

WLC, RLC, ALC Series Chiller

MODEL KEYWORD

WLC 3 S B 140 O 6 W

Production series

WLC: Water-cooled Liquid chillers
RLC: Remote air-cooled Liquid chillers
ALC: Packaged Air-cooled Liquid chillers

Number of compressors

(1 , 2 , 3 , 4 , 5 , 6)

Compressor type

H: Reciprocating Hermetic
S: Reciprocating Semi hermetic
E: Compact Semi Hermetic Screw
F: Scroll Hermetic

Compressor brand

A: Carrier (Carlyle)
O: Copeland or DWM Copeland
B: Bitzer

Nominal capacity (5-560 RT)

Design improvements

O: Original (without additional options)
M: Microprocessor controller

Electrical power specifications

| (V-Ph-Hz) | (V-Ph-Hz) | (V-Ph-Hz) |
|-------------|-------------|-------------|
| 1 :575-3-60 | 4 :200-3-60 | 6 :400-3-50 |
| 2 :460-3-60 | 5 :200-1-60 | 7 :220-1-50 |
| 3 :230-360 | | |

Packing specifications

D :Domestic packing
I: International packing
W: Without packing



ALC: Packaged Air-cooled Liquid chillers



RLC: Remote air-cooled Liquid chillers



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.

TECHNO ACTORS 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 be 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 TECHNO ACTORS 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.

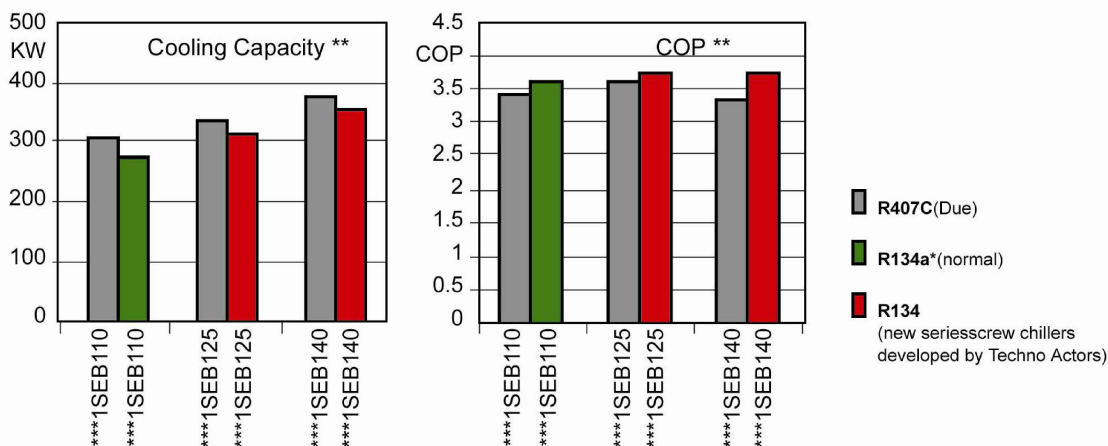
For some application R134a is even preferred as a substitute for R22, an important reason being the limitations to the use of R22 in new plants. However, the lower volumetric refrigeration capacity of R134a requires a larger compressor displacement than with R22. There are also limitations in the application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

TECHNO ACTORS 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



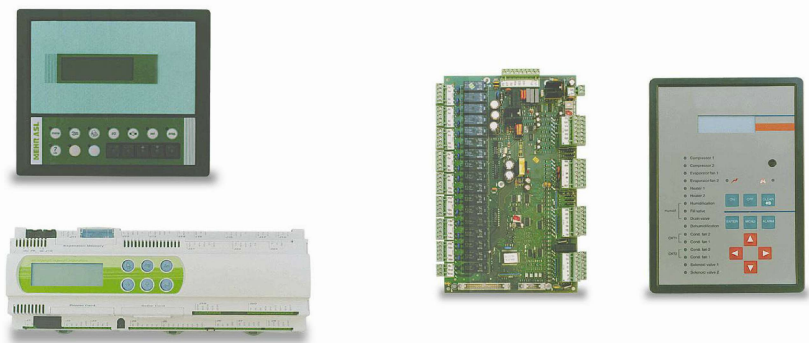
** Air Cooled Chiller Application (SST=5 C / SCT=50C / Sh=10K / with ECO)

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.

