



CHILLER CATALOG



ICE MAN

INDUSTRIAL GROUP MANUFACTURER OF
AIR CONDITIONING SYSTEMS



MY GOOD LIFE



ICE MAN

INDUSTRIAL GROUP MANUFACTURER OF
AIR CONDITIONING SYSTEMS

SYSTEM	AIR COOLED												
MODEL		IM-CH-3			IM-CH-4			IM-CH-5			IM-CH-6		
COOLING CAPACITY NOMINAL	KW	11.8			14.3			17.6			21.1		
AMBIENT TEMPERATURE	°F	95	107	122	95	107	122	95	107	122	95	107	122
TYPE OF REFRIGERANT GAS R22-A	KW	11.8	11.3	10.2	14.2	13.7	12.4	17.5	16.8	15.1	21.1	20.2	18.4
TYPE OF REFRIGERANT GAS R134 a-A	KW	7.84	7.49	6.77	9.57	9.11	8.13	10.8	11.7	10.5	14.7	13.9	12.4
TYPE OF REFRIGERANT GAS R410 a-A	KW	11	10.4	9.1	16.6	15.5	13.7	19.1	18.1	15.9	21.7	19.4	18.2
COMPRESSOR DATA		SCROLL											
NUMBER OF COMPRESSOR / CIRCUITS		1&1			1&1			1&1			1&1		
COMPRESSOR E.E.R		2.9			3.1			3.1			3.1		
COMPRESSOR cop		5.38	4.26	3.24	5.79	4.69	3.63	5.73	4.71	3.71	5.95	5.19	3.84
POWER	KW	1.92	2.28	2.74	2.42	2.85	3.39	3.03	3.34	4.05	3.55	3.9	4.78
CURRENT AT 400 V-A	A	3.93			5.2			6.71			6.74		
EVAPORATOR DATA	TYPE	SHELL& TUBE AND BRAZED PLAT HET EXCHANGER											
NUMBER OF EVAPORATORS		1*1			1*1			1*1			1*1		
MINIMUM FLOW RATE	GPM	7.2			9.6			12			14.4		
PRESSURE DROPS (EVAPO+VALA+PIP)	Kpa	≤20			≤20			≤20			≤20		
CONNECTIONS INLET AND OUTLET	IN	1"			1 1/4"			1 1/4"			1 1/2"		
FAN CONDENSER		EBM-ZILABEG-DAMANDEH											
Number		1			1			1			1		
AIR FLOW	m³ /h	4270			5840			7395			10285		
FAN SPEED	rpm	900			900			1300			920		
POWER/CURRENT	KW/A	0.15/0.4			0.21/0.55			0.414/0.85			0.5/1.4		
SOUND PRESSURE	DbA	61			66			68			67		
VOLTAGE	V	220/380			380								
ELECTRICAL		V-PH-HZ											
POWER SUPPLY		380/3/50											
TOTAL CONSUMPTION - KW & A	KW/A	2.07 & 4.33			2.63 & 5.75			3.44 & 7.56			4.05 & 8.14		
DIMENSION													
LENGTH	cm	80			90			100			110		
WIDTH	cm	80			90			100			110		
HEIGHT	cm	140			140			140			140		
TRANSPORT WEIGHT	kg	120			215			260			320		

