HG

مجموعة الحافظ
للتكييف والتبريد

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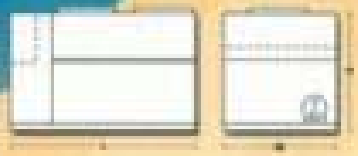
مبردات الماء الصناعية

INDUSTRIAL AIR COOLED WATER CHILLER

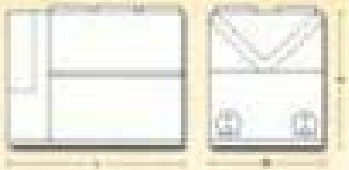
GENERAL TECHNICAL DATA

* Performance data are for Ambient temperature(35 C / 46 C) and water inlet / outlet 12 / 7 C

Model / Specification	HIC 15	HIC 20	HIC 25	HIC 30	HIC 35	HIC 40
Cooling capacity for ambient 35 C ambient 46 C	39.8 37.7	48.8 46.4	60.9 57.9	71.8 68.2	86.92 82.5	104 98.8
Capacity step	0-100	0-100	0-100	0-100	0-100	0-100
No of compressor	1	1	1	1	1	1
Nominal power input	11.51	13.23	17.0	20.5	26.17	31.0
Starting current amp	129	164	196	216	292	337
Nominal air flow m.fm	16000	16000	16000	24000	24000	32000
Nominal water flow l/m	7000	8600	10750	12600	15300	18300
Power supply	380-415 V 3/50 HZ					



H. Dm	170	148	148	148	148	148
L. Dm	100	273	273	293	293	293
W. Dm	137	147	147	137	137	137



Model / Specification	HIC 50	HIC 60	HIC 500	HIC 600	HIC 700	HIC 800	HIC 1000	HIC 1200
Cooling capacity for ambient 35 C ambient 46 C	127.2 120.8	152.1 144.5	121.8 115.6	143.6 136.4	173.8 165	208 197.6	254.3 241.6	304.2 289
Step	0-100	0-100	0-50-100	0-50-100	0-50-100	0-50-100	0-50-100	0-50-100
No of compressor	1	1	2	2	2	2	2	2
power input Kw	36.0	43.9	34	41	52.34	62	73.4	87.8
Starting current amp	440	543	196	216	292	337	440	543
Air flow m.fm	48000	48000	32000	48000	48000	64000	96000	96000
water flow l/m	22400	2670	21.48	25.2	30.6	36.6	44.8	48.3
Power supply	380-415 V 3/50 HZ							

H. Dm	170	170	181	181	181	181	181	181
L. Dm	293	293	293	293	293	293	293	293
W. Dm	137	147	147	163	163	163	163	163

*Design and specification are subject to change without price notice.

مبردات الماء للاستخدامات المنزلية والصناعية

COMPACT AIR COOLED WATER CHILLERS TYPE HAC

Technical Specifications: المواصفات الفنية:

Model		HAC 5	HAC 7	HAC 10	HAC 12	HAC 15	HAC 20	HAC 30	HAC 30
Cooling capacity	KW	14.99	22.7	29.38	38.98	45.72	58.72	77.96	92.94
Power input	KW	4.15	4.75	9.4	10.86	11.62	17.14	21.72	23.34
Compressor number		1	1	1	1	1	2	2	2
Compressor type		R	S	R	R	S	R	R	S
Capacity step	%	0-100	0-100	0-100	0-100	0-100	0-50-100	0-50-100	0-50-100
Max current	A	9.8	13	19	24.2	27.8	38	36.42	40.56
Water flow	m³/h	2.45	3.26	4.77	5.88	7.46	9.53	11.72	14.91
Air flow	m³/h	6000	6000	8000	16000	16000	16000	24000	24000
Fans number		1	1	1	2	2	2	3	3
Weight	Kg	220	250	375	450	510	525	550	620
Length	Mm	130	130	170	170	170	265	265	275
Width	Mm	80	80	120	120	120	120	120	120
Height	Mm	105	105	115	115	115	115	115	115

