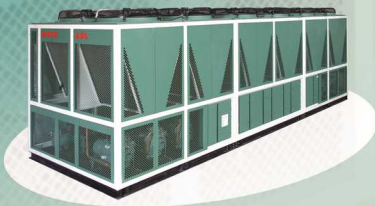


MEHRASL

MANUFACTURING CORPORATION

WLC,RLC,ALC Series



CC 9402

توجه: این مجلد برای اطلاعات عمومی کاربر می باشد و استفاده غیر مجاز و نقل کلیه مطالب این مجلد بدون اخذ مجوز کتبی از شرکت مهر اصل غیر قانونی است. مشخصات فنی بدون اطلاع قبلی قابل تغییر هستند و در موارد قراردادی میبایستی برای هر موردی تاییده کتبی از مهر اصل اخذ شود.

Attention : This leaflet is for your general information only. No claims can be derived from it unless there is evidence of intent or gross negligence. Any publication or not authorized use of subjects without the permission of MEHR ASL corporation will result severe civil penalties and will be prosecuted under law in details or brief. All pictures shown and dimensions given are only for reference. The data given subject to change without notice and are no warranty that the product is of a specified quality and they can not replace expert advice or the customers own tests. MEHR ASL would be pleased to quote for any non standard items which are available at extra cost.

MEHR ASL Offers you a simple selection method for water cooled liquid chillers, performance, equipment and dimension data, cooler & condenser flow rates and pressure drops, cooling capacities, electrical input power rating and ...

Study the catalogue completely, and do not hesitate to contact us directly on any problem or for more information. In the case of not being successful on selecting and finding your required chiller model that meets your will or own special working and operating conditions perfectly, you would be introduced to our special order service. Contact our head office and attach the complete initial designs technical data, put up your request for discussion with us. Be sure to have the best industrial solution in hand immediately.

We will manufacture your requested system based on advanced technology design and calculation. Then you will really know that you have selected the product with

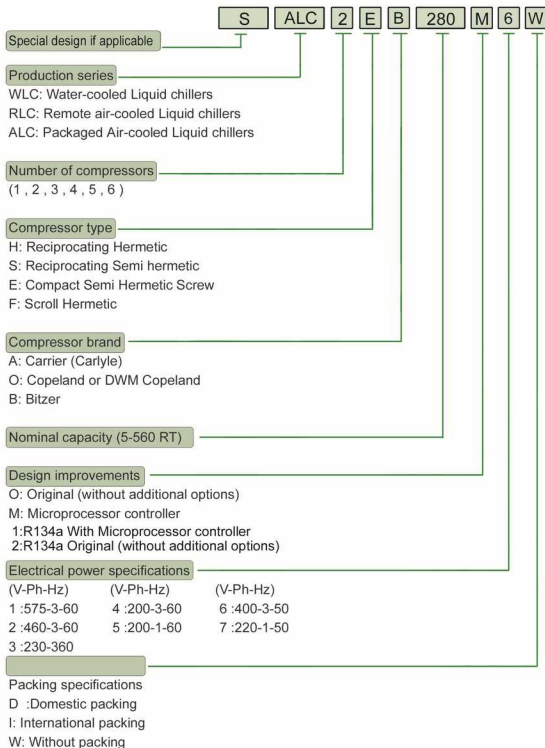
The Best quality money can buy

and the best advisor from

Where the quality is a tradition

مهر اصل در این مجلد روش ساده و آسانی جهت انتخاب چیلر و استخراج ابعاد و اندازه‌های آن و اطلاعات مورد نیاز دیگر را ارائه داده است. لطفاً این مجلد را به صورت کامل و با دقت مطالعه نموده و در صورت نیاز به اطلاعات بیشتر با **مهر اصل** تماس حاصل فرمایید. در موارد سفارشات ویژه که اطلاعات ارائه شده نیاز کاربر را تامین نمی‌نماید و یا اصولاً درخواست مشتری برخلاف محصولات ارائه شده در کاتالوگ باشد، با تماس و ارسال مدارک فنی پروژه خود به **مهر اصل** مطمئن باشید که در اسرع وقت پاسخ لازم و همچنین راه حل مناسب را دریافت خواهید نمود و اطمینان داشته باشید که محصولات انتخاب شده توسط شما بهترین در نوع خود می‌باشد.

MODEL KEYWORD





RLC: Remote air-cooled Liquid chillers



ALC: Packaged Air-cooled Liquid chillers



(Special order)



WLC: Water-cooled Liquid chillers



****C series liquid chillers** are compact energy-efficient units designed to use in many commercial and industrial applications like office buildings, apartments, hotels, schools, hospitals, amusement centers, oil refineries, steel mills, food processing plants, petrochemical plants, paper mills and anywhere you need to decrease the temperature of water, alcohol, oil or any other liquids or fluids.

MEHR ASL WLC, ALC series liquid chillers are packaged units complete designed to reduce installation time and costs. These units have been completed with cooler, compressors, condensers, refrigerant and power circuits, controls, refrigerant and oil charges that only need the addition of a condenser water supply, connection to the electrical power and chilled liquid distribution system. For RLC must order air cooled condenser separately.

United Technologies Carrier brand Carlyle, Bitzer and Copeland high performance compressors used in the **C series liquid chillers are matched to MEHR ASL high efficiency heat exchangers. The compressors are mounted on heavy-duty spring or rubber vibration isolators to minimize vibration transmission to the buildings. A crankcase heater that is always on during compressor off cycles protects the system against refrigerant migration and oil dilution and the potentially expensive problems they can cause. Compressor motors are protected against overheating and potential damage by quick sensing elements.

R134a REFRIGERANT:

R134a was the first chlorine free (ODP=0) HFC refrigerant that was tested comprehensively. It is now used world-wide in many refrigeration and air-conditioning units with good results. As well as being used as a pure substance, R134a is also applied as a component of variety.

R134a has similar thermodynamic properties to R12:

Refrigeration capacity, energy requirement, temperature properties and pressure levels are comparable, at least in air-conditioning and medium temperature refrigeration plants. This refrigerant can therefore be used as an alternative for most R12 applications.

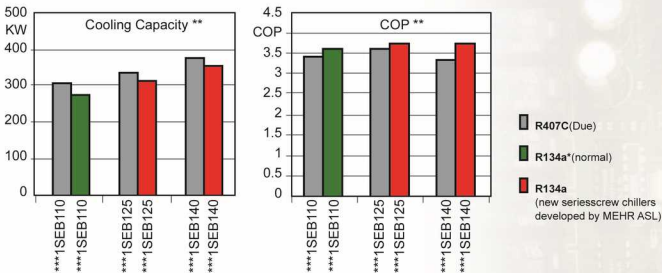
For some application R134a is even preferred as a substitute for R22, an important reason being the limitations to the use of R22 in new plants. However, the lower volumetric refrigeration capacity of R134a requires a larger compressor displacement than with R22. There are also limitations in the application with low evaporating temperatures to be considered.

MEHR ASL Corporation taking advantage of modern technology and compressors for R134a refrigerant offers chillers with almost the same cooling capacity same body size, more displacement and the cost as R22 refrigerant. * The following diagram shows a comparison between the usage of new compressors and R134a with R407c. As it is shown in the diagram, we can achieve a higher COP with R134a in most cases.

NOTE: Refrigerant R134a is also available for customized chillers. Also economizer is optional for chiller with Bitzer screw compressors. Please do not hesitate to contact us for more information.

* Only in chillers equipped with bitzer screw compressors.

Comparison - R134a



** Air Cooled Chiller Application (SST=5 C / SCT=50C / Sh=10K / with ECO)

CONTROL PANEL:

Control panels are designed with the most recent products by Telemecanique, Simens, for circuit breaker, contactors, relays and best material with warning lights, pressure gages and temperature display.

MEHR ASL Corp. offers two kinds of Mechanical and Digital control circuit for its products. It uses the latest microprocessor control system technology and instruments which are made by the best qualified companies in Europe with its products.

All of products are capable of being designed for microprocessor control system. In such a systems all the pressures such as discharge, suction and oil pressure, also evaporator and condenser temperatures are controlled by pressure and temperature sensors or switches and all the measurement are processed with the main board. All the faults are processed with this board and the whole system is controlled with the main board. The LCD display on the controller lets the user to observe the pressures and temperatures, and enables to control and change the necessary parameters.



With such a boards, there is a option of adding printer, and supervisory (BMS) system, The BMS system which its software is provided by MEHR ASL corp. provides the opportunity for the user to be able to control all of the air conditioning units which are installed in different parts of their working area (This can be as for as the hole country)with a central PC computer via a telephone line and a modem.

Any kinds of function which could be done on the local display system can also be done on the central computer too. In other words, an operator with connecting to any unit can observe all the system parameters, and operate the system remotely. The BMS system provides saving in time and human resource and is suitable for organizations which have several air conditioning systems in various locations.

The following shows some windows used in BMS system.



The following shows some of micro controller parameters which are designed for a water cooled chiller with three compressors.

The key board and LCD display provides a user friendly environment for easy control and operation of the system. This system has some advantages over mechanical control system.

- a- Controlling the evaporator pumps.
- b- Controlling the condenser pumps and disabling them when they are not needed.
- c- Controlling the cooling tower fans with respect to the cooling tower water temperature.
- d- Controlling the condenser fans (air cooled chiller) with respect to the discharge pressure.
- e- The compressors rotation option.
- f- The pump down option.
- g- The LAN local network capability.
- h- The BMS supervisory system capability.



Discharge pressures: HP ckt. 1 000.0 PSI HP ckt. 2 000.0 PSI HP ckt. 3 000.0 PSI	Suction pressures: LP ckt. 1 000.0 PSI LP ckt. 2 000.0 PSI LP ckt. 3 000.0 PSI	Oil pressures: OP ckt. 1 000.0 PSI OP ckt. 2 000.0 PSI OP ckt. 3 000.0 PSI	to Synoptic menu to Maintain. menu to User branch to Manuf. branch
to I/O status ... to alarms history to h-counter view to version mask ...	to h.count setting to manual proced. to probe calibrat. to psw PASSWORD ..	Clock/Time Zones Setpoint Settings	Unit configuration general parameters Settings Unit initializat.

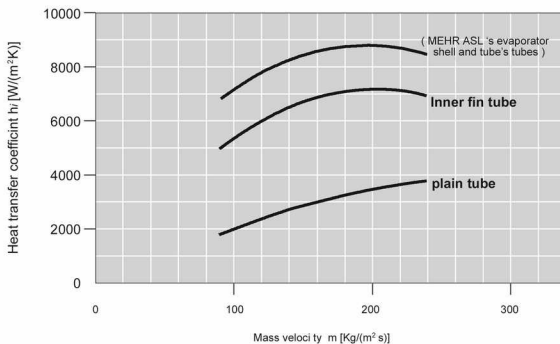


EVAPORATOR :

Evaporator series SETA are used with **C series chillers. Finned copper tubes (Wieland-MEHR ASL) which have a higher heat transfer than smooth tubes are used with this type of evaporators.

Aluminum baffles are used for cross flow of the liquid and higher heat transfer rate. The shell and headers and tube sheets are made of high quality steel with the modern CNC machines. The shell is isolated with special rubber insulator layers for stronger insulation. For more information refer to the shell and tube evaporator catalogue.

The following diagram shows an increase in efficiency of MEHR ASL evaporator shell and tube's tube.



Test conditions

Refrigerant: R 134a

Evaporating temperature $T_p = 0$ °C

Suction super heat $T_{sup} = 5$ K

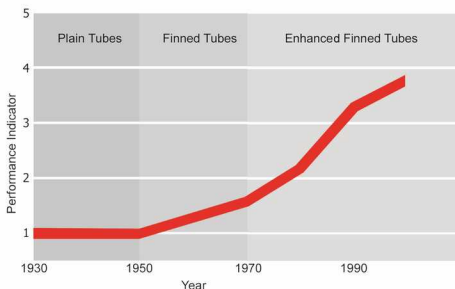
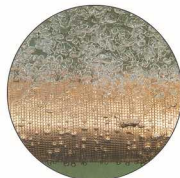
Vapour quality at inlet 20%

Water velocity $W_a = 2.5$ m/s



WATER COOLED CONDENSERS :

Water cooled condenser series ASTCA are used with WLC type chillers. Enhanced finned tube manufactured by Wieland - MehrAsl 19 mm in diameter are used with this type of condensers. This type of tube has very high heat transfer than smooth and simple finned tubes. Customized condenser with stainless steel tubes and sea water coolant are also available. For more information refer to the water cooled condenser catalogue.



AIR COOLED CONDENSERS :

Air cooled condenser series Ac, Av, and Ak are used with chillers of type RLC and ALC. They are designed based on ARI 410-81 standard and MEHRASL laboratory results. Copper tubes with 3/8" OD size are used with our condensers. The fin arrangements are 14 fin per inch with Staggered geometry of 25 x 19 for aluminum fins and 25 x 12.5 for copper fins. For more information refer to the Air Cooled Condenser Catalogue.

The fans used for condenser units are mostly external rotor types which are made by world's famous producers such as Nicotra, Ziehl-Abegg and...



PARTS :

All the parts used for assembling such as service valves, expansion valves, sight-glass, liquid valves are provided from world's famous producers such as Danfoss, Alco, Castel, and ...

THE COMPRESSORS USED IN LIQUID CHILLER

The compressors used with our units are provided from the world's famous producers such as Carrier (8 - 40 R-ton), Copeland (5 - 10 R-ton) in two type of hermetic and scroll, Bitzer in two types of semi-hermetic (15 - 70 R-ton) and compact screw (35 - 320 R-ton). The advantage of screw and scroll compressors are lower noise & vibration, higher efficiency and longer working hours than reciprocating compressor. For more information contact with them directly.



