190	730	500	182.9			
	7 D 1/71 .1	18.9	14.2	26.0	100.0	12060	29	70	21.3	48.3	21.3	7.2	2.4	9.6	980	1.75	400/3/50	1 1/4	1850	948	1070	1340	700	800	248.3			
	7 E 1/71 .1	21.7	16.0	31.0	120.0	11950	29	70	21.3	48.3	21.3	9.6	2.4	12.0	980	1.75	400/3/50	1 1/4	1850	948	1070	1340	700	800	265.0			
	7 G 1/71 .1	26.0	19.3	42.0	160.0	11660	28	70	21.3	48.3	21.3	10.8	2.4	13.2	980	1.75	400/3/50	1 1/4	1850	1058	1070	1340	810	800	302.4			
	7 D 1/80 .1	31.9	24.1	43.0	165.6	20670	36	77	26.9	60.3	21.3	12.0	3.0	15.0	2000	4.00	400/3/50	1 1/4	2165	1030	1400	1655	740	800	372.0			
	7 E 1/80 .1	35.9	27.1	51.0	198.8	19960	36	77	26.9	60.3	21.3	15.0	3.0	18.0	2000	4.00	400/3/50	1 1/4	2165	1030	1400	1655	740	800	403.0			
	7 G 1/80 .1	42.6	32.3	68.0	265.0	19090	35	77	26.9	60.3	21.3	18.0	3.0	21.0	2000	4.00	400/3/50	1 1/4	2165	1140	1400	1655	850	800	463.0			
7 I 1/80 .1	47.2	35.9	85.0	331.2	18330	35	77	26.9	60.3	21.3	24.0	3.0	27.0	2000	4.00	400/3/50	1 1/4	2165	1250	1400	1655	960	800	523.0				
10 mm	10 D 1/50 .1	8.9	6.9	15.0	42.4	7480	19	69	21.3	33.7	21.3	4.4	2.2	6.6	730	1.35	400/3/50	1 1/4	1700	816	740	1190	620	500	183.0			
	10 E 1/50 .1	9.9	7.9	18.0	50.9	7320	19	69	21.3	33.7	21.3	5.5	2.2	7.7	730	1.35	400/3/50	1 1/4	1700	816	740	1190	620	500	192.3			
	10 G 1/50 .1	12.2	9.6	24.0	67.8	7250	18	69	21.3	33.7	21.3	6.6	2.2	8.8	730	1.35	400/3/50	1 1/4	1700	926	740	1190	730	500	211.2			
	10 I 1/50 .1	14.1	11.0	30.0	84.7	7020	18	69	21.3	33.7	21.3	8.8	2.2	11.0	730	1.35	400/3/50	1 1/4	1700	1036	740	1190	840	500	230.0			
	10 D 1/71 .1	14.9	11.4	26.0	71.8	12140	29	70	21.3	33.7	21.3	7.2	2.4	9.6	980	1.75	400/3/50	1 1/4	1850	948	1070	1340	700	800	230.7			
	10 E 1/71 .1	17.7	13.2	31.0	86.2	12080	29	70	21.3	33.7	21.3	9.6	2.4	12.0	980	1.75	400/3/50	1 1/4	1850	948	1070	1340	700	800	246.4			
	10 G 1/71 .1	21.7	16.4	42.0	115.0	11860	28	70	21.3	48.3	21.3	10.8	2.4	13.2	980	1.75	400/3/50	1 1/4	1850	1058	1070	1340	810	800	279.0			
	10 I 1/71 .1	25.2	19.0	51.0	143.7	11690	28	70	21.3	48.3	21.3	14.4	2.4	16.8	980	1.75	400/3/50	1 1/4	1850	1168	1070	1340	920	800	331.4			
	10 E 1/80 .1	29.3	22.5	51.0	142.7	20690	36	77	26.9	60.3	21.3	15.0	3.0	18.0	2000	4.00	400/3/50	1 1/4	2165	1030	1400	1655	740	800	374.0			
	10 G 1/80 .1	35.1	26.9	68.0	190.4	20960	35	77	26.9	60.3	21.3	18.0	3.0	21.0	2000	4.00	400/3/50	1 1/4	2165	1140	1400	1655	850	800	424.4			
10 I 1/80 .1	40.9	31.4	85.0	238.0	19130	35	77	26.9	60.3	21.3	24.0	3.0	27.0	2000	4.00	400/3/50	1 1/4	2165	1250	1400	1655	960	800	475.1				
12 mm	12 E 1/50 .1	9.3	7.2	18.0	43.1	7460	19	69	21.3	33.7	21.3	5.5	2.2	7.7	730	1.35	400/3/50	1 1/4	1700	816	740	1190	620	500	188.3			
	12 G 1/50 .1	11.1	8.7	24.0	57.4	7380	18	69	21.3	33.7	21.3	6.6	2.2	8.8	730	1.35	400/3/50	1 1/4	1700	926	740	1190	730	500	205.9			
	12 I 1/50 .1	13.0	10.1	30.0	71.8	7180	18	69	21.3	33.7	21.3	8.8	2.2	11.0	730	1.35	400/3/50	1 1/4	1700	1036	740	1190	840	500	223.4			
	12 E 1/71 .1	15.8	11.9	31.0	73.1	12130	29	70	21.3	33.7	21.3	9.6	2.4	12.0	980	1.75	400/3/50	1 1/4	1850	948	1070	1340	700	800	260.3			
	12 G 1/71 .1	19.6	14.9	42.0	97.4	12010	28	70	21.3	48.3	21.3	10.8	2.4	13.2	980	1.75	400/3/50	1 1/4	1850	1058	1070	1340	810	800	289.0			
	12 I 1/71 .1	23.0	17.5	51.0	121.8	11840	28	70	21.3	48.3	21.3	14.4	2.4	16.8	980	1.75	400/3/50	1 1/4	1850	1168	1070	1340	920	800	320.0			
	12 E 1/80 .1	26.3	20.3	51.0	121.0	21230	36	77	21.3	48.3	21.3	15.0	3.0	18.0	2000	4.00	400/3/50	1 1/4	2165	1030	1400	1655	740	800	366.6			
	12 G 1/80 .1	32.6	25.1	68.0	161.3	20460	35	77	26.9	60.3	21.3	18.0	3.0	21.0	2000	4.00	400/3/50	1 1/4	2165	1140	1400	1655	850	800	415.0			
	12 I 1/80 .1	37.0	28.5	85.0	201.6	19640	35	77	26.9	60.3	21.3	24.0	3.0	27.0	2000	4.00	400/3/50	1 1/4	2165	1250	1400	1655	960	800	463.0			
16 mm / 8 mm double fin spacing	16-8 E 1/50 .1	10.8	8.2	18.0	52.8	7310	19	69	21.3	33.7	21.3	5.5	2.2	7.7	730	1.35	400/3/50	1 1/4	1700	816	740	1190	620	500	192.5			
	16-8 G 1/50 .1	13.2	10.3	24.0	73.6	7210	18	69	21.3	33.7	21.3	6.6	2.2	8.8	730	1.35	400/3/50	1 1/4	1700	926	740	1190	730	500	213.0			
	16-8 I 1/50 .1	15.4	11.9	30.0	94.4	7040	18	69	21.3	33.7	21.3	8.8	2.2	11.0	730	1.35	400/3/50	1 1/4	1700	1036	740	1190	840	500	234.0			
	16-8 E 1/71 .1	17.9	13.5	31.0	89.5	11980	29	70	21.3	33.7	21.3	9.6	2.4	12.0	980	1.75	400/3/50	1 1/4	1850	948	1070	1340	700	800	263.1			
	16-8 G 1/71 .1	22.6	17.0	42.0	124.8	11630	28	70	21.3	48.3	21.3	10.8	2.4	13.2	980	1.75	400/3/50	1 1/4	1850	1058	1070	1340	810	800	294.5			
	16-8 I 1/71 .1	26.3	19.8	51.0	160.1	11410	28	70	21.3	48.3	21.3	14.4	2.4	16.8	980	1.75	400/3/50	1 1/4	1850	1168	1070	1340	920	800	325.9			
	16-8 E 1/80 .1	30.0	23.0	51.0	148.0	20530	36	77	26.9	60.3	21.3	15.0	3.0	18.0	2000	4.00	400/3/50	1 1/4	2165	1030	1400	1655	740	800	380.0			
	16-8 G 1/80 .1	36.9	28.2	68.0	206.8	19180	35	77	26.9	60.3	21.3	18.0	3.0	21.0	2000	4.00	400/3/50	1 1/4	2165	1140	1400	1655	850	800	438.3			
16-8 I 1/80 .1	43.2	33.0	85.0	265.1	19010	35	77	26.9	60.3	21.3	24.0	3.0	27.0	2000	4.00	400/3/50	1 1/4	2165	1250	1400								