● **Water Temperature 7 / 12 °C**
Condensing Temperature 45 °C

H.Hermetic
S.Scroll

وحدات تكييف مجمعة
PACKAGE

Unit General Data

Model			HPC-5	HPC-8	HPC-10	HPC-12	HPC-15	HPC-20	HPC-25	HPC-30
Nominal cooling capacity at 35 C** out door temperature		Kcal/h	12500	18500	25270	30630	39000	50500	61500	76000
		Btu/h	54000	78400	100390	122890	155640	200800	244000	311700
		W	15700	22900	29400	35870	45195	58800	71500	90800
Nominal cooling capacity at 46 C*** out door temperature		Kcal/h	12000	17800	22600	27600	33100	43500	55100	70500
		Btu/h	48000	71000	90500	110500	130500	175400	219000	278600
		W	14000	20700	26300	32400	40850	52570	64100	81700
Capacity control		%	100,0*	100,0*	100,0*	100,0	100,0*	100,50,0	100, 50,0	100, 50,0
Outer Dimentions	Height	mm	175	950	1050	1300	1200	1400	1300	1500
	Width	mm	1120	1120	1120	1400	1400	1700	1700	2000
	Depth	mm	1700	1750	1900	2000	2100	2200	2420	2420
Net Weight		Kg	210	260	290	310	320	480	760	830
Compressor	HP		H	H	H	H	S	H	H	S
	Quantity		1	1	1	1	1	2	2	2
Condenser	Total face area	M^2	0.96	1.36	1.62	2.4	3.2	3.7	2.64	4.06
	Fan		Propeller Fan							
	Air flow	M^3/h	9400	10500	11000	11400	20000	21000	32000	34000
	Quantity		1	1	1	1	2	2	3	3
Evaporator	Total face area	M^2	0.42	0.57	0.71	0.99	1.02	1.65	1.5	1.79
	Fan		Multi Blade Centrifugal fan							
	Air flow	M^3/h	3400	4500	6500	8000	9000	11500	14000	18000
	Motor	Hp	1x3/4	1x1.5	1x2	2x1	2x1	2x1.5	2x2	2x3
	Quantity		1	1	1	1	1	1	1	1
Wiring Hole	Main	mm	⌀52	⌀52	⌀52	⌀52	⌀52	⌀52	⌀52	⌀52
	Control	mm	⌀22	⌀22	⌀22	⌀22	⌀22	⌀22	⌀22	⌀22

Notes :

1. The capacities are gross capacities which do not include a deduction for evaporator fan motor heat.
2. Semi-hermetic compressor may be used upon request
3. Higher capacity 3rd stage are produced upon request
4. *Also available in Two compressors (two stages).
5. The nominal cooling capacity is based on
   Evaporator Air Inlet Temperature
   27 °C DB (80- °F DB)
   19.5- °C WB(67- °F WB)

H:Hermetic
S:Scroll

Condenser Air Inlet Temperature:
**35 °C DB (95 °F DB)
***46 °C DB (115 °F DB)

وحدات معالجة الهواء
AIR HANDLING UNIT

TYPE	AIR FLOW M³/H			COIL SURFACE AREA	DIMENSIONS W×H (CM)
	AIR SPEED				
	2M/S	2.5M/S	3M/S	M²	
HAU 03	2592	3240	3888	0.36	78 - 86
HAU 04	3888	4860	5832	0.54	78 - 116
HAU 06	5184	6480	7776	0.72	78 - 146
HAU 09	7776	9720	11664	1.08	108 -146
HAU 12	10368	12960	15552	1.44	138 - 146
HAU 16	12960	16200	19440	1.80	138 -176
HAU 19	15552	19440	23328	2.16	138 - 206
HAU 24	19440	24300	29160	2.70	168 - 206
HAU 29	23328	29160	34992	3.24	198 - 206
HAU 34	27216	34020	40824	3.78	198 - 236
HAU 38	31104	38880	46656	4.32	198 - 266
HAU 45	36288	45360	54432	5.04	228 - 266
HAU 51	41472	51840	62208	5.76	258 - 266

