

Egyptian Co.

For A/C & Refrigerating Equipment



HAFCO UNIT COOLERS

HKM - HKS - HKB

ENGINEERING FOR BETTER LIFE



EGYPTIAN COMPANY FOR AIR CONDITIONING
AND REFRIGERATING EQUIPMENT

General

This range of unit cooler is divided into two specific designs in order to maximize the benefits available to the user depending on the application of the product. The HKS models cover capacity range from 2.3 - 13.5 Kw, while the HKM models have a capacity range of 5.4 - 49 Kw. Both ranges have a pleasing aesthetic design together with many technical and practical advantages, including air straightened fan guards to enhance air throw. All the coolers are constructed from a robust steel external casing which permits bottom lifting with the drain pan once the unit has been located on ceiling.

Two metric fin spacing are available as standard. These are 8mm and 6mm helping the user of the optimum selection whatever the application. Another major consideration in the development of the fin design was to minimize the refrigerant charge, this range of coolers was designed with energy conservation in mind. The combined effect of the new fin design (low refrigerant charge and the fan motor selection) results in a very low power requirement. The fin design minimizes defrost demands - thereby reducing compressor running time. The range is designed for use down to -35 C evaporating temperature.

Case Work

Fabricated galvanized sheet steel panels are assembled to form a rigid structure.

The coil is supported via the coil end plates and the coil base plate throw hanger brackets ensuring that the coolers are mounted parallel to the ceiling. This feature has the benefits of improving the hygiene standard by limiting the opportunities for growth and distribution of harmful bacteria.

The drain pans are manufactured from galvanized sheet steel and have a slot in the back flange which permits them to sit on the rigid coil base lifting and then dropping into an operating position once the fork lift has been removed.

The end cover have keyhole slots punched in four corners to permit easy removal. A further benefit is that the end panel can be secured on two retaining screws using periods of internal access.

Corrosion Protection

The rigid case structure is fabricated from galvanized sheet steel.

The external surface is painted in modern electrostatic powder paint, plant then packed and cured at 200 C° ensuring an even, flexible and durable finish.



HKM Unit Cooler

Ø450 FAN

Fin Spacing	Model	Capacity						Airflow	Area	Inlet Diameter	Outlet Diameter	Approx. dry wieght
		SC1		SC2		SC3						
		Tev= 0° C ΔT= 10° C		Tev= -8° C ΔT= 8° C		Tev= - 25° C ΔT= 7° C						
		R404A	R22	R404A	R22	R404A	R22					
mm		K.W	K.W	K.W	K.W	K.W	K.W	m³/s	m²	inch	inch	kg
6	HKM50-6	9.27	8.9	7.37	7	5.68	5.36	1	27.5	1½	1 1⁄8	83
	HKM60-6	11.1	10.7	9	8.55	6.93	6.55	1	41.3	5⁄8	1 1⁄8	109
	HKM80-6	14.6	14	11.7	11.1	9.02	8.52	2	35.8	5⁄8	1 1⁄8	126
	HKM95-6	18.8	18	14.9	14.1	11.5	10.8	2	53.7	5⁄8	1 1⁄8	135
	HKM115-6	21.9	21	17.7	16.8	13.6	12.9	3	55	7⁄8	1 3⁄8	166
	HKM140-6	28	26.9	22.4	21.2	17.3	16.3	3	82.6	7⁄8	1 3⁄8	190
	HKM175-6	35.8	34.3	28	26.5	21.5	20.4	4	99	7⁄8	1 3⁄8	212
8	HKM50-8	8.53	8.18	6.7	6.35	5.17	4.88	1	21.3	1½	1 1⁄8	83
	HKM60-8	10.2	9.78	8.3	7.85	6.38	6.02	1	32	5⁄8	1 1⁄8	109
	HKM80-8	12.8	12.3	10.5	9.9	8.05	7.61	2	27.7	5⁄8	1 1⁄8	126
	HKM95-8	17.2	16.5	13.5	12.8	10.4	9.81	2	41.5	5⁄8	1 1⁄8	135
	HKM115-8	19.4	18.7	15.7	14.9	12.1	11.4	3	42.6	7⁄8	1 3⁄8	166
	HKM140-8	25.6	24.6	20	19.2	15.6	14.8	3	64	7⁄8	1 3⁄8	190
	HKM175-8	32.9	31.6	25	23.7	19.3	18.2	4	76.6	7⁄8	1 3⁄8	212

