

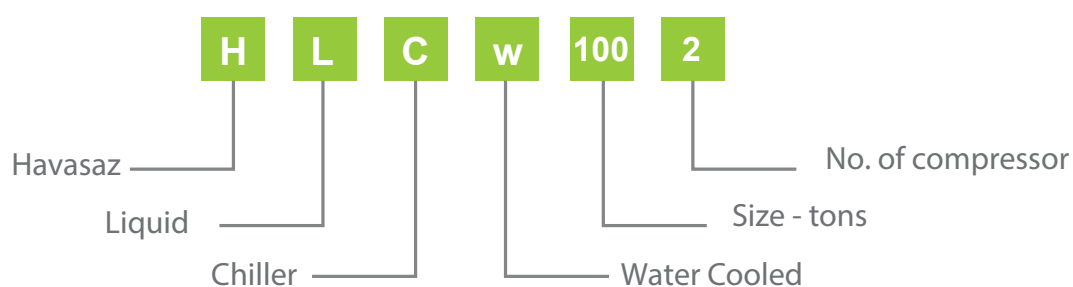


WATER COOLED CHILLER



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FEATURES

HAVASAZ HLCW are a series of highly efficient water cooled chillers, fitted with recip. compressors and shell and tube heat exchanger(s).

They can provide chilled water for applications that use central station air handling or terminal units, glycol chilling for ice making and thermal storage applications, and non-reversing heat pump duty. They are designed for inside installation within a plant room. The series comprises a range of sizes from 15 kW to 890 kW and two levels of operating efficiency.

Low Operating Costs

HLCW is the first R 22 water-cooled chiller using Recip. Compressors. By combining the latest available technology in recip. compression with HAVASAZ state-of-the-art heat exchanger design, Additionally, the incorporation of multiple recip. compressors results in high part load efficiencies. Having its compressors always running at full load.

Minimum Installation Costs

HLCW is also designed to reduce the installation costs to a minimum. With its compact design, HLCW delivers up to 173 kW/m² making the most of your available space. Equally important, HLCW can fit through a standard single door with no disassembly required, making it the ideal chiller for both new and retrofit installations.

HLCW has a single point electrical power connection onto a disconnect switch for ease of both installation and isolation for servicing.

HLCW water connections are fully accessible and simplified with the use of Victaulic connections for both the evaporator and the condenser.

Low Sound Operation

HLCW is equipped with ultra quiet scroll compressors, which can be fitted with optional compressor acoustic blankets to further reduce sound levels. Special attention has been paid to HLCW piping design to get the maximum performance with the minimum of vibration.

Reliability

Every HLCW chiller is fully factory tested before being shipped in order to ensure trouble free installed operation.

HLCW dual refrigerant circuits and multiple scroll compressors provide system standby security. When reaching a safety threshold, the HLCW controller special load limiting feature will unload the chiller but maintain continuous chilled water production until the situation is back to normal.

Communication

HLCW has a microprocessor controller with a 40-character display available in 5 languages for easy operation and maintenance.

HLCW has a standard built-in connectivity with BACnet and Modbus for immediate integration into Building Management System.

Environmental Friendly

HLCW uses refrigerant R 22 with zero Ozone

Depletion Potential and no phase-out date. Every HLCW chiller is fully pressure and leak tested in the factory in order to reduce the risk of leakage on site.

Above all, HLCW is highly efficient, saves energy and contributes to reduce global warming.

One Chiller, Many Applications

HLCW has been designed to operate in a very wide range of conditions. It can produce chilled water from +15 °C down to -12 °C while working with condenser water temperatures ranging from +18 °C to +45 °C (HLCW only), process cooling, heat recovery, HLCW is built-in with versatility.

SPECIFICATION

HAVASZA HLCW , R 22 chillers are designed for water or water-glycol cooling.

They are designed for indoor installation in a plant room. The HLCW unit is completely factory assembled with all interconnecting refrigerant piping and wiring ready for field installation. The unit is pressure tested, evacuated, and fully factory charged with refrigerant R 22 and oil in each of the independent refrigerant circuits. After assembly, an operational test is performed with water flowing through the evaporator and condenser to ensure that each refrigerant circuit operates correctly. galvanized steel coated with baked-on 'Caribbean Blue' powder paint. HLCW chillers are designed and built within an EN ISO 9001 accredited organization and in conformity with the following European Directives:

Fluorinated Greenhouse Gases

- This equipment contains fluorinated greenhouse gases covered by the Kyoto Protocol.
- The global warming potential of the refrigerant (R 22) used in this unit is 1720.
- The refrigerant quantity is stated in the Physical Data table of this document.
- The fluorinated greenhouse gases in this equipment may not be vented to the atmosphere.
- This equipment should only be serviced by qualified technicians.

Compressors

The unit has suction-cooled, recip.compressors. High efficiency is achieved through a controlled orbit and the use of advanced recip geometry.

The compressors incorporate a compliant recip. design in both the axial and radial directions. The compressor motors have integral protection against overloads.

The overload protection will automatically reset. Starting is direct on line, but soft start is available as an option.

The compressors are switched On and Off by the unit microprocessor to provide capacity control. Each compressor is fitted with a crankcase strap heater. All compressors are mounted on isolator pads to reduce transmission of vibration to the rest of the unit.

Refrigerant Circuits

Two independent refrigerant circuits are provided on each unit. Each circuit uses copper refrigerant pipe formed on computer controlled bending machines to reduce the number of brazed joints resulting in a reliable and leak resistant system. Liquid line components include: a service valve with charging port, a high absorption removable core filter drier, a solenoid valve, a sight glass with moisture indicator and a thermal or electronic expansion valve.

Liquid lines between the expansion valve and the cooler are covered with flexible, closed-cell insulation. Suction line components include: a pressure relief valve, a pressure transducer and a service valve. Optional isolation ball valves are available.

Suction lines are covered with flexible, closed-cell insulation. Discharge lines include service and isolation (ball) valves, one or two high pressure cutout switches depending on the model, a pressure transducer and a pressure relief valve (HLCW units only).

Evaporator

The 2-pass dual circuit shell and tube type direct expansion (DX) evaporator has refrigerant in the tubes and chilled liquid flowing through the baffled shell.

The waterside (shell) design working pressure of the cooler is 10.3 barg.

The refrigerant side (tubes) design working pressure is 27.58 barg. The refrigerant side is protected by pressure relief valve(s).

The evaporator shall have water pass baffles fabricated from galvanized steel to resist corrosion. Removable Heads are provided for access to internally enhanced, Seamless, Copper tubes. Water vent and drain Connections are included. The cooler is insulated with flexible closed-cell foam.

Water Connection to the evaporator is via Victaulic grooved Connections.

Flange connections are available as an option.

Condenser (HLCW units only)

The twin-refrigerant circuit water-cooled condenser is cleanable shell and tubes type with seamless Externally finned copper tubes rolled into tubes sheets, Removable water heads and built-in subcooler. The Waterside (tubes) design working pressure is 10 barg. The refrigerant side (shell) design working pressure is 38.61 bar g. The refrigerant side is protected by Pressure relief valve(s). Water Connection to the condenser is via Victaulic grooved Connections. Flange connections are available as an option.

Power and Control Panels

All power and controls are contained in a IP54 cabinet with hinged, latched and gasket sealed outer doors.

The power panel includes:

- A factory mounted non-fused disconnect switch with external, lockable handle to enable connection of the unit power supply. The disconnect switch can be used to isolate the power for servicing.
- Factory mounted compressor contactors and manual motor starters to provide overload and short circuit protection.
- Factory mounted control transformer to convert the unit supply voltage to 220 V - 1 Ø - 50 Hz for the control system.
- Control supply fuses and connections for a remote emergency stop device.

The control panel includes:

- A Liquid Crystal Display (two display lines of twenty characters per line) with Light Emitting Diode back lighting for easy viewing.
- A Color coded 12-button keypad.
- Customer terminal block for control inputs

and liquid flow switch.

The microprocessor control includes:

- Automatic control of compressor start/stop, anticoincidence and anti-recycle timers, automatic pump down on shutdown, evaporator pump and unit alarm contacts. Automatic reset to normal chiller operation after power failure.
- Remote water temperature reset via a pulse width modulated (PWM) input signal or up to two steps of demand (load) limiting
- Software is loaded into the microprocessor controller via a SD card, with programmed set points retained in a lithium battery backed real time clock (RTC) memory..

Programmable set-points:

- Chilled liquid temperature set-point and range
- Remote reset temperature range
- Set daily schedule/holiday for start/stop
- Manual override for servicing
- Low liquid temperature cutout

- Low suction pressure cutout
- High discharge pressure cutout
- Anti-recycle timer (compressor start cycle time)
- Anti-coincident timer (delay compressor starts)

Displayed Data:

- Return and leaving liquid temperature
- Low leaving liquid temperature cutout setting
- Metric or Imperial data
- Discharge and suction pressure cutout settings
- System discharge and suction pressures
- Anti-recycle timer status for each compressor
- Anti-coincident system start timer condition
- Compressor run status
- No cooling load condition
- Day, date and time
- Daily start/stop times
- Holiday status
- Automatic or manual system lead/lag control
- Lead system definition
- Compressor starts & operating hours (each compressor)
- Run permissive status
- Number of compressors running
- Liquid solenoid valve status
- Load & unload timer status
- Water pump status

System Safeties:

Cause individual compressors to perform auto shut down and require manual reset in the event of 3 trips in a 90-minute time period:

- High discharge pressure
- Low suction pressure
- High pressure switches
- Motor protector
- Unit Safeties:
 - Are automatic reset and cause compressor to shut down
 - Low leaving chilled liquid temperature
 - Under voltage
 - Loss of liquid flow (through flow switch)

Alarm Contacts:

- Low leaving chilled liquid temperature
- Low voltage
- Low battery
- High discharge pressure (per system)
- Low suction pressure (per system)

ACCESSORIES AND OPTIONS

Soft Starters Factory mounted soft starters reduce the inrush current to the last compressor on each refrigerant circuit. They are preset so that no field adjustment is required.