فان كويل
FAN COIL

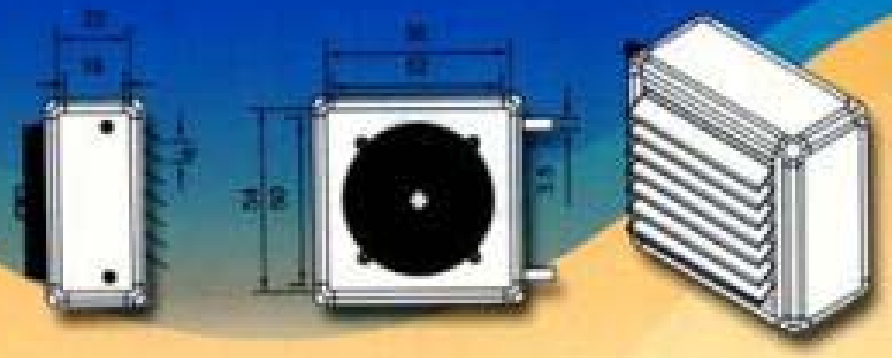
Models			300	450	600	800	1000	1250	1450	1700
Air flow	GV/HS	m^3/h	300	450	600	800	1000	1250	1450	1670
	MV/MS	m^3/h	240	360	485	620	800	980	1160	1380
	PV/LS	m^3/h	190	280	360	470	600	730	870	1000
Total cooling capacity	GV/HS	W	1589	2516	3278	4184	5343	6367	7583	8000
	MV/MS	W	1333	2104	2759	3526	4488	5448	6374	7554
	PV/LS	W	1049	1647	2179	2787	3534	4309	5032	6184
Sensible cooling capacity	GV/HS	W	1362	2169	2872	3680	4640	5507	6608	6735
	MV/MS	W	1141	1786	2357	3002	3839	4703	5473	6719
	PV/LS	W	883	1378	1843	2354	2974	3652	4248	5204
Heating capacity (3 rows)	GV/HS	W	4106	6208	8715	11534	13587	16207	19857	23813
	MV/MS	W	3373	5094	7175	9505	11182	13561	16179	19584
	PV/LS	W	2584	3917	5525	7340	8613	10471	12417	15096
Sound pressure level	GV/HS	dBA	36.0	34.0	34.0	36.0	39.0	44.0	44.0	45.0
	MV/MS	dBA	26.0	30.0	30.0	30.0	36.0	41.0	44.0	42.0
	PV/LS	dBA	23.0	23.0	25.0	25.0	29.0	32.0	32.0	33.0
Water flow (high speed)		l/s	0.076	0.120	0.157	0.200	0.255	0.304	0.362	0.447
Water flow (medium speed)		l/s	0.064	0.101	0.132	0.168	0.214	0.260	0.305	0.375
Water flow (low speed)		l/s	0.050	0.079	0.104	0.133	0.169	0.206	0.240	0.298
Water pressure drop (HS)		Kpa	12.69	34.54	9.90	17.34	30.00	8.26	12.06	20.51
Water pressure drop (MS)		Kpa	9.26	25.03	7.26	12.75	21.92	6.24	9.19	14.89
Water pressure drope (LS)		Kpa	6.01	16.10	4.75	8.35	14.29	4.08	6.00	9.75

HGAH / HGPH

HGAC / HGPC

HGAC / HGPC	Length	mm	740	810	1205.5	1350	1205.5	1350	1499	1650
	Width	mm	225	225	225	225	240	225	225	225
	Height	mm	456	456	456	456	560	556	560	560
	Weight	kg	20	17.5	21	23	26	30	50	54
HGAH / HGPH	Length	mm	510	626	917	1067	865	1067	1212	1426
	Width	mm	202	202	202	202	220	202	202	202
	Height	mm	430	430	430	430	530	530	530	530
	Weight	kg	12	15	16	17.5	21	22	41	46