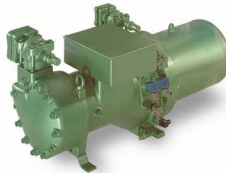
- Copeland reciprocating hermetic compressor



- Copeland Hermetic Scroll compressor



- Bitzer reciprocating Semi - hermetic compressor



- Bitzer compact screw compressor



- Bitzer compact screw compressor



- United Technology Carrier (Carlyle reciprocating semi-hermetic compressor- Carrier corporation)

COMPRESSORS MODEL

MODEL	Used Compressors model
***1F0005	ZR72KC-TDF
***1F0008	ZR90K3-TWD
***2F0010	2 x ZR72KC-TFD
***1F0010	ZR12M3-TWD
***2F0015	2 x ZR90K3-TWD
***2F0020	2 x ZR12M3-TWD
***1H0005	CRNQ-0500
***1H0008	QR 90 K1
***1SA008	06DA818
***1H0010	QR 12 M1
***1SA010	06DA824
***2H0010	2 x CRNQ-0500
***1SB015	4P-15.2
***1SA015	06DA537
***2H0015	2 x QR 90 K1
***1SA020	06DA250
***2H0020	2 x QR 12 M1
***1SB020	4N-20.2
***1SA025	06EA265
***1SB025	4H-25.2
***1SA030	06EA275
***1SB030	4G-30.2
***2SA030	2 x 06DA537
***2SB030	2 x 4P-15.2
***1SA040	06EA299
***1SB040	6G-40.2
***2SA040	2 x 06DA250
***2SB040	2 x 4N-20.2
***2SA050	2 x 06EA265
***1SB050	6F-50.2
***2SB050	2 x 4H-25.2
***2SA060	2 x 06EA275
***1SB060	8GC-60.2
***2SB060	2 x 4G-30.2
***2SA070	06EA275 + 06EA299
***1SB070	8FC-70.2
***2SB070	4G-30.2 + 6G-40.2
***2SA080	2 x 06EA299
***2SB080	2 x 6G-40.2
***3SA090	3 x 06EA275
***2SB090	6G-40.2 + 6F-50.2
***3SA100	2 x 06EA275 + 06EA299
***2SB100	2 x 6F-50.2
***3SB100	2 x 4G-30.2 + 6G-40.2
***2SB110	4G-30.2 + 2 x 6G-40.2
***3SA110	06EA275 + 2 x 06EA299
***3SB120	3 x 6G-40.2
***3SA120	3 x 06EA299
***4SA120	4 x 06EA275
***2SB120	2 x 8GC-60.2
***2SB130	8GC-60.2 + 8FC-70.2
***4SA140	2 x 06EA275 + 2 x 06EA299

MODEL	Used Compressors model
***4SB140	2 x 4G-30.2 + 2 x 6G-40.2
***2SB140	2 x 8FC-70.2
***3SB150	3 x 6F-50.2
***4SA160	4 x 06EA299
***4SB160	4 x 6G-40.2
***3SB170	2 x 6F-50.2 + 8FC-70.2
***3SB180	3 x 8GC-60.2
***5SA200	5 x 06EA299
***4SB200	4 x 6F-50.2
***3SB210	3 x 8FC-70.2
***6SA240	6 x 06EA299
***6SB240	6 x 6G-40.2
***4SB240	4 x 8GC-60.2
***5SB250	5 x 6F-50.2
***4SB280	4 x 8FC-70.2
***5SB300	5 x 8GC-60.2
***5SB350	5 x 8FC-70.2
***6SB420	6 x 8FC-70.2
***1EB050	CSH6551-50
***1EB060	CSH6561-60
***1EB070	CSH7551-70
***1EB080	CSH7560-80
***1EB090	CSH7571-90
***2EB100	2 x CSH6551-50
***1EB110	CSH8551-110
***2EB120	2 x CSH6561-60
***1EB125	CSH8561-125
***2EB140	2 x CSH7551-70
***1EB140	CSH8571-140
***1EB180	CSH9561-180
***3EB150	3 x CSH6551-50
***2EB160	2 x CSH7560-80
***3EB180	3 x CSH6561-60
***2EB180	2 x CSH7571-90
***2EB360	2 x CSH9561-180
***4EB200	4 x CSH6551-50
***3EB210	3 x CSH7551-70
***2EB220	2 x CSH8551-110
***3EB240	3 x CSH7560-80
***4EB240	4 x CSH6561-60
***2EB250	2 x CSH8561-125
***3EB270	3 x CSH7571-90
***2EB280	2 x CSH8571-140
***4EB280	4 x CSH7551-70
***3EB375	3 x CSH8561-125
***3EB420	3 x CSH8591-140
***4EB440	4 x CSH8551-110
***4EB500	4 x CSH8581-125
***4EB560	4 x CSH8591-140

MODEL(134a)	Used Compressors model
***1EB035	CSH6551-35Y
***1EB060	CSH6561-60Y
***1EB070	CSH7551-70Y
***1EB080	CSH7561-80Y
***1EB090	CSH7571-90Y
***2EB070	2 x CSH6551-35Y
***1EB110	CSH8551-110Y
***2EB120	2 x CSH6561-60Y
***1EB125	CSH8581-125Y
***2EB140	2 x CSH7551-70Y
***1EB140	CSH8591-140Y
***1EB180	CSH9571-180Y
***3EB105	3 x CSH6551-35Y
***2EB160	2 x CSH7561-80Y
***3EB180	3 x CSH6561-60Y
***2EB180	2 x CSH7571-90Y
***2EB360	2 x CSH9571-180Y
***4EB200	4 x CSH6551-50Y
***3EB210	3 x CSH7551-70Y
***2EB220	2 x CSH8551-110Y
***3EB240	3 x CSH7561-80Y
***4EB240	4 x CSH6561-60Y
***2EB250	2 x CSH8581-125Y
***3EB270	3 x CSH7571-90Y
***2EB280	2 x CSH8591-140Y
***4EB280	4 x CSH7551-70Y
***4EB320	4 x CSH7561-80Y
***3EB330	3 x CSH8551-110Y
***4EB360	4 x CSH7571-90Y
***3EB375	3 x CSH8581-125Y
***3EB420	3 x CSH8591-140Y
***4EB440	4 x CSH8551-110Y
***4EB500	4 x CSH8581-125Y
***4EB560	4 x CSH8591-140Y

SELECTION METHOD FOR CHILLER

There is a simple selection method process for **C series water cooled liquid chillers based on MASS standard units as follows:

Wanted: to have 10 l/s chilled water & 7 °C water outlet temp. & 5.5 °C (~10 °F) temp. drop in cooler. If ambient dry bulb temp. is 35 °C and cooling tower can supply cooling water with 25 °C .which chiller is suitable?

In this catalogue we can find three type of liquid chiller: WLC, ALC, and RLC Lets find suitable chiller for 3 types (of course for RLC, ALC no need for cooling tower)

Cooling capacity= Q (Kw), 10L/s of water ~ 10Kg/s of water

$$Q \text{ (Kw)} = 4.2 \text{ (Kj/kg. °C)} * \text{Water flow (Kg/s)} * \text{Temp. Drop (°C)}$$

$$= 4.2 * 10 * 5.5 = 231 \text{ Kw} = 65.37 \text{ R.T}$$

Attention: 4.2= water specific heat

Assumption: used refrigerant = R22 and fouling factor for condenser < 0.0002 (W/m².K) To find suitable chiller we should calculated condensing temp.

Condensing temp. = Condensing inlet water temp. + A

For first assumption A= 10

Condensing temp. = 25 + 10 = 35 °C

With referring to capacity tables you can select WLC1EB080 for this chiller used STCAB2080 condenser therefore A=10.8 (refer to pag.30)

Condensing temp. = 25 + 10.8 = 35.8

With referring to capacity tables suitable model is **WLC1EB080**

- If you want to use RLC chiller:
You can select a suitable air cooled condenser with refer to air cooled chiller.
- For ALC chiller:
All of our air cooled condenser on ALC models design with 15 °C differential temp.

Condensing temp. = 35 + 15 = 50 °C

By referring to capacity tables The **ALC2SB090** model is suitable.

NOTE: Capacity of water cooled condenser calculated with fouling factor equal to 0.0002(w/m².k).
For other conditions contact with MEHRASL.

- COOLING CAPACITIES (R22, R407C)

MODEL	COND TEMP	COOLING CAPACITY			IN.P (KW)		Condenser model for WLC	C.W.F.R Liter/S	C.P.D KPa
		KW(R22)	R.T(R22)	Kw(R407C)	R22	407C			
***1FO005 ▲	30	19.4	5.52	18.8	3.22	2.95	STCAA2005	0.84	7
	35	18.6	5.29	17.9	3.56	3.3		0.81	7
	40	17.8	5.06	16.9	3.89	3.69		0.77	6
	45	16.9	4.81	15.8	4.34	4.15		0.73	6
	50	16	4.55	14.8	4.78	4.66		0.70	6
	55	14.9	4.24	13.7	5.22	5.23		0.65	5
	60	13.8	3.92	12.7	5.66	5.86		0.60	5
***1HO005 ▲	30	18.8	5.3	-	3.7	-	STCAA2005	0.82	7
	35	17.5	5.0	-	4.0	-		0.76	7
	40	16.4	4.7	-	4.3	-		0.71	6
	45	15.2	4.3	-	4.6	-		0.66	6
	50	14.1	4.0	-	4.8	-		0.61	6
	55	12.9	3.7	-	5.1	-		0.56	5
	60	11.9	3.4	-	5.4	-		0.52	5
***1FO008 ▲	30	23.8	6.77	23.1	4.07	3.9	STCAA2008	1.03	21
	35	22.65	6.44	22	4.5	4.32		0.98	21
	40	21.5	6.11	20.8	4.93	4.82		0.93	20
	45	20.45	5.82	19.5	5.48	5.39		0.89	20
	50	19.4	5.52	18.2	6.04	6.03		0.84	19
	55	18.3	5.20	16.9	6.48	6.74		0.80	19
	60	17.2	4.89	15.6	6.92	7.5		0.75	18
***1HO008 ▲	30	29.9	8.5	-	5.9	-	STCAA2008	1.30	21
	35	27.5	7.8	-	6.3	-		1.20	21
	40	25.2	7.2	-	6.6	-		1.10	20
	45	23.0	6.5	-	6.9	-		1.00	20
	50	20.9	5.9	-	7.2	-		0.91	19
	55	18.6	5.3	-	7.5	-		0.81	19
	60	16.4	4.7	-	7.7	-		0.71	18
***1SA008 ▲▲	30	26.2	7.5	-	3.9	-	STCAA2008	1.14	20
	35	24.6	7	-	4.4	-		1.07	20
	40	23.1	6.6	-	5	-		1.00	19
	45	21.5	6.1	-	5.4	-		0.93	19
	50	19.8	5.6	-	5.9	-		0.86	18
	55	18.3	5.2	-	6.2	-		0.79	18
	60	16.7	4.7	-	6.6	-		0.72	18
***1FO010 ▲	30	33.5	9.53	33.1	5.47	5.4	STCAA2010	1.46	29
	35	32.1	9.13	31.5	6.1	6.04		1.40	29
	40	30.7	8.73	29.7	6.73	6.78		1.33	28
	45	29.2	8.29	27.8	7.52	7.61		1.27	28
	50	27.6	7.85	26.1	8.31	8.53		1.20	27
	55	26.5	7.54	24.2	8.75	9.54		1.15	27
	60	25.4	7.22	22.4	9.19	10.6		1.10	26

C.W.F.R :Cooler Water Flow Rate

C.P.D :Cooler Pressure Drop

IN.P :INPUT POWER

▲ Copeland Compressor

▲▲ Carrier Compressor

▲▲▲ Bitzer Compressor

- COOLING CAPACITIES (R22, R407C)

MODEL	COND TEMP	COOLING CAPACITY			IN.P (KW)		Condenser model for WLC	C.W.F.R Liter/S	C.P.D KPa
		KW(R22)	R.T(R22)	Kw(R407C)	R22	407C			
***1HO010	30	38.2	10.9	-	8.1	-	STCAA2010	1.66	29
	35	35.3	10.0	-	8.6	-		1.53	29
	40	32.3	9.2	-	9.0	-		1.40	28
	45	29.5	8.4	-	9.5	-		1.28	28
	50	26.6	7.6	-	9.8	-		1.16	27
	55	23.8	6.8	-	10.2	-		1.03	27
	60	20.8	5.9	-	10.6	-		0.90	26
***1SA010	30	34.4	9.8	-	5.1	-	STCAA2010	1.49	29
	35	32.1	9.1	-	5.8	-		1.39	29
	40	29.8	8.4	-	6.4	-		1.29	28
	45	27.6	7.8	-	6.9	-		1.20	28
	50	25.4	7.2	-	7.5	-		1.10	27
	55	23.3	6.6	-	8	-		1.01	27
	60	21.2	6	-	8.5	-		0.92	26
***2FO010	30	38.8	11.04	37.6	6.44	5.9	2 x STCAA2005	1.69	29
	35	37.2	10.58	35.8	7.11	6.6		1.62	29
	40	35.6	10.13	33.8	7.78	7.38		1.55	28
	45	33.8	9.61	31.6	8.67	8.3		1.47	28
	50	32.0	9.10	29.6	9.56	9.32		1.39	27
	55	29.8	8.48	27.4	10.4	10.4		1.30	27
	60	27.6	7.85	25.4	11.3	11.7		1.20	26
***2HO010	30	37.4	10.6	-	7.4	-	2 x STCAA2005	1.63	29
	35	35.1	10.0	-	8.0	-		1.53	29
	40	32.8	9.3	-	8.6	-		1.43	28
	45	30.4	8.7	-	9.1	-		1.32	28
	50	28.1	8.0	-	9.7	-		1.22	27
	55	25.8	7.3	-	10.2	-		1.12	27
	60	10.8	3.1	-	4.9	-		0.47	26
***1SB015	30	48.3	13.7	47.5	9.4	8.1	STCAA2015	2.10	27
	35	46.0	13.1	44.8	10.4	9.2		2.00	27
	40	43.6	12.4	42.2	11.4	10.2		1.90	26
	45	41.2	11.7	39.5	12.5	12.2		1.79	26
	50	38.9	11.0	36.8	13.5	11.2		1.69	25
	55	36.4	10.4	34.1	14.4	13.1		1.58	25
	60	34.0	9.7	31.5	15.2	14.1		1.48	24
***1SA015	30	54.3	15.4	-	9.7	-	STCAA2015	2.36	31
	35	50.9	14.5	-	10.8	-		2.21	31
	40	47.6	13.5	-	12.2	-		2.07	30
	45	44.4	12.6	-	13.1	-		1.93	30
	50	41.2	11.7	-	14.2	-		1.79	29
	55	38.1	10.8	-	15.2	-		1.66	29
	60	35.0	10.0	-	15.9	-		1.52	28
***2FO015	30	47.6	13.54	46.2	8.1	7.8	2 x STCAA2008	2.07	26
	35	45.3	12.88	44	9.0	8.64		1.97	26
	40	43.0	12.23	41.6	9.9	9.64		1.87	25
	45	40.9	11.63	39	11.0	10.7		1.78	25
	50	38.8	11.04	36.4	12.1	12.0		1.69	24
	55	36.6	10.41	33.8	13.0	13.4		1.59	24
	60	34.4	9.78	31.2	13.8	15		1.50	23
***2HO015	30	59.7	17.0	-	11.8	-	2 x STCAA2008	2.60	26
	35	55.1	15.7	-	12.6	-		2.39	26
	40	50.4	14.3	-	13.3	-		2.19	25
	45	46.0	13.1	-	13.9	-		2.00	25
	50	41.7	11.9	-	14.4	-		1.81	24
	55	37.2	10.6	-	14.9	-		1.62	24
	60	32.9	9.3	-	15.5	-		1.43	23