SYSTEM	AIR COOLED												
MODEL		IM-CH-7			IM-CH-10			IM-CH-15			IM-CH-20		
COOLING CAPACITY NOMINAL	KW	28.13			35.16			58			75		
AMBIENT TEMPERATURE	°F	95	107	122	95	107	122	95	107	122	95	107	122
TYPE OF REFRIGERANT GAS R22-A	KW	28	26.9	24.4	36.9	35.4	32.3	56	53.8	48.8	73.8	70.8	64.3
TYPE OF REFRIGERANT GAS R134 a-A	KW	18.8	17.9	16.5	25.1	24	21.6	37.5	35.8	33	50.2	48	43.2
TYPE OF REFRIGERANT GAS R410 a-A	KW	27.3	25.9	22.9	37.3	35.5	31.6	54.6	51.8	45.8	70.5	65.2	63.2
COMPRESSOR DATA		SCROLL											
NUMBER OF COMPRESSOR / CIRCUITS		1&1			2&2			2&2			2&2		
COMPRESSOR E.E.R		3.2			3.2			3.3			3.3		
COMPRESSOR cop		6.2	5.39	3.98	5.77	4.35	3.73	6.2	5.39	3.98	6.23	5.39	3.98
POWER	KW	4.52	4.99	5.52	6.06	6.7	8.1	9	10	11	11.8	13.1	16.3
CURRENT AT 400 V-A	A	9.28			13.42			18.56			23.84		
EVAPORATOR DATA	TYPE	SHELL &TUBE AND BRAZED PLAT HET EXCHANGER											
NUMBER OF EVAPORATORS		1*1			1*2			1*2			1*2		
MINIMUM FLOW RATE	GPM	16.8			24			36			44		
PRESSURE DROPS (EVAPO+VALA+PIP)	Kpa	≤30			≤30			≤30			≤30		
CONNECTIONS INLET AND OUTLET	IN	1 1/2"			2"			2"			2"		
FAN CONDENSER		EBM-ZILABEG-DAMANDEH											
Number		2			2			2			4		
AIR FLOW	m³/h	10285			14790			23570			29580		
FAN SPEED	rpm	920			1300			900			1300		
POWER/CURRENT	KW/A	0.5/1.4			0.828/1.7			1.1/2.9			1.66/3.4		
SOUND PRESSURE	DbA	68			68			69			69		
VOLTAGE	V	380			380			380			380		
ELECTRICAL		V-PH-HZ											
POWER SUPPLY		380/3/50											
TOTAL CONSUMPTION - KW & A	KW/A	5.2 & 10.68			6.9 & 15.12			10.1 & 21.46			13.4 & 27.24		
DIMENSION													
LENGTH	cm	140			170			210			240		
WIDTH	cm	130			140			170			140		
HEIGHT	cm	135			135			140			140		
TRANSPORT WEIGHT	kg	350			400			600			800		

SYSTEM	AIR COOLED													
MODEL		IM-CH-24			IM-CH-30			IM-CH-40			IM-CH-50			
COOLING CAPACITY NOMINAL	KW	84.6			112			146			182			
AMBIENT TEMPERATURE	°F	95	107	122	95	107	122	95	107	122	95	107	122	
TYPE OF REFRIGERANT GAS R22-A	KW	84.6	77.6	73.6	110	100	95	142	130	124	177	170	155	
TYPE OF REFRIGERANT GAS R134 a-A	KW	57.1	54.8	49.2	75	71.6	64.4	95.6	91.4	82.4	119	114	103	
TYPE OF REFRIGERANT GAS R410 a-A	KW	89.6	85.2	75.1	110	105	92.6	176	168	150	176	168	150	
COMPRESSOR DATA		COPELAND SCROLL												
NUMBER OF COMPRESSOR / CIRCUITS		2&2			2&2			2&2			2&2			
COMPRESSOR E.E.R		2.9			3.1			3.2			3.3			
COMPRESSOR cop		6.23	4.64	3.97	5.9	5.16	3.83	5.85	4.5	3.84	5.89	5.15	3.83	
POWER	KW	11.8	13.1	16.3	18.5	22.4	24.8	24.3	29.2	32.4	30.8	33	40.4	
CURRENT AT 400 V-A	A	23.84			39.8			44.48			58.3			
EVAPORATOR DATA	TYPE	SHELL &TUBE AND					BRAZED PLAT HET EXCHANGER					SHELL& TUBE		
NUMBER OF EVAPORATORS		1*2			1*2			1*2			1*2			
MINIMUM FLOW RATE	GPM	58			74			96			120			
PRESSURE DROPS (EVAPO+VALA+PIP)	Kpa	≤40			≤50			≤50			≤50			
CONNECTIONS INLET AND OUTLET	IN	2 ”			2 1/2”			2 1/2”			2 1/2”			
FAN CONDENSER		EBM-ZILABEG-DAMANDEH												
Number		4			4			4			6			
AIR FLOW	m³ /h	41140			44000			60480			74520			
FAN SPEED	rpm	920			1360			900			1320			
POWER/CURRENT	KW/A	2 /5.6			3.12/6.28			3.6/7.6			4.8/9.6			
SOUND PRESSURE	DbA	68			70			71			71			
VOLTAGE	V	380			380			380			380			
ELECTRICAL		V-PH-HZ												
POWER SUPPLY		380/3/50												
TOTAL CONSUMPTION - KW & A	KW	13.82/29.44			21.62/46			30.3/52.4			35.1/67.9			
DIMENSION														
LENGTH	cm	220			2900			3400			4100			
WIDTH	cm	190			190			190			190			
HEIGHT	cm	200			200			200			200			
TRANSPORT WEIGHT	kg	960			1200			1520			1650			