Power Factor Correction

Factory mounted passive (static) power factor correction capacitors to correct unit compressor power factors to a target of 0.9 (depending on operating conditions).

Dual Pressure Relief Valves

Two pressure relief valves mounted on a 3-way valve in parallel of which one is operational and the other one assist during maintenance.

Suction Service Valves

A ball valve is added to each suction line pipework for isolation.

Victaulic Flange Kit

Victaulic PN10 Flange joint kit supplied loose for field installation. Includes flange and companion flange and all necessary nuts, bolts and gaskets.

Flow switch

Vapor Proof, paddle-type, 10.3 bar DWP, -29°C to 121°C with 1"NPT connection for upright mounting in horizontal pipe. This flow switch or its equivalent must be supplied with each unit to protect vessels from loss of liquid flow (Field Mounted)

Differential Pressure Switch

Alternative to the paddle type flow switch. 0-3 bar range with 1/4" NPTE pressure connections (field mounted). Neoprene Pad Isolators Recommended for normal installations (fieldmounted).

25 mm Spring Isolators

Level adjustable, spring and cage type isolators for mounting under the unit base rails (field mounted).

Electronic Expansion Valve

Factory fitted Electronic Expansion Valve to provide a flexible and reliable range of operation from brine to comfort cooling conditions. Mandatory option for application below -1°C chilled water temperature

HLCW

Low-pressure liquid refrigerant enters the cooler tubes and is evaporated and superheated by the heat energy absorbed from the chilled liquid passing through the cooler shell. Low-pressure vapor enters the compressors where pressure and superheat are increased. High pressure superheated refrigerant enters the condenser shell where heat is rejected to the condenser water passing through the tubes. The fully condensed and sub-cooled liquid leaves the condenser and enters the expansion valve, where pressure reduction and further cooling takes place. The low-pressure liquid refrigerant then returns to the cooler.

Chilled Liquid System Condenser Cooling Liquid System

Connection Types & Sizes

For connection sizes relevant to individual models refer to the physical data tables in this manual Refrigerant Relief Valve Piping

The compressor, cooler and condensers are each protected against internal refrigerant over-pressure and fire by refrigerant relief valves. The pressure relief valve is set at the design pressure of the system and has discharge capacity required by the relevant standard. It is recommended that each valve should be piped to the exterior of the building so that when the valve is activated the release of high pressure gas and liquid cannot be a danger or cause injury. The size of any pipework attached to a relief valve must be of sufficient diameter so as not to cause resistance to the operation of the valve. For critical or complex installations refer to EN13136. Unless otherwise specified by local regulations, the internal diameter depends on the length of pipe required and can be estimated with the following formula:

$$D=1.447 \times L$$

Where:

D = minimum pipe internal diameter (cm)

L = length of pipe (m).

If relief pipework is common to more than one valve its cross sectional area must be at least the total required by each valve. Valve types should not be

mixed on a common pipe. Precautions should be taken to ensure that the exit of relief valves/vent pipe remain clear of obstructions at all times.

Condenser Cooling Liquid Systems

For primary cooling of units, condensers are usually piped in conjunction with a cooling tower or a dry cooler, although in some cases they can be cooled by well water.

With liquid cooled units it is necessary to control coolant flow and / or temperature into the condenser to maintain refrigerant pressure as constant as possible to ensure satisfactory operation of the expansion valves.

Direct Pressure Control (by others)

With YCWL units it is possible, if desired, to control the condenser cooling liquid inlet temperature / flow directly from the unit refrigerant pressure. The refrigerant pressure can either be used to control cooling tower / dry cooler effectiveness by controlling fans or dampers on the tower, or to control condenser flow using a three way bypass valve. The aim is to maintain a stable discharge pressure as low as possible, but at least 4.8 bar above suction pressure. This can be done at a fixed value above the highest expected suction pressure, or by also measuring suction pressure and using differential control. In either case condenser cooling liquid flow and temperature limits must also be observed.

Inlet Temperature Control (by others)

For a cooling tower / dry cooler system, the simplest forms of control are to use fan cycling, fan speed control, or air damper control, with the tower having a thermostat in its sump. This will ensure stable condenser cooling liquid temperature sensing at design conditions and should be adjusted to ensure a condenser cooling liquid entering temperature of not lower than 18°C at lower ambient conditions.

If these methods are not available, or a cooling tower is not the source of cooling water, then a three way valve recirculation system can be used with control based on condenser inlet liquid temperature.

In this case the objective is to maintain the inlet cooling liquid temperature as low as possible, although still observing the minimum limit of 18°C.

CONDENSERLESS UNIT REFRIGERANT PIPING

General

When the unit has been located in its final position, the unit piping may be connected. Normal installation precautions should be observed in order to receive maximum operating efficiencies. All piping design and installation is the responsibility of the user. All filter driers, sight glasses, expansion valves and liquid line solenoid valves are factory installed on each refrigerant circuit. Interconnecting refrigerant piping and refrigerant charge are supplied and installed by others.

Refrigerant Line Sizing

Refrigerant piping systems must be designed to provide practical line sizes without excessive pressure drops, prevent compressor oil from being “trapped” in the refrigerant piping, and ensure proper flow of liquid refrigerant to the thermal expansion valve. Considerations should be given to:

1) Discharge line pressure drop due to refrigerant flow.

2) Discharge line refrigerant velocity for oil return.

3) Liquid line pressure drop due to refrigerant flow.

4) Liquid line pressure drop (or gain) due to vertical rise of the liquid line.

To ensure a solid column of liquid refrigerant to the expansion valve, the total liquid line pressure drop should never exceed 275 kPa.

Refrigerant vapor in the liquid line will measurably reduce valve capacity and poor system performance can be expected.

To allow adequate oil return to the compressor, discharge risers should be sized for a minimum of 5.1 m/s while the system is operating at minimum capacity to ensure oil return up the suction riser.

Chiller Below Condenser

On a system where the chiller is located below the condenser, the discharge line must be sized for both pressure drop and oil return. In some cases a double discharge riser must be installed to ensure reliable oil return at reduced loads.

Condenser Below Chiller

When the condenser is located below the chiller, the liquid line must be designed for both friction loss and static head loss due to the vertical rise.

The value of static head loss of 11.3 kPa/m must be added to the friction loss pressure drop in addition to all pressure drops due to driers, valves, etc.

Oil traps

All horizontal discharge lines should be pitched at least 2 cm/m in the direction of the refrigerant flow to aid in the return of oil to the chiller. All discharge lines with a vertical rise exceeding 90 cm should have a "P" trap at the bottom and top of the riser. Discharge lines with a vertical rise exceeding 7.5 m should be trapped every 4.5 m.

Refrigerant Charge

The chiller is charged and shipped with a

dry nitrogen holding charge. The operating charge for the chiller, remote condenser and refrigerant piping must be weighed in after all refrigerant piping is installed, leak checked, and evacuated. Final adjustment of refrigerant charge should be verified by subcooling values (refer to IOM section on Pre-Startup for checking subcooling).

ELECTRICAL CONNECTION

The following connection recommendations are intended to ensure safe and satisfactory operation of the unit.

Failure to follow these recommendations could cause harm to persons, or damage to the unit, and may invalidate the warranty. No additional controls (relays, etc.) should be mounted in the control panel.

Power and control wiring not connected to the control panel should not be run through the control panel. If these precautions are not followed it could lead to a risk of electrocution.

In addition, electrical noise could cause malfunctions or damage the unit and its controls.

Power Wiring

These units are suitable for 380 or 400 V, 3 phase, 50 Hz nominal supplies only.

All electrical wiring should be carried out in accordance with local regulations. Route properly sized cables to the cable entries in the top of the power panel. In accordance with EN 60204 it is the responsibility of the user to install over current protection devices between the supply conductors and the power supply terminals on the unit.

To ensure that no eddy currents are set up in the power panel, the cables forming each 3 phase power supply must enter via the same cable entry.

All sources of supply to the unit must be taken via a common point of isolation (not supplied by JCI).

Single Point Power Supply Wiring

All models require one field provided 400 V, 3Ø, 50 Hz + PE (Protected Earth) supply to the unit with circuit protection.

Connect the 3 phase supply to the non-fused disconnect switch located in the power panel using M10 lugs. Connect the earth wire to the main protective earth terminal located in the power panel.

Remote Emergency Stop Device

If required, a remote emergency stop device may be wired into the unit. This device should be rated at 16 amps, 220 V, AC-15. The device should be wired into terminals L and 5 in the power panel after removing the factory fitted link.