C.W.F.R :Cooler Water Flow Rate

C.P.D :Cooler Pressure Drop

IN.P :INPUT POWER

▲ Copeland Compressor

▲▲ Carrier Compressor

▲▲▲ Bitzer Compressor

- COOLING CAPACITIES (R22, R407C)

MODEL	COND TEMP	COOLING CAPACITY			IN.P (KW)		Condenser model for WLC	C.W.F.R Liter/S	C.P.D KPa
		KW(R22)	R.T(R22)	Kw(R407C)	R22	407C			
***1SA020	30	73.3	20.8	-	13.3	-	STCAA2020	3.19	30
	35	68.4	19.4	-	14.5	-		2.97	30
	40	63.7	18.1	-	15.9	-		2.77	29
	45	59.2	16.8	-	16.9	-		2.57	29
	50	54.6	15.5	-	18.2	-		2.37	28
	55	50.1	14.2	-	19.3	-		2.18	28
	60	45.5	13.0	-	20.7	-		1.98	27
***2FO020	30	67.0	19.06	66.2	10.9	10.8	2 xSTCAA2010	2.91	36
	35	64.2	18.26	63	12.2	12.0		2.79	36
	40	61.4	17.46	59.4	13.4	13.5		2.67	35
	45	58.3	16.58	55.6	15.0	15.2		2.53	35
	50	55.2	15.71	52.2	16.6	17.0		2.40	34
	55	53.0	15.07	48.4	17.5	19.0		2.30	34
	60	50.8	14.45	44.8	18.3	21.3		2.21	33
***2HO020	30	76.5	21.7	-	16.2	-	2 xSTCAA2010	3.32	36
	35	70.5	20.1	-	17.1	-		3.07	36
	40	64.6	18.4	-	18.1	-		2.81	35
	45	59.0	16.8	-	18.9	-		2.56	35
	50	53.3	15.2	-	19.7	-		2.32	34
	55	47.4	13.5	-	20.4	-		2.06	34
	60	41.6	11.8	-	21.2	-		1.81	33
***1SB020	30	58.2	16.5	57.4	11.4	9.8	STCAA2020	2.53	26
	35	55.5	15.8	54.3	12.6	10.9		2.41	26
	40	52.7	15.0	51.1	13.7	12.0		2.29	25
	45	49.8	14.2	47.8	14.8	13.1		2.17	25
	50	46.8	13.3	44.5	16.0	14.2		2.04	24
	55	44.0	12.5	41.2	17.1	15.3		1.91	24
	60	41.3	11.7	38.0	18.3	16.4		1.80	23
***1SA025	30	96.7	27.5	-	17.6	-	STCAA2025	4.20	30
	35	89.9	25.6	-	19.1	-		3.91	30
	40	83.5	23.7	-	20.9	-		3.63	29
	45	77.1	21.9	-	22.7	-		3.35	29
	50	70.9	20.2	-	24.5	-		3.08	28
	55	64.9	18.5	-	25.0	-		2.82	28
	60	59.2	16.8	-	26.9	-		2.57	27
***1SB025	30	76.0	21.6	74.2	14.4	13.0	STCAA2025	3.31	36
	35	72.3	20.6	69.7	15.9	14.5		3.14	36
	40	68.5	19.5	65.1	17.1	15.9		2.98	35
	45	64.8	18.4	60.6	18.3	17.2		2.82	35
	50	61.2	17.4	56.1	19.5	18.5		2.66	34
	55	57.6	16.4	51.6	20.9	19.8		2.50	34
	60	54.1	15.4	47.1	15.9	21.0		2.35	33
***1SA030	30	103.1	29.3	-	19.8	-	STCAA2030	4.48	32
	35	97.1	27.6	-	22.1	-		4.22	32
	40	91.0	25.9	-	23.9	-		3.95	31
	45	84.8	24.1	-	25.7	-		3.69	31
	50	78.5	22.3	-	27.1	-		3.41	30
	55	72.2	20.5	-	28.9	-		3.14	30
	60	65.9	18.7	-	29.9	-		2.86	29
***1SB030	30	87.2	24.8	84.7	17.0	15.5	STCAA2030	3.79	36
	35	82.8	23.6	79.6	18.7	17.1		3.60	36
	40	78.6	22.4	74.4	20.2	18.7		3.42	35
	45	74.3	21.1	69.0	21.6	20.2		3.23	35
	50	70.2	20.0	63.5	23.2	21.6		3.05	34
	55	66.0	18.8	58.0	24.9	23.0		2.87	34
	60	62.0	17.6	53.0	27.0	24.4		2.70	33

C.W.F.R : Cooler Water Flow Rate

C.P.D : Cooler Pressure Drop

IN.P : INPUT POWER

▲ Copeland Compressor

▲▲ Carrier Compressor

▲▲▲ Bitzer Compressor

- COOLING CAPACITIES (R22, R407C)

MODEL	COND TEMP	COOLING CAPACITY			IN.P (KW)		Condenser model for WLC	C.W.F.R Liter/S	C.P.D KPa
		KW(R22)	R.T(R22)	Kw(R407C)	R22	407C			
***2SA030	30	108.6	30.9	-	19.4	-	2 xSTCAA2015	4.72	32
	35	101.9	29.0	-	21.7	-		4.43	32
	40	95.3	27.1	-	24.4	-		4.14	31
	45	88.8	25.3	-	26.1	-		3.86	31
	50	82.4	23.4	-	28.4	-		3.58	30
	55	76.2	21.7	-	30.5	-		3.31	30
	60	70.1	19.9	-	31.8	-		3.05	29
***2SB030	30	96.6	27.5	94.9	18.9	16.22	2 xSTCAA2015	4.20	30
	35	91.9	26.1	89.7	20.8	18.31		4.00	30
	40	87.2	24.8	84.4	22.9	20.4		3.79	29
	45	82.4	23.4	79.0	25.0	22.37		3.58	29
	50	77.7	22.1	73.6	27.0	24.34		3.38	28
	55	72.8	20.7	68.2	28.8	26.2		3.17	28
	60	67.9	19.3	63.0	30.5	28.2		2.95	27
***1SA040	30	135.4	38.5	-	28.8	-	STCAA2040	5.89	313
	35	127.3	36.2	-	31.1	-		5.54	31
	40	119.4	34.0	-	33.2	-		5.19	30
	45	111.6	31.7	-	36.0	-		4.85	30
	50	103.9	29.5	-	37.1	-		4.52	29
	55	96.2	27.4	-	38.5	-		4.18	29
	60	88.8	25.3	-	40.4	-		3.86	28
***1SB040	30	131.0	37.3	127.1	25.5	23.1	STCAA2040	5.69	30
	35	124.3	35.4	119.4	28.0	25.5		5.41	30
	40	117.9	33.5	111.6	30.3	27.9		5.13	29
	45	111.6	31.7	103.5	32.5	30.1		4.85	29
	50	105.2	29.9	95.3	34.8	32.2		4.58	28
	55	99.1	28.2	87.1	37.4	34.4		4.31	28
	60	93.1	26.5	79.8	40.5	36.6		4.05	27
***2SA040	30	146.5	41.7	-	26.6	-	2 xSTCAA2020	6.37	35
	35	136.8	38.9	-	29.1	-		5.95	35
	40	127.4	36.2	-	31.9	-		5.54	34
	45	118.3	33.7	-	33.8	-		5.14	34
	50	109.2	31.1	-	36.4	-		4.75	33
	55	100.2	28.5	-	38.6	-		4.36	33
	60	91.1	25.9	-	41.4	-		3.96	32
***2SB040	30	116.3	33.1	114.8	22.8	19.64	2 xSTCAA2020	5.06	32
	35	111.0	31.6	108.5	25.1	21.79		4.83	32
	40	105.5	30.0	102.2	27.4	23.94		4.58	31
	45	99.7	28.3	95.6	29.7	26.19		4.33	31
	50	93.7	26.6	89.0	32.0	28.44		4.07	30
	55	87.9	25.0	82.4	34.2	30.6		3.82	30
	60	82.6	23.5	76.0	36.5	32.8		3.59	29
***2SA050	30	193.4	55.0	-	35.2	-	2 xSTCAA2025	8.41	40
	35	179.8	51.1	-	38.3	-		7.82	40
	40	166.9	47.5	-	41.7	-		7.26	39
	45	154.3	43.9	-	45.4	-		6.71	39
	50	141.9	40.3	-	48.9	-		6.17	38
	55	129.9	36.9	-	50.0	-		5.65	38
	60	118.3	33.7	-	53.8	-		5.14	37
***1SB050	30	154.1	43.8	150.5	32.5	28.6	STCAB2050	6.70	35
	35	146.4	41.6	141.8	35.3	31.2		6.37	35
	40	139.0	39.5	133.1	37.9	33.8		6.04	34
	45	131.6	37.4	124.4	40.5	36.5		5.72	34
	50	124.4	35.4	115.6	43.1	39.2		5.41	33
	55	117.3	33.4	107.0	46.0	50.0		5.10	33
	60	110.3	31.4	98.4	49.0	52.7		4.80	32

C.W.F.R : Cooler Water Flow Rate

C.P.D : Cooler Pressure Drop

IN.P : INPUT POWER

▲ Copeland Compressor

▲▲ Carrier Compressor

▲▲▲ Bitzer Compressor

- COOLING CAPACITIES (R22, R407C)

MODEL	COND TEMP	COOLING CAPACITY			IN.P (KW)		Condenser model for WLC	C.W.F.R Liter/S	C.P.D KPa
		KW(R22)	R.T(R22)	Kw(R407C)	R22	407C			
***2SB050	30	152.1	43.3	148.4	28.9	26.02	2 xSTCAA2025	6.61	35
	35	144.5	41.1	139.3	31.8	28.91		6.28	35
	40	137.0	39.0	130.2	34.2	31.8		5.96	34
	45	129.6	36.9	121.2	36.6	34.42		5.64	34
	50	122.3	34.8	112.2	39.1	37.04		5.32	33
	55	115.2	32.8	103.2	41.9	39.6		5.01	33
	60	108.1	30.7	94.2	31.9	42		4.70	32
***2SA060	30	206.2	58.6	-	39.7	-	2 xSTCAB2030	8.96	29
	35	194.2	55.2	-	44.1	-		8.44	29
	40	181.9	51.7	-	47.9	-		7.91	28
	45	169.5	48.2	-	51.4	-		7.37	28
	50	157.0	44.6	-	54.1	-		6.82	27
	55	144.4	41.1	-	57.8	-		6.28	27
	60	131.6	37.4	-	59.8	-		5.72	26
***1SB060	30	193.7	55.1	190	38.0	34.8	STCAB2060	8.42	26
	35	184.0	52.3	179	43.8	38.6		8.00	26
	40	174.4	49.6	167.7	45.9	51.6		7.58	25
	45	164.6	46.8	156.3	49.9	44.8		7.16	25
	50	155.0	44.1	144.8	53.4	48.1		6.74	24
	55	145.4	41.4	132.5	55.9	51.5		6.32	24
	60	135.9	38.6	121.2	60.4	54.6		5.91	23
***2SB060	30	174.5	49.6	169.4	34.0	31.08	2 xSTCAB2030	7.59	40
	35	165.6	47.1	159.1	37.3	34.25		7.20	40
	40	157.2	44.7	148.8	40.4	37.42		6.83	39
	45	148.5	42.2	137.9	43.3	40.31		6.46	39
	50	140.3	39.9	127.0	46.5	43.2		6.10	38
	55	132.1	37.6	116.0	49.8	46		5.74	38
	60	124.1	35.3	106.0	54.0	48.8		5.40	37
***2SA070	30	238.4	67.8	-	48.7	-	STCAB2030 + STCAB2040	10.37	34
	35	224.3	63.8	-	53.4	-		9.75	34
	40	210.3	59.8	-	56.9	-		9.15	33
	45	196.2	55.8	-	61.3	-		8.53	33
	50	182.4	51.9	-	65.1	-		7.93	32
	55	168.4	47.9	-	67.4	-		7.32	32
	60	154.6	44.0	-	70.3	-		6.72	31
***1SB070	30	223.8	63.6	225.1	47.6	41.8	STCAB2070	9.73	33
	35	212.2	60.4	211.8	53.1	46.25		9.23	33
	40	200.7	57.1	198.5	57.3	50.7		8.73	32
	45	188.9	53.7	184.9	60.9	54.65		8.21	32
	50	177.2	50.4	171.3	65.6	58.6		7.70	31
	55	164.9	46.9	158.0	71.7	62.7		7.17	31
	60	153.0	43.5	144.5	72.8	66.8		6.65	30
***2SB070	30	218.2	62.1	211.8	42.5	38.6	STCAC2030 + STCAC2040	9.49	32
	35	207.1	58.9	198.9	46.7	42.6		9.01	32
	40	196.5	55.9	186.0	50.5	46.6		8.54	31
	45	185.8	52.8	172.4	54.2	50.2		8.08	31
	50	175.4	49.9	158.8	58.1	53.8		7.63	30
	55	165.2	47.0	145.1	62.3	57.4		7.18	30
	60	155.2	44.1	132.8	67.5	61.0		6.75	29
***2SA080	30	270.8	77.0	-	57.6	-	2 xSTCAC2040	11.78	36
	35	254.6	72.4	-	62.1	-		11.07	36
	40	238.9	67.9	-	66.4	-		10.39	35
	45	223.1	63.5	-	72.0	-		9.70	35
	50	207.8	59.1	-	74.2	-		9.03	34
	55	192.5	54.7	-	77.0	-		8.37	34
	60	177.6	50.5	-	80.7	-		7.72	33

C.W.F.R : Cooler Water Flow Rate

C.P.D : Cooler Pressure Drop

IN.P : INPUT POWER

▲ Copeland Compressor

▲▲ Carrier Compressor

▲▲▲ Bitzer Compressor

- COOLING CAPACITIES (R22, R407C)