SYSTEM	AIR COOLED												
MODEL		IM-CH-60			IM-CH-70			IM-CH-80			IM-CH-90		
COOLING CAPACITY NOMINAL	KW	223			246			282			310		
AMBIENT TEMPERATURE	°F	95	107	122	95	107	122	95	107	122	95	107	122
TYPE OF REFRIGERANT GAS R22-A	KW	215	200	191	219	202	183	283	272	248	306	283	256
TYPE OF REFRIGERANT GAS R134 a-A	KW	148	141	127	150	137	123	191	183	165	212	195	176
TYPE OF REFRIGERANT GAS R410 a-A	KW	234	222	196				274	270	241			
COMPRESSOR DATA		SCROLL			SCREW			SCROLL			SCREW		
NUMBER OF COMPRESSOR / CIRCUITS		2&2			2&2			4&2			2&2		
COMPRESSOR E.E.R		3.2			5.01			3.3			3.4		
COMPRESSOR cop		3.87	5.11	5.11	5.01	4.8	3.2	5.82	5.09	3.84	5.73	4.54	3.43
POWER	KW	37	40.6	49.2	42	47.2	54	48.6	53.4	64.8	59	66	75.2
CURRENT AT 400 V-A	A	68.86			66.4			89			87		
EVAPORATOR DATA	TYPE	SHELL& TUBE											
NUMBER OF EVAPORATORS		1*2			1*2			1*2			1*2		
MINIMUM FLOW RATE	GPM	144			168			192			216		
PRESSURE DROPS (EVAPO+VALA+PIP)	Kpa	≤50			≤50			≤50			≤70		
CONNECTIONS INLET AND OUTLET	IN	3"			3"			3"			4"		
FAN CONDENSER		EBM-ZILABEG-DAMANDEH											
Number		6			6			6			8		
AIR FLOW	m³ /h	90720			105810			124170			141080		
FAN SPEED	rpm	900			920			920			770		
POWER/CURRENT	KW/A	3.6/7.6			5.58/9.9			7.2/17.1			7.44/13.2		
SOUND PRESSURE	DbA	70			72			74			74		
VOLTAGE	V	380			380			380			380		
ELECTRICAL		V-PH-HZ											
POWER SUPPLY		380/3/50											
TOTAL CONSUMPTION - KW & A		40.7/76.46			55.68/70.9			55.4/106.1			66.5/100.2		
DIMENSION													
LENGTH	cm	450			520			580			640		
WIDTH	cm	230			230			230			230		
HEIGHT	cm	220			220			220			220		
TRANSPORT WEIGHT	kg	2040			2380			2720			3150		

SYSTEM		AIR COOLED											
MODEL		IM-CH-100			IM-CH-120			IM-CH-140			IM-CH-160		
COOLING CAPACITY NOMINAL	KW	354			430			492			578		
AMBIENT TEMPERATURE	°F	95	107	122	95	107	122	95	107	122	95	107	122
TYPE OF REFRIGERANT GAS R22-A	KW	354	344	310	430	416	382	484	444	394	574	522	478
TYPE OF REFRIGERANT GAS R134 a-A	KW	238	227	205	295	282	254	327	308	273	383	352	315
TYPE OF REFRIGERANT GAS R410 a-A	KW	352	337	301	468	444	393						
COMPRESSOR DATA		SCROLL						SCREW					
NUMBER OF COMPRESSOR / CIRCUITS		4*2			4*2			2*2			2*2		
COMPRESSOR E.E.R		3.4			3.4			4.93			5.1		
COMPRESSOR cop		5.9	5.15	3.83	5.81	5.11	3.87	4.93	4.05	3.13	5.1	4.24	3.29
POWER	KW	60.2	66	80.8	74	81.2	98	98	110	126	111	125	145
CURRENT AT 400 V-A	A	117			141			168			184.6		
EVAPORATOR DATA		SHELL& TUBE											
NUMBER OF EVAPORATORS		1*2			1*2			1*2			1*2		
MINIMUM FLOW RATE	GPM	240			288			336			384		
PRESSURE DROPS (EVAPO+VALA+PIP)	Kpa	≤70			≤100			≤100			≤100		
CONNECTIONS INLET AND OUTLET	IN	4"			4"			4"			5"		
FAN CONDENSER		EBM-ZILABEG-DAMANDEH											
Number		8			10			10			12		
AIR FLOW	m³ /h	141080			176350			206950			248340		
FAN SPEED	rpm	770			770			920			920		
POWER/CURRENT	KW/A	7.44/13.2			9.300/16			1.2/28.5			14.4/34.2		
SOUND PRESSURE	DbA	74			74			74			74		
VOLTAGE	V	380			380			380			380		
ELECTRICAL		V-PH-HZ											
POWER SUPPLY		380/3/50											
TOTAL CONSUMPTION - KW & A	KW	68/130			83.3/153			110/196.5			125/218.8		
DIMENSION													
LENGTH	cm	500			500			500			500		
WIDTH	cm	205			240			275			310		
HEIGHT	cm	250			250			250			250		
TRANSPORT WEIGHT	kg	3100			3840			4340			5120		