Ø550 FAN

mm		K.W	K.W	K.W	K.W	K.W	K.W	m ³ /s	m ²	inch	inch	kg
6	HKM200	49	47.5	35	33	24.5	24	6.4	118.7	7⁄8	1 5⁄8	250
8	HKM200	42	40.5	30	30	21	20	6.4	91.8	7⁄8	1 5⁄8	250

Model	AIR THROW	Fans				Electric Defrost		
		Number of fans	Speed	380 v -3PH-50HZ		380 v -3PH-50HZ		
				Power	Noise Level	Coil	Pan	Total
	m	n	rpm	W	Db	W	W	W
HKM50	16	1	1360	320	60	4x700	1x700	3500
HKM60	16	1	1360	320	60	4x700	1x700	3500
HKM80	16	2	1360	640	63	4x1300	1x1300	6500
HKM95	16	2	1360	640	63	4x1300	1x1300	6500
HKM115	16	3	1360	960	65	4x2200	1x2200	11000
HKM140	16	3	1360	960	65	4x2200	1x2200	11000
HKM175	16	4	1360	1280	65	4x2500	1x2500	12500
HKM200	16	4	1360	2200	70	4x2500	1x2500	12500



HKS/HKB Unit Cooler

Ø350 FAN

Fin Spacing	Model	Capacity						Airflow	Area	Inlet Diameter	Outlet Diameter	Approx. dry wieght
		SC1		SC2		SC3						
		Tev= 0° C ΔT= 10° C		Tev= -8° C ΔT= 8° C		Tev= - 25° C ΔT= 7° C						
		R404A	R22	R404A	R22	R404A	R22					
mm		K.W	K.W	K.W	K.W	K.W	K.W	m³/s	m²	inch	inch	kg
6	HKS30-6	4.7	4.2	3.7	3.1	2.75	2.3	1.4	12.1	1/2	7/8	52
	HKS35-6	5.78	5.56	5.15	4.92	2.97	2.8	1.4	17	1/2	7/8	55
	HKS40-6	6.96	6.68	6.9	6.25	3.57	3.37	1.4	25.4	1/2	7/8	60
	HKS45-6	7.8	6.7	6.2	4.7	4.7	3.6	2.1	22.1	1/2	7/8	65
	HKS55-6	10.5	10.1	8.47	8.31	5.39	5.09	2.1	31	1/2	7/8	82
	HKS70-6	13.5	13	11.16	9.82	6.92	6.54	2.1	47	5/8	7/8	93
8	HKS30-8	3.9	3.4	3.1	2.4	2.3	1.8	1.4	9.32	1/2	7/8	52
	HKS35-8	5.06	4.86	4.47	4.41	2.6	2.45	1.4	13	1/2	7/8	55
	HKS40-8	5.98	5.75	5.2	5	3.07	2.9	1.4	19.63	1/2	7/8	60
	HKS45-8	6.5	5.2	5.2	3.7	3.9	2.9	2.1	17.1	1/2	7/8	65
	HKS55-8	9.03	8.68	7.57	7.5	4.63	4.37	2.1	24	1/2	7/8	82
	HKS70-8	12	11.5	9.54	8.6	6.14	5.8	2.1	36	5/8	7/8	93

Model	AIR THROW	Fans				Electric Defrost		
		Number of fans	Speed	380 v -3PH-50HZ	Noise Level	380 v -3PH-50HZ		
				Power		Coil	Pan	Total
	m	n	rpm	W	Db	W	W	W
HKS30	12	2	1400	360	56	2x900	1x900	2700
HKS35	12	2	1400	360	56	2x900	1x900	2700
HKS40	12	2	1400	360	56	2x900	1x900	2700
HKS45	14	3	1400	540	58	2x1300	1x1300	3900
HKS55	14	3	1400	540	58	2x1300	1x1300	3900
HKS70	14	3	1400	540	58	2x1300	1x1300	3900