MODEL	COND TEMP	COOLING CAPACITY			IN.P (KW)		Condenser model for WLC	C.W.F.R Liter/S	C.P.D KPa
		KW(R22)	R.T(R22)	Kw(R407C)	R22	407C			
***2SB080	30	262.0	74.5	254.2	51.1	46.2	2 xSTCAC2040	11.39	35
	35	248.6	70.7	238.7	56.0	51		10.81	35
	40	235.8	67.1	223.2	60.6	55.8		10.25	34
	45	223.1	63.5	206.9	65.0	60.1		9.70	34
	50	210.5	59.9	190.6	69.7	64.4		9.15	33
	55	198.2	56.4	174.2	74.8	68.8		8.62	33
	60	186.3	53.0	159.6	81.0	73.2		8.10	32
***3SA090	30	309.2	88.0	-	59.5	-	3 xSTCAC4030	13.45	36
	35	291.2	82.8	-	66.2	-		12.66	36
	40	272.8	77.6	-	71.8	-		11.86	35
	45	254.3	72.3	-	77.1	-		11.06	35
	50	235.4	67.0	-	81.2	-		10.24	34
	55	216.6	61.6	-	86.6	-		9.42	34
	60	197.7	56.2	-	89.9	-		8.60	33
***2SB090	30	287.2	81.6	277.6	53.4	51.7	STCAC2040 + STCAC2050	12.48	35
	35	273.4	77.6	261.2	57.8	56.7		11.87	35
	40	260.1	73.9	244.7	62.0	61.7		11.3	34
	45	248.3	70.5	227.8	67.5	66.6		10.78	34
	50	232.8	66.3	210.9	72.6	71.4		10.13	33
	55	224	63.7	194.1	76.2	74.4		9.74	33
	60	212.6	60.3	178.2	80.9	79.3		9.22	32
***3SA100	30	341.7	97.2	-	68.3	-	2 xSTCAC2030 + STCAC2040	14.85	44
	35	321.5	91.4	-	75.1	-		13.98	44
	40	301.4	85.7	-	81.0	-		13.10	43
	45	281.1	79.9	-	87.3	-		12.22	43
	50	261.0	74.2	-	91.2	-		11.35	42
	55	240.6	68.4	-	96.3	-		10.46	42
	60	220.6	62.7	-	100.3	-		9.59	41
***2SB100	30	308.1	87.6	301.0	65.0	57.2	2 xSTCAC2050	13.40	36
	35	292.8	83.3	283.6	70.6	62.4		12.73	36
	40	277.9	79.1	266.2	75.7	67.6		12.08	35
	45	263.3	74.9	248.7	81.0	73		11.45	35
	50	248.9	70.8	231.2	86.1	78.4		10.82	34
	55	234.7	66.7	214.0	92.0	100		10.20	34
	60	220.7	62.8	196.8	98.1	105.4		9.59	33
***3SB100	30	305.5	86.9	296.5	59.9	54.18	2 xSTCAC2030 + STCAC2040	13.28	36
	35	289.9	82.5	278.45	65.9	59.75		12.61	36
	40	275.1	78.2	260.4	70.5	65.32		11.96	35
	45	260.1	74.0	241.35	76.5	70.36		11.31	35
	50	245.5	69.8	222.3	81.3	75.4		10.68	34
	55	231.2	65.8	203.1	88.9	80.4		10.05	34
	60	217.2	61.8	185.8	94.4	85.4		9.44	33
***3SB110	30	347.8	98.9	340.7	71.0	63.4	STCAC2030 + 2 xSTCAC2040	15.12	44
	35	330.4	94.0	320.8	76.8	69.4		14.37	44
	40	313.4	89.1	300.8	84.7	75.4		13.62	43
	45	296.3	84.3	280.6	89.8	81.4		12.88	43
	50	279.4	79.5	260.4	96.3	87.3		12.15	42
	55	262.7	74.7	239.5	101.1	101.5		11.42	42
	60	246.2	70.0	219.4	107.0	107.3		10.70	41
***3SA110	30	374.1	106.4	-	77.9	-	STCAC2030 + 2 xSTCAC2040	16.26	45
	35	351.9	100.1	-	83.8	-		15.30	45
	40	329.9	93.8	-	89.2	-		14.34	44
	45	307.9	87.6	-	96.2	-		13.39	44
	50	286.4	81.5	-	102.3	-		12.45	43
	55	264.6	75.3	-	105.8	-		11.51	43
	60	243.4	69.2	-	110.6	-		10.58	42

C.W.F.R :Cooler Water Flow Rate

C.P.D :Cooler Pressure Drop

IN.P :INPUT POWER

▲ Copeland Compressor

▲▲ Carrier Compressor

▲▲▲ Bitzer Compressor

- COOLING CAPACITIES (R22, R407C)

MODEL	COND TEMP	COOLING CAPACITY			IN.P (KW)		Condenser model for WLC	C.W.F.R Liter/S	C.P.D KPa
		KW(R22)	R.T(R22)	Kw(R407C)	R22	407C			
***3SB120	30	392.9	111.8	381.3	76.6	69.3	3 xSTCAC4040	17.08	53
	35	373.0	106.1	358.1	84.0	76.5		16.22	53
	40	353.6	100.6	334.8	90.9	83.7		15.38	52
	45	334.7	95.2	310.4	97.6	90.2		14.55	52
	50	315.7	89.8	285.9	104.5	96.6		13.73	51
	55	297.4	84.6	261.3	112.2	103.2		12.93	51
	60	279.4	79.5	239.4	121.5	109.8		12.15	50
***3SA120	30	406.3	115.5	-	86.4	-	3 xSTCAC4040	17.66	53
	35	382.0	108.6	-	93.2	-		16.61	53
	40	358.3	101.9	-	99.5	-		15.58	52
	45	334.7	95.2	-	108.0	-		14.55	52
	50	311.7	88.6	-	111.3	-		13.55	51
	55	288.7	82.1	-	115.5	-		12.55	51
	60	266.4	75.8	-	121.1	-		11.58	50
***4SA120	30	412.4	117.3	-	79.3	-	4 xSTCAB2030	17.93	53
	35	388.3	110.4	-	88.2	-		16.88	53
	40	363.9	103.5	-	95.8	-		15.82	52
	45	339.0	96.4	-	102.7	-		14.74	52
	50	313.9	89.3	-	108.2	-		13.65	51
	55	288.7	82.1	-	115.5	-		12.55	51
	60	263.4	74.9	-	119.7	-		11.45	50
***2SB120	30	387.4	110.2	380.4	76.0	69.6	2 xSTCAC2060	16.84	52
	35	368.1	104.7	357.9	87.6	76.4		16.00	52
	40	348.8	99.2	335.4	91.8	83.2		15.16	51
	45	329.2	93.6	312.5	99.8	89.7		14.31	51
	50	309.9	88.1	289.6	106.9	96.2		13.47	50
	55	290.8	82.7	265.0	111.9	103		12.64	50
	60	271.7	77.3	242.0	120.8	109.2		11.81	49
***2SB130	30	417.5	118.7	415.3	85.2	76.6	STCAC2060 + STCAC2070	18.15	53
	35	396.3	112.7	390.75	90.1	84.45		17.23	53
	40	375.1	106.7	366.2	104.2	92.3		16.31	52
	45	353.5	100.6	341.15	110.5	99.5		15.37	52
	50	332.1	94.5	316.1	118.6	106.7		14.44	51
	55	310.4	88.3	290.5	129.3	114.2		13.49	51
	60	288.8	82.1	265.5	131.3	121.4		12.56	50
***4SA140	30	477.0	135.7	-	97.3	-	2 xSTCAA2030 + 2 xSTCAA2040	20.74	58
	35	448.8	127.6	-	106.9	-		19.51	58
	40	420.8	119.7	-	113.7	-		18.30	57
	45	392.6	111.7	-	122.7	-		17.07	57
	50	364.7	103.7	-	130.3	-		15.86	56
	55	336.9	95.8	-	134.8	-		14.65	56
	60	309.4	88.0	-	140.6	-		13.45	55
***4SB140	30	439.1	124.9	423.6	91.5	77.28	2 xSTCAA2030 + 2 xSTCAA2040	19.09	55
	35	417.1	118.6	397.8	99.3	85.25		18.14	55
	40	395.8	112.6	372	107.0	93.22		17.21	54
	45	374.8	106.6	344.8	113.6	100.41		16.30	54
	50	354.1	100.7	317.6	122.1	107.6		15.40	53
	55	333.8	94.9	290.2	128.4	114.8		14.51	53
	60	313.8	89.2	265.6	136.4	122		13.64	52
***2SB140	30	447.6	127.3	450.2	95.2	83.6	2 xSTCAC2070	19.46	56
	35	424.5	120.7	423.6	106.1	92.5		18.45	56
	40	401.4	114.2	397.0	114.7	101.4		17.45	55
	45	377.8	107.5	369.8	121.9	109.3		16.43	55
	50	354.3	100.8	342.6	131.2	117.2		15.40	54
	55	329.9	93.8	316.0	143.4	125.4		14.34	54
	60	305.9	87.0	289.0	145.7	133.6		13.30	53

C.W.F.R :Cooler Water Flow Rate

C.P.D :Cooler Pressure Drop

IN.P :INPUT POWER

▲ Copeland Compressor

▲▲ Carrier Compressor

▲▲▲ Bitzer Compressor

- COOLING CAPACITIES (R22, R407C)

MODEL	COND TEMP	COOLING CAPACITY			IN.P (KW)		Condenser model for WLC	C.W.F.R Liter/S	C.P.D KPa
		KW(R22)	R.T(R22)	Kw(R407C)	R22	407C			
***3SB150	30	462.2	131.5	451.5	97.5	85.8	3 xSTCAC2050	20.10	58
	35	439.2	124.9	425.4	105.8	93.6		19.10	58
	40	416.9	118.6	399.3	113.6	101.4		18.13	57
	45	394.9	112.3	373.1	121.5	109.5		17.17	57
	50	373.3	106.2	346.8	129.2	117.6		16.23	56
	55	352.0	100.1	321.0	138.0	125.7		15.30	56
	60	331.0	94.1	295.2	147.1	134.5		14.39	54
***4SA160	30	523.9	149.0	-	111.5	-	4 xSTCAA2040	22.78	71
	35	497.3	141.4	-	121.3	-		21.62	71
	40	471.5	134.1	-	131.0	-		20.50	70
	45	446.2	126.9	-	143.9	-		19.40	70
	50	420.9	119.7	-	150.3	-		18.30	69
	55	396.5	112.8	-	158.6	-		17.24	69
	60	372.5	105.9	-	169.3	-		16.20	68
***4SB160	30	501.8	142.7	508.4	97.8	92.4	4 xSTCAA2040	21.82	70
	35	476.9	135.6	477.4	107.4	102.0		20.73	70
	40	452.3	128.6	446.4	116.3	111.6		19.67	69
	45	427.9	121.7	413.8	124.8	120.2		18.60	69
	50	403.8	114.9	381.2	133.7	128.8		17.56	68
	55	380.1	108.1	348.4	143.4	137.6		16.52	68
	60	356.5	101.4	319.2	155.0	146.4		15.50	67
***3SB170	30	541.5	154.0	526.1	108.3	99	2 xSTCAC2050 + STCAC2070	23.54	73
	35	514.5	146.3	495.4	119.6	108.65		22.37	73
	40	487.7	138.7	464.7	128.4	118.3		21.21	72
	45	460.9	131.1	433.6	139.7	127.65		20.04	72
	50	434.3	123.5	402.5	149.8	137		18.88	71
	55	408.1	116.1	372	157.0	147.2		17.75	71
	60	382.1	108.7	341.3	166.1	158.4		16.61	70
***3SB180	30	581.1	165.3	570.6	113.9	104.4	3 xSTCAC2060	25.26	79
	35	552.1	157.0	536.9	131.5	114.6		24.00	79
	40	523.1	148.8	503.1	137.7	124.8		22.75	78
	45	493.8	140.5	468.8	149.6	134.6		21.47	78
	50	464.9	132.2	434.4	160.3	144.3		20.21	77
	55	436.2	124.1	397.5	167.8	154.5		18.97	77
	60	407.6	115.9	363.0	181.2	163.8		17.72	76
***5SA200	30	677.1	192.6	-	144.1	-	5xSTCAA2040	29.44	44
	35	636.6	181.1	-	155.3	-		27.68	43
	40	597.2	169.8	-	165.9	-		25.96	43
	45	557.8	158.6	-	179.9	-		24.25	43
	50	519.5	147.7	-	185.5	-		22.59	42
	55	481.2	136.9	-	192.5	-		20.92	42
	60	444.0	126.3	-	201.8	-		19.30	41
***4SB200	30	616.3	175.3	602.0	130.0	114.4	4 xSTCAA2050	26.79	42
	35	585.6	166.6	567.2	141.1	124.8		25.46	42
	40	555.9	158.1	532.4	151.5	135.2		24.17	41
	45	526.6	149.8	497.4	162.0	146.0		22.89	41
	50	497.7	141.6	462.4	172.2	156.8		21.64	40
	55	469.3	133.5	428.0	184.0	167.2		20.40	40
	60	441.3	125.5	393.6	196.1	178.1		19.19	39
***3SB210	30	671.3	190.9	675.3	142.8	210.8	3 xSTCAC2070	29.19	80
	35	636.7	181.1	635.4	159.2	125.4		27.68	80
	40	602.1	171.2	595.5	172.0	138.8		26.18	79
	45	566.8	161.2	554.7	182.8	152.1		24.64	79
	50	531.5	151.2	513.9	196.8	164.0		23.11	78
	55	494.8	140.7	474.0	215.1	175.8		21.51	78
	60	458.9	130.5	433.5	218.5	188.1		19.95	77

C.W.F.R :Cooler Water Flow Rate

C.P.D :Cooler Pressure Drop

IN.P :INPUT POWER

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▲▲▲ Bitzer Compressor

- COOLING CAPACITIES (R22, R407C)