SYSTEM		AIR COOLED											
MODEL		IM-CH-180			IM-CH-200			IM-CH-220			IM-CH-260		
COOLING CAPACITY NOMINAL	KW	633			703			798			914		
AMBIENT TEMPERATURE	°F	95	107	122	95	107	122	95	107	122	95	107	122
TYPE OF REFRIGERANT GAS R22-A	KW	645	634	572	640	591	530	714	728	648	908	850	772
TYPE OF REFRIGERANT GAS R134 a-A	KW	443	423	382	442	408	367	540	50	448	624	576	518
TYPE OF REFRIGERANT GAS R410 a-A	KW	708	672	593									
COMPRESSOR DATA		SCROLL			SCREW								
NUMBER OF COMPRESSOR / CIRCUITS		2*2			2*2			2*2			2*2		
COMPRESSOR E.E.R		3.8			3.8			4.96			4.7		
COMPRESSOR cop		5.81	5.11	3.87	4.84	4.09	3.24	4.96	4.19	3.25	4.7	4	3.2
POWER	KW	112	122	148	132	144	164	160	174	200	193	212	241
CURRINT AT 400 V-A	A	207			217			273			324.8		
EVAPORATOR DATA		TYPE SHELL TUBE AND BRAZED PLAT HET EXCHANGER											
NUMBER OF EVAPORATORS		1*2			1*2			1*2			1*2		
MINIMUM FLOW RATE	GPM	435			480			528			624		
PRESSURE DROPS (EVAPO+VALA+PIP)	Kpa	≤100			≤100			≤100			≤100		
CONNECTIONS INLET AND OUTLET	IN	5"			5"			5"			5"		
FAN CONDENSER		EBM-ZILABEG-DAMANDEH											
Number		16			16			16			16		
AIR FLOW	m³/h	289730			311220			331120			390000		
FAN SPEED	rpm	920			920			920			910		
POWER/CURRENT	W/A	16.8/40			19.2/45.6			19.2/45.6			25.28		
SOUND PRESSURE	DbA	74			74			74			72		
VOLTAGE	V	380			380			380			380		
ELECTRICAL		V-PH-HZ											
POWER SUPPLY		380/3/50											
TOTAL CONSUMPTION - KW & A		128.8/247			151.2/262.6			179/318			218.5/380		
DIMENSION													
LENGTH	cm	500			500			500			500		
WIDTH	cm	345			385			420			490		
HEIGHT	cm	250			250			250			250		
TRANSPORT WEIGHT	kg	5760			6200			6820			8320		