fin spacing	Model IEH/SA ...	nom. capacity NH <sub>3</sub>	connections										electrical defrosting			fan(s) 50 Hz				dimensions in mm waterspray defrost * dimension + 100						net weight kg				
			fin distance coil code	number of fans	fan diameter	generation key	kW DT1 = 8 K, RH 85 % T <sub>evap.</sub> = -8 °C	kW DT1 = 7 K, RH 95 % T <sub>evap.</sub> = -25 °C	tube volume dm <sup>3</sup>	exchange surface m <sup>2</sup>	airflow m <sup>3</sup> /h	Air throw m	noise pressure level dB(A) 1m	inlet mm	outlet mm	hoegas in / out	Coil kW	Drip tray kW	Total kW	capacity W	current A	current type V	drain NW"	L	B		*H	E	F	A
4 mm	4 C 2/50 .1	26.8	20.4	24.0	160.8	15020	20	72	21.3	48.3	26.9	8.0	4.0	12.0	1460	2.70	400/3/50	1 1/4	2850	816	740	2340	620	500	347.9					
	4 D 2/50 .1	30.9	23.6	30.0	210.0	14680	20	72	26.9	60.3	26.9	8.0	4.0	12.0	1460	2.70	400/3/50	1 1/4	2850	816	740	2340	620	500	377.3					
	4 E 2/50 .1	34.4	25.0	36.0	241.2	14180	19	72	26.9	60.3	26.9	10.0	4.0	14.0	1460	2.70	400/3/50	1 1/4	2850	816	740	2340	620	500	406.0					
	4 F 2/50 .1	36.2	27.7	42.0	281.4	13960	19	72	26.9	60.3	26.9	12.0	4.0	16.0	1460	2.70	400/3/50	1 1/4	2850	926	740	2340	730	500	436.0					
	4 C 2/71 .1	44.7	33.7	42.0	272.6	24040	30	73	26.9	60.3	26.9	13.8	4.6	18.4	1960	3.50	400/3/50	1 1/4	3150	948	1070	2640	700	800	472.4					
	4 D 2/71 .1	50.4	38.7	52.0	340.8	23780	30	73	26.9	60.3	26.9	13.8	4.6	18.4	1960	3.50	400/3/50	1 1/4	3150	948	1070	2640	700	800	521.9					
	4 E 2/71 .1	56.6	42.8	62.0	409.0	23160	29	73	26.9	60.3	26.9	18.4	4.6	23.0	1960	3.50	400/3/50	1 1/4	3150	948	1070	2640	700	800	652.0					
	4 C 2/80 .1	76.2	54.4	68.0	451.6	41640	37	80	26.9	60.3	26.9	23.2	5.8	29.0	4000	8.00	400/3/50	1 1/4	3900	1030	1400	3270	740	800	710.8					
	4 D 2/80 .1	87.0	64.0	86.0	564.6	39920	36	80	26.9	60.3	26.9	23.2	5.8	29.0	4000	8.00	400/3/50	1 1/4	3900	1030	1400	3270	740	800	792.2					
4 E 2/80 .1	91.8	67.8	102.0	677.4	36520	36	80	26.9	60.3	26.9	29.0	5.8	34.8	4000	8.00	400/3/50	1 1/4	3900	1030	1400	3270	740	800	874.0						
7 mm	7 C 2/50 .1	18.4	14.4	24.0	94.4	15160	20	72	21.3	48.3	26.9	8.0	4.0	12.0	1460	2.70	400/3/50	1 1/4	2850	816	740	2340	620	500	313.9					
	7 D 2/50 .1	21.9	17.0	30.0	118.0	14820	20	72	21.3	48.3	26.9	8.0	4.0	12.0	1460	2.70	400/3/50	1 1/4	2850	816	740	2340	620	500	335.0					
	7 E 2/50 .1	25.6	19.2	36.0	141.6	14260	20	72	21.3	48.3	26.9	10.0	4.0	14.0	1460	2.70	400/3/50	1 1/4	2850	816	740	2340	620	500	355.5					
	7 G 2/50 .1	29.8	23.0	48.0	188.6	14100	19	72	26.9	60.3	33.7	12.0	4.0	16.0	1460	2.70	400/3/50	1 1/4	2850	926	740	2340	730	500	397.0					
	7 D 2/71 .1	38.1	28.2	52.0	200.0	24120	30	73	26.9	60.3	26.9	13.8	4.6	18.4	1960	3.50	400/3/50	1 1/4	3150	948	1070	2640	700	800	548.5					
	7 E 2/71 .1	43.4	32.0	62.0	240.0	23900	30	73	26.9	60.3	26.9	18.4	4.6	23.0	1960	3.50	400/3/50	1 1/4	3150	948	1070	2640	700	800	583.5					
	7 G 2/71 .1	52.0	38.6	84.0	320.0	23320	29	73	26.9	60.3	33.7	20.7	4.6	25.3	1960	3.50	400/3/50	1 1/4	3150	1058	1070	2640	810	800	654.0					
	7 D 2/80 .1	63.8	48.2	86.0	331.2	41340	37	80	26.9	60.3	26.9	23.2	5.8	29.0	4000	8.00	400/3/50	1 1/4	3900	1030	1400	3270	740	800	676.0					
	7 E 2/80 .1	71.8	54.2	102.0	397.6	39920	37	80	26.9	60.3	26.9	29.0	5.8	34.8	4000	8.00	400/3/50	1 1/4	3900	1030	1400	3270	740	800	734.0					
7 G 2/80 .1	85.2	64.6	136.0	530.0	38180	36	80	26.9	60.3	33.7	34.8	5.8	40.6	4000	8.00	400/3/50	1 1/4	3900	1140	1400	3270	850	800	849.0						
7 I 2/80 .1	94.4	71.8	170.0	662.4	36660	36	80	26.9	60.3	33.7	46.4	5.8	52.2	4000	8.00	400/3/50	1 1/4	3900	1250	1400	3270	960	800	964.3						
10 mm	10 D 2/50 .1	17.2	13.5	30.0	84.8	14960	20	72	21.3	48.3	26.9	8.0	4.0	12.0	1460	2.70	400/3/50	1 1/4	2850	816	740	2340	620	500	316.6					
	10 E 2/50 .1	19.8	15.8	36.0	101.8	14640	20	72	21.3	48.3	26.9	10.0	4.0	14.0	1460	2.70	400/3/50	1 1/4	2850	816	740	2340	620	500	337.4					