MODEL	COND TEMP	COOLING CAPACITY			IN.P (KW)		Condenser model for WLC	C.W.F.R Liter/S	C.P.D KPa
		KW(R22)	R.T(R22)	Kw(R407C)	R22	407C			
▲▲▲ ***6SA240	30	812.5	231.1	-	172.9	-	6xSTCAA2040	35.33	44
	35	763.9	217.3	-	186.3	-		33.21	44
	40	716.6	203.8	-	199.1	-		31.16	43
	45	669.3	190.4	-	215.9	-		29.10	43
	50	623.4	177.3	-	222.6	-		27.10	42
	55	577.4	164.2	-	231.0	-		25.11	42
	60	532.8	151.5	-	242.2	-		23.17	41
▲▲▲ ***6SB240	30	785.9	223.5	762.6	153.2	138.6	6xSTCAA2040	34.17	56
	35	745.9	212.2	716.1	168.0	153.0		32.43	56
	40	707.1	201.1	669.6	181.8	167.4		30.74	55
	45	669.3	190.4	620.7	195.1	180.3		29.10	55
	50	631.6	179.6	571.8	209.1	193.2		27.46	54
	55	595.0	169.2	522.6	224.5	206.4		25.87	54
	60	559.4	159.1	478.8	243.2	219.6		24.32	53
▲▲▲ ***4SB240	30	774.8	220.4	760.8	151.9	139.2	4 xSTCAB2060	33.69	54
	35	736.2	209.4	715.8	175.3	152.8		32.01	54
	40	697.5	198.4	670.8	183.6	166.4		30.33	53
	45	658.5	187.3	625.0	199.5	179.4		28.63	53
	50	619.8	176.3	579.2	213.7	192.4		26.95	52
	55	581.6	165.4	530.0	223.7	206.0		25.29	52
	60	543.5	154.6	484.0	241.5	218.4		23.63	51
▲▲▲ ***5SB250	30	770.3	219.1	752.5	162.5	143.0	5xSTCAA2050	33.49	54
	35	732.0	208.2	709.0	176.4	156.0		31.83	54
	40	694.9	197.6	665.5	189.3	169.0		30.21	53
	45	658.2	187.2	621.8	202.5	182.5		28.62	53
	50	622.2	176.9	578.0	215.3	196.0		27.05	52
	55	586.6	166.8	535.0	230.1	210.6		25.51	52
	60	551.7	156.9	492.0	245.2	225.1		23.99	51
▲▲▲ ***4SB280	30	895.1	254.6	900.4	190.4	167.2	4 xSTCAB2070	38.92	63
	35	848.9	241.4	847.2	212.2	185.0		36.91	63
	40	802.8	228.3	794.0	229.4	202.8		34.90	62
	45	755.7	214.9	739.6	243.8	218.6		32.86	62
	50	708.6	201.5	685.2	262.5	234.4		30.81	61
	55	659.8	187.7	632.0	286.9	250.8		28.69	61
	60	611.8	174.0	578.0	291.3	267.2		26.60	60
▲▲▲ ***5SB300	30	968.5	275.4	951.0	189.9	174	5xSTCAB2060	42.11	66
	35	920.2	261.7	894.8	219.1	191		40.01	66
	40	871.9	248.0	838.5	229.4	203		37.91	65
	45	823.1	234.1	781.3	249.4	224		35.79	65
	50	774.8	220.4	724.0	267.2	240.5		33.69	64
	55	727.1	206.8	662.5	279.6	257.5		31.61	64
	60	679.3	193.2	605.0	301.9	273		29.54	63
▲▲▲ ***5SB350	30	1118.9	318.2	1125.5	238.1	209.0	5xSTCAB2070	48.65	77
	35	1061.2	301.8	1059.0	265.3	231.3		46.14	77
	40	1003.4	285.4	992.5	286.7	253.5		43.63	76
	45	944.6	268.7	924.5	304.7	273.3		41.07	76
	50	885.8	251.9	856.5	328.1	293.0		38.51	75
	55	824.7	234.6	790.0	358.6	313.5		35.86	75
	60	764.8	217.5	722.5	364.2	334.0		33.25	74
▲▲▲ ***6SB420	30	1342.7	381.9	1350.6	285.7	250.8	6xSTCAB2070	58.38	86
	35	1273.4	362.2	1270.8	318.3	277.5		55.36	86
	40	1204.1	342.5	1191.0	344.0	304.2		52.35	85
	45	1133.5	322.4	1109.4	365.7	327.9		49.28	85
	50	1062.9	302.3	1027.8	393.7	351.6		46.21	84
	55	989.7	281.5	948.0	430.3	376.2		43.03	84
	60	917.7	261.0	867.0	437.0	400.8		39.90	83

C.W.F.R :Cooler Water Flow Rate

C.P.D :Cooler Pressure Drop

IN.P :INPUT POWER

▲ Copeland Compressor

▲▲ Carrier Compressor

▲▲▲ Bitzer Compressor

- COOLING CAPACITIES (R22, R407C)

MODEL	COND TEMP	COOLING CAPACITY			IN.P (KW)		Condenser model for WLC	C.W.F.R Liter/S	C.P.D KPa
		KW(R22)	R.T(R22)	Kw(R407C)	R22	407C			
▲▲▲ ***1EB050	30	143.6	40.9	139.6	28.7	25.2	STCAA2050	6.24	31
	35	136.2	38.7	131.95	31.7	27.6		5.92	31
	40	128.8	36.6	124.3	34.8	30		5.60	30
	45	120.1	34.2	115.15	37.5	33.45		5.22	30
	50	111.3	31.7	106	41.2	36.9		4.84	29
	55	101.9	29.0	95.8	44.3	40.7		4.43	29
	60	91.0	25.9	85.5	47.9	44.7		3.96	28
▲▲▲ ***1EB060	30	177.5	50.5	172.5	34.8	30.8	STCAB2060	7.72	40
	35	169.4	48.2	163.15	38.5	34		7.36	40
	40	161.4	45.9	153.8	42.5	37.2		7.02	39
	45	151.5	43.1	142.9	45.9	41.3		6.59	39
	50	141.7	40.3	132	50.6	45.4		6.16	38
	55	130.5	37.1	120.4	56.8	50.6		5.68	38
	60	118.9	33.8	109	62.6	55.8		5.17	37
▲▲▲ ***1EB070	30	212.0	60.3	207.5	41.6	36	STCAB2070	9.22	29
	35	200.7	57.1	196.45	44.6	39.4		8.73	29
	40	189.3	53.8	185.4	48.5	42.8		8.23	28
	45	175.2	49.8	171.7	53.1	47.1		7.62	28
	50	161.1	45.8	158	57.5	51.3		7.00	27
	55	145.6	41.4	142.6	63.3	56.7		6.33	27
	60	125.4	35.7	132.5	69.7	61.8		5.45	26
▲▲▲ ***1EB080	30	243.4	69.2	236.5	47.7	41.7	STCAB2080	10.58	35
	35	230.9	65.7	223.6	52.5	45.95		10.04	35
	40	218.3	62.1	210.7	57.5	50.2		9.49	34
	45	203.7	57.9	195.25	63.7	55.65		8.86	34
	50	189.1	53.8	179.8	67.6	61.1		8.22	33
	55	173.0	49.2	162.7	75.2	67.4		7.52	33
	60	157.0	44.6	145	82.6	73.6		6.82	32
▲▲▲ ***1EB090	30	275.4	78.3	267.6	53.0	46.7	STCAC2090	11.97	35
	35	263.0	74.8	253.05	58.4	51.55		11.43	35
	40	250.5	71.3	238.5	64.2	56.4		10.89	34
	45	235.4	67.0	221.8	71.3	62.65		10.24	34
	50	220.2	62.6	205.1	78.7	68.9		9.57	33
	55	203.0	57.7	187.3	84.6	76.8		8.83	33
	60	185.4	52.7	169	92.7	86		8.06	32
▲▲▲ ***2EB100	30	287.4	81.7	279.2	57.5	50.4	2 xSTCAC2050	12.49	35
	35	272.5	77.5	263.9	63.4	55.2		11.85	35
	40	257.5	73.2	248.6	69.6	60		11.20	34
	45	240.2	68.3	230.3	75.1	66.9		10.44	34
	50	222.8	63.4	212.0	82.5	73.8		9.69	33
	55	203.7	57.9	191.6	88.6	81.4		8.86	33
	60	182.0	51.8	171.0	95.8	89.4		7.91	32
▲▲▲ ***1EB110	30	349.2	99.3	341.1	64.7	56.7	STCAC2110	15.18	44
	35	330.4	94.0	322.95	70.3	62.05		14.37	44
	40	311.6	88.6	304.8	76.0	67.4		13.55	43
	45	288.5	82.1	282.25	82.4	74.1		12.54	43
	50	265.3	75.5	259.7	91.5	80.8		11.53	42
	55	239.6	68.2	234.4	99.9	89.4		10.42	42
	60	215.1	61.2	208	107.6	99		9.35	41
▲▲▲ ***2EB120	30	354.9	100.9	345.0	69.6	61.6	2 xSTCAC2060	15.43	45
	35	338.9	96.4	326.3	77.0	68		14.73	45
	40	322.8	91.8	307.6	84.9	74.4		14.03	44
	45	303.1	86.2	285.8	91.9	82.6		13.18	44
	50	283.4	80.6	264.0	101.2	90.8		12.32	43
	55	261.2	74.3	240.8	113.6	101.2		11.36	43
	60	237.8	67.6	218.0	125.1	111.6		10.34	42

C.W.F.R :Cooler Water Flow Rate

C.P.D :Cooler Pressure Drop

IN.P :INPUT POWER

▲ Copeland Compressor

▲▲ Carrier Compressor

▲▲▲ Bitzer Compressor

- COOLING CAPACITIES (R22, R407C)

MODEL	COND TEMP	COOLING CAPACITY			IN.P (KW)		Condenser model for WLC	C.W.F.R Liter/S	C.P.D KPa
		(KW/R22)	(R.T/R22)	(Kw/R407C)	R22	407C			
▲▲▲ ***1EB125	30	396.5	112.8	385.4	74.8	65	STCAC2125	17.24	53
	35	376.1	107.0	364.35	81.8	71.6		16.35	53
	40	355.6	101.2	343.3	88.9	78.2		15.46	52
	45	331.9	94.4	318.05	97.6	86.75		14.43	52
	50	308.1	87.6	292.8	106.3	95.3		13.40	51
	55	281.8	80.2	265	117.4	105.2		12.25	561
	60	255.3	72.6	237	127.7	115.3		11.10	50
▲▲▲ ***2EB140	30	424.1	120.6	415.0	83.2	72	2 xSTCAC2070	18.44	55
	35	401.3	114.1	392.9	89.2	78.8		17.45	55
	40	378.5	107.7	370.8	97.1	85.6		16.46	54
	45	350.3	99.6	343.4	106.2	94.1		15.23	54
	50	322.1	91.6	316.0	115.0	102.6		14.01	53
	55	291.2	82.8	285.2	126.6	113.4		12.66	53
	60	250.9	71.3	265.0	139.4	123.6		10.91	52
▲▲▲ ***1EB140	30	450.7	128.2	438	83.5	73.1	STCAC2140	19.59	58
	35	430.5	122.4	414.15	91.6	80.7		18.72	58
	40	410.3	116.7	390.3	100.1	88.3		17.84	57
	45	400	113.8	376	111.6	98.1		55.78	57
	50	360.5	102.5	335.8	124.3	107.9		15.68	56
	55	332.3	94.5	306.6	132.9	120.3		14.45	56
	60	304.6	86.6	277.5	145.0	132.5		13.24	55
▲▲▲ ***3EB150	30	431.0	122.6	418.8	81.3	75.6	3 xSTCAC2050	18.74	55
	35	408.7	116.2	395.9	88.8	82.8		17.77	55
	40	386.4	109.9	372.9	96.6	90.0		16.80	54
	45	360.2	102.4	345.5	105.9	100.4		15.66	54
	50	334.1	95.0	318.0	115.2	110.7		14.53	53
	55	305.6	86.9	287.4	127.3	122.1		13.29	53
	60	273.1	77.7	256.5	136.5	134.1		11.87	52
▲▲▲ ***2EB160	30	486.8	138.5	473.0	95.5	83.4	2 xSTCAC2060	21.17	59
	35	461.8	131.3	447.2	104.9	91.9		20.08	59
	40	436.7	124.2	421.4	114.9	100.4		18.99	58
	45	407.5	115.9	390.5	127.3	111.3		17.72	58
	50	378.3	107.6	359.6	135.1	122.2		16.45	57
	55	346.1	98.4	325.4	150.5	134.8		15.05	57
	60	313.9	89.3	290.0	165.2	147.2		13.65	56
▲▲▲ ***3EB180	30	709.7	201.9	517.5	139.2	92.4	3 xSTCAC2060	30.86	46
	35	677.8	192.8	489.5	154.0	102.0		29.47	46
	40	645.7	183.6	461.4	169.9	111.6		28.07	45
	45	606.3	172.4	428.7	183.7	123.9		26.36	45
	50	566.8	161.2	396.0	202.4	136.2		24.64	44
	55	522.4	148.6	361.2	227.1	151.8		22.71	44
	60	475.5	135.2	327.0	250.3	167.4		20.67	43
▲▲▲ ***2EB180	30	550.7	156.6	535.2	105.9	93.4	2 xSTCAC2090	23.94	71
	35	525.9	149.6	506.1	116.9	103.1		22.87	71
	40	501.2	142.5	477.0	128.5	112.8		21.79	70
	45	470.9	133.9	443.6	142.7	125.3		20.47	70
	50	440.6	125.3	410.2	157.3	137.8		19.15	69
	55	406.0	115.5	374.6	169.2	153.6		17.65	69
	60	370.7	105.4	338.0	185.4	172		16.12	68
▲▲▲ ***4EB200	30	574.8	163.5	558.4	115.0	100.8	4 xSTCAA2050	24.99	78
	35	544.9	155.0	527.8	126.7	110.4		23.69	78
	40	515.2	146.5	497.2	139.2	120.0		22.40	77
	45	480.3	136.6	460.6	150.1	133.8		20.88	77
	50	445.6	126.7	424.0	165.0	147.6		19.37	76
	55	407.4	115.9	383.2	177.1	162.8		17.71	76
	60	364.1	103.5	342.0	191.6	178.8		15.83	75

C.W.F.R :Cooler Water Flow Rate

C.P.D :Cooler Pressure Drop

IN.P :INPUT POWER

▲ Copeland Compressor

▲▲ Carrier Compressor

▲▲▲ Bitzer Compressor

- COOLING CAPACITIES (R22, R407C)