TECHNO ACTORS 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.

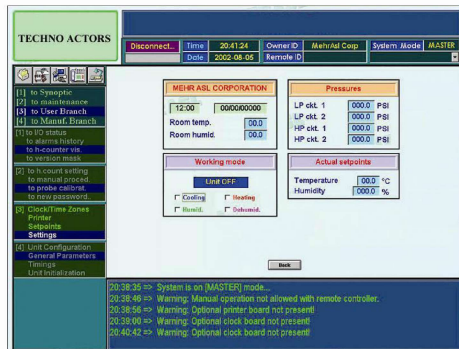
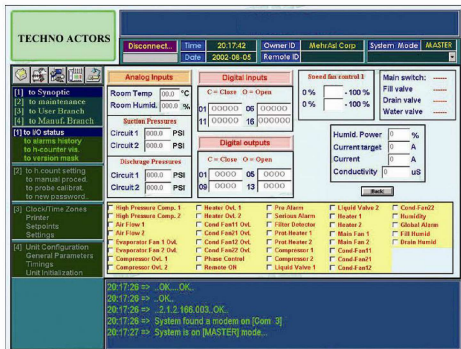
All of products are capable of being designed for microprocessor control system. In such a systems all the pressures such as discharge, suction and oil pressure, also evaporator and condenser temperatures are controlled by pressure and temperature sensors or switches and all the measurement are processed 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 TECHNO ACTORS 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.

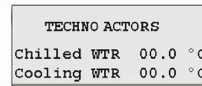
The following shows some windows used in BMS system.



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 Mainten. menu
to User branch
to Manuf. branch

to I/O status
to alarms history
to h-counter vis.
to version mask ..

to h.count setting
to manual proced.
to probe calibrat.
to new password ..

Clock/Time Zones
Printer
Setpoints
Settings

Unit configuration
General parameters
Timings
Unit initializat.

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 TECHNO ACTORS 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.



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 worlds famous producers such as Danfoss, Alco, Castel, and ...

THE COMPRESSORS USED IN LIQUID CHILLER

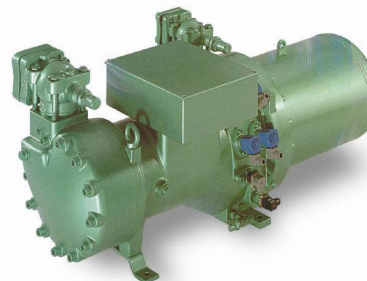
The compressors used with our units are provided from the world's famous producers such as Carrier (8 - 40 R-ton), Copeland (5 - 10 R-ton) in two type of hermetic and scroll, Bitzer (15 - 140 R-ton) in two types of semi-hermetic and screw. The advantage of screw and scroll compressors are lower noise & vibration, higher efficiency and longer working hours than reciprocating compressor. For more information contact with them directly.



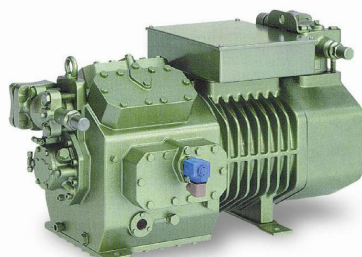
- Copland reciprocating hermetic compressor



- Copland Hermetic Scroll compressor



- Bitzer compact screw compressor



- Bitzer reciprocating Semi - hermetic compressor



- United Technology Carrier (Carlyle reciprocating semi-hermetic)

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 & water outlet temp. 7 °C & 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 to 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

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

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

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.

$$\text{Condensing temp.} = \text{Condensing inlet water temp.} + A$$

For first assumption A= 10

$$\text{Condensing temp.} = 25 + 10 = 35 \text{ } ^\circ\text{C}$$

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

$$\text{Condensing temp.} = 25 + 10.8 = 35.8$$

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.

$$\text{Condensing temp.} = 35 + 15 = 50 \text{ } ^\circ\text{C}$$

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).