Alarm Contacts

Each refrigerant system has a voltage-free normally open contact that will close when control power is applied to the panel, if no fault conditions are present. When a fault occurs which locks a system out, or there is a power failure the contact opens. To obtain a system alarm signal, connect the alarm circuit to terminals 29 and 30 for No. 1 system and terminals 31 and 32 for No. 2 system.

Flow Switch

A chilled liquid flow switch of suitable type must be connected to terminals 13 and 14 to provide adequate protection against loss of liquid flow.

SELECTION UNIT

The tables regulated according to below conditions:

- Assuming 10°F chilled water temp. drop.
- Assuming 10°F water temp. rise.
- The fouling factor considered 0.0001 m²k/w in cooler and condenser coils.

For conditions other than those listed above, use the chilled water correction factors tabulated below:

RANGE °C	FACTORS					
	0.00025 FF		0.00050 FF		0.00075 FF	
	CAP.	KW	CAP.	KW	CAP.	KW
5	1,006	1,002	0.987	0.996	0.969	0.991
8	1,013	1,004	0.994	0.999	0.974	0.993
10	1,018	1,006	1,000	1,000	0.982	0.995
12	1,023	1,007	1,005	1,002	0.985	0.997
15	1,030	1,009	1,013	1,005	0.997	1,000

• Low temperature operation:

To avoid damage to the evaporator, working at low temperatures, it is suggested to use glycol mixtures, the freezing points of which are shown. When working temperature approaches the reported freezing points, brine concentration should be increased

ETHYLENE GLYCPL % WT.	FACTORS				FREEZE POINT (°F)
	TONS	COMPR. KW	P	GPM °F/TON	
10	0.994	0.997	1.03	24.1	26
20	0.986	0.993	1.06	24.9	16
30	0.979	0.990	1.09	25.9	5
40	0.970	0.985	1.13	27.3	-10
50	0.959	0.980	1.16	29.0	-32

• Condenser water ranges

Condenser water flow rates are tabulated for a 10°F range. Refer to the following chart for correction of water flow and capacity multipliers.

WATER RANGE	WATER FLOW	CAPACITY
7.5	1.33	1
15	0.66	0.99
20	0.5	0.99
25	0.39	0.98
30	0.33	0.98

OPERATION LIMITS

DESCRIPTION	MIN.	MAX.
LEAVING CHILLED WATER TEMP. (°C)	4.6	15
WATER TEMP. DIFFERENCE (°C)	4	6
AMBIENT AIR TEMP. (°C) (COOLING MADE)	-10	47

EXAMPLE: Water chilling

1- GIVEN

- Capacity = 120 Tons
- Leaving chilled water temp. = 42 °F
- Chilled water range = 10°F
- Condenser leaving water temp. = 100°F
- Condenser water range = 10°F

2- Find:

- Unit size
- Unit capacity
- Compressor kw input
- Cooler / condenser water pressure drop

3- Form table 13

Select: HLCW -160-4

130.4 tons

122.4 kw

P.D of cooler = 13.5 ft of water

P.D of condenser = 5.1 ft of water

4- calculate compressor kw at 120 tons:

$$\frac{120 \text{ ton}}{130.4 \text{ ton}} \times 122.4 \text{ kw} = 112.6 \text{ AVG. COMPR. KW}$$

Brine chilling

1- GIVEN

- Capacity = 68 Tons
 - 30% by weight ethylene glycol
- from 55 °F to 45 °F
- Fouling factor = 0.00075

- Condensing temp = 125°F

2- Find:

- Unit size
- Unit capacity
- Compressor kw input
- Ethylene glycol GPM
- Cooler pressure drop

3- Determine Correction factor

- Correction factor for 0.00075 fouling factor: 0.982 tons factor and 0.995 kw factor.

Correction factor for ethylene glycol:

0.979 tons factor

0.990 kw factor

25.9 Gal °F / TR factor

From table B :

Select: HLCA-90-3

68.4 tons

77.1 kw

P.D of cooler = 10.3 ft of w .

4- Determine HLCA-90-3 brine cooling

capacity and compressor kw requirement:

$$\text{Tons} = 68.4 \times 0.982 \times 0.979 = 65.7$$

$$\text{Comp. kw} = 77.1 \times 0.995 \times 0.990 = 76$$

5- Determine average full load compressor kw at 68 tons:

$$76 \text{ kw} = 78.6 \text{ compressor kw}$$

6 - Determine Ethylene Glycol GPM:

$$\text{GPM} = \frac{\text{Tons} \times \text{Gal. } ^\circ\text{F min/ ton factor}}{\text{Range}}$$

$$\text{GPM} = \frac{68 \times 25.9}{10} = 176$$

7 - Determine cooler pressure drop

From table B: 1.09 pressure drop

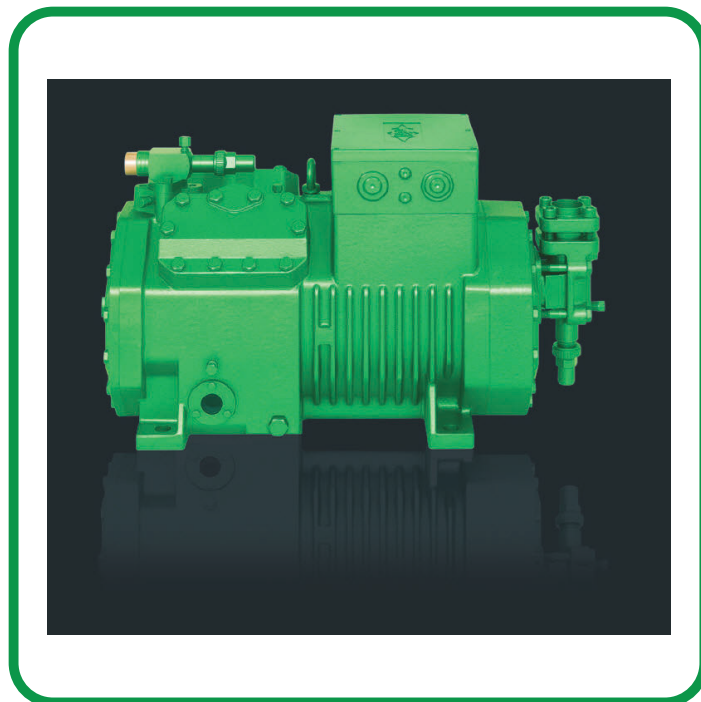
From table 13: 10.3 pressure drop factor

Cooler pressure drop= 10.3 x 1.09

= 11.2 ft .of. w

8- HLCA - 90-3 is suitable.





CAPACITIES WATER COOLED CHILLER CONDENSER ENTERING/LEAVING WATER TEMP.=25/30°C

Engineering Specifications-50 Hz (R-22)-bitzer

TABLE-1-LEAVING CHILLED WATER TEMP.= 5,5°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			GPM	P.D FT.OF W.	GPM	P.D FT OF W
HLCW-5-1	4.36	15.34	10.47	2.2	13.09	4.5
HLCW-10-1	8.73	30.7	20.96	2.8	26.19	4.5
HLCW-15-1	12.12	42.6	29.08	3.0	36.35	7.9
HLCW-20-1	14.22	50	34.13	3.4	42.66	8.2
HLCW-25-1	18.86	66.3	45.26	4.7	56.57	8.2
HLCW-30-1	21.79	76.6	52.29	5.5	65.36	9.5
HLCW-35-1	28.27	99.4	67.85	6.9	84.81	9.7
HLCW-40-1	32.45	114.1	77.88	8.6	97.35	14.2
HLCW-50-1	38.99	137.1	93.58	9.4	116.98	14.8
HLCW-20-2	17.46	61.4	41.91	9.9	52.39	7.5
HLCW-30-2	24.23	85.2	58.16	10.7	72.70	7.9
HLCW-40-2	28.44	100	68.26	9.2	85.32	8.0
HLCW-50-2	37.71	132.6	90.51	14.2	113.14	14.3
HLCW-60-2	43.57	153.2	104.57	13.6	130.72	8.2
HLCW-70-2	56.54	198.8	135.70	13.1	169.62	9.7
HLCW-80-2	64.90	228.2	155.77	12.3	194.71	9.9
HLCW-100-2	77.99	274.2	187.17	12.8	233.96	10.3
HLCW-60-3	42.66	150	102.39	13.3	127.99	8.4
HLCW-75-3	56.57	198.9	135.77	15.4	169.71	14.2
HLCW-90-3	65.36	229.8	156.86	15.4	196.08	8.2
HLCW-105-3	84.81	298.2	203.55	13.4	254.44	9.8
HLCW-120-3	97.35	342.3	233.65	13.6	292.06	9.9
HLCW-150-3	116.98	411.3	280.75	17.1	350.94	10.2
HLCW-80-4	56.88	200	136.52	10.8	170.65	4.4
HLCW-100-4	75.43	265.2	181.02	11.1	226.28	4.5
HLCW-120-4	87.14	306.4	209.15	13.7	261.43	4.7
HLCW-140-4	113.08	397.6	271.40	13.7	339.25	4.6
HLCW-160-4	129.81	456.4	311.54	16.7	389.42	5.8
HLCW-200-4	155.97	548.4	374.33	18.7	467.92	6.3
HLCW-240-6	194.71	684.6	467.30	17.0	584.13	9.9
HLCW-300-6	233.96	822.6	561.50	19.1	701.88	11.3