SYSTEM	AIR COOLED												
MODEL		IM-CH-300			IM-CH-340			IM-CH-400			IM-CH-460		
COOLING CAPACITY NOMINAL	KW	1022			1190			1410			1660		
AMBIENT TEMPERATURE	°F	95	107	122	95	107	122	95	107	122	95	107	122
TYPE OF REFRIGERANT GAS R22-A	KW	1022	956	868	1188	1112	1012	1406	1312	1194	1626	1506	1366
TYPE OF REFRIGERANT GAS R134 a-A	KW	680	626	564	790	730	656	926	856	768	1064	988	888
TYPE OF REFRIGERANT GAS R410 a-A													
COMPRESSOR DATA		SCREW											
NUMBER OF COMPRESSOR / CIRCUITS		2*2			2*2			2*2			2*2		
COMPRESSOR E.E.R		4.9			5.9			5.14			5.23		
COMPRESSOR cop		4.9	4.19	3.25	5.07	4.29	3.43	5.14	1312	1194	5.23	4.48	3.06
POWER	KW	160	174	200	234	259	295	274	299	339	305	337	379
CURRENT AT 400 V-A	A	273			404			456			504		
EVAPORATOR DATA	TYPE	SHELL TUBE AND BRAZED PLAT HET EXCHANGER											
NUMBER OF EVAPORATORS		1*2			1*2			1*2			1*2		
MINIMUM FLOW RATE	GPM	696			8160			960			1010		
PRESSURE DROPS (EVAPO+VALA+PIP)	Kpa	≤100			≤100			≤100			≤100		
CONNECTIONS INLET AND OUTLET	IN	6"			6"			6"			6"		
FAN CONDENSER		EBM-ZILABEG											
Number		24			24			24			24		
AIR FLOW	m³ /h	435000			515000			600000			690000		
FAN SPEED	rpm	910			910			685			685		
POWER/CURRENT	W/A	28.44/61.92			30.96/64.8			19/51.4			20.9/56.54		
SOUND PRESSURE	DbA	72			73			68			68		
VOLTAGE	V	380			380			380			380		
ELECTRICAL		V-PH-HZ											
POWER SUPPLY		380/3/50											
TOTAL CONSUMPTION - KW & A	KW	233.44/403			265/468			292.5/508			326/560		
DIMENSION													
LENGTH	cm	950			950			950			950		
WIDTH	cm	285			330			385			440		
HEIGHT	cm	250			250			250			250		
TRANSPORT WEIGHT	kg	9280			10540			12400			14720		

SYSTEM	AIR COOLED												
MODEL		IM-CH-520			IM-CH-650			IM-CH700			IM-CH800		
COOLING CAPACITY NOMINAL	KW	1830			2290			2461			2814		
AMBIENT TEMPERATURE	°F	95	107	122	95	107	122	95	107	122	95	107	122
TYPE OF REFRIGERANT GAS R22-A	KW	1820	1712	1574	2284	2114	1912	2424	2256	2048	2812	2624	2388
TYPE OF REFRIGERANT GAS R134 a-A	KW	1218	1130	1022	1524	1412	1276	1596	1472	1320	1852	1712	1536
TYPE OF REFRIGERANT GAS R410 a-A													
COMPRESSOR DATA		SCREW											
NUMBER OF COMPRESSOR / CIRCUITS		2*2			2*2			4*2			4*2		
COMPRESSOR E.E.R		5.72			5.26			5.08			5.14		
COMPRESSOR cop		5.72	4.47	3.62	5.26	4.44	3.56	5.08	4.34	3.45	5.14	4.39	3.15
POWER	KW	345	383	436	434	474	538	477	820	593	547	598	677
CURRENT AT 400 V-A	A	572			716			771			912		
EVAPORATOR DATA	TYPE	SHELL TUBE AND BRAZED PLAT HET EXCHANGER											
NUMBER OF EVAPORATORS		1*2			1*2			1*2			1*2		
MINIMUM FLOW RATE	GPM	1200			1560			1680			1920		
PRESSURE DROPS (EVAPO+VALA+PIP)	Kpa	≤100			≤100			≤100			≤100		
CONNECTIONS INLET AND OUTLET	IN	8”			8”			8”			10”		
FAN CONDENSER		EBM											
Number		24			32			34			38		
AIR FLOW	m³ /h	690000			780000			105000			1200000		
FAN SPEED	rpm	685			915			675			675		
POWER/CURRENT	W/A	22.8/61.7			6.15/140			32.3/87			36.1/98		
SOUND PRESSURE	DbA							68			68		
VOLTAGE	V	380			380			380			380		
ELECTRICAL		V-PH-HZ											
POWER SUPPLY		380/3/50											
TOTAL CONSUMPTION - KW & A		377/580			696/856			509/858			583/1010		
DIMENSION													
LENGTH	cm	950			950			950			950		
WIDTH	cm	490			600			650			750		
HEIGHT	cm	250			250			250			250		
TRANSPORT WEIGHT	kg	15600			19500			21000			24000		

با توجه به نوآوری و طراحی ای جدید، امکان دارد برخی از مشخصات دستگاه تغییر کند.