COMPRESSORS MODEL

| MODEL | Used Compressors model |
|---------------|---------------------------|
| ▲ ***1FO005 | ZR72KC-TDF |
| ▲ ***1FO008 | ZR90K3-TWD |
| ▲ ***2FO010 | 2 x ZR72KC-TFD |
| ▲ ***1FO010 | ZR12M3-TWD |
| ▲ ***2FO015 | 2 x ZR90K3-TWD |
| ▲ ***2FO020 | 2 x ZR12M3-TWD |
| ▲ ***1HO005 | CRNQ-0500 |
| ▲ ***1HO008 | QR 90 K1 |
| ▲▲ ***1SA008 | 06DA818 |
| ▲ ***1HO010 | QR 12 M1 |
| ▲▲ ***1SA010 | 06DA824 |
| ▲ ***2HO010 | 2 x CRNQ-0500 |
| ▲▲▲ ***1SB015 | 4P-15.2 |
| ▲▲ ***1SA015 | 06DA537 |
| ▲ ***2HO015 | 2 x QR 90 K1 |
| ▲▲ ***1SA020 | 06DA250 |
| ▲ ***2HO020 | 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 |
| ▲▲▲ ***3EB150 | 3 x CSH6551-50 |
| ▲▲▲ ***2EB160 | 2 x CSH7560-80 |
| ▲▲▲ ***3EB180 | 3 x CSH6561-60 |
| ▲▲▲ ***2EB180 | 2 x CSH7571-90 |
| ▲▲▲ ***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 |
| ▲▲▲ ***4EB320 | 4 x CSH7560-80 |
| ▲▲▲ ***3EB330 | 3 x CSH8551-110 |
| ▲▲▲ ***4EB360 | 4 x CSH7571-90 |
| ▲▲▲ ***3EB375 | 3 x CSH8561-125 |
| ▲▲▲ ***3EB420 | 3 x CSH8571-140 |
| ▲▲▲ ***4EB440 | 4 x CSH8551-110 |
| ▲▲▲ ***4EB500 | 4 x CSH8561-125 |
| ▲▲▲ ***4EB560 | 4 x CSH8571-140 |