Ø630 FAN HKB Blast Freeze

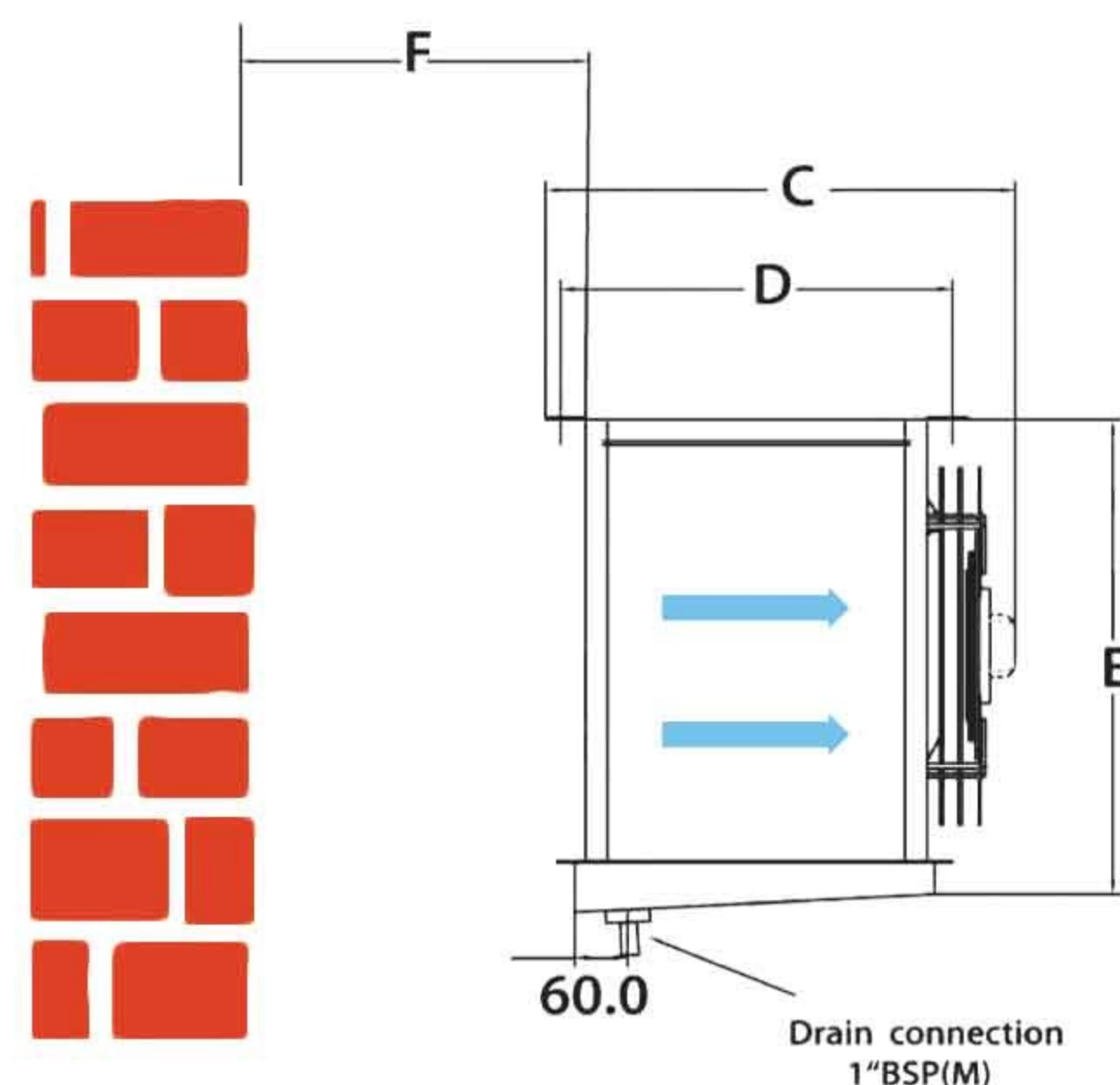
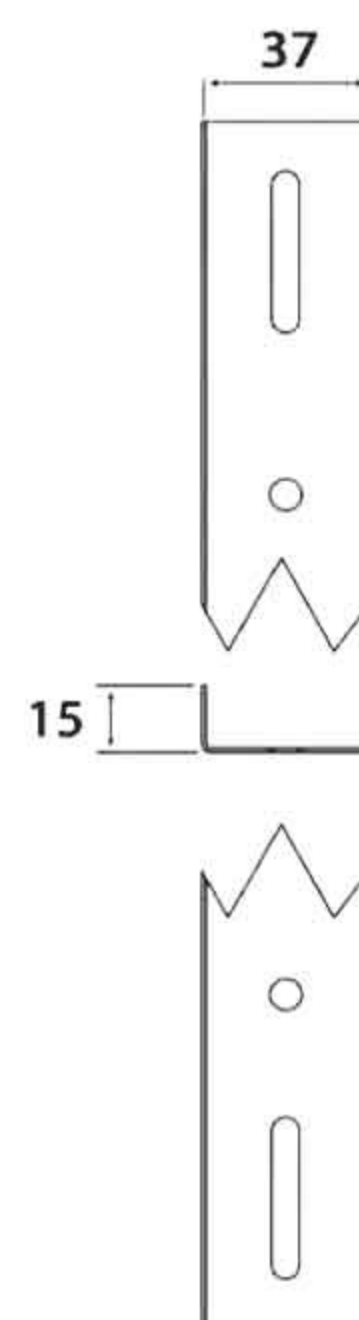
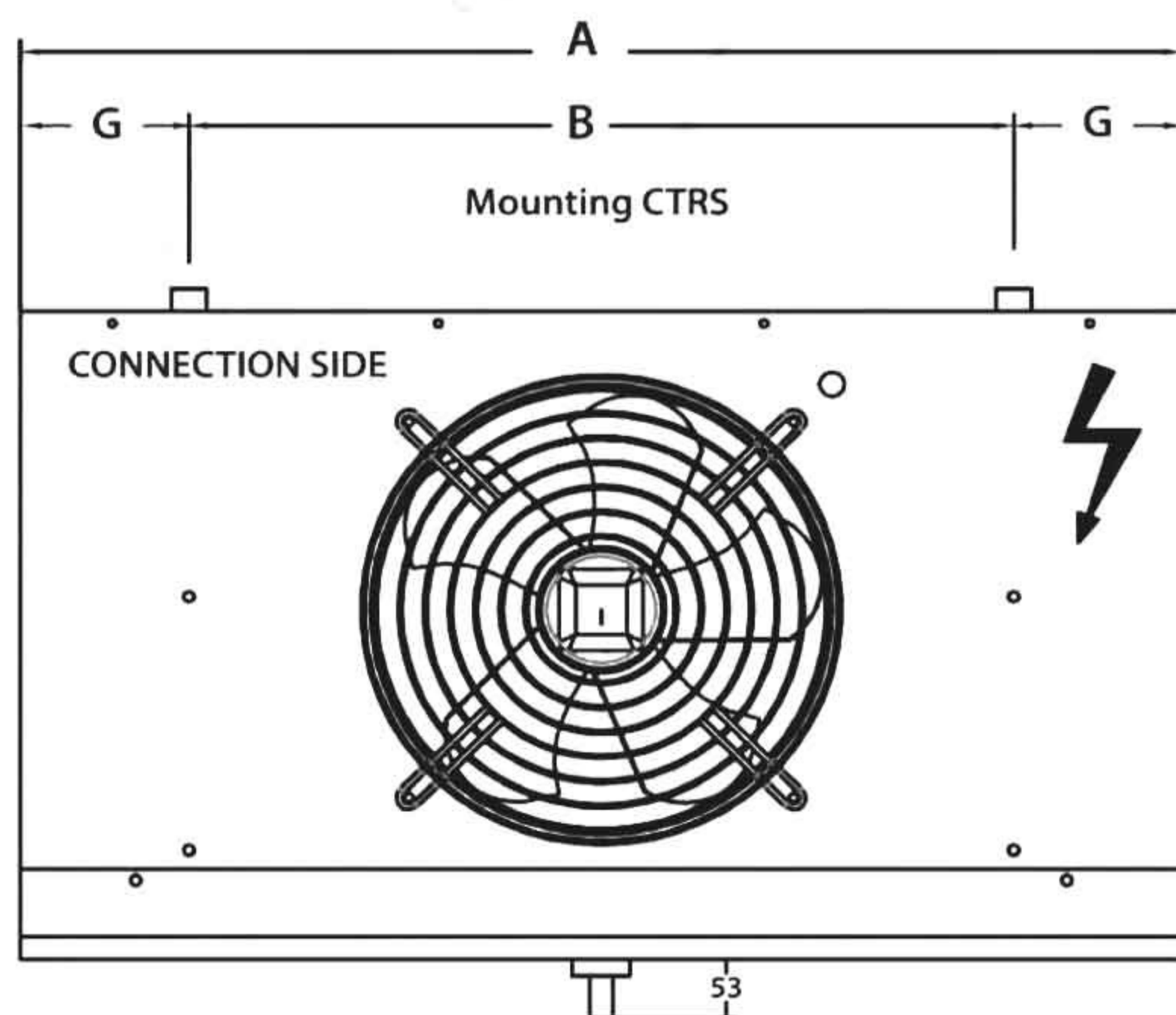
Fin Spacing	Model	Capacity	Airflow	Area	Inlet Diameter	Outlet Diameter	Approx. dry wieght
		Tev= -40° C ΔT= 6° C					
		R404A					
mm		K.W	m³/s	m²	inch	inch	kg
10	HKB250	26	14.5	122.5	7/8	1 5/8	350
	HKB300	32	15.6	149	7/8	1 5/8	400