CONDENSER ENTERING/LEAVING WATER TEMP.=25/30°C

TABLE-1-LEAVING CHILLED WATER TEMP.=6,6°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			GPM	P.D FT OF W	GPM	P.D FT OF W
HLCW-5-1	4.55	16	10.92	2.2	13.65	4.5
HLCW-10-1	9.13	32.1	21.91	2.8	27.39	4.5
HLCW-15-1	12.66	44.5	30.38	3.0	37.97	7.9
HLCW-20-1	14.85	52.2	35.63	3.4	44.54	8.2
HLCW-25-1	19.65	69.1	47.17	4.7	58.96	8.2
HLCW-30-1	22.72	79.9	54.54	5.5	68.17	9.5
HLCW-35-1	29.49	103.7	70.78	6.9	88.48	9.7
HLCW-40-1	33.85	119	81.23	8.6	101.54	14.2
HLCW-50-1	40.67	143	97.61	9.4	122.01	14.8
HLCW-20-2	18.26	64.2	43.82	10.8	54.78	8.4
HLCW-30-2	25.31	89	60.75	11.4	75.94	8.5
HLCW-40-2	29.69	104.4	71.26	10.2	89.08	8.8
HLCW-50-2	39.31	138.2	94.33	15.5	117.92	15.3
HLCW-60-2	45.45	159.8	109.08	14.6	136.35	8.8
HLCW-70-2	58.99	207.4	141.57	14.1	176.96	10.4
HLCW-80-2	67.69	238	162.46	13.5	203.07	10.7
HLCW-100-2	81.34	286	195.22	13.7	244.03	10.9
HLCW-60-3	44.54	156.6	106.89	9.2	133.62	9.2
HLCW-75-3	58.96	207.3	141.50	15.2	176.88	15.2
HLCW-90-3	68.17	239.7	163.62	8.7	204.52	8.7
HLCW-105-3	88.48	311.1	212.35	16.8	265.44	9.2
HLCW-120-3	101.54	357	243.69	14.8	304.61	10.6
HLCW-150-3	122.01	429	292.83	17.1	366.04	12.1
HLCW-80-4	59.39	208.8	142.53	11.2	178.16	4.7
HLCW-100-4	78.61	276.4	188.67	11.9	235.84	4.8
HLCW-120-4	90.90	319.6	218.16	14.8	272.70	5.1
HLCW-140-4	117.97	414.8	283.14	14.7	353.92	4.9
HLCW-160-4	135.38	476	324.91	18.3	406.14	6.4
HLCW-200-4	162.68	572	390.44	18.6	488.05	7.4
HLCW-240-6	203.07	714	487.37	17.7	609.22	10.9
HLCW-300-6	244.03	858	585.67	18.3	732.08	11.5

CONDENSER ENTERING/LEAVING WATER TEMP.=25/30°C

TABLE-1-LEAVING CHILLED WATER TEMP.=7,2°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			GPM	P.D FT OF W	GPM	P.D FT OF W
HLCW-5-1	4.66	16.37	11.17	2.2	13.97	4.5
HLCW-10-1	9.33	32.8	22.39	2.8	27.99	4.5
HLCW-15-1	12.97	45.6	31.13	3.0	38.91	7.9
HLCW-20-1	15.19	53.4	36.45	3.4	45.56	8.2
HLCW-25-1	20.11	70.7	48.26	4.7	60.32	8.2
HLCW-30-1	23.24	81.7	55.77	5.5	69.71	9.5
HLCW-35-1	30.18	106.1	72.42	6.9	90.53	9.7
HLCW-40-1	34.64	121.8	83.14	8.6	103.92	14.2
HLCW-50-1	41.61	146.3	99.86	9.4	124.83	14.8
HLCW-20-2	18.66	65.6	44.78	11	55.97	8.6
HLCW-30-2	25.94	91.2	62.25	12.2	77.82	8.7
HLCW-40-2	30.38	106.8	72.90	10.5	91.13	9.2
HLCW-50-2	40.22	141.4	96.52	16.2	120.65	15.9
HLCW-60-2	46.47	163.4	111.54	15.1	139.42	9.1
HLCW-70-2	60.35	212.2	144.85	13.7	181.06	10.3
HLCW-80-2	69.28	243.6	166.28	14.0	207.85	11.1
HLCW-100-2	83.22	292.6	199.73	14.3	249.66	11.4
HLCW-60-3	45.56	160.2	109.35	15.1	136.69	9.5
HLCW-75-3	60.32	212.1	144.78	17.5	180.97	15.9
HLCW-90-3	69.71	245.1	167.30	17.3	209.13	9.1
HLCW-105-3	90.53	318.3	217.27	16.2	271.59	9.6
HLCW-120-3	103.92	365.4	249.42	15.5	311.77	11.0
HLCW-150-3	124.83	438.9	299.59	17.4	374.49	12.3
HLCW-80-4	60.75	213.6	145.80	11.8	182.25	4.9
HLCW-100-4	80.43	282.8	193.04	12.5	241.30	5.0
HLCW-120-4	92.95	326.8	223.07	15.5	278.84	5.2
HLCW-140-4	120.71	424.4	289.69	15.3	362.12	5.1
HLCW-160-4	138.57	487.2	332.56	19.1	415.70	6.6
HLCW-200-4	166.44	585.2	399.45	19.1	499.32	8.6
HLCW-240-6	207.85	730.8	498.84	19.8	623.55	11.8
HLCW-300-6	249.66	877.8	599.18	19.9	748.98	11.8

CONDENSER ENTERING/LEAVING WATER TEMP.=25/30°C

Table-1-leaving Chilled Water Temp.=7,4°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			GPM	P.D FT OF W	GPM	P.D FT OF W
HLCW-5-1	4.69	16.5	11.26	2.2	14.08	4.5
HLCW-10-1	9.41	33.1	22.59	2.8	28.24	4.5
HLCW-15-1	13.05	45.9	31.33	3.0	39.16	7.9
HLCW-20-1	15.30	53.8	36.72	3.4	45.90	8.2
HLCW-25-1	20.28	71.3	48.67	4.7	60.84	8.2
HLCW-30-1	23.44	82.4	56.25	5.5	70.31	9.5
HLCW-35-1	30.40	106.9	72.97	6.9	91.21	9.7
HLCW-40-1	34.90	122.7	83.75	8.6	104.69	14.2
HLCW-50-1	41.92	147.4	100.61	9.4	125.77	14.8
HLCW-20-2	18.83	66.2	45.19	11.23	56.48	8.7
HLCW-30-2	26.11	91.8	62.66	12.5	78.33	9.2
HLCW-40-2	30.60	107.6	73.45	11.1	91.81	9.6
HLCW-50-2	40.56	142.6	97.34	17.2	121.67	16.7
HLCW-60-2	46.87	164.8	112.49	15.8	140.61	9.3
HLCW-70-2	60.81	213.8	145.94	15.3	182.42	11.1
HLCW-80-2	69.80	245.4	167.51	14.7	209.39	11.4
HLCW-100-2	83.85	294.8	201.23	15.3	251.54	11.6
HLCW-60-3	45.90	161.4	110.17	15.8	137.71	9.9
HLCW-75-3	60.84	213.9	146.01	18.5	182.51	16.4
HLCW-90-3	70.31	247.2	168.74	18.1	210.92	9.4
HLCW-105-3	91.21	320.7	218.91	16.4	273.63	9.1
HLCW-120-3	104.69	368.1	251.26	16.1	314.08	11.3
HLCW-150-3	125.77	442.2	301.84	17.4	377.30	12.5
HLCW-80-4	61.21	215.2	146.89	12.5	183.62	5
HLCW-100-4	81.11	285.2	194.68	13.2	243.34	5.2
HLCW-120-4	93.74	329.6	224.98	16.0	281.23	5.4
HLCW-140-4	121.62	427.6	291.88	16.0	364.85	5.2
HLCW-160-4	139.59	490.8	335.02	19.9	418.77	6.8
HLCW-200-4	167.69	589.6	402.46	20	503.07	8.9
HLCW-240-6	209.39	736.2	502.53	20.3	628.16	11.7
HLCW-300-6	251.54	884.4	603.69	20.4	754.61	11.9