▲ Copeland Compressor ▲▲ Carrier Compressor ▲▲▲ Bitzer Com-

- COOLING CAPACITIES

| 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

| 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 |
| ***1SA010 | 30 | 34.4 | 9.8 | - | 5.1 | - | STCAA2010 | 0.90 | 26 |
| | 35 | 32.1 | 9.1 | - | 5.8 | - | | 1.49 | 29 |
| | 40 | 29.8 | 8.4 | - | 6.4 | - | | 1.39 | 29 |
| | 45 | 27.6 | 7.8 | - | 6.9 | - | | 1.29 | 28 |
| | 50 | 25.4 | 7.2 | - | 7.5 | - | | 1.20 | 28 |
| | 55 | 23.3 | 6.6 | - | 8 | - | | 1.10 | 27 |
| ***2FO010 | 30 | 38.8 | 11.04 | 37.6 | 6.44 | 5.9 | 2 x STCAA2005 | 1.01 | 27 |
| | 35 | 37.2 | 10.58 | 35.8 | 7.11 | 6.6 | | 0.92 | 26 |
| | 40 | 35.6 | 10.13 | 33.8 | 7.78 | 7.38 | | 1.69 | 29 |
| | 45 | 33.8 | 9.61 | 31.6 | 8.67 | 8.3 | | 1.62 | 29 |
| | 50 | 32.0 | 9.10 | 29.6 | 9.56 | 9.32 | | 1.55 | 28 |
| | 55 | 29.8 | 8.48 | 27.4 | 10.4 | 10.4 | | 1.47 | 28 |
| ***2HO010 | 30 | 37.4 | 10.6 | - | 7.4 | - | 2 x STCAA2005 | 1.39 | 27 |
| | 35 | 35.1 | 10.0 | - | 8.0 | - | | 1.30 | 27 |
| | 40 | 32.8 | 9.3 | - | 8.6 | - | | 1.20 | 26 |
| | 45 | 30.4 | 8.7 | - | 9.1 | - | | 1.63 | 29 |
| | 50 | 28.1 | 8.0 | - | 9.7 | - | | 1.53 | 29 |
| | 55 | 25.8 | 7.3 | - | 10.2 | - | | 1.43 | 28 |
| ***1SB015 | 30 | 48.3 | 13.7 | 47.5 | 9.4 | 8.1 | STCAA2015 | 1.32 | 28 |
| | 35 | 46.0 | 13.1 | 44.8 | 10.4 | 9.2 | | 1.22 | 27 |
| | 40 | 43.6 | 12.4 | 42.2 | 11.4 | 10.2 | | 1.12 | 27 |
| | 45 | 41.2 | 11.7 | 39.5 | 12.5 | 12.2 | | 1.07 | 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 |
| ***1SA015 | 30 | 54.3 | 15.4 | - | 9.7 | - | STCAA2015 | 1.48 | 24 |
| | 35 | 50.9 | 14.5 | - | 10.8 | - | | 2.10 | 27 |
| | 40 | 47.6 | 13.5 | - | 12.2 | - | | 2.00 | 27 |
| | 45 | 44.4 | 12.6 | - | 13.1 | - | | 1.90 | 26 |
| | 50 | 41.2 | 11.7 | - | 14.2 | - | | 1.79 | 26 |
| | 55 | 38.1 | 10.8 | - | 15.2 | - | | 1.69 | 25 |
| ***2FO015 | 30 | 47.6 | 13.54 | 46.2 | 8.1 | 7.8 | 2 x STCAA2008 | 1.66 | 29 |
| | 35 | 45.3 | 12.88 | 44 | 9.0 | 8.64 | | 1.52 | 28 |
| | 40 | 43.0 | 12.23 | 41.6 | 9.9 | 9.64 | | 2.36 | 31 |
| | 45 | 40.9 | 11.63 | 39 | 11.0 | 10.7 | | 2.21 | 31 |
| | 50 | 38.8 | 11.04 | 36.4 | 12.1 | 12.0 | | 2.07 | 30 |
| | 55 | 36.6 | 10.41 | 33.8 | 13.0 | 13.4 | | 1.93 | 30 |
| ***2HO015 | 30 | 59.7 | 17.0 | - | 11.8 | - | 2 x STCAA2008 | 1.79 | 29 |
| | 35 | 55.1 | 15.7 | - | 12.6 | - | | 1.66 | 29 |
| | 40 | 50.4 | 14.3 | - | 13.3 | - | | 1.52 | 28 |
| | 45 | 46.0 | 13.1 | - | 13.9 | - | | 2.07 | 30 |
| | 50 | 41.7 | 11.9 | - | 14.4 | - | | 1.93 | 30 |
| | 55 | 37.2 | 10.6 | - | 14.9 | - | | 1.79 | 29 |
| ***1SA015 | 30 | 32.9 | 9.3 | - | 15.5 | - | STCAA2015 | 1.66 | 29 |
| | 35 | 30.6 | 8.6 | - | 16.2 | - | | 1.52 | 28 |
| | 40 | 28.3 | 7.9 | - | 17.0 | - | | 2.07 | 30 |
| | 45 | 26.0 | 7.2 | - | 17.8 | - | | 1.93 | 30 |
| | 50 | 23.7 | 6.5 | - | 18.6 | - | | 1.79 | 29 |
| | 55 | 21.4 | 5.8 | - | 19.4 | - | | 1.66 | 29 |