MODEL	COND TEMP	COOLING CAPACITY			IN.P (KW)		Condenser model for WLC	C.W.F.R Liter/S	C.P.D KPa
		(KW/R22)	(R.T/R22)	(KW/R407C)	R22	407C			
***3EB210	30	636.1	180.9	622.5	124.7	108.0	3 xSTCAC2070	27.66	45
	35	602.0	171.2	589.4	133.8	118.2		26.17	45
	40	567.8	161.5	556.2	145.6	128.4		24.69	44
	45	525.5	149.5	515.1	159.2	141.2		22.85	44
	50	483.3	137.5	474.0	172.6	153.9		21.01	43
	55	436.8	124.2	427.8	189.9	170.1		18.99	43
	60	376.3	107.0	397.5	209.1	185.4		16.36	42
***2EB220	30	698.5	198.7	682.2	129.4	113.4	2 xSTCAC2110	30.37	45
	35	660.9	188.0	645.9	140.6	124.1		28.73	45
	40	623.2	177.2	609.6	152.0	134.8		27.09	44
	45	576.9	164.1	564.5	164.8	148.2		25.08	44
	50	530.6	150.9	519.4	183.0	161.6		23.07	43
	55	479.3	136.3	468.8	199.7	178.8		20.84	43
	60	430.2	122.4	416.0	215.1	198		18.71	41
***3EB240	30	730.4	207.7	709.5	143.2	125.1	3 xSTCAD2080	31.76	46
	35	692.6	197.0	670.8	157.4	137.9		30.11	46
	40	655.0	186.3	632.1	172.4	150.6		28.48	45
	45	611.2	173.8	585.8	191.0	167.0		26.57	45
	50	567.3	161.4	539.4	202.6	183.3		24.67	44
	55	519.1	147.7	488.1	225.7	202.2		22.57	44
	60	470.9	133.9	435.0	247.8	220.8		20.47	43
***4EB240	30	709.7	201.9	690.0	139.2	123.2	4 xSTCAB2080	30.86	46
	35	677.8	192.8	652.6	154.0	136.0		29.47	46
	40	645.7	183.6	615.2	169.9	148.8		28.07	45
	45	606.3	172.4	571.6	183.7	165.2		26.36	45
	50	566.8	161.2	528.0	202.4	181.6		24.64	44
	55	522.4	148.6	481.6	227.1	202.4		22.71	44
	60	475.5	135.2	436.0	250.3	223.2		20.67	43
***2EB250	30	792.9	225.5	770.8	149.6	130	2 xSTCAD2125	34.47	55
	35	752.1	213.9	728.7	163.5	143.2		32.70	55
	40	711.3	202.3	686.6	177.8	156.4		30.93	54
	45	663.8	188.8	636.1	195.2	173.5		28.86	54
	50	616.3	175.3	585.6	212.5	190.6		26.79	53
	55	563.8	160.3	530.0	234.9	210.4		24.51	53
	60	510.6	145.2	474.0	255.3	230.6		22.20	52
***3EB270	30	826.1	234.9	802.8	158.9	140.1	3 xSTCAD2090	35.92	57
	35	788.9	224.4	759.2	175.3	154.7		34.30	57
	40	751.7	213.8	715.5	192.7	169.2		32.68	56
	45	706.3	200.9	665.4	214.0	188.0		30.71	56
	50	660.8	187.9	615.3	236.0	206.7		28.73	55
	55	609.2	173.3	561.9	253.8	230.4		26.49	55
	60	556.1	158.2	507.0	278.1	258.0		24.18	54
***2EB280	30	901.3	256.3	876.0	166.9	146.2	2 xSTCAD2140	39.19	64
	35	860.9	244.9	828.3	183.2	161.4		37.43	64
	40	820.5	233.4	780.6	200.1	176.6		35.67	63
	45	800	227.6	752	223.1	196.2		33.91	63
	50	721.2	205.1	671.6	248.7	215.8		31.36	62
	55	664.8	189.1	613.2	265.9	240.6		28.90	62
	60	609.2	173.3	555.0	290.1	265		26.49	61
***4EB280	30	848.3	241.3	830.0	166.3	144.0	4 xSTCAB2070	36.88	58
	35	802.6	228.3	785.8	178.4	157.6		34.90	58
	40	757.0	215.3	741.6	194.1	171.2		32.91	57
	45	700.6	199.3	686.8	212.3	188.2		30.46	57
	50	644.4	183.3	632.0	230.1	205.2		28.02	56
	55	582.3	165.6	570.4	253.2	226.8		25.32	56
	60	501.7	142.7	530.0	278.7	247.2		21.81	55

C.W.F.R :Cooler Water Flow Rate

C.P.D :Cooler Pressure Drop

IN.P :INPUT POWER

▲ Copeland Compressor

▲▲ Carrier Compressor

▲▲▲ Bitzer Compressor

- COOLING CAPACITIES (R22, R407C)

MODEL	COND TEMP	COOLING CAPACITY			IN.P (KW)		Condenser model for WLC	C.W.F.R Liter/S	C.P.D KPa
		(KW/R22)	(R.T/R22)	(Kw/R407C)	R22	407C			
▲▲▲ ***4EB320	30	973.8	277.0	946.0	190.9	166.8	4 xSTCAB2080	42.34	66
	35	923.5	262.7	894.4	209.9	183.8		40.15	66
	40	873.3	248.4	842.8	229.8	200.8		37.97	65
	45	815.0	231.8	781.0	254.7	222.6		35.43	65
	50	756.5	215.1	719.2	270.2	244.4		32.89	64
	55	692.2	196.9	650.8	301.0	269.6		30.10	64
	60	627.8	178.6	580.0	330.4	294.4		27.30	63
▲▲▲ ***3EB330	30	1047.7	298.0	1023.3	194.0	170.1	3 xSTCAd2110	45.55	83
	35	991.2	281.9	968.9	210.9	186.2		43.10	83
	40	934.8	265.9	914.4	228.0	202.2		40.65	82
	45	865.4	246.1	846.8	247.2	222.3		37.62	82
	50	795.9	226.4	779.1	274.4	242.4		34.60	81
	55	719.1	204.5	703.2	299.6	268.2		31.26	81
	60	645.4	183.5	624.0	322.7	297.0		28.06	81
▲▲▲ ***4EB360	30	1101.3	313.2	1070.4	211.8	186.8	4 xSTCAB2090	47.88	85
	35	1051.8	299.2	1012.2	233.7	206.2		45.73	85
	40	1002.3	285.1	954.0	257.0	225.6		43.58	84
	45	941.7	267.8	887.2	285.4	250.6		40.94	84
	50	881.1	250.6	820.4	314.7	275.6		38.31	83
	55	812.2	231.0	749.2	338.4	307.2		35.31	83
	60	741.5	210.9	676.0	370.7	344.0		32.24	81
▲▲▲ ***3EB375	30	1189.4	338.3	1156.2	224.4	195.0	3 xSTCADC2125	51.71	79
	35	1128.1	320.8	1093.1	245.2	214.8		49.05	79
	40	1066.9	303.5	1029.9	266.7	234.6		46.39	78
	45	995.7	283.2	954.2	292.8	260.3		43.29	78
	50	924.4	262.9	878.4	318.8	285.9		40.19	77
	55	845.6	240.5	795.0	352.3	315.6		36.77	77
	60	765.9	217.8	711.0	383.0	345.9		33.30	76
▲▲▲ ***3EB420	30	1352.0	384.5	1314.0	250.4	219.3	3 xSTCADC2125	58.78	86
	35	1291.4	367.3	1242.5	274.8	242.1		56.15	86
	40	1230.7	350.0	1170.9	300.2	264.9		53.51	85
	45	1200	341.4	1128	334.7	294.3		167.36	85
	50	1081.7	307.6	1007.4	373.0	323.7		47.03	84
	55	997.1	283.6	919.8	398.8	360.9		43.35	84
	60	913.8	259.9	832.5	435.1	397.5		39.73	83
▲▲▲ ***4EB440	30	1397.0	397.3	1364.4	258.7	226.8	4 xSTCADC2110	60.74	88
	35	1321.7	375.9	1291.8	281.2	248.2		57.46	88
	40	1246.4	354.5	1219.2	304.0	269.6		54.19	87
	45	1153.7	328.1	1129.0	329.6	296.4		50.16	87
	50	1061.2	301.8	1038.8	365.9	323.2		46.14	86
	55	958.7	272.7	937.6	399.5	357.6		41.68	86
	60	860.5	244.7	832.0	430.2	396.0		37.41	85
▲▲▲ ***4EB500	30	1585.7	451.0	1541.6	299.2	260.0	4 xSTCADC2125	68.95	89
	35	1504.2	427.8	1457.4	327.0	286.4		65.40	89
	40	1422.6	404.6	1373.2	355.6	312.8		61.85	88
	45	1327.6	377.6	1272.2	390.5	347.0		57.72	88
	50	1232.5	350.6	1171.2	425.0	381.2		53.59	87
	55	1127.5	320.7	1060.0	469.8	420.8		49.02	87
	60	1021.2	290.4	948.0	510.6	461.2		44.40	86
▲▲▲ ***4EB560	30	1802.6	512.7	1752.0	333.8	292.4	4 xSTCADC2140	78.38	93
	35	1721.8	489.7	1656.6	366.3	322.8		74.86	93
	40	1640.9	466.7	1561.2	400.2	353.2		71.34	92
	45	1600	455.2	1504	446.3	392.4		223.14	92
	50	1442.3	410.2	1343.2	497.4	431.6		62.71	91
	55	1329.6	378.1	1226.4	531.8	481.2		57.81	91
	60	1218.3	346.5	1110.0	580.2	530.0		52.97	90

C.W.F.R :Cooler Water Flow Rate

C.P.D :Cooler Pressure Drop

IN.P :INPUT POWER

▲ Copeland Compressor

▲▲ Carrier Compressor

▲▲▲ Bitzer Compressor

- COOLING CAPACITIES (R134a)

MODEL	COND TEMP	COOLING CAPACITY			IN.P (KW)	R134a	Condenser model for WLC	C.W.F.R Liter/S	C.P.D KPa
		KW(R134a)	R.T(R134a)						
▲▲▲ ***1EB035	30	95.8	27.24	-	16.87	-	STCAA2035	4.12	31
	35	93.3	26.53	-	18.71	-		4.01	31
	40	90.1	25.62	-	20.8	-		3.87	30
	45	86.4	24.57	-	23.1	-		3.71	30
	50	82.1	23.35	-	25.8	-		3.53	29
	55	77.3	21.98	-	28.9	-		3.32	29
	60	72.1	20.50	-	32.4	-		3.10	28
▲▲▲ ***1EB060	30	116.1	33.02	-	20.7	-	STCAB2060	4.99	40
	35	112.9	32.11	-	22.8	-		4.85	40
	40	109	31.00	-	25.1	-		4.68	39
	45	104.4	29.69	-	27.7	-		4.48	39
	50	99.4	28.27	-	30.6	-		4.27	38
	55	94.1	26.76	-	34.1	-		4.04	38
	60	88.4	25.14	-	38.3	-		3.80	37
▲▲▲ ***1EB070	30	145.5	41.38	-	25.3	-	STCAB2070	6.25	29
	35	141.2	40.15	-	28.2	-		6.07	29
	40	135.9	38.65	-	31.3	-		5.84	28
	45	129.8	36.91	-	34.7	-		5.58	28
	50	122.8	34.92	-	38.6	-		5.28	27
	55	115.0	32.70	-	43.2	-		4.94	27
	60	106.5	30.29	-	48.6	-		4.57	26
▲▲▲ ***2EB070	30	191.6	54.48	-	33.74	-	STCAB2070	8.24	35
	35	186.6	53.06	-	37.42	-		8.02	35
	40	180.2	51.24	-	41.6	-		7.74	34
	45	172.8	49.14	-	46.2	-		7.42	34
	50	164.2	46.7	-	51.6	-		7.06	33
	55	154.6	43.96	-	57.8	-		6.64	33
	60	144.2	41.00	-	64.8	-		6.2	32
▲▲▲ ***1EB080	30	167.3	47.58	-	28	-	STCAB2080	7.19	35
	35	162.7	46.27	-	31.1	-		6.99	35
	40	157.2	44.70	-	34.8	-		6.76	34
	45	150.8	42.88	-	39.1	-		6.48	34
	50	143.4	40.78	-	44.1	-		6.16	33
	55	135.2	38.45	-	49.9	-		5.81	33
	60	126	35.83	-	56.8	-		5.41	32
▲▲▲ ***1EB090	30	180.4	51.30	-	31.8	-	STCAC2090	7.75	35
	35	175.6	49.94	-	35	-		7.55	35
	40	169.9	48.32	-	38.6	-		7.30	34
	45	163.3	46.44	-	42.7	-		7.02	34
	50	156	44.36	-	47.5	-		6.70	33
	55	147.9	42.06	-	53.2	-		6.30	33
	60	139.2	39.59	-	60.1	-		5.98	32
▲▲▲ ***1EB110	30	236	67.12	-	38.2	-	STCAC2110	10.14	44
	35	230	65.41	-	42.9	-		9.89	44
	40	223	63.42	-	48.2	-		9.58	43
	45	215	61.14	-	54.2	-		9.24	43
	50	207	58.87	-	61.3	-		8.90	42
	55	197.3	56.11	-	69.7	-		8.48	42
	60	187.3	53.27	-	79.6	-		8.05	41
▲▲▲ ***2EB120	30	232.2	66.04	-	41.14	-	2 xSTCAC2060	9.98	45
	35	225.8	64.22	-	45.6	-		9.7	45
	40	218	62	-	50.2	-		9.36	44
	45	208.8	59.38	-	55.4	-		8.96	44
	50	198.8	56.54	-	61.2	-		8.54	43
	55	188.2	53.52	-	68.2	-		8.08	43
	60	176.8	50.28	-	76.6	-		7.6	42

C.W.F.R : Cooler Water Flow Rate

C.P.D : Cooler Pressure Drop

IN.P : INPUT POWER

▲ Copeland Compressor

▲▲ Carrier Compressor

▲▲▲ Bitzer Compressor

- COOLING CAPACITIES (R134a)

MODEL	COND TEMP	COOLING CAPACITY		IN.P (KW)		Condenser model for WLC	C.W.F.R Liter/S	C.P.D KPa
		KW(R134a)	R.T(R134a)		R134a			
***1EB125	30	344	97.83	-	59.01	STCAC2125	14.79	53
	35	335	95.27	-	64.2		14.40	53
	40	324	92.15	-	70.6		13.93	52
	45	311	88.45	-	78.2		13.37	52
	50	297	84.47	-	87.1		12.77	51
	55	281	79.92	-	97.3		12.08	50
	60	264	75.08	-	108.8		11.35	50
	30	291	82.76	-	50.6	2 xSTCAC2070	12.5	55
***2EB140	35	282.4	80.3	-	56.4		12.14	55
	40	271.8	77.3	-	62.6		11.68	54
	45	259.6	73.82	-	69.4		11.16	54
	50	245.6	69.84	-	77.2		10.56	53
	55	230	65.4	-	86.4		9.88	53
	60	213	60.58	-	97.2		9.14	52
	30	379	107.79	-	65.2	STCAC2140	16.29	58
***1EB140	35	369	104.94	-	71.1		15.86	58
	40	357	101.53	-	78.4		15.35	57
	45	345	98.12	-	86.9		14.83	57
	50	331	94.14	-	97		14.23	56
	55	315	89.59	-	108.6		13.54	56
	60	299	85.03	-	122.1		12.85	55
	30	287.4	81.72	-	50.61	3 xSTCAC2050	12.36	55
***3EB150	35	279.9	79.59	-	56.13		12.03	55
	40	270.3	76.86	-	62.4		11.61	54
	45	259.2	73.71	-	69.3		11.13	54
	50	246.3	70.05	-	77.4		10.59	53
	55	231.9	65.94	-	86.7		9.96	53
	60	216.3	61.5	-	97.2		9.3	52
	30	334.6	95.16	-	56	2 xSTCAC2060	14.38	59
***2EB160	35	325.4	92.54	-	62.2		13.98	59
	40	314.4	89.4	-	69.6		13.52	58
	45	301.6	85.76	-	78.2		12.96	58
	50	286.8	81.56	-	88.2		12.32	57
	55	270.4	76.9	-	99.8		11.62	57
	60	252	71.66	-	113.6		10.82	56
	30	348.3	99.06	-	62.1	3 xSTCAC2060	14.97	46
***3EB180	35	338.7	96.33	-	68.4		14.55	46
	40	327	93	-	75.3		14.04	45
	45	313.2	89.07	-	83.1		13.44	45
	50	298.2	84.81	-	91.8		12.81	44
	55	282.3	80.28	-	102.3		12.12	44
	60	265.2	75.42	-	114.9		11.4	43
	30	360.8	102.6	-	63.6	2 xSTCAC2090	15.5	71
***2EB180	35	351.2	99.88	-	70		15.1	71
	40	339.8	96.64	-	77.2		14.6	70
	45	326.6	92.88	-	85.4		14.04	70
	50	312	88.72	-	95		13.4	69
	55	295.8	84.12	-	106.4		12.72	69
	60	278.4	79.18	-	120.2		11.96	68
	30	383.2	108.96	-	67.48	4 xSTCAA2050	16.48	78
***4EB200	35	373.2	106.12	-	74.84		16.04	78
	40	360.4	102.48	-	83.2		15.48	77
	45	345.6	98.28	-	92.4		14.84	77
	50	328.4	93.4	-	103.2		14.12	76
	55	309.2	87.92	-	115.6		13.28	76
	60	288.4	82	-	129.6		12.4	75