	10 G 2/50 .1	24.4	19.2	48.0	135.6	14500	19	72	26.9	60.3	33.7	12.0	4.0	16.0	1460	2.70	400/3/50	1 1/4	2850	926	740	2340	730	500	373.0					
	10 I 2/50 .1	28.2	22.0	60.0	169.4	14040	19	72	26.9	60.3	26.9	16.0	4.0	20.0	1460	2.70	400/3/50	1 1/4	2850	1036	740	2340	840	500	409.4					
	10 D 2/71 .1	30.3	22.9	52.0	143.6	24280	30	73	26.9	60.3	26.9	13.8	4.6	18.4	1960	3.50	400/3/50	1 1/4	3150	948	1070	2640	700	800	454.2					
	10 E 2/71 .1	35.4	26.4	62.0	172.4	24160	30	73	26.9	60.3	26.9	18.4	4.6	23.0	1960	3.50	400/3/50	1 1/4	3150	948	1070	2640	700	800	483.0					
	10 G 2/71 .1	43.4	32.8	84.0	230.0	23720	29	73	26.9	60.3	33.7	20.7	4.6	25.3	1960	3.50	400/3/50	1 1/4	3150	1058	1070	2640	810	800	542.0					
	10 I 2/71 .1	50.4	38.0	102.0	287.4	23380	29	73	26.9	60.3	33.7	27.6	4.6	32.2	1960	3.50	400/3/50	1 1/4	3150	1168	1070	2640	920	800	600.5					
	10 E 2/80 .1	58.6	45.0	102.0	285.4	41380	37	80	26.9	60.3	26.9	29.0	5.8	34.8	4000	8.00	400/3/50	1 1/4	3900	1030	1400	3270	740	800	843.0					
	10 G 2/80 .1	70.2	53.8	136.0	380.8	38520	36	80	26.9	60.3	33.7	34.8	5.8	40.6	4000	8.00	400/3/50	1 1/4	3900	1140	1400	3270	850	800	940.0					
10 I 2/80 .1	81.8	62.8	170.0	476.0	38260	36	80	26.9	60.3	33.7	46.4	5.8	52.2	4000	8.00	400/3/50	1 1/4	3900	1250	1400	3270	960	800	1036						
12 mm	12 E 2/50 .1	18.6	14.4	36.0	86.2	14920	20	72	21.3	48.3	26.9	10.0	4.0	14.0	1460	2.70	400/3/50	1 1/4	2850	816	740	2340	620	500	327.2					
	12 G 2/50 .1	22.2	17.4	48.0	114.8	14760	19	72	21.3	48.3	33.7	12.0	4.0	16.0	1460	2.70	400/3/50	1 1/4	2850	926	740	2340	730	500	359.4					
	12 I 2/50 .1	26.0	20.2	60.0	143.6	14360	19	72	26.9	60.3	33.7	16.0	4.0	20.0	1460	2.70	400/3/50	1 1/4	2850	1036	740	2340	840	500	391.6					
	12 E 2/71 .1	31.6	23.8	62.0	146.2	24260	30	73	26.9	60.3	26.9	18.4	4.6	23.0	1960	3.50	400/3/50	1 1/4	3150	948	1070	2640	700	800	507.7					
	12 G 2/71 .1	39.2	29.8	84.0	194.8	24020	29	73	26.9	60.3	33.7	20.7	4.6	25.3	1960	3.50	400/3/50	1 1/4	3150	1058	1070	2640	810	800	562.0					
	12 I 2/71 .1	46.0	35.0	102.0	243.6	23680	29	73	26.9	60.3	33.7	27.6	4.6	32.2	1960	3.50	400/3/50	1 1/4	3150	1168	1070	2640	920	800	616.0					
	12 E 2/80 .1	52.6	40.6	102.0	242.0	42460	37	80	26.9	60.3	26.9	29.0	5.8	34.8	4000	8.00	400/3/50	1 1/4	3900	1030	1400	3270	740	800	791.0					
	12 G 2/80 .1	65.2	50.2	136.0	322.6	40920	36	80	26.9	60.3	33.7	34.8	5.8	40.6	4000	8.00	400/3/50	1 1/4	3900	1140	1400	3270	850	800	882.0					
12 I 2/80 .1	74.0	57.0	170.0	403.2	39280	36	80	26.9	60.3	33.7	46.4	5.8	52.2	4000	8.00	400/3/50	1 1/4	3900	1250	1400	3270	960	800	973.0						
16 mm / 8 mm double fin spacing	16-8 E 2/50 .1	21.6	16.4	36.0	105.6	14620	20	72	21.3	48.3	26.9	10.0	4.0	14.0	1460	2.70	400/3/50	1 1/4	2850	816	740	2340	620	500	374.0					
	16-8 G 2/50 .1	26.4	20.6	48.0	147.2	14420	19	72	26.9	60.3	33.7	12.0	4.0	16.0	1460	2.70	400/3/50	1 1/4	2850	926	740	2340	730	500	413.0					
	16-8 I 2/50 .1	30.8	23.8	60.0	188.8	14080	19	72	26.9	60.3	33.7	16.0	4.0	20.0	1460	2.70	400/3/50	1 1/4	2850	1036	740	2340	840	500	452.0					
	16-8 E 2/71 .1	35.8	27.0	62.0	179.0	23960	30	72	26.9	60.3	26.9	18.4	4.6	23.0	1960	3.50	400/3/50	1 1/4	3150	948	1070	2640	700	800	521.0					
	16-8 G 2/71 .1	45.2	34.0	84.0	249.6	23260	29	73	26.9	60.3	33.7	20.7	4.6	25.3	1960	3.50	400/3/50	1 1/4	3150	1058	1070	2640	810	800	579.0					
	16-8 I 2/71 .1	52.6	39.6	102.0	320.2	22820	29	73	26.9	60.3	33.7	27.6	4.6	32.2	1960	3.50	400/3/50	1 1/4	3150	1168	1070	2640	920	800	640.0					
	16-8 E 2/80 .1	60.0	46.0	102.0	296.0	41060	37	73	26.9	60.3	26.9	29.0	5.8	34.8	4000	8.00	400/3/50	1 1/4	3900	1030	1400	3270	740	800	733.0					
	16-8 G 2/80 .1	73.8	56.4	136.0	413.6	38360	36	80	26.9	60.3	33.7	34.8	5.8	40.6	4000	8.00	400/3/50	1 1/4	3900	1140	1400	3270	850	800	830.0					
16-8 I 2/80 .1																														