CAPACITIES WATER COOLED CHILLER CONDENSER ENTERING/LEAVING WATER TEMP.=27/32°C

TABLE-1-LEAVING CHILLED WATER TEMP.= 5,5°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			GPM	P.D FT OF W	GPM	P.D FT OF W
HLCW-5-1	4.25	14.94	10.20	2.0	12.75	4.2
HLCW-10-1	8.53	30	20.48	2.5	25.60	4.3
HLCW-15-1	11.83	41.6	28.40	2.8	35.49	9.1
HLCW-20-1	13.91	48.9	33.38	3.2	41.72	7.5
HLCW-25-1	18.43	64.8	44.23	4.3	55.29	7.9
HLCW-30-1	21.33	75	51.19	5.2	63.99	13.6
HLCW-35-1	27.65	97.2	66.35	8.0	82.94	7.8
HLCW-40-1	31.74	111.6	76.18	6.5	95.22	9.3
HLCW-50-1	38.14	134.1	91.54	7.4	114.42	14.8
HLCW-20-2	17.06	60	40.96	9.9	51.19	7.5
HLCW-30-2	23.66	83.2	56.79	10.0	70.99	7.7
HLCW-40-2	27.82	97.8	66.76	8.4	83.45	7.9
HLCW-50-2	36.86	129.6	88.46	13.3	110.58	13.6
HLCW-60-2	42.66	150	102.39	12.4	127.99	7.8
HLCW-70-2	55.29	194.4	132.70	12.2	165.87	9.4
HLCW-80-2	63.48	223.2	152.35	11.4	190.44	9.4
HLCW-100-2	76.28	268.2	183.07	12.8	228.84	10.3
HLCW-60-3	41.72	146.7	100.14	12.4	125.17	8.0
HLCW-75-3	55.29	194.4	132.70	14.3	165.87	13.5
HLCW-90-3	63.99	225	153.58	14.3	191.98	7.8
HLCW-105-3	82.94	291.6	199.04	12.4	248.81	9.3
HLCW-120-3	95.22	334.8	228.53	12.7	285.67	9.4
HLCW-150-3	114.42	402.3	274.61	14.1	343.26	10.2
HLCW-80-4	55.63	195.6	133.52	10	166.89	4.1
HLCW-100-4	73.72	259.2	176.93	10.2	221.16	4.3
HLCW-120-4	85.32	300	204.78	12.7	255.97	4.5
HLCW-140-4	110.58	388.8	265.39	12.7	331.74	4.4
HLCW-160-4	126.96	446.4	304.71	16.6	380.89	5.6
HLCW-200-4	152.56	536.4	366.14	16.9	457.68	6.3
HLCW-240-6	190.44	669.6	457.06	15.0	571.33	9.4
HLCW-300-6	228.84	804.6	549.22	16.1	686.52	9.6

CONDENSER ENTERING/LEAVING WATER TEMP.=27/32°C

TABLE-1-LEAVING CHILLED WATER TEMP.=6,6°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G P M	P.D FT OF W	G P M	P.D FT OF W
HLCW-5-1	4.43	15.59	10.64	2.2	13.30	4.5
HLCW-10-1	8.90	31.3	21.37	3.0	26.71	9.8
HLCW-15-1	12.37	43.5	29.69	3.4	37.12	8.1
HLCW-20-1	14.51	51	34.81	4.7	43.52	8.5
HLCW-25-1	19.23	67.6	46.14	6.6	57.68	14.5
HLCW-30-1	22.24	78.2	53.38	8.6	66.72	8.3
HLCW-35-1	28.84	101.4	69.22	6.9	86.52	10.1
HLCW-40-1	33.11	116.4	79.45	7.0	99.32	10.2
HLCW-50-1	39.79	139.9	95.49	9.4	119.37	10.4
HLCW-20-2	17.80	62.6	42.73	10.8	53.41	8.4
HLCW-30-2	24.74	87	59.39	10.7	74.23	8.1
HLCW-40-2	29.01	102	69.62	9.2	87.03	8.4
HLCW-50-2	38.45	135.2	92.29	14.6	115.36	14.6
HLCW-60-2	44.48	156.4	106.76	13.6	133.45	8.3
HLCW-70-2	57.68	202.8	138.43	13.1	173.04	9.9
HLCW-80-2	66.21	232.8	158.91	12.6	198.63	10.2
HLCW-100-2	79.58	279.8	190.99	13.7	238.74	10.6
HLCW-60-3	43.52	153	104.44	9.2	130.55	8.7
HLCW-75-3	57.68	202.8	138.43	15.2	173.04	14.5
HLCW-90-3	66.72	234.6	160.14	8.7	200.17	8.3
HLCW-105-3	86.52	304.2	207.65	13.4	259.56	9.8
HLCW-120-3	99.32	349.2	238.36	13.8	297.95	10.2
HLCW-150-3	119.37	419.7	286.48	13.9	358.11	10.4
HLCW-80-4	58.02	204	139.25	11.2	174.06	4.3
HLCW-100-4	76.91	270.4	184.57	11.1	230.72	4.5
HLCW-120-4	88.96	312.8	213.52	13.7	266.89	4.8
HLCW-140-4	115.36	405.6	276.86	13.8	346.08	4.7
HLCW-160-4	132.42	465.6	317.82	17.1	397.27	6.0
HLCW-200-4	159.16	559.6	381.98	17.6	477.47	7.4
HLCW-240-6	198.63	698.4	476.72	16.5	595.90	10.4
HLCW-300-6	238.74	839.4	572.97	17.3	716.21	10.5

CONDENSER ENTERING/LEAVING WATER TEMP.=27/32°C

TABLE-1-LEAVING CHILLED WATER TEMP.=7,2°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			GPM	P.D FT OF W	GPM	P.D FT OF W
HLCW-5-1	4.54	15.96	10.89	2.2	13.62	4.7
HLCW-10-1	9.13	32.1	21.91	3.1	27.39	10.1
HLCW-15-1	12.66	44.5	30.38	3.6	37.97	8.4
HLCW-20-1	14.85	52.2	35.63	5.0	44.54	8.8
HLCW-25-1	19.68	69.2	47.24	5.8	59.04	15.1
HLCW-30-1	22.75	80	54.61	9.0	68.26	8.6
HLCW-35-1	29.52	103.8	70.85	6.9	88.57	9.3
HLCW-40-1	33.87	119.1	81.30	7.3	101.62	10.4
HLCW-50-1	40.70	143.1	97.68	8.4	122.10	11.8
HLCW-20-2	18.26	64.2	43.82	10.8	54.78	8.3
HLCW-30-2	25.31	89	60.75	11.1	75.94	8.5
HLCW-40-2	29.69	104.4	71.26	9.7	89.08	8.8
HLCW-50-2	39.36	138.4	94.47	15.2	118.09	15.1
HLCW-60-2	45.51	160	109.22	14.1	136.52	8.6
HLCW-70-2	59.04	207.6	141.71	13.7	177.13	10.3
HLCW-80-2	67.75	238.2	162.59	13.1	203.24	10.6
HLCW-100-2	81.40	286.2	195.36	14.7	244.20	11.2
HLCW-60-3	44.54	156.6	106.89	14.1	133.62	9.4
HLCW-75-3	59.04	207.6	141.71	16.3	177.13	9.1
HLCW-90-3	68.26	240	163.82	16.0	204.78	15.0
HLCW-105-3	88.57	311.4	212.56	14.1	265.70	9
HLCW-120-3	101.62	357.3	243.89	14.4	304.86	10.5
HLCW-150-3	122.10	429.3	293.04	16.4	366.30	9.5
HLCW-80-4	59.39	208.8	142.53	10.2	178.16	6.8
HLCW-100-4	78.73	276.8	188.94	11.7	236.18	4.8
HLCW-120-4	91.01	320	218.43	14.2	273.04	5.0
HLCW-140-4	118.09	415.2	283.41	14.3	354.27	4.8
HLCW-160-4	135.49	476.4	325.19	17.7	406.48	6.2
HLCW-200-4	162.80	572.4	390.72	16.4	488.40	8.6
HLCW-240-6	203.24	714.6	487.78	18.1	609.73	11.0
HLCW-300-6	244.20	858.6	586.08	18.6	732.59	11.6

CONDENSER ENTERING/LEAVING WATER TEMP.=27/32°C

TABLE-1-LEAVING CHILLED WATER TEMP.=7,4°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			GPM	P.D FT OF W	GPM	P.D FT OF W
HLCW-5-1	4.57	16.08	10.98	2.3	13.72	4.8
HLCW-10-1	9.19	32.3	22.05	3.2	27.56	10.4
HLCW-15-1	12.77	44.9	30.65	3.7	38.31	8.7
HLCW-20-1	14.96	52.6	35.90	5.2	44.88	9.1
HLCW-25-1	19.82	69.7	47.58	6.1	59.47	15.7
HLCW-30-1	22.92	80.6	55.02	9.3	68.77	8.9
HLCW-35-1	29.75	104.6	71.40	6.9	89.25	9.7
HLCW-40-1	34.13	120	81.91	7.6	102.39	10.8
HLCW-50-1	41.01	144.2	98.43	8.8	123.04	11.9
HLCW-20-2	18.37	64.6	44.10	10.6	55.12	9.0
HLCW-30-2	25.54	89.8	61.30	11.8	76.62	8.7
HLCW-40-2	29.92	105.2	71.81	10.2	89.76	9.2
HLCW-50-2	39.65	139.4	95.15	15.9	118.94	15.9
HLCW-60-2	45.85	161.2	110.03	14.6	137.54	8.9
HLCW-70-2	59.50	209.2	142.80	14.3	178.50	10.7
HLCW-80-2	68.26	240	163.82	13.7	204.78	11.0
HLCW-100-2	82.03	288.4	196.86	14.6	246.08	11.4
HLCW-60-3	44.88	157.8	107.71	14.6	134.64	9.5
HLCW-75-3	59.47	209.1	142.73	17.0	178.41	15.7
HLCW-90-3	68.77	241.8	165.05	16.6	206.31	8.9
HLCW-105-3	89.25	313.8	214.20	14.6	267.75	10.3
HLCW-120-3	102.39	360	245.73	15.0	307.17	10.9
HLCW-150-3	123.04	432.6	295.29	15.9	369.11	11.8
HLCW-80-4	59.84	210.4	143.62	12.1	179.52	4.8
HLCW-100-4	79.29	278.8	190.31	12.2	237.88	4.9
HLCW-120-4	91.70	322.4	220.07	14.8	275.09	5.1
HLCW-140-4	119.00	418.4	285.60	14.8	357.00	5.0
HLCW-160-4	136.52	480	327.65	18.5	409.56	6.5
HLCW-200-4	164.05	576.8	393.72	18.6	492.15	9.4
HLCW-240-6	204.78	720	491.47	18.8	614.33	11.0
HLCW-300-6	246.08	865.2	590.58	19.5	738.23	13.3