C.W.F.R : Cooler Water Flow Rate

C.P.D : Cooler Pressure Drop

IN.P : INPUT POWER

▲ Copeland Compressor

▲▲ Carrier Compressor

▲▲▲ Bitzer Compressor

- COOLING CAPACITIES (R134a)

MODEL	COND	COOLING CAPACITY			IN.P (KW)		Condenser model for WLC	C.W.F.R Liter/S	C.P.D KPa
	TEMP	KW(R134a)	R.T.(R134a)	R134a					
***3EB210	30	436.5	124.14	-	75.9	-	3 xSTCAC2070	18.75	45
	35	423.6	120.45	-	84.6	-		18.21	45
	40	407.7	115.95	-	93.9	-		17.52	44
	45	389.4	110.73	-	104.1	-		16.74	44
	50	368.4	104.76	-	115.8	-		15.82	43
	55	345	98.1	-	129.6	-		14.82	43
***2EB220	60	319.5	90.87	-	145.8	-		13.71	42
	30	472	134.24	-	76.4	-	2 xSTCAC2110	20.28	45
	35	460	130.82	-	85.8	-		19.78	45
	40	446	126.84	-	96.4	-		19.16	44
	45	430	122.28	-	108.4	-		18.48	44
	50	414	117.74	-	122.6	-		17.8	43
***3EB240	55	394.6	112.22	-	139.4	-		16.96	43
	60	374.6	106.54	-	159.2	-	16.1	41	
	30	501.9	142.74	-	84	-	3 xSTCAD2080	21.57	46
	35	488.1	138.81	-	93.3	-		20.97	46
	40	471.6	134.1	-	104.4	-		20.28	45
	45	452.4	128.64	-	117.3	-		19.44	45
50	430.2	122.34	-	132.3	-	18.48		44	
55	405.6	115.35	-	149.7	-	17.43		44	
***4EB240	60	378	107.49	-	170.4	-	16.23	43	
	30	464.4	132.08	-	82.8	-	4 xSTCAB2060	19.96	46
	35	451.6	128.44	-	91.2	-		19.4	46
	40	436	124	-	100.4	-		18.72	45
	45	417.6	118.76	-	110.8	-		17.92	45
	50	397.6	113.08	-	122.4	-		17.08	44
55	376.4	107.04	-	136.4	-	16.16		44	
***2EB250	60	353.6	100.56	-	153.2	-	15.2	43	
	30	688	195.66	-	118.2	-	2 xSTCAD2125	29.58	55
	35	670	190.54	-	128.4	-		28.8	55
	40	648	184.3	-	141.2	-		27.86	54
	45	622	176.9	-	156.4	-		26.74	54
	50	594	168.94	-	174.2	-		25.54	53
55	562	159.84	-	194.6	-	24.16		53	
***3EB270	60	528	150.16	-	217.6	-	22.7	52	
	30	541.2	153.9	-	95.4	-	3 xSTCAD2090	23.25	57
	35	526.8	149.82	-	105	-		22.65	57
	40	509.7	144.96	-	115.8	-		21.9	56
	45	489.9	139.32	-	128.1	-		21.06	56
	50	468	133.08	-	142.5	-		20.1	55
55	443.7	126.18	-	159.6	-	19.08		55	
***2EB280	60	417.6	118.77	-	180.3	-	17.94	54	
	30	758	215.58	-	130.4	-	2 xSTCAD2140	32.58	64
	35	738	209.88	-	142.2	-		31.72	64
	40	714	203.06	-	156.8	-		30.7	63
	45	690	196.24	-	173.8	-		29.66	63
	50	662	188.28	-	194	-		28.46	62
55	630	179.18	-	217.2	-	27.08		62	
***4EB280	60	598	170.06	-	244.2	-	25.7	61	
	30	582	165.52	-	101.2	-	4 xSTCAB2070	25	58
	35	564.8	160.6	-	112.8	-		24.28	58
	40	543.6	154.6	-	125.2	-		23.36	57
	45	519.2	147.64	-	138.8	-		22.32	57
	50	491.2	139.68	-	154.4	-		21.12	56
55	460	130.8	-	172.8	-	19.76		56	
	60	426	121.16	-	194.4	-	18.28	55	

C.W.F.R :Cooler Water Flow Rate

C.P.D :Cooler Pressure Drop

IN.P :INPUT POWER

▲ Copeland Compressor

▲▲ Carrier Compressor

▲▲▲ Bitzer Compressor

- COOLING CAPACITIES (R134a)

MODEL	COND TEMP	COOLING CAPACITY		IN.P (KW)		Condenser model for WLC	C.W.F.R Liter/S	C.P.D KPa
		KW(R134a)	R.T(R134a)	R134a				
▲▲▲ ***4EB320	30	669.2	190.32	112		4 xSTCAB2080	28.76	66
	35	650.8	185.08	124.4			27.96	66
	40	628.8	178.8	139.2			27.04	65
	45	603.2	171.52	156.4			25.92	65
	50	573.6	163.12	176.4			24.64	64
	55	540.8	158.3	199.6			23.24	64
	60	504	143.32	227.2			21.64	63
▲▲▲ ***3EB330	30	708	201.36	114.6		3 xSTCAD2110	30.42	83
	35	690	196.23	128.7			29.67	83
	40	669	190.26	144.6			28.74	82
	45	645	183.42	162.6			27.72	82
	50	621	176.61	183.9			26.7	81
	55	591.9	168.33	209.1			25.44	81
	60	561.9	159.81	238.8			24.15	81
▲▲▲ ***2EB360	30	1020	290.1	166.2		2 xSTCAD2180	43.86	85
	35	1000	284.4	184.2			43	85
	40	972	276.44	206.2			41.78	84
	45	938	266.78	232.2			40.32	84
	50	900	255.96	262			38.7	83
	55	858	244.02	295.2			36.88	83
	60	812	230.8	331.8			34.9	81
▲▲▲ ***3EB375	30	1032	293.49	177.3		3 xSTCAD2125	44.37	79
	35	1005	285.81	192.6			43.2	79
	40	972	276.45	211.8			41.79	78
	45	933	265.35	234.6			40.11	78
	50	891	253.41	261.3			38.31	77
	55	843	239.76	291.9			36.24	77
	60	792	225.24	326.4			34.05	76
▲▲▲ ***3EB420	30	1137	323.37	195.6		3 xSTCAC2140	48.77	86
	35	1107	314.82	213.3			47.58	86
	40	1071	304.59	235.2			46.05	85
	45	1035	294.36	260.7			44.49	85
	50	993	282.42	291			42.69	84
	55	945	268.77	325.8			40.62	84
	60	897	255.09	366.3			38.55	83
▲▲▲ ***4EB440	30	944	268.48	152.8		4 xSTCAC2110	40.56	88
	35	920	261.64	171.6			39.56	88
	40	892	253.68	192.8			38.32	87
	45	860	244.56	216.8			36.96	87
	50	828	235.48	245.2			35.6	86
	55	789.2	224.44	278.8			33.92	86
	60	749.2	213.08	318.4			32.2	85
▲▲▲ ***4EB500	30	1376	391.32	236.4		4 xSTCAC2125	59.16	89
	35	1340	381.08	256.8			57.6	89
	40	1296	368.6	282.4			55.72	88
	45	1244	353.8	312.8			53.48	88
	50	1188	337.88	348.4			51.08	87
	55	1124	319.68	389.2			48.32	87
	60	1056	300.32	435.2			45.4	86
▲▲▲ ***4EB560	30	1516	431.16	260.8		4 xSTCAC2140	65.16	93
	35	1476	419.76	284.4			63.44	93
	40	1428	406.12	313.6			61.4	92
	45	1380	392.48	347.6			59.32	92
	50	1324	376.56	388			56.92	91
	55	1260	358.36	434.4			54.16	91
	60	1196	340.12	488.4			51.4	90

C.W.F.R : Cooler Water Flow Rate

C.P.D : Cooler Pressure Drop

IN.P : INPUT POWER

▲ Copeland Compressor

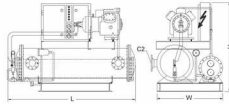
▲▲ Carrier Compressor

▲▲▲ Bitzer Compressor

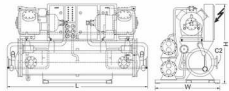
- WLC**** CHILLER DIMENSION WITH HERMETIC & SEMI-HERMETIC COMPRESSORS

Model	L[mm]	H[mm]	W[mm]	C2[inch]
WLC1HO005	1250	1100	750	2
WLC1**008	1250	1100	750	2
WLC1**010	1250	1200	800	2
WLC1S*015	1350	1200	800	2
WLC1S*020	1350	1200	850	2
WLC1S*025	1350	1250	850	3
WLC1S*030	1350	1250	850	3
WLC1S*040	1350	1300	900	3
WLC1SB050	1350	1300	900	3
WLC1SB060	1850	1350	900	3
WLC1SB070	1850	1350	900	3
WLC2HO010	1500	1100	850	2
WLC2**015	1500	1100	850	2
WLC2**020	1500	1200	900	2
WLC2S*030	2000	1200	900	3
WLC2S*040	2000	1200	950	3
WLC2S*050	2000	1200	950	3
WLC2S*060	2000	1200	1000	3
WLC2S*070	2000	1250	1000	3
WLC2S*080	2000	1250	1000	3
WLC2SB090	2000	1300	1050	4
WLC2SB100	2000	1300	1050	4
WLC2SB110	2500	1350	1100	4
WLC2SB120	2500	1350	1100	4
WLC2SB130	2500	1350	1100	4
WLC2SB140	2500	1350	1100	4
WLC3S*090	2300	2000	1300	4
WLC3S*100	2300	2000	1300	4
WLC3S*110	2300	2000	1300	4
WLC3S*120	2300	2100	1320	4
WLC3SB150	2800	2100	1320	4
WLC3SB170	2800	2100	1320	5
WLC3SB180	2800	2200	1350	5
WLC3SB200	2800	2200	1350	5
WLC3SB210	2800	2200	1350	5
WLC4S*120	3600	2200	1320	5
WLC4S*140	3600	2200	1320	5
WLC4S*160	3600	2200	1320	5
WLC4SB200	3600	2200	1320	5
WLC4SB240	3600	2200	1320	5
WLC4SB280	3600	2200	1320	6
WLC5S*200	3800	2300	1320	5
WLC5SB250	3800	2300	1320	6
WLC5SB300	3800	2400	1850	6
WLC5SB350	3800	2400	1850	6
WLC6S*240	4800	2300	1320	6
WLC6SB360	4800	2400	1850	6
WLC6SB420	4800	2400	1850	6

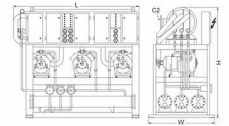
C2 :Evaporator water connection



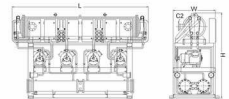
WLC1*** CHILLER DIMENSION



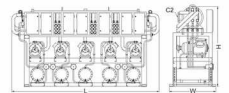
WLC2*** CHILLER DIMENSION



WLC3S** CHILLER DIMENSION



WLC4S** CHILLER DIMENSION



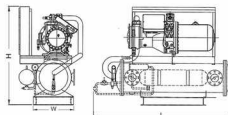
WLC5S** CHILLER DIMENSION

WLC6S** CHILLER DIMENSION

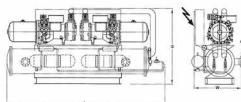
- RLC*EB* CHILLER DIMENSION WITH SCREW COMPRESSORS

Model	L[mm]	H[mm]	W[mm]	C2[inch]
RLC1EB050	1400	1400	1000	3
RLC1EB060	1900	1400	1000	3
RLC1EB070	1900	1400	1000	3
RLC1EB080	2350	1450	1050	3
RLC1EB090	2350	1450	1500	4
RLC1EB110	2400	1500	1100	4
RLC1EB125	2400	1500	1100	4
RLC1EB140	2400	1500	1100	4
RLC2EB100	2800	1800	950	4
RLC2EB120	2800	1800	950	4
RLC2EB140	2800	1800	950	4
RLC2EB160	2800	1800	950	5
RLC2EB180	2800	1850	1000	5
RLC2EB220	2800	1850	1000	5
RLC2EB250	3500	1850	1050	6
RLC2EB280	3500	1900	1050	6
RLC3EB150	2800	2250	1350	4
RLC3EB180	2800	2250	1350	5
RLC3EB210	2800	2300	1350	5
RLC3EB240	3300	2300	1400	6
RLC3EB270	3300	2400	1400	6
RLC3EB330	3300	2400	1500	6
RLC3EB375	3300	2400	1500	6
RLC3EB420	3300	2400	1500	6
RLC4EB200	4000	2450	1200	5
RLC4EB240	4000	2400	1200	6
RLC4EB280	4000	2400	1400	6
RLC4EB320	4000	2450	1450	6
RLC4EB360	4000	2500	1400	6
RLC4EB440	4500	2500	1500	6
RLC4EB500	4500	2500	1500	6
RLC4EB560	4500	2500	1500	6