Model	AIR THROW	Fans				Electric Defrost		
		Number of fans	Speed	380 v -3PH-50HZ	Noise Level	380 v -3PH-50HZ		
				Power		Coil	Pan	Total
	m	n	rpm	W	Db	W	W	W
HKB250	16	4	1380	7400	78	8x3000	1x3000	27000
HKB300	16	4	1380	7400	78	8x3000	1x3000	27000

Dimensions

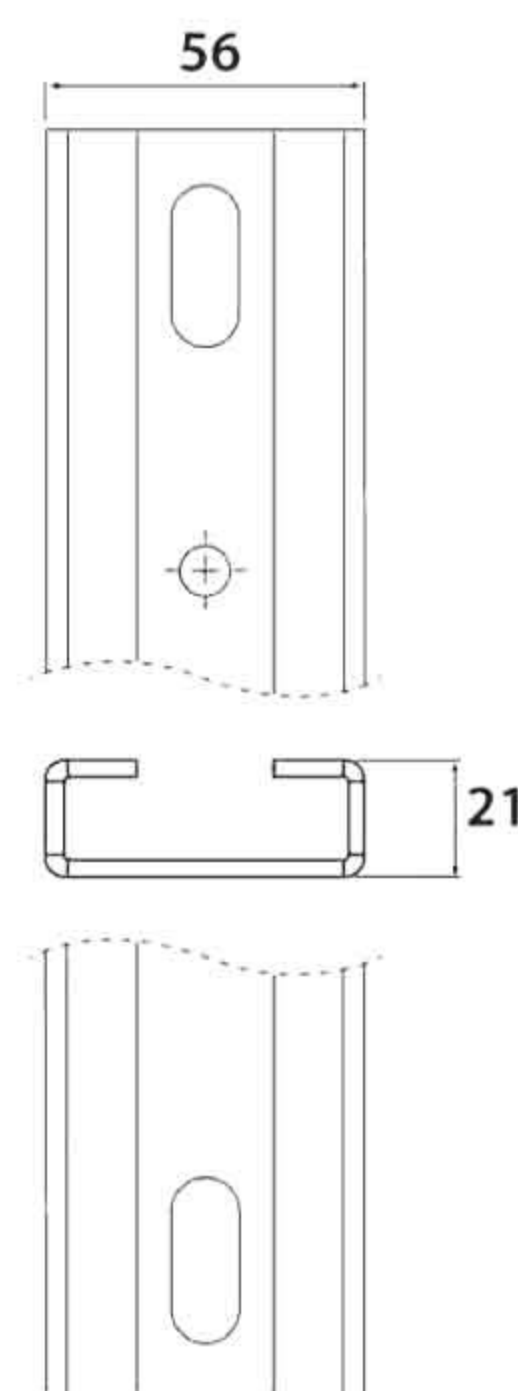
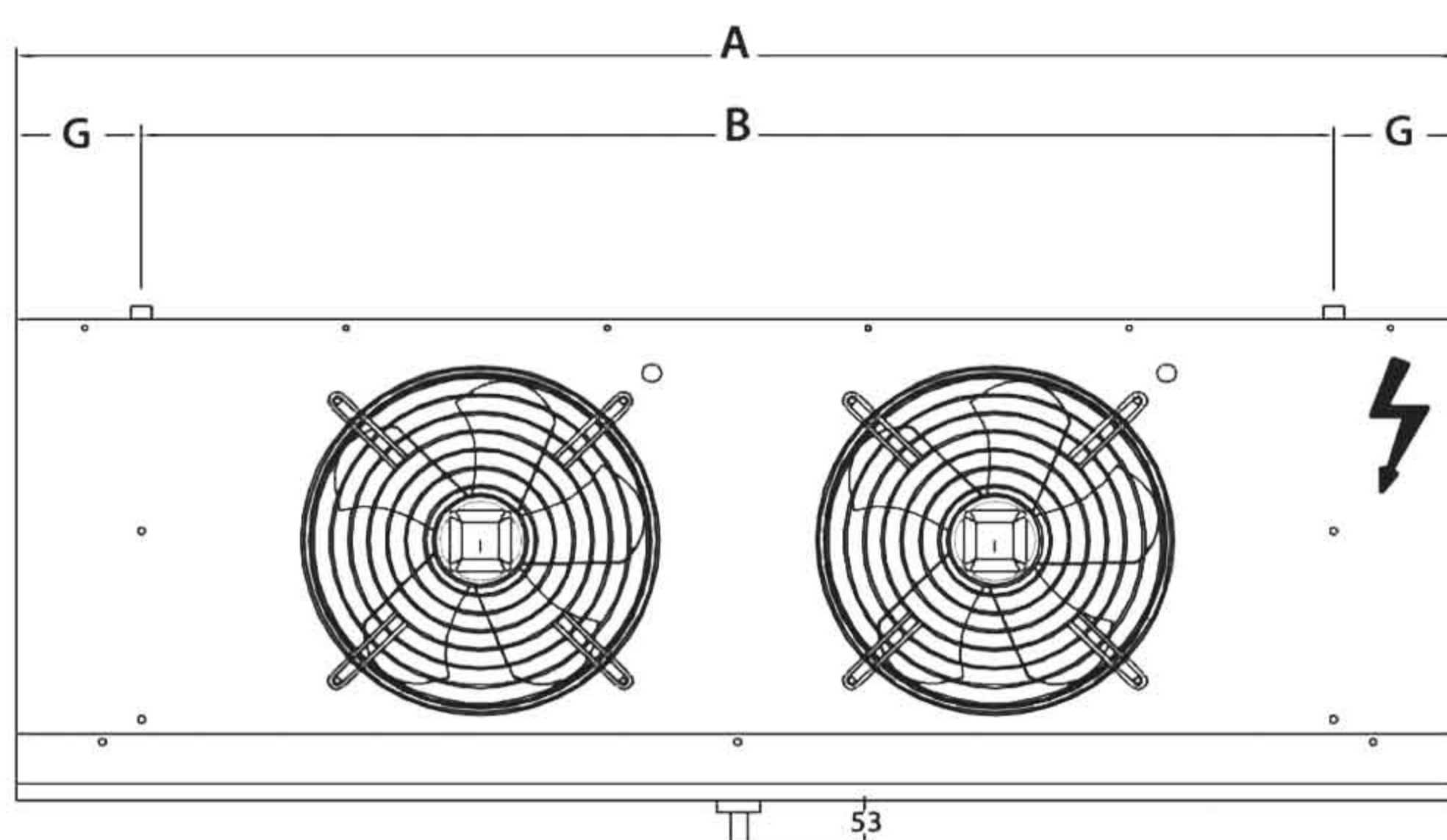
HKM 50 - 60