الايروتيرم
AEROTHERM



Capacity Table

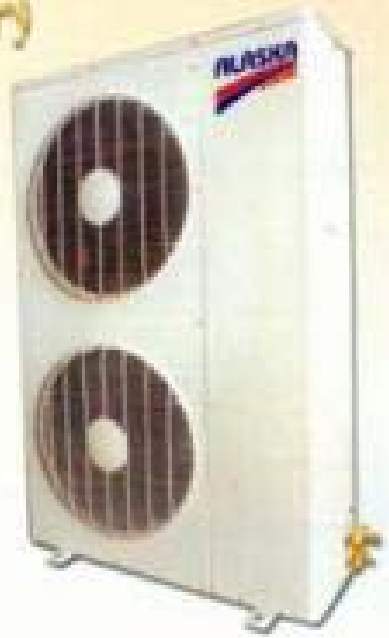
TYPE	CAPACITY Kcal/h	Rpm	Air Flow m3/h	Water Pressure Drop (m) Δp
HAT 17-2-5	16570	1400	4200	2.5
HAT 21-3-5	21200	1400	4300	2.8
HAT 20-2-3	20000	1400	4500	2.3
HAT 28-3-3	27500	1400	4500	2.6

TYPE	CAPACITY Kcal/h	Rpm	Air Flow m3/h	Water Pressure Drop (m) Δp
HAT 17-2-5	13200	900	2400	2.5
HAT 21-3-5	16700	900	2400	2.8
HAT 20-2-3	14000	900	2400	2.3
HAT 28-3-3	18700	900	2400	2.6

نحن على استعداد لتنفيذ أحجام و استطاعات مختلفة

وحدات تكييف سبليت
DUCTED SPLIT

Makes life a Luxury



Model		Indoor unit	HNME 3.2	HNME 5	HNME 7.5	HNME 10	HNME 12
		Out door	HNCD 3.2	HNCD 5	HNCD 7.5	HNCD 10	HNCD 12
Nominal cooling capacity		Kcal/h	10000	15000	23000	28.750	34150
		K.Watt	11.600	17.400	26.200	33.500	39.700
Nominal heating capacity		Kcal/h	10500	16800	19780	22300	29350
		K.Watt	12.183	19.343	22.540	27.875	36.680
Compressor Cooling power input		K.Watt	3.0	4.4	6.89	8.17	12.35
Compressor Heating power input		K.Watt	2.37	3.8	6.2	7.7	11.00
Voltage*		V~ph~Hz	380~3~50				
Refrigerant			R22				
Indoor unit	Fan Type		Centrifugal / Direct 3 Speeds				
	Air flow	M^3/h	2200	3500	5000	5500	9800
	External static pressure(mm)	M^3/h	2200/10	3500/12	5500/10	5500/10	8800/12
	Dimension	Height (mm)	230	350	480	600	600
		Width (mm)	1350	1225	1350	1150	1560
		Depth (mm)	560	750	950	950	950
	Weight	Kg	36	54	69	85	110
Outdoor unit	Compressor type		Hermetic - Reciprocation				
	Rated running current	A	4.5-5.2	7.8-8	11.8	12-14	17-20
	Fan type /drive		Axial				
	Dimension	Height (mm)	1250	1250	1450	1450	1450
		Width (mm)	860	860	1650	1650	1650
		Depth (mm)	290	290	450	450	450
	Weight	Kg	75	75	130	150	150
Connection		Liquid (inch)	1/2(Flare)	1/2(Flare)	1/2(Brazing)	1/2(Brazing)	1/2(Brazing)
Pipe size		Gaz (inch)	5/8(Flare)	3/4(Flare)	1 1/8 (Brazing)	1 1/8 (Brazing)	1 1/8 (Brazing)

Normal cooling, Heating capacities based on the condition
a) Cooling 26.7c° DB/19.4 W.B Indoor, and 35c° DB outdoor
b) Heating 21.1c° DB / 15.6 W.B Indoor, and 8.3c° DB / 6.1 W.B Outdoor

*Design and specifications are subject to change without prior notice.