fin spacing	Model IEH/SA ...	nom. capacity		connections							electrical defrosting			fan(s) 50 Hz			dimensions in mm waterspray defrost * dimension + 100						net weight					
		fin distance	coil code	number of fans	fan diameter	generation key	DT1 = 8 K, RH 85 % T evap. = -8 °C	DT1 = 7 K, RH 95 % T evap. = -25 °C	tube volume	exchange surface	airflow	Air throw	noise pressure level	inlet	outlet	ho/dges in / out	Coil	Drip tray	Total	capacity	current	current type		drain	L	B	*H	E
4 mm	4 C 3/50 .1	40.9	29.9	36.0	241.2	22530	21	74	26.9	60.3	26.9	12.4	6.0	18.4	2190	4.05	400/3/50	1 1/4	4000	816	740	3490	620	600	551.0			
	4 D 3/50 .1	47.5	34.8	45.0	301.5	22020	21	74	26.9	60.3	26.9	12.4	6.0	18.4	2190	4.05	400/3/50	1 1/4	4000	816	740	3490	620	600	597.0			
	4 E 3/50 .1	51.6	37.5	54.0	361.8	21270	20	74	26.9	60.3	26.9	15.5	6.0	21.5	2190	4.05	400/3/50	1 1/4	4000	816	740	3490	620	600	644.0			
	4 F 3/50 .1	56.0	41.1	63.0	422.1	20940	20	74	26.9	60.3	26.9	18.6	6.0	24.6	2190	4.05	400/3/50	1 1/4	4000	926	740	3490	730	600	690.0			
	4 C 3/71 .1	64.2	49.5	63.0	408.9	36060	30	75	26.9	60.3	26.9	20.4	6.8	27.2	2940	5.25	400/3/50	1 1/4	4570	948	1070	3940	700	950	771.0			
	4 D 3/71 .1	74.1	57.3	78.0	511.2	35670	30	75	26.9	60.3	26.9	20.4	6.8	27.2	2940	5.25	400/3/50	1 1/4	4570	948	1070	3940	700	950	715.0			
	4 E 3/71 .1	81.3	62.7	93.0	613.5	34740	29	75	26.9	60.3	26.9	27.2	6.8	34.0	2940	5.25	400/3/50	1 1/4	4570	948	1070	3940	700	950	931.0			
	4 C 3/80 .1	114.3	81.6	102.0	677.4	62460	37	82	26.9	60.3	33.7	34.4	8.6	43.0	6000	12.0	400/3/50	2x1 1/4	5515	1030	1400	4885	740	950	1018			
	4 D 3/80 .1	130.6	96.0	129.0	846.9	59880	36	82	26.9	60.3	33.7	34.4	8.6	43.0	6000	12.0	400/3/50	2x1 1/4	5515	1030	1400	4885	740	950	1245			
	4 E 3/80 .1	137.7	101.7	153.0	1016.1	54780	36	82	33.7	76.1	33.7	43.0	8.6	51.6	6000	12.0	400/3/50	2x1 1/4	5515	1030	1400	4885	740	950	1425			
7 mm	7 C 3/50 .1	29.0	21.8	36.0	141.6	22740	21	74	26.9	60.3	26.9	12.4	6.0	18.4	2190	4.05	400/3/50	1 1/4	4000	816	740	3490	620	600	541.0			
	7 D 3/50 .1	34.4	25.9	45.0	177.0	22230	21	74	26.9	60.3	26.9	12.4	6.0	18.4	2190	4.05	400/3/50	1 1/4	4000	816	740	3490	620	600	574.0			
	7 E 3/50 .1	38.4	28.8	54.0	212.4	21390	21	74	26.9	60.3	26.9	15.5	6.0	21.5	2190	4.05	400/3/50	1 1/4	4000	816	740	3490	620	600	608.0			
	7 G 3/50 .1	46.8	35.4	72.0	282.9	21150	20	74	26.9	60.3	33.7	18.6	6.0	24.6	2190	4.05	400/3/50	1 1/4	4000	926	740	3490	730	600	549.0			
	7 D 3/71 .1	52.6	41.3	78.0	300.0	36180	30	75	26.9	60.3	26.9	20.4	6.8	27.2	2940	5.25	400/3/50	1 1/4	4570	948	1070	3940	700	950	745.0			
	7 E 3/71 .1	60.1	47.2	93.0	360.0	35850	30	75	26.9	60.3	26.9	27.2	6.8	34.0	2940	5.25	400/3/50	1 1/4	4570	948	1070	3940	700	950	796.0			
	7 G 3/71 .1	72.2	56.5	126.0	480.0	34980	29	75	26.9	60.3	33.7	40.8	6.8	47.6	2940	5.25	400/3/50	1 1/4	4570	1058	1070	3940	810	950	907.0			
	7 D 3/80 .1	95.7	72.3	129.0	496.8	62010	37	82	26.9	60.3	33.7	34.4	8.6	43.0	6000	12.0	400/3/50	2x1 1/4	5515	1030	1400	4885	740	950	1117			
	7 E 3/80 .1	107.7	81.3	153.0	596.4	59880	37	82	26.9	60.3	33.7	43.0	8.6	51.6	6000	12.0	400/3/50	2x1 1/4	5515	1030	1400	4885	740	950	1208			
	7 G 3/80 .1	127.8	96.9	204.0	795.0	57270	36	82	33.7	76.1	33.7	51.6	8.6	60.2	6000	12.0	400/3/50	2x1 1/4	5515	1140	1400	4885	850	950	1388			
7 I 3/80 .1	141.6	107.7	255.0	993.6	54990	36	82	33.7	76.1	33.7	68.8	8.6	77.4	6000	12.0	400/3/50	2x1 1/4	5515	1250	1400	4885	960	950	1569				
10 mm	10 D 3/50 .1	27.2	20.8	45.0	127.2	22440	21	74	26.9	60.3	26.9	12.4	6.0	18.4	2190	4.05	400/3/50	1 1/4	4000	816	740	3490	620	600	549.0			
	10 E 3/50 .1	29.7	23.7	54.0	152.7	21960	21	74	26.9	60.3	26.9	15.5	6.0	21.5	2190	4.05	400/3/50	1 1/4	4000	816	740	3490	620	600	577.0			
	10 G 3/50 .1	39.0	29.8	72.0	203.4	21750	20	74	26.9	60.3	33.7	18.6	6.0	24.6	2190	4.05	400/3/50	1 1/4	4000	926	740	3490	730	600	634.0			