Heater Removal



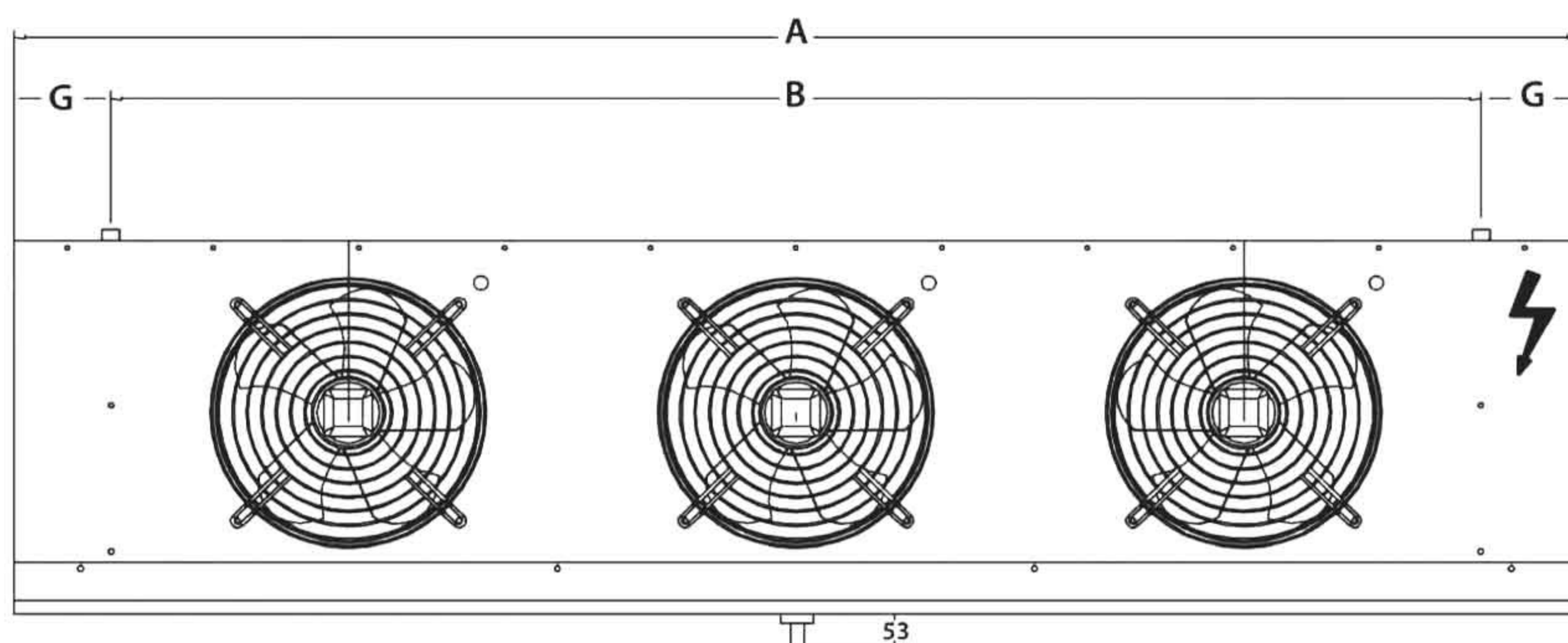
**HKM 80 - 95
HKS 35 - 40**

Heater Removal



**HKM 115 - 140
HKS 55 - 70**

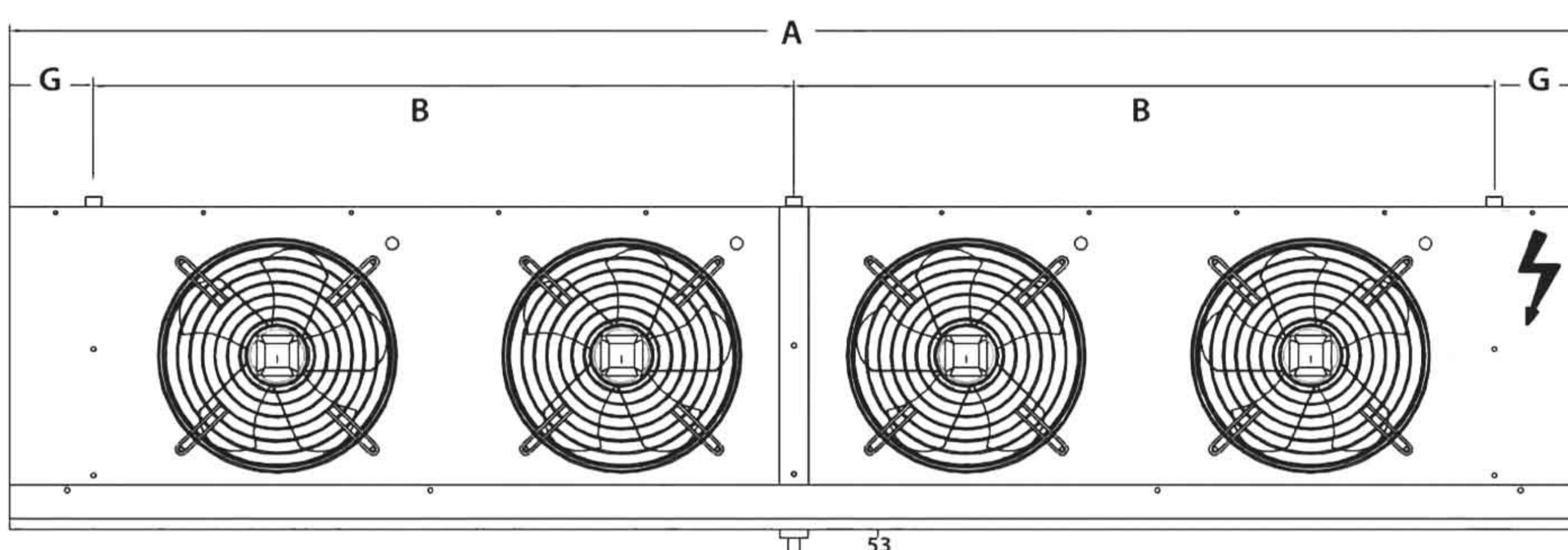
Heater Removal



HKS							
Model	A	B	C	D	E	F	G
HKS30	1170	862	600	490	506	275	140
HKS 35	1170	862	600	490	506	275	140
HKS 40	1170	862	600	490	506	275	140
HKS45	1855	1540	600	490	506	275	140
HKS 55	1855	1540	600	490	506	275	140
HKS 70	1855	1540	600	490	506	275	140

HKM 175

Heater Removal



HKM							
Model	A	B	C	D	E	F	G
HKM 50	1355	1040	510	400	645	350	145
HKM 60	1355	1040	510	400	645	350	145
KHM 80	1655	1332	600	490	651	400	145
HKM 95	1655	1332	600	490	651	450	145
HKM 115	2355	2040	600	490	651	500	145
HKM 140	2355	2040	600	490	651	500	145
HKM 175	2755	1216	600	490	651	500	145
HKM 200	2905	1216	600	490	756	500	145

HKB							
Model	A	B	C	D	E	F	G
HKB 250	1810	1500	700	490	2050	1500	145
HKB 300	2060	1750	700	490	2050	1500	145

Note: All Dimensions in mm

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