CAPACITIES

WATER COOLED CHILLER

CONDENSER ENTERING/LEAVING WATER TEMP.=30/35°C

TABLE-1-LEAVING CHILLED WATER TEMP.= 5,5°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			GPM	P.D FT OF W	GPM	P.D FT OF W
HLCW-5-1	4.08	14.36	9.80	1.8	12.25	4.0
HLCW-10-1	8.25	29	19.80	2.6	24.74	8.8
HLCW-15-1	11.43	40.2	27.44	3.0	34.30	7.2
HLCW-20-1	13.42	47.2	32.22	4.0	40.27	7.5
HLCW-25-1	17.80	62.6	42.73	4.8	53.41	12.9
HLCW-30-1	20.62	72.5	49.49	7.3	61.86	7.4
HLCW-35-1	26.71	93.9	64.10	6.9	80.12	9.7
HLCW-40-1	30.66	107.8	73.58	6.0	91.98	9.0
HLCW-50-1	36.89	129.7	88.53	5.9	110.67	8.6
HLCW-20-2	16.50	58	39.59	9.6	49.49	7.2
HLCW-30-2	22.87	80.4	54.88	9.4	68.60	7.3
HLCW-40-2	26.85	94.4	64.44	8.0	80.55	7.5
HLCW-50-2	35.61	125.2	85.46	12.4	106.83	13.1
HLCW-60-2	41.24	145	98.98	11.4	123.72	7.4
HLCW-70-2	53.41	187.8	128.19	11.3	160.24	8.9
HLCW-80-2	61.32	215.6	147.17	10.7	183.96	9.1
HLCW-100-2	73.78	259.4	177.06	10.2	221.33	9.6
HLCW-60-3	40.27	141.6	96.66	11.2	120.82	7.7
HLCW-75-3	53.41	187.8	128.19	13.2	160.24	13.0
HLCW-90-3	61.86	217.5	148.46	13.1	185.58	7.4
HLCW-105-3	80.12	281.7	192.29	11.4	240.36	8.8
HLCW-120-3	91.98	323.4	220.75	11.8	275.94	9.0
HLCW-150-3	110.67	389.1	265.60	12.6	332.00	9.6
HLCW-80-4	53.70	188.8	128.87	9.5	161.09	3.9
HLCW-100-4	71.22	250.4	170.92	9.4	213.65	4.0
HLCW-120-4	82.48	290	197.95	11.7	247.44	4.3
HLCW-140-4	106.83	375.6	256.38	11.8	320.48	4.2
HLCW-160-4	122.64	431.2	294.33	14.5	367.92	5.4
HLCW-200-4	147.55	518.8	354.13	14.8	442.66	5.2
HLCW-240-6	183.96	646.8	441.50	14.0	551.88	9.4
HLCW-300-6	221.33	778.2	531.19	14.8	663.99	9.5

CONDENSER ENTERING/LEAVING WATER TEMP.=30/35°C

TABLE-1-LEAVING CHILLED WATER TEMP.=6,6°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			GPM	P.D FT OF W	GPM	P.D FT OF W
HLCW-5-1	4.26	14.99	10.23	1.9	12.79	4.3
HLCW-10-1	8.62	30.3	20.68	2.8	25.85	9.4
HLCW-15-1	11.92	41.9	28.60	3.2	35.75	7.8
HLCW-20-1	14.02	49.3	33.65	4.4	42.06	8.1
HLCW-25-1	18.60	65.4	44.64	5.2	55.80	13.8
HLCW-30-1	21.50	75.6	51.60	7.9	64.51	7.9
HLCW-35-1	27.87	98	66.89	6.9	83.62	8.4
HLCW-40-1	32.00	112.5	76.79	6.6	95.99	9.7
HLCW-50-1	38.48	135.3	92.35	8.4	115.44	10.6
HLCW-20-2	17.24	60.6	41.37	7.5	51.71	6.4
HLCW-30-2	23.83	83.8	57.20	10.0	71.50	7.9
HLCW-40-2	28.04	98.6	67.30	8.7	84.13	8.1
HLCW-50-2	37.20	130.8	89.28	13.3	111.60	13.8
HLCW-60-2	43.00	151.2	103.21	12.4	129.01	8.0
HLCW-70-2	55.75	196	133.79	12.2	167.24	9.5
HLCW-80-2	63.99	225	153.58	11.7	191.98	9.7
HLCW-100-2	76.96	270.6	184.71	10.4	230.89	10.6
HLCW-60-3	42.06	147.9	100.96	12.4	126.19	8.3
HLCW-75-3	55.80	196.2	133.92	14.3	167.41	13.8
HLCW-90-3	64.51	226.8	154.81	14.2	193.52	7.9
HLCW-105-3	83.62	294	200.68	11.4	250.85	8.8
HLCW-120-3	95.99	337.5	230.38	12.8	287.97	9.7
HLCW-150-3	115.44	405.9	277.06	12.1	346.33	9.8
HLCW-80-4	56.09	197.2	134.61	9.3	168.26	4.2
HLCW-100-4	74.40	261.6	178.57	10.2	223.21	4.4
HLCW-120-4	86.01	302.4	206.42	12.6	258.02	4.6
HLCW-140-4	111.49	392	267.58	12.7	334.47	4.5
HLCW-160-4	127.99	450	307.17	15.9	383.96	5.8
HLCW-200-4	153.92	541.2	369.42	14.9	461.77	6.7
HLCW-240-6	191.98	675	460.75	15.3	575.94	9.9
HLCW-300-6	230.89	811.8	554.13	13.9	692.66	9.6

CONDENSER ENTERING/LEAVING WATER TEMP.=30/35°C

TABLE-1-LEAVING CHILLED WATER TEMP.=7,2°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			GPM	P.D FT OF W	GPM	P.D FT OF W
HLCW-5-1	4.36	15.34	10.47	2.1	13.09	4.5
HLCW-10-1	8.82	31	21.16	3.0	26.45	9.7
HLCW-15-1	12.20	42.9	29.28	3.4	36.60	8.1
HLCW-20-1	14.33	50.4	34.40	4.6	43.00	8.4
HLCW-25-1	19.03	66.9	45.67	5.4	57.08	14.4
HLCW-30-1	22.01	77.4	52.83	8.3	66.04	8.2
HLCW-35-1	28.53	100.3	68.46	7.8	85.58	9.7
HLCW-40-1	32.76	115.2	78.63	6.9	98.29	10.1
HLCW-50-1	39.36	138.4	94.47	8.4	118.09	12.6
HLCW-20-2	17.63	62	42.32	11.3	52.90	7.6
HLCW-30-2	24.40	85.8	58.57	10.4	73.21	8.1
HLCW-40-2	28.67	100.8	68.81	8.9	86.01	8.4
HLCW-50-2	38.05	133.8	91.33	13.9	114.16	14.6
HLCW-60-2	44.03	154.8	105.67	12.8	132.08	8.2
HLCW-70-2	57.05	200.6	136.93	12.8	171.16	9.8
HLCW-80-2	65.53	230.4	157.27	12.2	196.59	10.1
HLCW-100-2	78.73	276.8	188.94	11.9	236.18	9.9
HLCW-60-3	43.00	151.2	103.21	8.7	129.01	8.7
HLCW-75-3	57.08	200.7	137.00	14.3	171.25	14.3
HLCW-90-3	66.04	232.2	158.50	8.2	198.12	8.2
HLCW-105-3	85.58	300.9	205.39	12.6	256.74	9.6
HLCW-120-3	98.29	345.6	235.90	13.5	294.88	10.1
HLCW-150-3	118.09	415.2	283.41	13.9	354.27	9.8
HLCW-80-4	57.34	201.6	137.61	10.0	172.01	4.4
HLCW-100-4	76.11	267.6	182.66	10.7	228.33	4.5
HLCW-120-4	88.05	309.6	211.33	13.1	264.16	4.7
HLCW-140-4	114.11	401.2	273.86	13.2	342.32	4.6
HLCW-160-4	131.06	460.8	314.54	16.6	393.17	6.0
HLCW-200-4	157.45	553.6	377.88	16.4	472.35	6.8
HLCW-240-6	196.59	691.2	471.81	17.2	589.76	10.8
HLCW-300-6	236.18	830.4	566.83	16.9	708.53	10.6