	10 I 3/50 .1	44.8	34.2	90.0	254.1	21060	20	74	26.9	60.3	33.7	24.8	6.0	30.8	2190	4.05	400/3/50	1 1/4	4000	1036	740	3490	840	600	690.0			
	10 D 3/71 .1	41.3	32.5	78.0	215.4	36420	30	75	26.9	60.3	33.7	20.4	6.8	27.2	2940	5.25	400/3/50	1 1/4	4570	948	1070	3940	700	950	692.0			
	10 E 3/71 .1	47.9	37.8	93.0	258.6	36240	30	75	26.9	60.3	33.7	27.2	6.8	34.0	2940	5.25	400/3/50	1 1/4	4570	948	1070	3940	700	950	739.0			
	10 G 3/71 .1	59.3	46.7	126.0	345.0	35580	29	75	26.9	60.3	33.7	30.6	6.8	37.4	2940	5.25	400/3/50	1 1/4	4570	1058	1070	3940	810	950	838.0			
	10 I 3/71 .1	68.8	54.1	153.0	431.1	35070	29	82	26.9	60.3	33.7	40.8	6.8	47.6	2940	5.25	400/3/50	1 1/4	4570	1168	1070	3940	920	950	994.0			
	10 E 3/80 .1	87.9	67.5	153.0	428.1	62070	37	82	26.9	60.3	33.7	43.0	8.6	51.6	6000	12.0	400/3/50	2x1 1/4	5515	1030	1400	4885	740	950	1121			
	10 G 3/80 .1	105.3	80.7	204.0	571.2	57780	36	82	26.9	60.3	33.7	51.6	8.6	60.2	6000	12.0	400/3/50	2x1 1/4	5515	1140	1400	4885	850	950	1273			
10 I 3/80 .1	122.7	94.2	255.0	714.0	57390	36	82	33.7	76.1	33.7	68.8	8.6	77.4	6000	12.0	400/3/50	2x1 1/4	5515	1250	1400	4885	960	950	1425				
12 mm	12 E 3/50 .1	27.9	21.6	54.0	129.3	22380	21	74	26.9	60.3	26.9	15.5	6.0	21.5	2190	4.05	400/3/50	1 1/4	4000	816	740	3490	620	600	565.0			
	12 G 3/50 .1	35.4	27.2	72.0	172.2	22140	20	74	26.9	60.3	33.7	18.6	6.0	24.6	2190	4.05	400/3/50	1 1/4	4000	926	740	3490	730	600	618.0			
	12 I 3/50 .1	41.1	31.6	90.0	215.4	21540	20	74	26.9	60.3	33.7	24.8	6.0	30.8	2190	4.05	400/3/50	1 1/4	4000	1036	740	3490	840	600	670.0			
	12 E 3/71 .1	42.6	33.5	93.0	219.3	36390	30	75	26.9	60.3	26.9	27.2	6.8	34.0	2940	5.25	400/3/50	1 1/4	4570	948	1070	3940	700	950	781.0			
	12 G 3/71 .1	53.4	42.1	126.0	292.2	36030	29	75	26.9	60.3	33.7	30.6	6.8	37.4	2940	5.25	400/3/50	1 1/4	4570	1058	1070	3940	810	950	868.0			
	12 I 3/71 .1	62.6	49.3	153.0	365.4	35520	29	75	26.9	60.3	33.7	40.8	6.8	47.6	2940	5.25	400/3/50	1 1/4	4570	1168	1070	3940	920	950	960.0			
	12 E 3/80 .1	78.9	60.9	153.0	363.0	63690	37	82	26.9	60.3	33.7	43.0	8.6	51.6	6000	12.0	400/3/50	2x1 1/4	5515	1030	1400	4885	740	950	1100			
	12 G 3/80 .1	97.8	75.3	204.0	483.9	61380	36	82	26.9	60.3	33.7	51.6	8.6	60.2	6000	12.0	400/3/50	2x1 1/4	5515	1140	1400	4885	850	950	1245			
12 I 3/80 .1	111.0	85.5	255.0	604.8	58920	36	82	33.7	76.1	33.7	68.8	8.6	77.4	6000	12.0	400/3/50	2x1 1/4	5515	1250	1400	4885	960	950	1389				
16 mm / 8 mm double fin spacing	16-8 E 3/50 .1	32.4	25.1	54.0	158.4	21930	21	74	21.6	60.3	33.7	15.5	6.0	21.5	2190	4.05	400/3/50	1 1/4	4000	816	740	3490	620	600	578.0			
	16-8 G 3/50 .1	41.7	31.8	72.0	220.8	21630	20	74	21.6	60.3	33.7	18.6	6.0	24.6	2190	4.05	400/3/50	1 1/4	4000	926	740	3490	730	600	640.0			
	16-8 I 3/50 .1	47.7	36.3	90.0	283.2	21120	20	74	21.6	60.3	33.7	24.8	6.0	30.8	2190	4.05	400/3/50	1 1/4	4000	1036	740	3490	840	600	703.0			
	16-8 E 3/71 .1	49.0	38.6	93.0	268.5	35940	30	75	21.6	60.3	26.9	27.2	6.8	34.0	2940	5.25	400/3/50	1 1/4	4570	948	1070	3940	700	950	789.0			
	16-8 G 3/71 .1	61.9	48.6	126.0	374.4	34890	29	75	21.6	60.3	33.7	30.6	6.8	37.4	2940	5.25	400/3/50	1 1/4	4570	1058	1070	3940	810	950	883.0			
	16-8 I 3/71 .1	72.2	56.6	153.0	480.3	34230	29	75	21.6	60.3	33.7	40.8	6.8	47.6	2940	5.25	400/3/50	1 1/4	4570	1168	1070	3940	920	950	978.0			
	16-8 E 3/80 .1	90.0	69.0	153.0	444.0	61590	37	82	21.6	60.3	33.7	43.0	8.6	51.6	6000	12.0	400/3/50	2x1 1/4	5515	1030	1400	4885	740	950	1140			
	16-8 G 3/80 .1	110.7	84.6	204.0	620.4	57540	36	82	21.6	60.3	33.7	51.6	8.6	60.2	6000	12.0	400/3/50	2x1 1/4	5515	1140	1400	4885	850	950	1315			
16-8 I 3/80 .1	129.6	99.0	255.0	795.3	57030	36	82	33.7	76.1	33.7	68.8	8.6	77.4	6000	12.0	400/3/50	2x1 1/4	5515	1250	1400	4885	960	950	1489				