UNILAB, EMERSON SELECT8, BITZER, SOLID WORKS تمامی محاسبات و طراحی ها براساس نرم افزارهای پیشرفته مانند

جداول براساس شرایط دمایی 35, 42, 50 درجه سانتی گراد (95, 107, 122 درجه فارنهایت) می باشد.

گازهای مورد استفاده R22, R134a, R407c, R410a

ضریب رسوب آب در اواپراتور $0.018 \text{ m}^2 \cdot ^\circ\text{C} / \text{kw}$ ($0.0001 \text{ h} \cdot \text{ft}^2 \cdot ^\circ\text{F} / \text{btu}$)

تمامی داده ها براساس استاندارد ASHRAE محاسبه شده است

کمپرسورها از برندهای برتر دنیا نظیر کپلند و بیتزر میباشد

استفاده از لوله های اینرگرو در تمامی بخشهای کندانسور و اواپراتور (INNER GROOVED)

استفاده از اواپراتورهای DX یا FLODDDED

کندانسورها دارای فین های موجدار، صاف و لبه دار با آرایش 12 تا 16 فین بر اینچ با ضخامت 150 میکرون و از جنس آلومینیوم ساده، بلوفین، گلدفین

کندانسور دارای سایز لوله های $3/8''$ thickness of 0.8 mm

فن ها از برترین برندهای دنیا شامل EBM, ROSENBERG and ZILABEG

قطعات سیکل تبرید از برترین برندهای دنیا شامل DANFOSS, CASTLE, WIKA

قطعات تابلو برق از برترین برندهای دنیا شامل SIEMENS, SCHNEIDER, LS

دستگاه ها مجهز به HMI, REMOTE CONTROL, PLC با امکان نصب اینورتر

Please note the following

The ICE MAN team will provide you with all the devices mentioned in the tables according to the following points :