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

| 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

| 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

| 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 |
| ▲▲ ***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 |
| ▲▲▲ ***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 |
| ▲▲▲ ***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 |
| ▲▲ ***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 |
| ▲▲▲ ***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 |
| ▲▲▲ ***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 |
| ▲▲ ***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

| 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

| 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

| 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 | |
| ▲▲▲ ***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 | |
| ▲▲▲ ***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 | |
| ▲▲▲ ***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 | |
| ▲▲▲ ***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 | |
| ▲▲▲ ***5SA200 | 30 | 677.1 | 192.6 | - | 144.1 | - | 5xSTCAA2040 | 29.44 | 44 | |
| | 35 | 636.6 | 181.1 | - | 155.3 | - | | 27.68 | 44 | |
| | 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 | |
| ▲▲▲ ***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 | |
| ▲▲▲ ***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

▲ Copeland Compressor ▲▲ Carrier Compressor ▲▲▲ Bitzer Compressor

- COOLING CAPACITIES

| 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 |
| ▲▲▲▲ ***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 |
| ▲▲▲▲ ***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 |
| ▲▲▲▲ ***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 |
| ▲▲▲▲ ***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 |
| ▲▲▲▲ ***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 |
| ▲▲▲▲ ***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 |
| ▲▲▲▲ ***6SB240 | 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

| 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

| 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 | 1283.0 | 364.9 | 363.05 | 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

| 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 xSTCAB2060 | 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 | 776.1 | 221.9 | 736.1 | 219.1 | 192.2 | | 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

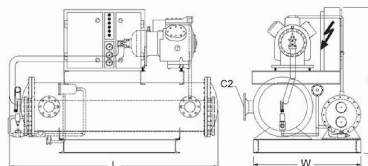
| MODEL | COND TEMP | COOLING CAPACITY | | | IN.P (KW) | | Condenser model for WLC | C.W.F.R Liter/S | C.P.D KPa |
|------------------|-----------|------------------|----------|-----------|-----------|-------|-------------------------|-----------------|-----------|
| | | Kw(R22) | R.T(R22) | Kw(R407C) | 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 xSTCAD2125 | 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 xSTCAD2125 | 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 | 1169.3 | 332.7 | 1109.2 | 324.7 | 289.3 | | 50.87 | 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 xSTCAC2110 | 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 xSTCAC2125 | 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 xSTCAC2140 | 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 | 1532.3 | 443.7 | 1452.2 | 446.3 | 392.4 | | 67.82 | 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