fin spacing	Model IEH / SA ...	nom. capacity										connections			electrical defrosting			fan(s) 50 Hz			dimensions in mm waterspray defrost * dimension + 100						net weight kg	
		fin distance coil code	number of fans	fan diameter generation key	NH <sub>3</sub>		tube volume	exchange surface	airflow	Air flow	noise pressure level	inlet	outlet	ho/gas in / out	Coil	Drip tray	Total	capacity	current	current type	drain	L	B	*H	E	F		A
					DTI = 8 K; RH 85 % T <sub>evap.</sub> = -8 °C	DTI = 7 K; RH 95 % T <sub>evap.</sub> = -25 °C																						
4 mm	4 C 4/50 .1	53.6	40.8	48.0	321.6	30040	21	75	26.9	60.3	33.7	16.4	8.2	24.6	2920	5.40	400/3/50	2x1 1/4	5310	816	740	4640	620	600	735.0			
	4 D 4/50 .1	61.8	47.2	60.0	402.0	29360	21	75	26.9	60.3	33.7	16.4	8.2	24.6	2920	5.40	400/3/50	2x1 1/4	5310	816	740	4640	620	600	797.0			
	4 E 4/50 .1	68.8	50.0	72.0	482.4	28360	20	75	26.9	60.3	33.7	20.5	8.2	28.7	2920	5.40	400/3/50	2x1 1/4	5310	816	740	4640	620	600	858.0			
	4 F 4/50 .1	72.4	55.4	84.0	562.8	27920	20	75	26.9	60.3	33.7	24.6	8.2	32.8	2920	5.40	400/3/50	2x1 1/4	5310	926	740	4640	730	600	920.0			
	4 C 4/71 .1	89.6	67.6	84.0	545.2	48080	30	76	26.9	60.3	33.7	27.0	9.0	36.0	3920	7.00	400/3/50	2x1 1/4	5910	948	1070	5240	700	950	1028			
	4 D 4/71 .1	103.4	78.2	104.0	681.6	47560	30	76	26.9	60.3	33.7	27.0	9.0	36.0	3920	7.00	400/3/50	2x1 1/4	5910	948	1070	5240	700	950	953.0			
	4 E 4/71 .1	113.2	85.6	124.0	818.0	46320	29	76	26.9	60.3	33.7	36.0	9.0	45.0	3920	7.00	400/3/50	2x1 1/4	5910	948	1070	5240	700	950	1241			
	4 C 4/80 .1	152.4	108.8	136.0	903.2	83280	37	86	33.7	76.1	33.7	45.6	11.4	57.0	8000	16.0	400/3/50	2x1 1/4	7170	1030	1400	6500	740	950	1358			
	4 D 4/80 .1	174.0	128.0	172.0	1129.2	79840	36	86	33.7	76.1	33.7	45.6	11.4	57.0	8000	16.0	400/3/50	2x1 1/4	7170	1030	1400	6500	740	950	1660			
	4 E 4/80 .1	183.6	135.6	204.0	1354.8	73040	36	86	33.7	76.1	33.7	57.0	11.4	68.4	8000	16.0	400/3/50	2x1 1/4	7170	1030	1400	6500	740	950	1900			
7 mm	7 C 4/50 .1	36.8	28.8	48.0	188.8	30320	21	75	26.9	60.3	33.7	16.4	8.2	24.6	2920	5.40	400/3/50	2x1 1/4	5310	816	740	4640	620	600	721.0			
	7 D 4/50 .1	43.8	34.0	60.0	236.0	29640	21	75	26.9	60.3	33.7	16.4	8.2	24.6	2920	5.40	400/3/50	2x1 1/4	5310	816	740	4640	620	600	766.0			
	7 E 4/50 .1	51.2	38.4	72.0	283.2	28520	20	75	26.9	60.3	33.7	20.5	8.2	28.7	2920	5.40	400/3/50	2x1 1/4	5310	816	740	4640	620	600	810.0			
	7 G 4/50 .1	59.6	46.0	96.0	377.2	28200	20	75	26.9	60.3	48.3	24.6	8.2	32.8	2920	5.40	400/3/50	2x1 1/4	5310	926	740	4640	730	600	732.0			
	7 D 4/71 .1	74.0	57.1	104.0	400.0	48240	30	76	26.9	60.3	33.7	27.0	9.0	36.0	3920	7.00	400/3/50	2x1 1/4	5910	948	1070	5240	700	950	993.0			
	7 E 4/71 .1	84.5	65.3	124.0	480.0	47800	30	76	26.9	60.3	33.7	36.0	9.0	45.0	3920	7.00	400/3/50	2x1 1/4	5910	948	1070	5240	700	950	1061			
	7 G 4/71 .1	101.4	78.3	168.0	640.0	46640	29	76	26.9	60.3	48.3	40.5	9.0	49.5	3920	7.00	400/3/50	2x1 1/4	5910	1058	1070	5240	810	950	1210			
	7 D 4/80 .1	127.6	96.4	172.0	662.4	82680	37	86	33.7	76.1	48.3	45.6	11.4	57.0	8000	16.0	400/3/50	2x1 1/4	7170	1030	1400	6500	740	950	1490			
	7 E 4/80 .1	143.6	108.4	204.0	795.2	79840	37	86	33.7	76.1	33.7	57.0	11.4	68.4	8000	16.0	400/3/50	2x1 1/4	7170	1030	1400	6500	740	950	1610			
	7 G 4/80 .1	170.4	129.2	272.0	1060.2	76360	36	86	33.7	76.1	48.3	68.4	11.4	79.8	8000	16.0	400/3/50	2x1 1/4	7170	1140	1400	6500	850	950	1851			
7 I 4/80 .1	188.8	143.6	340.0	1324.8	73320	36	86	33.7	88.9	48.3	91.2	11.4	102.6	8000	16.0	400/3/50	2x1 1/4	7170	1250	1400	6500	960	950	2092				
10 mm	10 D 4/50 .1	34.4	27.0	60.0	169.6	29920	21	75	26.9	60.3	33.7	16.4	8.2	24.6	2920	5.40	400/3/50	2x1 1/4	5310	816	740	4640	620	600	732.0			
	10 E 4/50 .1	39.6	31.6	72.0	203.6	29280	21	75	26.9	60.3	33.7	20.5	8.2	28.7	2920	5.40	400/3/50	2x1 1/4	5310	816	740	4640	620	600	769.0			