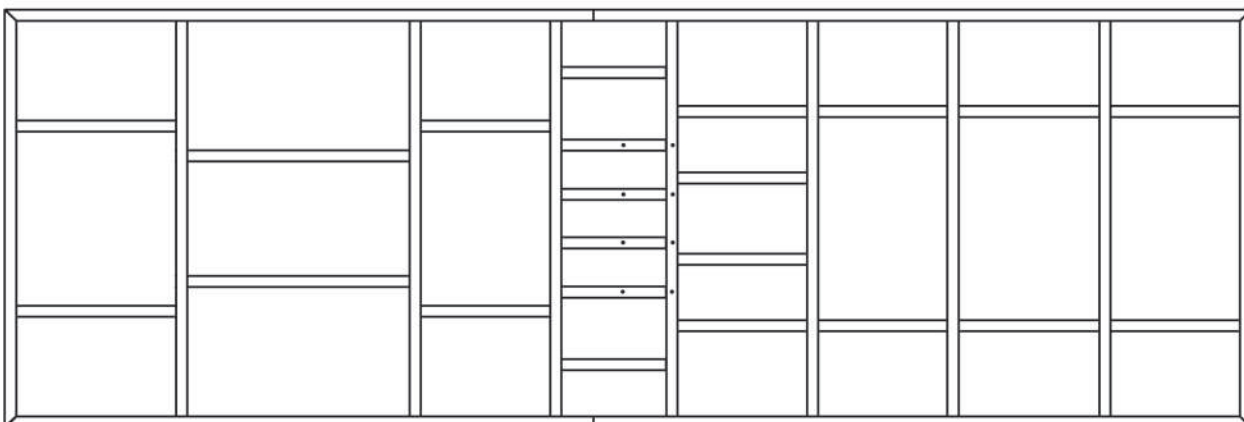
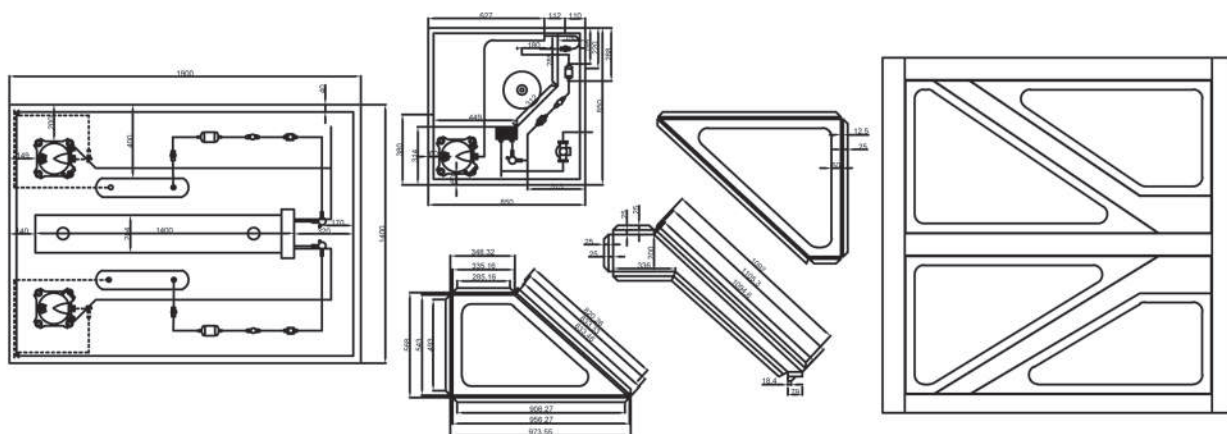
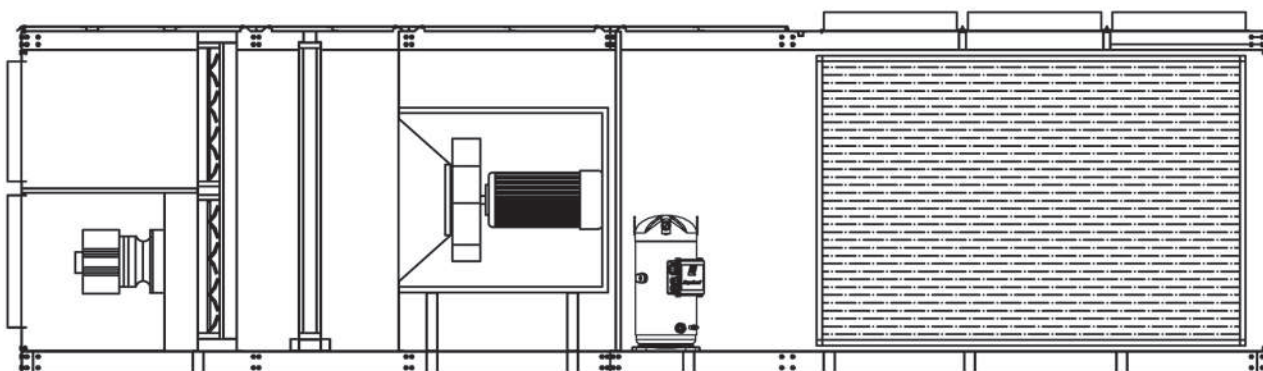
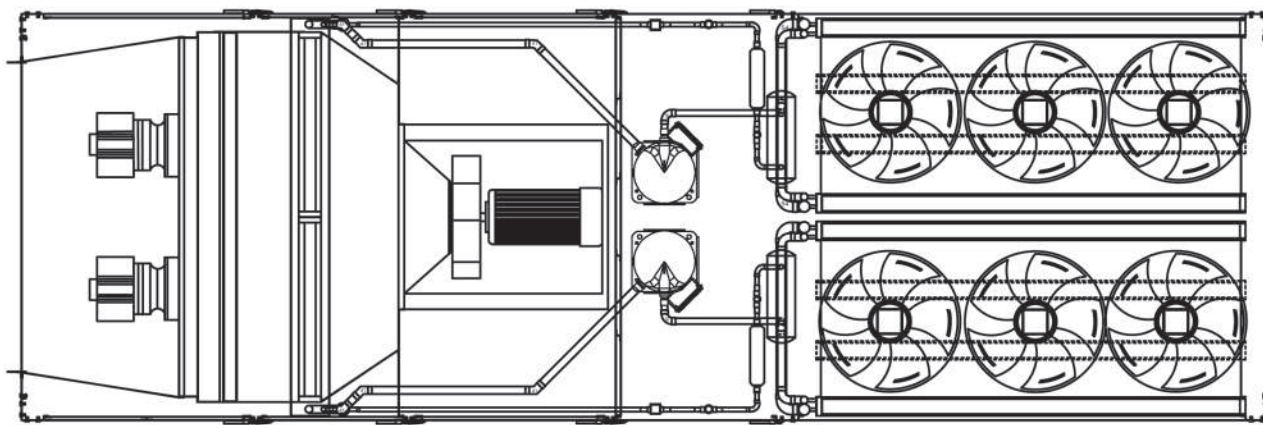
- Depending on our innovation strategy and policy , some specification may change without notice .
- All calculations and design based on modern software including UNILAB, EMERSON SELECT8, BITZER, SOLID WORKS.
- Tables are based on temperature conditions of 35, 42 and 50 degrees Celsius (95,107,122 degrees Fahrenheit) with gases R22,R134a, R407c, R410a.
- Water deposition coefficient in the evaporator $0.018 \text{ m}^2 \cdot ^\circ\text{C} / \text{kw}$ ($0.0001 \text{ h} \cdot \text{ft}^2 \cdot ^\circ\text{F} / \text{btu}$).
- All data is calculated according to ASHRAE standards.
- All compressors from the world's top brands such as Copeland & Bitzer.
- Use innergrooved pipes in all condensers and operators.
- Use DX or FLODDDED evaporators.
- Condensers have wavy, smooth and edged fins with an arrangement of 12 to 16 fins per inch with a thickness of 150 microns made of aluminum fin , blue fin or gold fin and It has internal innerGrooved pipes .
- The condenser has a pipe size of $3/8''$ with a thickness of 0.8 mm.
- Fans from the top brands in the market, including EBM, ROSENBERG and ZILABEG.
- Refrigeration cycle parts from the best market brand DANFOSS, CASTLE, WIKA.
- Electrical switchboard parts SIEMENS, SCHNEIDER, LS.
- Equipped with HMI, REMOTE CONTROL, PLC and also the possibility of installing inverters.