أبــراج التبريد
COOLING TOWER

المواصفات الفنية

Model	Normal capacity Kcal/h (2)	Number of fans	Air flow m/h	Water flow range= 6's m/h	Weight in Kg net operating		Motor Power H.P H.P X No.
09	28.000	1	4.350	4.75	163	238	3/4 x 1
13	38.000	1	5.800	6.33	166	241	1 x 1
15	45.000	1	3.300	7.5	168	243	1 x 1
19	57.000	1	4.980	9.5	170	245	1 x 1
24	72.000	1	6.300	12	174	249	1.5 x 1
29	86.000	1	5.850	14.3	194	269	1.5 x 1
33	98.000	1	6.700	16.3	200	275	1.5 x 1
41	123.000	1	10.700	20.5	425	645	3 x 1
52	155.000	1	13.550	25.8	435	655	4 x 1
64	193.000	1	13.500	32.2	450	670	4 x 1
69	208.000	1	12.600	34.6	500	720	4 x 1
85	256.000	2	22.400	42.7	745	1.185	3 x 2
101	304.000	2	26.500	50.7	770	1.210	4 x 2
126	378.000	2	26.000	63	800	1.240	4 x 2
137	412.000	2	25.000	68.7	870	1.310	3 x 3
165	495.000	3	34.100	82.5	1.115	1.775	4 x 3
182	547.000	3	37.800	91.2	1.130	1.790	4 x 3
195	586.000	3	35.700	97.7	1.220	1.880	4 x 3
210	630.000	4	43.200	105	1.360	2.240	4 x 4
252	756.000	4	52.000	126	1.415	2.295	4 x 4
275	824.000	4	50.000	137	1.525	2.405	4 x 4
330	990.000	6	68.200	165	2.105	3.425	4 x 6
364	1.092.000	6	75.600	182	2.130	3.450	4 x 6
391	1.172.000	6	71.400	195	2.300	3.620	4 x 6
420	1.260.000	8	86.400	210	2.845	4.605	4 x 8
504	1.512.000	8	104.000	252	2.950	4.710	4 x 8
549	1.648.000	8	100.000	275	3.155	4.915	4 x 8
608	1.824.000	10	126.000	304	3.460	5.660	4 x 10
651	1.954.000	10	119.000	326	3.730	5.930	4 x 10
728	2.184.000	12	151.200	364	4.040	6.680	4 x 12
781	2.344.000	12	142.800	391	4.330	6.970	4 x 12

مبادلات حرارية
HEAT EXCHANGERS

- Evaporator coil — مبخرات
- Condeser coil — مكثفات
- Heatig & Coolig coil — وشابع ماء ساخن وبارد

Fin surface: -corrugated
-Louvered
-Flat

Material: -copper for tubes
-aluminum for fins

Fin edge: -Flat
-Rippled

Frame: -Galvanized sheet
-Aluminum

Headers: -Galvanized steel pipe (water coil)
-Copper (DX - condensing coil)

Distributers: (Capillary) -Copper

Coil form: -Flat
-L or U bend
-Round

Figure1

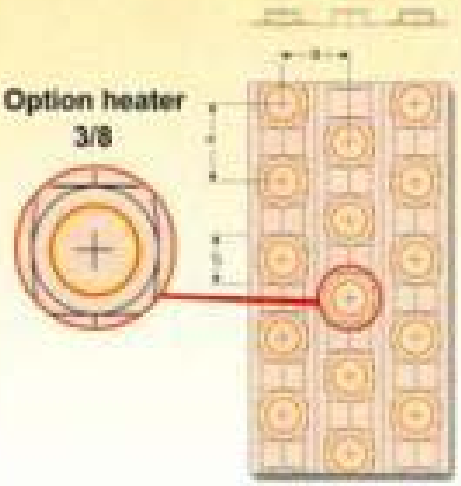
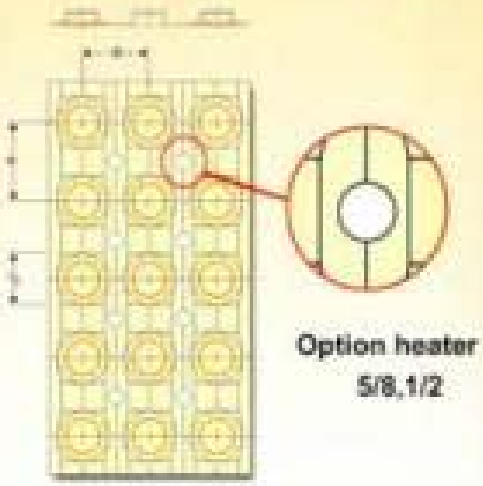