CONDENSER ENTERING/LEAVING WATER TEMP.=30/35°C

TABLE-1-LEAVING CHILLED WATER TEMP.=7,4°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			GPM	P.D FT OF W	GPM	P.D FT OF W
HLCW-5-1	4.40	15.46	10.55	2.3	13.19	4.8
HLCW-10-1	8.87	31.2	21.30	3.2	26.62	10.4
HLCW-15-1	12.32	43.3	29.56	3.7	36.95	8.7
HLCW-20-1	14.45	50.8	34.68	5.2	43.34	9.1
HLCW-25-1	19.17	67.4	46.01	6.1	57.51	15.7
HLCW-30-1	22.18	78	53.24	9.3	66.55	8.9
HLCW-35-1	28.75	101.1	69.01	8.4	86.26	9.6
HLCW-40-1	33.02	116.1	79.25	7.6	99.06	10.8
HLCW-50-1	39.68	139.5	95.22	7.4	119.03	11.2
HLCW-20-2	17.75	62.4	42.59	11.6	53.24	8.2
HLCW-30-2	24.63	86.6	59.11	11.8	73.89	8.7
HLCW-40-2	28.90	101.6	69.35	10.2	86.69	9.2
HLCW-50-2	38.34	134.8	92.01	15.9	115.02	15.9
HLCW-60-2	44.37	156	106.48	14.6	133.11	8.9
HLCW-70-2	57.51	202.2	138.02	14.3	172.53	10.7
HLCW-80-2	66.04	232.2	158.50	13.7	198.12	11.0
HLCW-100-2	79.35	279	190.44	14.1	238.05	11.6
HLCW-60-3	43.34	152.4	104.03	14.6	130.03	9.5
HLCW-75-3	57.51	202.2	138.02	17.0	172.53	15.7
HLCW-90-3	66.55	234	159.73	16.6	199.66	8.9
HLCW-105-3	86.26	303.3	207.03	14.2	258.79	10.1
HLCW-120-3	99.06	348.3	237.75	15.0	297.18	10.9
HLCW-150-3	119.03	418.5	285.67	15.6	357.08	11.7
HLCW-80-4	57.79	203.2	138.70	12.0	173.38	4.8
HLCW-100-4	76.68	269.6	184.03	12.2	230.03	4.9
HLCW-120-4	88.74	312	212.97	14.8	266.21	5.1
HLCW-140-4	115.02	404.4	276.04	13.2	345.05	4.6
HLCW-160-4	132.08	464.4	317.00	16.6	396.25	6.0
HLCW-200-4	158.70	558	380.89	17.0	476.11	6.8
HLCW-240-6	198.12	696.6	475.49	17.6	594.37	10.8
HLCW-300-6	238.05	837	571.33	18.3	714.16	11.6

CONDENSER ENTERING/LEAVING WATER TEMP.=33/38°C

TABLE-1-LEAVING CHILLED WATER TEMP.= 5,5°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			GPM	P.D FT OF W	GPM	P.D FT OF W
HLCW-5-1	3.92	13.78	9.41	1.6	11.76	3.8
HLCW-10-1	7.94	27.9	19.04	2.5	23.81	8.4
HLCW-15-1	11.01	38.7	26.42	2.7	33.02	7.0
HLCW-20-1	12.94	45.5	31.06	3.7	38.82	7.1
HLCW-25-1	17.18	60.4	41.23	4.4	51.54	12.3
HLCW-30-1	19.91	70	47.78	6.7	59.73	7.0
HLCW-35-1	25.77	90.6	61.84	5.9	77.30	7.7
HLCW-40-1	29.58	104	70.99	5.6	88.74	8.6
HLCW-50-1	35.61	125.2	85.46	5.2	106.83	9.8
HLCW-20-2	15.87	55.8	38.09	9.4	47.61	7.0
HLCW-30-2	22.01	77.4	52.83	8.4	66.04	7.1
HLCW-40-2	25.88	91	62.12	7.3	77.65	7.2
HLCW-50-2	34.36	120.8	82.46	11.3	103.07	12.3
HLCW-60-2	39.82	140	95.56	10.4	119.45	7.0
HLCW-70-2	51.54	181.2	123.69	10.4	154.61	8.5
HLCW-80-2	59.16	208	141.98	10.0	177.47	8.7
HLCW-100-2	71.22	250.4	170.92	9.8	213.65	8.8
HLCW-60-3	38.82	136.5	93.17	10.4	116.47	7.3
HLCW-75-3	51.54	181.2	123.69	12.2	154.61	12.2
HLCW-90-3	59.73	210	143.34	11.9	179.18	7.0
HLCW-105-3	77.30	271.8	185.53	10.4	231.91	8.4
HLCW-120-3	88.74	312	212.97	10.9	266.21	8.6
HLCW-150-3	106.83	375.6	256.38	11.4	320.48	8.9
HLCW-80-4	51.76	182	124.23	10.2	155.29	3.9
HLCW-100-4	68.71	241.6	164.91	8.7	206.14	3.9
HLCW-120-4	79.64	280	191.13	10.6	238.91	4.1
HLCW-140-4	103.07	362.4	247.37	10.8	309.22	4.0
HLCW-160-4	118.32	416	283.96	13.5	354.95	5.1
HLCW-200-4	142.43	500.8	341.84	14.6	427.30	5.6
HLCW-240-6	177.47	624	425.94	12.6	532.42	8.9
HLCW-300-6	213.65	751.2	512.76	14.3	640.96	9.6

CONDENSER ENTERING/LEAVING WATER TEMP.=33/38°C

TABLE-1-LEAVING CHILLED WATER TEMP.=6,6°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			GPM	P.D FT OF W	GPM	P.D FT OF W
HLCW-5-1	4.09	14.39	9.82	1.8	12.28	4.1
HLCW-10-1	8.30	29.2	19.93	2.6	24.91	9.0
HLCW-15-1	11.49	40.4	27.58	3.0	34.47	7.5
HLCW-20-1	13.51	47.5	32.42	4.1	40.53	7.7
HLCW-25-1	17.95	63.1	43.07	4.8	53.84	13.2
HLCW-30-1	20.76	73	49.83	7.3	62.29	7.5
HLCW-35-1	26.91	94.6	64.57	6.9	80.72	9.7
HLCW-40-1	30.89	108.6	74.13	6.1	92.66	9.3
HLCW-50-1	37.17	130.7	89.22	6.0	111.52	9.0
HLCW-20-2	16.61	58.4	39.86	9.6	49.83	7.4
HLCW-30-2	22.98	80.8	55.15	9.4	68.94	7.5
HLCW-40-2	27.02	95	64.85	8.0	81.06	7.7
HLCW-50-2	35.89	126.2	86.14	12.4	107.68	13.3
HLCW-60-2	41.52	146	99.66	11.4	124.57	7.5
HLCW-70-2	53.81	189.2	129.15	11.3	161.43	9.0
HLCW-80-2	61.77	217.2	148.26	10.8	185.32	9.3
HLCW-100-2	74.35	261.4	178.43	10.5	223.04	9.6
HLCW-60-3	40.53	142.5	97.27	11.4	121.59	7.9
HLCW-75-3	53.84	189.3	129.22	13.2	161.52	13.2
HLCW-90-3	62.29	219	149.49	12.9	186.86	7.5
HLCW-105-3	80.72	283.8	193.72	11.5	242.15	8.8
HLCW-120-3	92.66	325.8	222.39	12.1	277.99	9.2
HLCW-150-3	111.52	392.1	267.65	12.8	334.56	9.9
HLCW-80-4	54.04	190	129.69	10.1	162.12	3.9
HLCW-100-4	71.79	252.4	172.29	9.4	215.36	4.1
HLCW-120-4	83.05	292	199.32	11.5	249.15	4.3
HLCW-140-4	107.62	378.4	258.29	11.8	322.87	4.3
HLCW-160-4	123.55	434.4	296.52	14.7	370.65	5.5
HLCW-200-4	148.69	522.8	356.86	15.1	446.08	6.2
HLCW-240-6	185.32	651.6	444.78	14.2	555.97	9.7
HLCW-300-6	223.04	784.2	535.29	14.8	669.11	9.9

CONDENSER ENTERING/LEAVING WATER TEMP.=33/38°C

TABLE-1-LEAVING CHILLED WATER TEMP.=7,2°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			GPM	P.D FT OF W	GPM	P.D FT OF W
HLCW-5-1	4.19	14.73	10.05	1.9	12.57	4.2
HLCW-10-1	8.50	29.9	20.41	2.7	25.51	9.3
HLCW-15-1	11.77	41.4	28.26	3.1	35.32	7.8
HLCW-20-1	13.82	48.6	33.17	4.2	41.47	8.0
HLCW-25-1	18.37	64.6	44.10	5.0	55.12	13.7
HLCW-30-1	21.27	74.8	51.06	7.6	63.82	7.8
HLCW-35-1	27.56	96.9	66.14	6.9	82.68	8.7
HLCW-40-1	31.63	111.2	75.90	6.6	94.88	9.9
HLCW-50-1	38.03	133.7	91.26	6.1	114.08	10.1
HLCW-20-2	17.01	59.8	40.82	9.9	51.02	7.6
HLCW-30-2	23.55	82.8	56.52	9.7	70.65	7.9
HLCW-40-2	27.65	97.2	66.35	8.2	82.94	8.1
HLCW-50-2	36.75	129.2	88.19	13.0	110.24	13.8
HLCW-60-2	42.55	149.6	102.12	11.9	127.65	7.8
HLCW-70-2	55.12	193.8	132.29	11.7	165.36	9.4
HLCW-80-2	63.25	222.4	151.81	11.7	189.76	9.9
HLCW-100-2	76.05	267.4	182.53	11.5	228.16	10.2
HLCW-60-3	41.47	145.8	99.52	11.9	124.40	8.2
HLCW-75-3	55.12	193.8	132.29	13.9	165.36	13.7
HLCW-90-3	63.82	224.4	153.17	13.6	191.47	7.8
HLCW-105-3	82.68	290.7	198.43	11.9	248.04	9.0
HLCW-120-3	94.88	333.6	227.71	12.8	284.64	9.9
HLCW-150-3	114.08	401.1	273.79	13.8	342.24	10.6
HLCW-80-4	55.29	194.4	132.70	9.8	165.87	3.9
HLCW-100-4	73.49	258.4	176.38	9.9	220.48	4.3
HLCW-120-4	85.10	299.2	204.23	12.0	255.29	4.5
HLCW-140-4	110.24	387.6	264.57	12.3	330.72	4.4
HLCW-160-4	126.51	444.8	303.62	15.8	379.52	5.8
HLCW-200-4	152.10	534.8	365.05	16.2	456.31	6.3
HLCW-240-6	189.76	667.2	455.43	15.5	569.28	10.2
HLCW-300-6	228.16	802.2	547.58	16.5	684.47	10.4