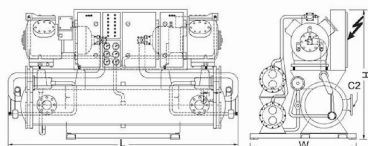
- WLC** CHILLER DIMENSION WITH HERMETIC & SEMI-HERMETIC COMPRESSORS**

| 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 |

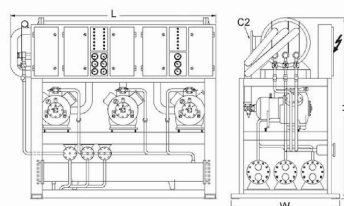
C2 :Evaporator water connection



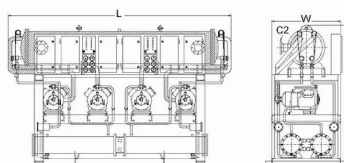
WLC1* CHILLER DIMENSION**



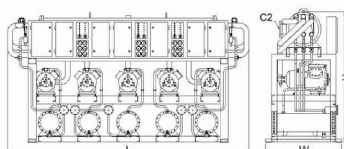
WLC2* CHILLER DIMENSION**



WLC3S CHILLER DIMENSION**



WLC4S CHILLER DIMENSION**



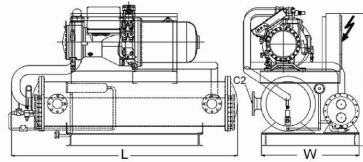
WLC5S CHILLER DIMENSION**

WLC6S CHILLER DIMENSION**

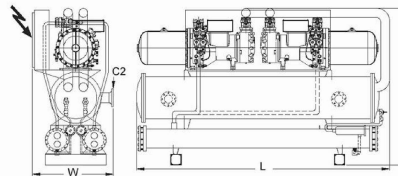
- WLC*EB* CHILLER DIMENSION WITH SCREW COMPRESSORS

| 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 |

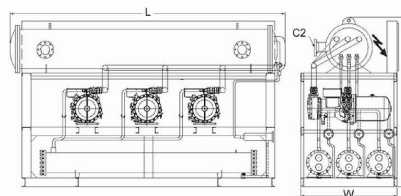
C2 :Evaporator water connection



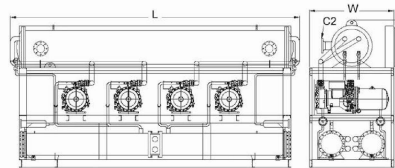
WLC1EB* CHILLER DIMENSION



WLC2EB* CHILLER DIMENSION



WLC3EB* CHILLER DIMENSION

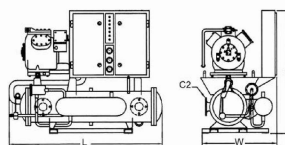


WLC4EB* CHILLER DIMENSION

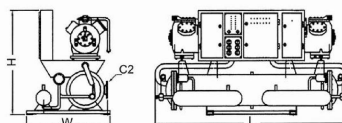
- RLC** CHILLER DIMENSION WITH HERMETIC & SEMI-HERMETIC COMPRESSORS**

| 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 |
| RLC2HO10 | 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 |

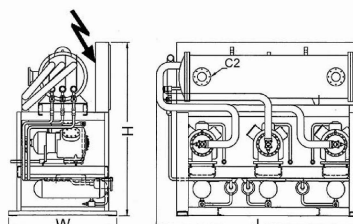
C2 :Evaporator water connection



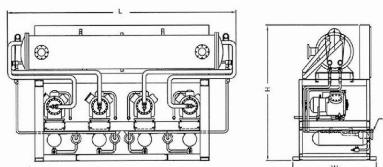
RLC1* CHILLER DIMENSION**



RLC2* CHILLER DIMENSION**



RLC3S CHILLER DIMENSION**



RLC4S CHILLER DIMENSION**

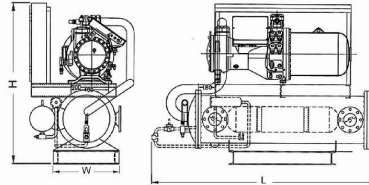
RLC5S CHILLER DIMENSION**

RLC6S CHILLER DIMENSION**

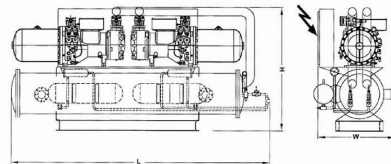
- RLC*EB* CHILLER DIMENSION WITH SCREW COMPRESSORS