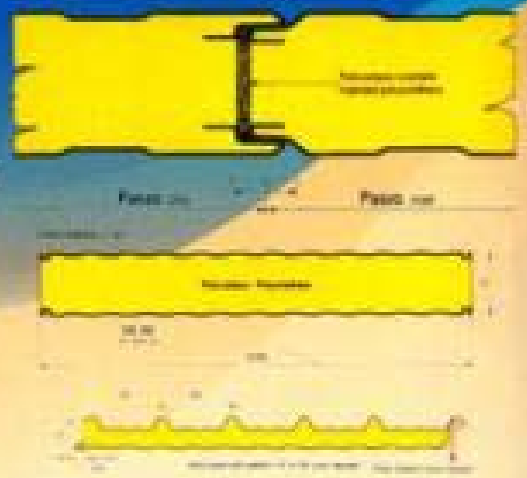
Figure2



Fin Geometry	Type of coils	Figure	Tube spacing (Long)	Row spacing (Long)	Tube OD (mm / inch)	Fin spacing F (mm)	Fin thickness (mm)
In line	7-21-25	—	25	21	17.94 - 9/16"	1.1 - 1.5 - 2.1	0.12-0.4
Staggered	10-25-22	1	25.4	22	9.52 - 3/8"	1.1 - 1.4 - 1.6 - 1.8 - 2 - 2.1 - 2.4 - 2.6 - 2.8 - 3 - 3.2 - 3.4 - 3.6 - 3.8 - 4 - 4.2 - 4.4	0.12-0.4
Staggered	10-25-21	1	25	21.5	9.52 - 3/8"	1.1 - 1.4 - 1.6 - 1.8 - 2 - 2.1 - 2.4 - 2.6 - 2.8 - 3 - 3.2 - 3.4 - 3.6 - 3.8 - 4 - 4.2 - 4.4	0.12-0.4
In line	12-30-30	1	30	30	12 - 1/2"	2 - 2.5 - 3 - 3.5 - 4 - 4.5 - 5 - 5.5 - 6 - 6.5 - 7 - 7.5 - 8	0.12-0.4
In line	14-30-30	1	30	30	14 - 9/16"	2 - 2.5 - 3 - 3.5 - 4 - 4.5 - 5 - 5.5 - 6 - 6.5 - 7 - 7.5 - 8	0.12-0.4

عوازل مسبقة الصنع

PREFABRICATED POLYURETHANE SANDWISH PANEL



Dimension:

Thickness: 40 / 50 / 60 / 100 / 120 / 140 mm
Useful Width: 1000 mm (+- 2)
overall Width: 1020 mm (+- 2)
Min. length: 2000 mm (+- 5)
Max. length: 14000 mm (+- 5)

Insulation:

Rigid polyurethane foam (PUR)
Density: 42.5 Kg/m (+-3 Kg/m)
Lambda value: 0.022 W/m K at 23 C
Classification fire - reaction foam B3
CFC - Free
Colors: White - Blue - Beige
Mechanical Charateristic:
Exterior Face: Steel 0.5 mm
Prepainted or PVCcoating (option)