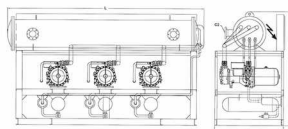
C2 :Evaporator water connection



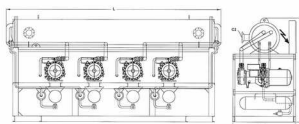
RLC1EB* CHILLER DIMENSION



RLC2EB* CHILLER DIMENSION



RLC3EB* CHILLER DIMENSION

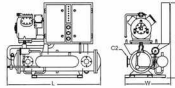


RLC4EB* CHILLER DIMENSION

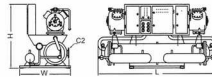
- RLC**** CHILLER DIMENSION WITH HERMETIC & SEMI-HERMETIC COMPRESSORS

Model	L[mm]	H[mm]	W[mm]	C2[inch]
RLC1HO005	1250	1100	750	2
RLC1**008	1250	1100	750	2
RLC1**010	1250	1200	800	2
RLC1S*015	1350	1200	800	2
RLC1S*020	1350	1200	850	2
RLC1S*025	1350	1250	850	3
RLC1S*030	1350	1250	850	3
RLC1S*040	1350	1300	900	3
RLC1SB050	1350	1300	900	3
RLC1SB060	1850	1350	900	3
RLC1SB070	1850	1350	900	3
RLC2HO010	1500	1100	850	2
RLC2**015	1500	1100	850	2
RLC2**020	1500	1200	900	2
RLC2S*030	2000	1200	900	3
RLC2S*040	2000	1200	950	3
RLC2S*050	2000	1200	950	3
RLC2S*060	2000	1200	1000	3
RLC2S*070	2000	1250	1000	3
RLC2S*080	2000	1250	1000	3
RLC2SB090	2000	1300	1050	4
RLC2SB100	2000	1300	1050	4
RLC2SB110	2500	1350	1100	4
RLC2SB120	2500	1350	1100	4
RLC2SB130	2500	1350	1100	4
RLC2SB140	2500	1350	1100	4
RLC3S*090	2300	1900	1300	4
RLC3S*100	2300	1900	1300	4
RLC3S*110	2300	1900	1300	4
RLC3S*120	2300	2000	1320	4
RLC3SB150	2800	2000	1320	4
RLC3SB170	2800	2000	1320	5
RLC3SB180	2800	2100	1350	5
RLC3SB200	2800	2100	1350	5
RLC3SB210	2800	2100	1350	5
RLC4S*120	3600	2100	1320	5
RLC4S*140	3600	2100	1320	5
RLC4S*160	3600	2100	1320	5
RLC4SB200	3600	2100	1320	5
RLC4SB240	3600	2100	1320	5
RLC4SB280	3600	2100	1320	6
RLC5S*200	3800	2200	1320	5
RLC5SB250	3800	2200	1320	6
RLC5SB300	3800	2300	1850	6
RLC5SB350	3800	2300	1850	6
RLC6S*240	4800	2300	1320	6
RLC6SB360	4800	2300	1850	6
RLC6SB420	4800	2300	1850	6

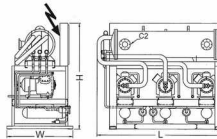
C2 :Evaporator water connection



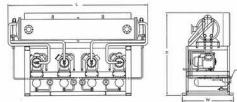
RLC1*** CHILLER DIMENSION



RLC2*** CHILLER DIMENSION



RLC3S** CHILLER DIMENSION



RLC4S** CHILLER DIMENSION

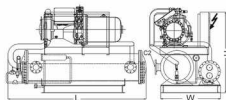
RLC5S** CHILLER DIMENSION

RLC6S** CHILLER DIMENSION

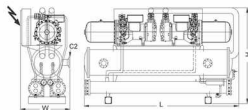
- WLC*EB* CHILLER DIMENSION WITH SCREW COMPRESSORS

Model	L[mm]	H[mm]	W[mm]	C2[inch]
WLC1EB050	1400	1400	1000	3
WLC1EB060	1900	1400	1000	3
WLC1EB070	1900	1400	1000	3
WLC1EB080	2350	1450	1050	3
WLC1EB090	2350	1450	1500	4
WLC1EB110	2400	1500	1100	4
WLC1EB125	2400	1500	1100	4
WLC1EB140	2400	1500	1100	4
WLC2EB100	2800	2000	950	4
WLC2EB120	2800	2000	950	4
WLC2EB140	2800	2000	950	4
WLC2EB160	2800	2000	950	5
WLC2EB180	2800	2050	1000	5
WLC2EB220	2800	2050	1000	5
WLC2EB250	3500	2050	1050	6
WLC2EB280	3500	2100	1050	6
WLC3EB150	2800	2350	1350	4
WLC3EB180	2800	2350	1350	5
WLC3EB210	2800	2400	1350	5
WLC3EB240	3300	2400	1400	6
WLC3EB270	3300	2500	1400	6
WLC3EB330	3300	2500	1500	6
WLC3EB375	3300	2500	1500	6
WLC3EB420	3300	2500	1500	6
WLC4EB200	4000	2450	1200	5
WLC4EB240	4000	2500	1200	6
WLC4EB280	4000	2500	1400	6
WLC4EB320	4000	2550	1450	6
WLC4EB360	4000	2600	1400	6
WLC4EB440	4500	2600	1500	6
WLC4EB500	4500	2600	1500	6
WLC4EB560	4500	2600	1500	6

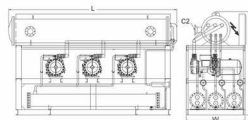
C2 :Evaporator water connection



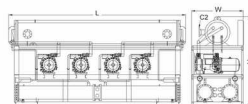
WLC1EB* CHILLER DIMENSION



WLC2EB* CHILLER DIMENSION



WLC3EB* CHILLER DIMENSION

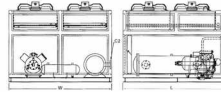


WLC4EB* CHILLER DIMENSION

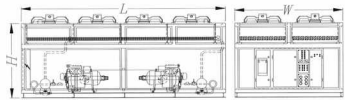
- ALC**** CHILLER DIMENSION

Model	L[mm]	H[mm]	W[mm]	C2[inch]
ALC1HO005	1000	700	700	2
ALC1**008	1000	700	700	2
ALC1**010	1000	700	1000	2
ALC1S*015	1500	700	1000	2
ALC1S*020	2200	1000	1200	2
ALC1S*025	2200	1000	1200	2
ALC1S*030	3200	1400	1200	2
ALC1S*040	2300	1600	2200	3
ALC1SB050	3200	1600	2200	3
ALC1SB060	3200	1600	2200	3
ALC1SB070	4300	1600	2200	3
ALC2HO010	4300	1600	2200	3
ALC2S**015	1500	700	1000	2
ALC2S**020	2200	1000	1200	2
ALC2S*030	3200	1400	1200	2
ALC2S*040	2300	1600	2200	3
ALC2S*050	3200	1600	2200	3
ALC2S*060	3200	1600	2200	3
ALC2S*070	4300	1600	2200	3
ALC2S*080	4300	1600	2200	3
ALC2SB090	5300	1600	2200	3
ALC2*B100	5300	1600	2200	3
ALC2*B120	5200	2600	2500	4
ALC2*B140	5200	2600	2500	4
ALC2EB160	5200	2600	2500	4
ALC2EB180	6200	2600	2500	5
ALC2EB220	6200	2600	2500	5
ALC2EB250	7500	2600	2500	6
ALC2EB280	7500	2600	2500	6
ALC2EB360	10600	2500	2350	6
ALC3S*90	4000	2600	2500	3
ALC3S*120	5200	2600	2500	4
ALC3*B150	7600	2600	2500	4
ALC3*B180	7600	2600	2500	5
ALC3*B210	7600	2600	2500	5
ALC3EB240	7800	2600	2500	6
ALC3EB270	10000	2600	2500	6
ALC3EB330	10500	2600	2500	6
ALC3EB375	11300	2600	2500	6
ALC3EB420	11300	2600	2500	6
ALC4EB200	8600	2600	2500	6
ALC4EB240	8600	2600	2500	6
ALC4EB280	8600	2600	2500	6
ALC4EB320	8600	2600	2500	6
ALC4EB360	11000	2600	2500	6
ALC4EB440	11000	2600	2500	6

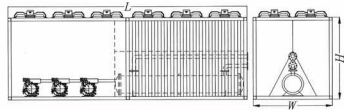
C2 :Evaporator water connection



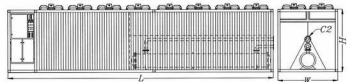
ALC1S** CHILLER DIMENSION



ALC2*** CHILLER DIMENSION



ALC3*** CHILLER DIMENSION



ALC4EB* CHILLER DIMENSION

- DIMENTION & PRESSURE DROP FOR WATER COOLED CONDENSERS

For calculation of total pressure drop in the condensers use the following table:



Condenser Table

MODEL	ΔP bar	L [mm]	D [inch]	C3 [inch]	A
STCAA2005	0.18	1000	6	1 1/2	11.9
STCAA2008	0.18	1000	6	1 1/2	11.5
STCAA2010	0.18	1000	6	1 1/2	11.6
STCAA2015	0.19	1000	8	1 1/2	11.7
STCAA2020	0.19	1000	8	2	11.7
STCAA2025	0.19	1000	10	2	11.7
STCAA2030	0.20	1000	10	2	11.7
STCAC2030	0.40	2000	8	2	10.4
STCAA2040	0.22	1000	12	3	11.7
STCAC2040	0.40	2000	8	3	10.4
STCAA2050	0.22	1000	12	3	11.6
STCAB2050	0.31	1500	10	3	10.8
STCAC2050	0.43	2500	10	3	10.4
STCAB2060	0.31	1500	12	3	10.8

MODEL	ΔP bar	L [mm]	D [inch]	C3 [inch]	A
STCAC2060	0.46	2000	10	3	10.4
STCAB2070	0.30	1500	12	4	10.8
STCAC2070	0.44	2000	10	4	10.8
STCAB2080	0.32	1500	12	4	10.4
STCAC2080	0.45	2000	12	4	8.1
STCAB2090	0.38	1500	14	4	10.8
STCAC2090	0.44	2000	12	4	10.4
STCAD2090	0.66	3000	10	4	8.2
STCAC2110	0.42	2000	12	4	10.4
STCAD2110	0.67	3000	12	4	8.2
STCAC2125	0.43	2000	14	4	10.4
STCAD2125	0.65	3000	12	4	8.1
STCAC2140	0.44	2000	14	4	10.4
STCAD2140	0.65	3000	12	4	8.2

A = Condensing Temp. - Water inlet Temp.

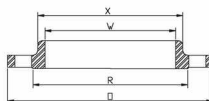


- Condensers linked for chillers with 4 compressor

Attention: The selection method range covers the use of **C series water chillers only, for any other fluids' chilling selection method contact us directly.

DIMENSION OF COOLER FLANGES :

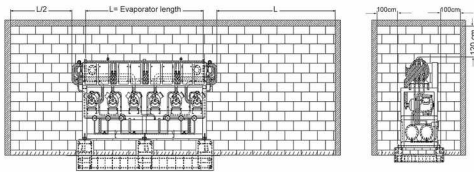
Dimensions of typical commercial steel flanges that are used in coolers' water connections according to ASA B16.5-1960



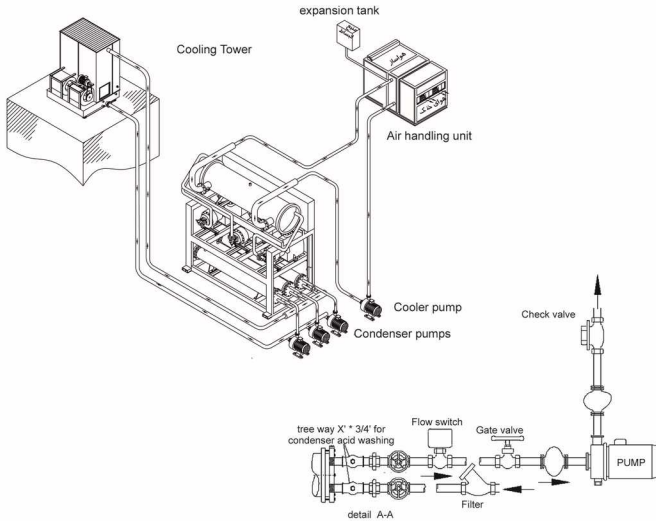
NOMINAL SIZE [inch]	O [mm]	R [mm]	W [mm]	X [mm]	DIAMETER of BOLTS	NUMBER of BOLTS HOLES
2	152	92	62	78	16	4
3	191	127	91	108	16	4
4	229	157	116	135	16	8
5	254	186	144	164	19	8
6	279	216	171	192	19	8

POSITIONING AND PIPING

Minimum distance advisable from the wall:



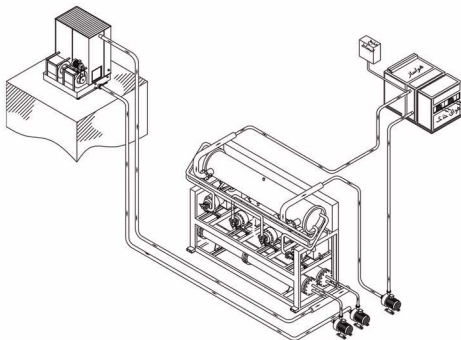
-The service valves shown in this schematic are chosen and installed by the user.



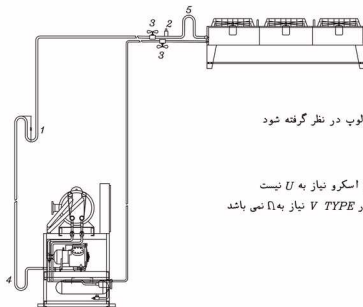
This detail of piping must be executed for each condenser line

The above piping method is only a general suggestion. For a specific application contact our design Dep.

- WATER COOLED LIQUID CHILLERS INSTALATION (4 COMPRESSORS)



- AIR COOLED LIQUID CHILLERS (RLC) INSTALATION



- 1 برای هر شش متر ارتفاع یک لوب در نظر گرفته شود
- 2 شیر اطمینان
- 3 شیر سرویس
- 4 در صورت استفاده از کمپرسور اسکرو نیاز به U نیست
- 5 در صورت استفاده از کندانسور V TYPE نیاز به N نمی باشد

The above piping method is only a general suggestion. For a specific application contact our design Dep.

Strainer installation at the entrance of all evaporators is a necessity.

All compact air cooled chillers must be installed with more than 70 cm higher than the installation ground.

For maintenance services, compact air cooled chillers need a walking area around the unit.



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این قسمت را با بار کدخوان موبایل اسکن کنید!



MEHRASL

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