| 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 |

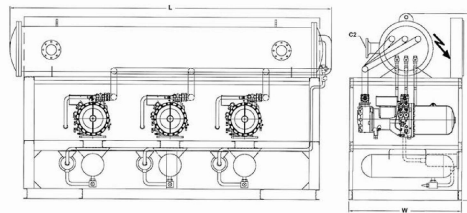
C2 :Evaporator water connection



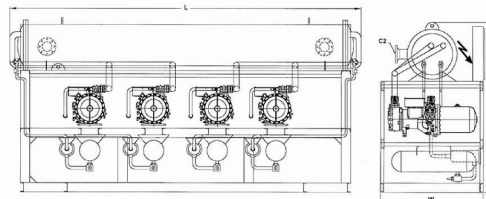
RLC1EB* CHILLER DIMENSION



RLC2EB* CHILLER DIMENSION



RLC3EB* CHILLER DIMENSION

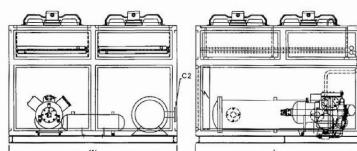


RLC4EB* CHILLER DIMENSION

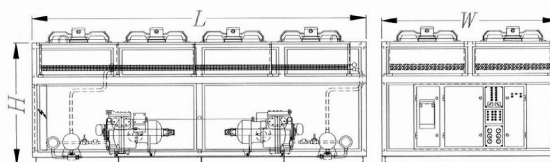
- ALC** CHILLER DIMENSION**

| 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 |
| 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 |
| ALC4EB500 | 12300 | 2600 | 2500 | 6 |

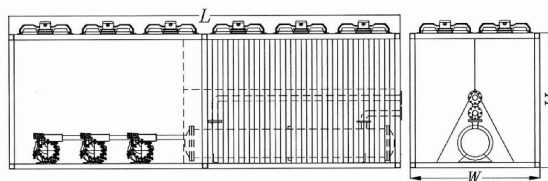
C2 :Evaporator water connection



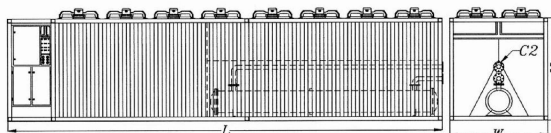
ALC1S CHILLER DIMENSION**



ALC2* CHILLER DIMENSION**



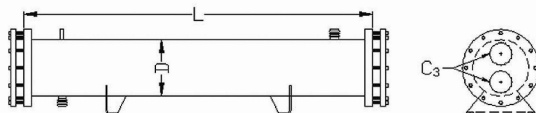
ALC3* CHILLER DIMENSION**



ALC4EB* CHILLER DIMENSION

- DIMENTION & PRESSURE DROP FOR WATER COOLED CONDENSERS

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

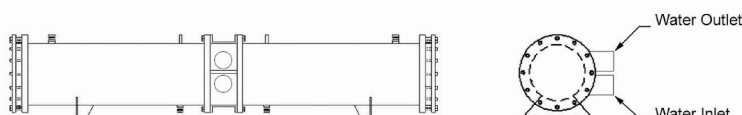


Condenser Table

| 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.

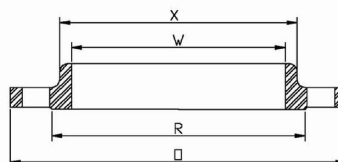


- Condensers linked for chillers with 4 compressor

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

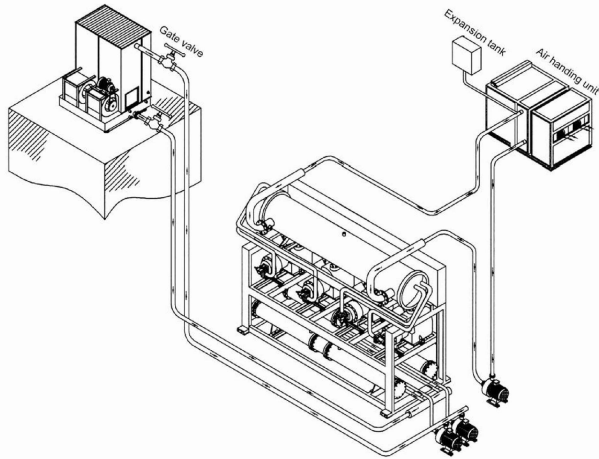
DIMENSION OF COOLER FLANGES :