Thickn.	Weight kg/m²	K Kcal/ m²hr	Ø L / 2 supports						Ø L / 4 supports					
mm	0.5+0.5	0.4+0.4	60	80	100	120	150	200	60	80	100	0.4+0.4	0.5+0.5	80
30	10.68	9.84	0.44	4.80	4.20	3.80	3.40	3.05	2.80	5.10	4.50	4.20	3.95	3.70	3.25
40	11.08	10.24	0.35	5.10	4.60	4.10	3.80	3.20	3.00	5.65	5.20	4.80	4.45	4.10	3.70
50	11.48	10.64	0.29	5.45	4.90	4.50	4.15	3.85	3.20	6.20	5.60	5.00	4.65	4.30	3.90
60	11.88	11.04	0.25	5.70	5.20	4.80	4.45	4.05	3.50	6.50	6.00	5.30	4.95	4.70	4.20
80	12.68	11.48	0.19	5.85	5.35	4.95	4.60	4.20	3.70	6.60	6.15	5.45	5.10	4.85	4.50
100	13.48	12.64	0.16	5.95	5.50	5.10	4.75	4.30	3.75	6.70	6.20	5.50	5.20	5.05	4.75

أبواب غرف التبريد

DOORS FOR COLDSTORAGE ROOMS

مواصفات عامة لأبواب غرف التبريد

تتألف أبواب غرف التبريد من العناصر الرئيسية التالية:

١- الإطار الخارجي للجسم الثابت "الخارجي":

يتكون الإطار الخارجي الثابت للباب من بروفيل من الحديد بسماكة مناسبة ملحوما بشكل أنيق لإعطاء الهيكل شكل ثابت و منعه من الفلاش أثناء فتح وإغلاق الباب. محيطه بالإطار البلاستيكي المصنع من بروفيلات خاصة، والإطار البلاستيكي الداخلي مدعم ببروفيلات معدنية إضافية لتثبيت الجزء الثابت من المفصلات والمسكة.

٢- الجسم المتحرك:

الإطار الخارجي للباب المتحرك مصنع من بروفيل بلاستيكي من مواد مسحوبة ومدعم ببروفيلات معدنية داخلية لإعطاء متانة قصوى عند تثبيت الجزء المتحرك للمفصلات والمسكة. أما الوجه الخارجي والداخلي من الصاج المدهون بدهان حراري أكتروستاتيكي بسماكة ٨ ذرايم ومحقون بمادة الفوم الألماني **Bayer** بكثافة "٣٢-٤٠ كغ/م٣" بسماكة "٩ سم" لغرف الصغر وسماكة "١٠ سم" لغرف تحت الصفر.

٣- الجوان:

يثبت على إطار الجسم المتحرك جوان مزدوج على الجوانب خاص لغرف التبريد بسماكة كافية مصنع من مواد وهي مواد غير قابلة للتشقق في درجات الحرارة المنخفضة.

٤- مفصلات:

أبواب غرف التبريد مجهزة بمفصلات قوائم بواسطة أذرع من المعادن وتصنع من مادة الزنك "٣" مطلية بطبقة كروم.

٥- مسكة الباب:

وتصنع من نفس مواد المفصلة وتتألف من ثلاثة أجزاء رئيسية:

أ- الجسم الثابت على الباب المتحرك.

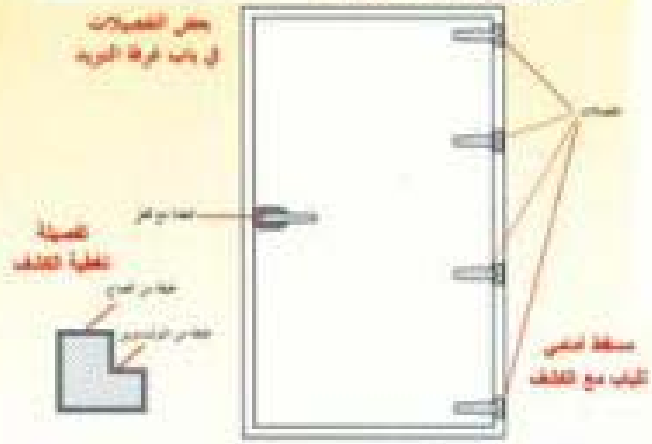
ب- القفل الثابت الذي يركب على الجسم الثابت من الباب.