	10 G 4/50 .1	48.8	38.4	96.0	271.2	29000	20	75	26.9	60.3	48.3	24.6	8.2	32.8	2920	5.40	400/3/50	2x1 1/4	5310	926	740	4640	730	600	845.0			
	10 I 4/50 .1	56.4	44.0	120.0	338.8	28080	20	75	26.9	60.3	48.3	32.8	8.2	41.0	2920	5.40	400/3/50	2x1 1/4	5310	1036	740	4640	840	600	920.0			
	10 D 4/71 .1	58.2	45.3	104.0	287.2	48560	30	76	26.9	60.3	33.7	27.0	9.0	36.0	3920	7.00	400/3/50	2x1 1/4	5910	948	1070	5240	700	950	923.0			
	10 E 4/71 .1	67.6	52.6	124.0	344.8	48320	30	76	26.9	60.3	33.7	36.0	9.0	45.0	3920	7.00	400/3/50	2x1 1/4	5910	948	1070	5240	700	950	986.0			
	10 G 4/71 .1	83.6	65.0	168.0	460.0	47440	29	76	26.9	60.3	48.3	40.5	9.0	49.5	3920	7.00	400/3/50	2x1 1/4	5910	1058	1070	5240	810	950	1117			
	10 I 4/71 .1	96.9	75.3	204.0	574.8	46760	29	76	26.9	60.3	48.3	54.0	9.0	63.0	3920	7.00	400/3/50	2x1 1/4	5910	1168	1070	5240	920	950	1326			
	10 E 4/80 .1	117.2	90.0	204.0	570.8	82760	37	86	26.9	60.3	33.7	57.0	11.4	68.4	8000	16.0	400/3/50	2x1 1/4	7170	1030	1400	6500	740	950	1495			
	10 G 4/80 .1	140.4	107.6	272.0	761.6	77040	36	86	33.7	76.1	48.3	68.4	11.4	79.8	8000	16.0	400/3/50	2x1 1/4	7170	1140	1400	6500	850	950	1698			
10 I 4/80 .1	163.6	125.6	340.0	952.0	76520	36	86	33.7	76.1	48.3	91.2	11.4	102.6	8000	16.0	400/3/50	2x1 1/4	7170	1250	1400	6500	960	950	1900				
12 mm	12 E 4/50 .1	37.2	28.8	72.0	172.4	29840	21	75	26.9	60.3	33.7	20.5	8.2	28.7	2920	5.40	400/3/50	2x1 1/4	5310	816	740	4640	620	600	753.0			
	12 G 4/50 .1	44.4	34.8	96.0	229.6	29520	20	75	26.9	60.3	48.3	24.6	8.2	32.8	2920	5.40	400/3/50	2x1 1/4	5310	926	740	4640	730	600	824.0			
	12 I 4/50 .1	52.0	40.4	120.0	287.2	28720	20	75	26.9	60.3	48.3	32.8	8.2	41.0	2920	5.40	400/3/50	2x1 1/4	5310	1036	740	4640	840	600	894.0			
	12 E 4/71 .1	60.0	46.8	124.0	292.4	48520	30	76	26.9	60.3	33.7	36.0	9.0	45.0	3920	7.00	400/3/50	2x1 1/4	5910	948	1070	5240	700	950	1041			
	12 G 4/71 .1	75.4	58.8	168.0	389.6	48040	30	76	26.9	60.3	48.3	40.5	9.0	49.5	3920	7.00	400/3/50	2x1 1/4	5910	1058	1070	5240	810	950	1158			
	12 I 4/71 .1	88.3	68.8	204.0	487.2	47360	29	76	26.9	60.3	48.3	54.0	9.0	63.0	3920	7.00	400/3/50	2x1 1/4	5910	1168	1070	5240	920	950	1281			
	12 E 4/80 .1	105.2	81.2	204.0	484.0	84920	37	86	26.9	60.3	33.7	57.0	11.4	68.4	8000	16.0	400/3/50	2x1 1/4	7170	1030	1400	6500	740	950	1466			
	12 G 4/80 .1	130.4	100.4	272.0	645.2	81840	36	86	33.7	76.1	48.3	68.4	11.4	79.8	8000	16.0	400/3/50	2x1 1/4	7170	1140	1400	6500	850	950	1660			
	12 I 4/80 .1	148.0	114.0	340.0	806.4	78560	36	86	33.7	76.1	48.3	91.2	11.4	102.6	8000	16.0	400/3/50	2x1 1/4	7170	1250	1400	6500	960	950	1853			
16 mm / 8 mm double fin spacing	16-8 E 4/50 .1	43.2	32.8	72.0	211.2	29240	21	75	26.9	60.3	33.7	20.5	8.2	28.7	2920	5.40	400/3/50	2x1 1/4	5310	816	740	4640	620	600	770.0			
	16-8 G 4/50 .1	52.8	41.2	96.0	294.4	28840	20	75	26.9	60.3	33.7	24.6	8.2	32.8	2920	5.40	400/3/50	2x1 1/4	5310	926	740	4640	730	600	854.0			
	16-8 I 4/50 .1	61.6	47.6	120.0	377.6	28160	20	75	26.9	60.3	33.7	32.8	8.2	41.0	2920	5.40	400/3/50	2x1 1/4	5310	1036	740	4640	840	600	937.0			
	16-8 E 4/71 .1	69.1	53.7	124.0	358.0	47920	30	76	26.9	60.3	33.7	36.0	9.0	45.0	3920	7.00	400/3/50	2x1 1/4	5910	948	1070	5240	700	950	1052			
	16-8 G 4/71 .1	87.1	67.6	168.0	499.2	46520	29	76	26.9	60.3	33.7	40.5	9.0	49.5	3920	7.00	400/3/50	2x1 1/4	5910	1058	1070	5240	810	950	1178			
	16-8 I 4/71 .1	101.1	78.6	204.0	640.4	45620	29	76	26.9	60.3	33.7	54.0	9.0	63.0	3920	7.00	400/3/50	2x1 1/4	5910	1168	1070	5240	920	950	1304			
	16-8 E 4/80 .1	120.0	92.0	204.0	592.0	82120	37	86	26.9	60.3	33.7	57.0	11.4	68.4	8000	16.0	400/3/50	2x1 1/4	7170	1030	1400	6500	740	950	1520			
	16-8 G 4/80 .1	147.6	112.8	272.0	827.2	76720	36	86	33.7	76.1	33.7	68.4	11.4	79.8	8000	16.0	40											