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

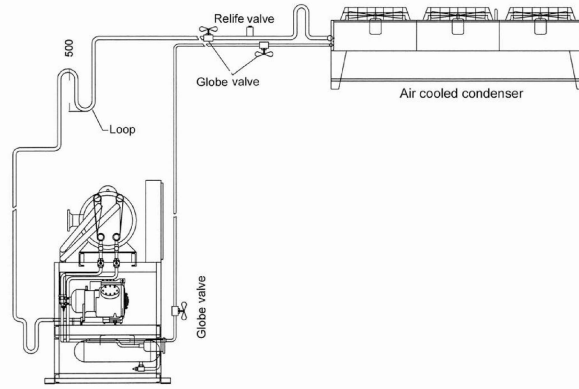


| NOMINAL SIZE [inch] | O [mm] | R [mm] | W [mm] | X [mm] | DIAMETER of BOLTS | NUMBER of BOLTS HOLES |
|--------------------------|-------------|-------------|-------------|-------------|----------------------|--------------------------|
| 2 | 152 | 92 | 62 | 78 | 16 | 4 |
| 3 | 191 | 127 | 91 | 108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

**- WATER COOLED LIQUID CHILLERS
INSTALATION (4 COMPRESSORS)**



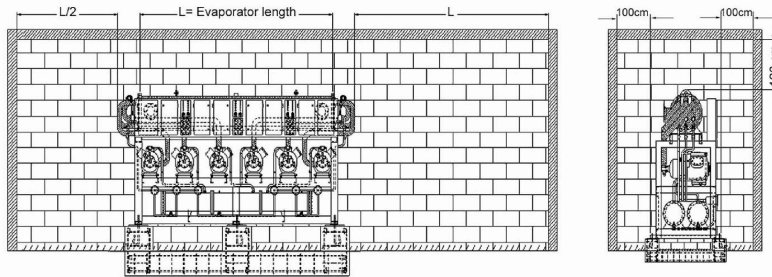
**- AIR COOLED LIQUID CHILLERS
(RLC) INSTALATION**



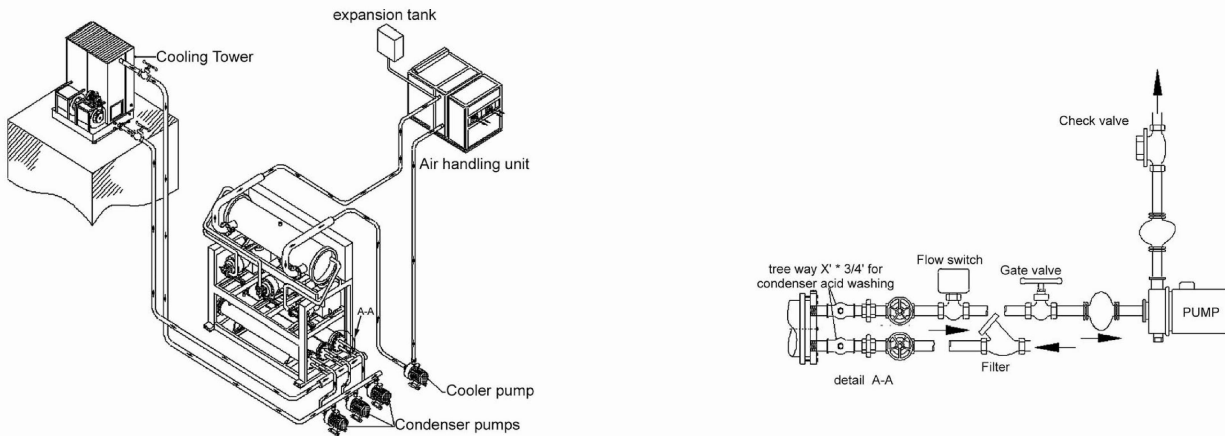
The above piping method is only a general suggestion.
For a specific application contact our design Dep.

POSITIONING AND PIPING

Minimum distance advisable from the wall:



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



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