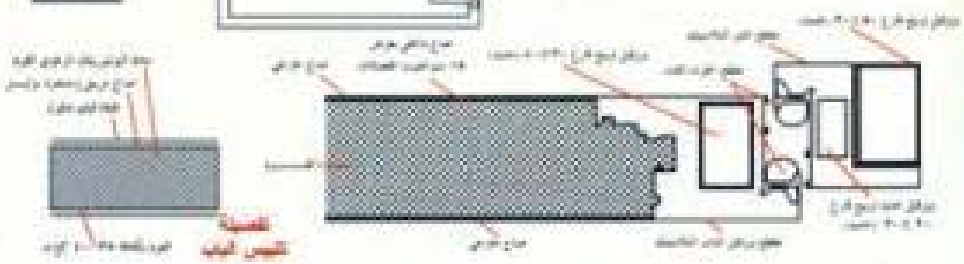
ج- الغطاء الداخلي: في إغلاق الباب على الشخص المتواجد ضمن الغرفة يمكن فتح الباب بواسطة هذا الغطاء.

د- يمكن تركيب قفل خارجي للمسكة ضمن مكان مخصص فيها.

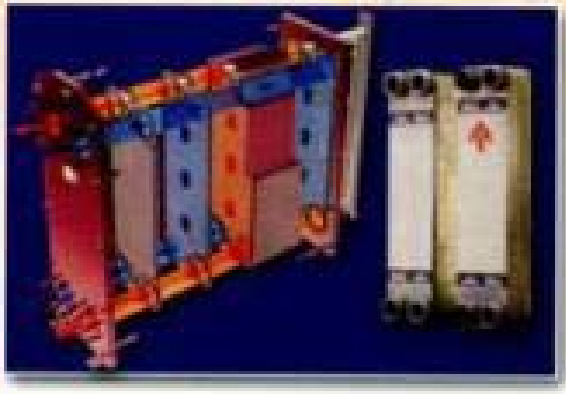
٦- قرن غرف التجميد:

تزود الأبواب بسخانات خاصة





قطع تبديلية
SPARE PARTS



المبخرات

HKS & HKM Unit Coolers

1.1 - 26.5 KW

SPECIFICATION HKS

MODEL	CAPACITY (Dew Point Evap. Temp. -8°C)						AIR VOLUME		COIL DATA						
	R22		R134a		R404a				TOTAL SURFACE				CONNECTIONS		
	kW	kcal/h	kW	kcal/h	kW	kcal/h									
	BtU/h	CFM	BtU/h	CFM	BtU/h	CFM	cfm	m³/h	ft²	m²	fin spacing mm	net charge kg	INLET	OUTLET	approx. dry weight kg
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

MODEL	FAN AND MOTOR SPECIFICATIONS											ELECTRIC DEFROST 400V 3ph		
	No. of Fans	DIAMETER mm		rpm	AIR THROW m	Noise Level dB(A)	Motor Size kW	(1) Total Power Input W	F.L.C. Amps Per Fan	SC Amps Per Fan	(1) Total Power Input W	F.L.C. Amps Per Fan	SC Amps Per Fan	Coil Elt. Defrost No. X kW	Drain Elt. Defrost No. X kW	Total kW
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SPECIFICATION HKM

MODEL	CAPACITY (Dew Point Evap. Temp. -8°C)						AIR VOLUME		COIL DATA						
	R22		R134a		R404a				TOTAL SURFACE				CONNECTIONS		
	kW	kcal/h	kW	kcal/h	kW	kcal/h									
	BtU/h	CFM	BtU/h	CFM	BtU/h	CFM	cfm	m³/h	ft²	m²	fin spacing mm	net charge kg	INLET	OUTLET	approx. dry weight kg
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

MODEL	FAN AND MOTOR SPECIFICATIONS											ELECTRIC DEFROST 400V 3ph		
	No. of Fans	DIAMETER mm		rpm	AIR THROW m	Noise Level dB(A)	Motor Size kW	(1) Total Power Input W	F.L.C. Amps Per Fan	SC Amps Per Fan	(1) Total Power Input W	F.L.C. Amps Per Fan	SC Amps Per Fan	Coil Elt. Defrost No. X kW	Drain Elt. Defrost No. X kW	Total kW
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]