## Diagram for calculation of the nominal cooling capacity $\dot{Q}_{ON}$ depending on DT1 and $t_0$



$$\dot{Q}_{ON} = \frac{\dot{Q}_0}{f} \quad \text{Catalogue capacities: DT1 = 8K}$$

## INSTALLATION

- Mount suitably sized tie rods on the ceiling, cut the straps and remove the tray from the box.  
Lift the unit using a standard pallet and fit the appliance to the ceiling with nuts and washers.
- Screw on the condensate tray.
- Remove the panel covering the couplings 1 and connect the supply lines complying with the coupling sections.

### IEH/SA-PRO

- Mount the expansion valve on the supply line 2 and position the bulb correctly on the suction line 3.

### IEH/SA-PRO

- Connect the supply line to the defrost sprinkler 4 (if provided) according to the diagram in figure D.
- Connect drain pipe 5 to the condensate tray.
- Wire the power lines from the switch board to the motor distribution boxes 6 and separately to the electric defrost distribution box 7 if provided, following the wiring diagrams found inside the actual boxes.

### WARNING

Do not carry out any wiring connections while the power is connected. All electrical and refrigerant connections must be carried out by a qualified personnel. The coil has approx. 1 bar overpressure of dry air, release with care.

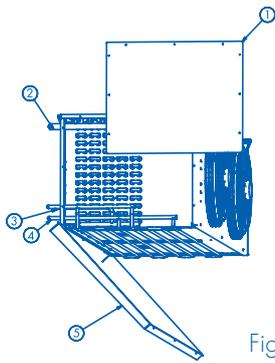


Figure B

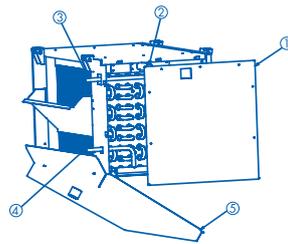


Figure C

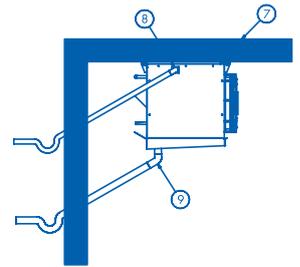


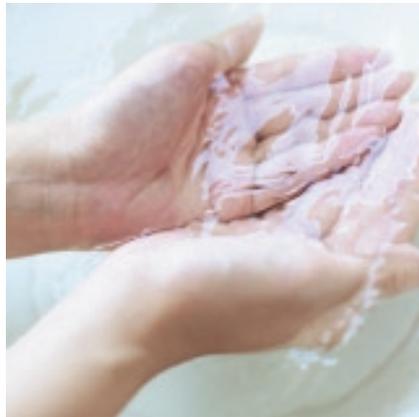
Figure D

## WARRANTY

- A** – CABERO warrants that the products shall be free from defects in material and workmanship for the period of 12 months from the date of the delivery. Therefore, should CABERO within the warranty period, acknowledge and recognise in writing the existence of the defects in the products and said defects be materially grounded, CABERO shall, at its discretion, repair the defective products at no costs for the client or replace them by delivering the substitutive products (Ex works – Incoterms CABERO).
- B** – Subject to loss of the warranty, notice of any defect shall be given by the client in writing with return receipt registered letter within, and not later than, 10 (ten) days from the date of receipt of the products at the client's premises or in the different delivery place, previously indicated by the latter. It is hereby understood that the burden of the proof of the date of the discovery shall be borne by the client.
- C** – CABERO also warrants that the products are manufactured in compliance with the European Laws and/or Regulations in force on the date of the confirmation by CABERO of the relevant client's order. Unless otherwise expressly agreed in writings by the parties. Client shall bear any other additional expenses related to the operations of repairing or replacing of the defective products.
- D** – This warranty shall not apply should the defects of the products be caused by:
- natural wear and tear
  - unauthorized repairs, interventions or modifications
  - unsuited use or application
  - thermal overexposure, also when occasional
  - electrical or mechanical overstress
  - failure of respecting the functional and environmental parameters suggested by CABERO for the correct use and exploitation of the products
  - installation of the products not in compliance with the technical specifications provided by CABERO
  - any other cause due to the client's negligence.
- E** – This warranty shall also not apply in case of:
- non compliance of the products with European Law and/or Regulations entered in force after the date of transmission of the order confirmation by CABERO.
  - non compliance of the products with Laws and/or Regulations in force in the place where the products are installed and/or assembled by the client and/or in the place of their final use, should the client not expressly require the conformity of the products to said Laws and Regulations and not duly inform CABERO of their content before the date of transmission of the latter's order confirmation.

This limitation of the warranty is also applicable with reference to peculiar Laws and Regulations valid and binding in States of the European Union independently of the European Laws and Regulations.

- F** – The client shall not sell or market products not in compliance with the Laws and Regulations mentioned under letter E above. In the negative, the client shall keep CABERO harmless of any damage or loss suffered by the latter, due to any third party's and/or authority's claim raised as a consequence of the manufacture by CABERO of products not in compliance with the above mentioned Laws and Regulations.



CABERO Version 03 / 2008

# CABERO

HEAT EXCHANGER

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