محاسبات فوق به صورت حدودی می باشد برای کسب اطلاعات دقیق تر به کاتالوگ مراجعه شود.

Compaction chiller	چیلر تراکمی
Electrical energy - kw/tr/ 1&0.8 water flow~2.5&3 Refrigerant gas charging tr/3lb	انرژی الکتریکی
Capacity Condensing chiller $\approx 25 \times 30 \text{ m}^2 = 1 \text{ tr}$ or 12000 btu	ظرفیت سنجی چیلر تراکمی
Capacity Condensing chiller $\approx \text{m}^2 \times 90 \times 120 \text{ kcal} \times 3.96 / 12000$ or $\approx \text{m}^2 \times 400$	ظرفیت سنجی چیلر تراکمی
Cooling tower debi 3gpm = Inlet water 95°F- Outlet water 85°F- Humid temperatures 78°F	دبی برج خنک کننده
Compensatory water of cooling tower $\approx \text{TR} / 0.3 \& 0.2 / \text{lm}$ or 3 & 4.5 gpm	مقدار آب جبرانی برج خنک کن
Pot capacity estimation -BTU/H boiler = BTU/H + BTU/H Hot water $\times 1.2$	تخمین ظرفیت دیگ
Open Expansion tank Source Volume (GAL) = Heating capacity of boiler BTU/H/6400	تخمین حجم منبع انبساط باز
Chimney section surface estimation kw=400mm or 1000 BTU/H 0.2^{in^2}	تخمین سطح مقطع دودکش
Fan coil debi for each 100 cfm for cool ≈ 0.75 gpm	دبی فن کویل به ازای هر 100 cfm برای سرمایش
Cooling capacity for each 100 cfm $\approx 3800 \text{ btu/h}$	ظرفیت سرمایی کل به ازای هر 100 cfm
Total Cooling capacity for each 100 cfm $\approx 2600 \text{ btu/h}$	ظرفیت سرمایی به ازای هر 100 cfm
Fan coil debi for each 100 cfm for heating ≈ 0.95 gpm	دبی فن کویل به ازای هر 100 cfm برای گرمایش
Heating capacity for each 100 cfm $\approx 9500 \text{ btu/h}$	ظرفیت گرمایی به ازای هر 100 cfm
Pump debi estimation for transferring cold water GMP=(BTU/H)/5000	تخمین دبی پمپ برای انتقال آب سرد
Pump debi estimation for transferring warm water GMP=(BTU/H)/10000	تخمین دبی پمپ برای انتقال آبگرم



GMP
ISO9001
ISO10002
ISO14001





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