CONDENSER ENTERING/LEAVING WATER TEMP.=33/38°C

TABLE-1-LEAVING CHILLED WATER TEMP.=7,4°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			GPM	P.D FT OF W	GPM	P.D FT OF W
HLCW-5-1	4.22	14.85	10.14	2.0	12.67	4.4
HLCW-10-1	8.56	30.1	20.55	2.8	25.68	9.6
HLCW-15-1	11.86	41.7	28.46	3.3	35.58	8.1
HLCW-20-1	13.94	49	33.45	4.4	41.81	8.3
HLCW-25-1	18.52	65.1	44.44	5.2	55.55	14.2
HLCW-30-1	21.42	75.3	51.40	6.0	64.25	12.4
HLCW-35-1	27.76	97.6	66.62	6.9	83.28	9.7
HLCW-40-1	31.88	112.1	76.52	6.7	95.65	10.0
HLCW-50-1	38.34	134.8	92.01	6.5	115.02	10.8
HLCW-20-2	17.12	60.2	41.09	10.1	51.37	7.9
HLCW-30-2	23.72	83.4	56.93	10.4	71.16	8.1
HLCW-40-2	27.87	98	66.89	8.7	83.62	8.2
HLCW-50-2	37.03	130.2	88.87	13.6	111.09	14.3
HLCW-60-2	42.83	150.6	102.80	12.4	128.50	8.1
HLCW-70-2	55.52	195.2	133.24	12.2	166.55	9.7
HLCW-80-2	63.77	224.2	153.04	11.8	191.30	10.1
HLCW-100-2	76.68	269.6	184.03	11.6	230.03	10.8
HLCW-60-3	41.81	147	100.34	12.4	125.43	8.6
HLCW-75-3	55.55	195.3	133.31	14.5	166.64	14.3
HLCW-90-3	64.25	225.9	154.20	14.2	192.75	8.1
HLCW-105-3	83.28	292.8	199.86	12.4	249.83	9.2
HLCW-120-3	95.65	336.3	229.56	13.1	286.95	10.0
HLCW-150-3	115.02	404.4	276.04	13.9	345.05	10.8
HLCW-80-4	55.75	196	133.79	10.1	167.24	4.5
HLCW-100-4	74.06	260.4	177.75	10.3	222.18	4.5
HLCW-120-4	85.67	301.2	205.60	12.5	257.00	4.6
HLCW-140-4	111.04	390.4	266.48	12.7	333.11	4.6
HLCW-160-4	127.53	448.4	306.08	16.1	382.59	5.9
HLCW-200-4	153.36	539.2	368.05	16.8	460.07	6.6
HLCW-240-6	191.30	672.6	459.11	16.2	573.89	10.4
HLCW-300-6	230.03	808.8	552.08	17.4	690.10	10.6

CONDENSER ENTERING/LEAVING WATER TEMP.=36/41°C

TABLE-1-LEAVING CHILLED WATER TEMP.= 5,5°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			GPM	P.D FT OF W	GPM	P.D FT OF W
HLCW-5-1	3.76	13.22	9.02	1.5	11.28	3.6
HLCW-10-1	7.65	26.9	18.36	2.3	22.95	8.1
HLCW-15-1	10.58	37.2	25.39	2.6	31.74	6.7
HLCW-20-1	12.46	43.8	29.90	3.4	37.37	6.9
HLCW-25-1	16.55	58.2	39.73	4.1	49.66	11.6
HLCW-30-1	19.20	67.5	46.08	6.2	57.59	6.7
HLCW-35-1	24.86	87.4	59.66	5.6	74.57	7.4
HLCW-40-1	28.53	100.3	68.46	5.2	85.58	8.2
HLCW-50-1	34.33	120.7	82.39	5.0	102.99	8.9
HLCW-20-2	15.30	53.8	36.72	7.9	45.90	6.6
HLCW-30-2	21.16	74.4	50.78	8.1	63.48	6.7
HLCW-40-2	24.91	87.6	59.80	6.6	74.74	6.8
HLCW-50-2	33.11	116.4	79.45	10.5	99.32	11.7
HLCW-60-2	38.40	135	92.15	9.7	115.19	6.7
HLCW-70-2	49.72	174.8	119.32	9.6	149.15	8.1
HLCW-80-2	57.05	200.6	136.93	9.2	171.16	8.3
HLCW-100-2	68.66	241.4	164.78	9.0	205.97	8.7
HLCW-60-3	37.37	131.4	89.69	9.7	112.12	7.1
HLCW-75-3	49.66	174.6	119.18	11.2	148.98	11.6
HLCW-90-3	57.59	202.5	138.23	11.0	172.78	6.7
HLCW-105-3	74.57	262.2	178.98	9.7	223.72	7.8
HLCW-120-3	85.58	300.9	205.39	10.2	256.74	8.2
HLCW-150-3	102.99	362.1	247.17	10.9	308.96	8.9
HLCW-80-4	49.83	175.2	119.59	7.9	149.49	3.3
HLCW-100-4	66.21	232.8	158.91	8.0	198.63	3.6
HLCW-120-4	76.79	270	184.30	9.8	230.38	3.9
HLCW-140-4	99.43	349.6	238.63	10.0	298.29	3.8
HLCW-160-4	114.11	401.2	273.86	12.5	342.32	4.9
HLCW-200-4	137.32	482.8	329.56	14.3	411.95	4.8
HLCW-240-6	171.16	601.8	410.78	11.9	513.48	8.8
HLCW-300-6	205.97	724.2	494.33	14.6	617.92	9.6

CONDENSER ENTERING/LEAVING WATER TEMP.=36/41°C

TABLE-1-LEAVING CHILLED WATER TEMP.=6,6°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			GPM	P.D FT OF W	GPM	P.D FT OF W
HLCW-5-1	3.93	13.81	9.43	1.6	11.78	3.9
HLCW-10-1	7.99	28.1	19.18	2.5	23.98	8.7
HLCW-15-1	11.06	38.9	26.55	2.8	33.19	7.2
HLCW-20-1	13.00	45.7	31.19	3.7	38.99	7.4
HLCW-25-1	17.29	60.8	41.50	4.4	51.88	12.5
HLCW-30-1	20.05	70.5	48.12	6.7	60.15	7.1
HLCW-35-1	25.94	91.2	62.25	6.1	77.82	8.0
HLCW-40-1	29.78	104.7	71.47	5.6	89.33	8.9
HLCW-50-1	35.84	126	86.01	5.4	107.51	8.8
HLCW-20-2	15.98	56.2	38.36	8.9	47.95	6.8
HLCW-30-2	22.13	77.8	53.11	8.7	66.38	7.3
HLCW-40-2	26.00	91.4	62.39	7.3	77.99	7.3
HLCW-50-2	34.58	121.6	83.00	11.3	103.75	12.6
HLCW-60-2	40.10	141	96.25	10.4	120.31	7.1
HLCW-70-2	51.88	182.4	124.51	10.6	155.63	8.8
HLCW-80-2	59.56	209.4	142.94	10.1	178.67	9.0
HLCW-100-2	71.67	252	172.01	11.5	215.02	9.8
HLCW-60-3	38.99	137.1	93.58	10.6	116.98	7.6
HLCW-75-3	51.88	182.4	124.51	12.2	155.63	12.5
HLCW-90-3	60.15	211.5	144.37	11.9	180.46	7.1
HLCW-105-3	77.82	273.6	186.76	10.7	233.45	8.0
HLCW-120-3	89.33	314.1	214.40	11.1	268.00	9.0
HLCW-150-3	107.51	378	258.02	12.2	322.53	9.8
HLCW-80-4	51.99	182.8	124.78	6.8	155.97	3.8
HLCW-100-4	69.17	243.2	166.01	8.7	207.51	3.9
HLCW-120-4	80.20	282	192.49	10.6	240.61	4.1
HLCW-140-4	103.75	364.8	249.01	11.1	311.26	4.1
HLCW-160-4	119.11	418.8	285.87	13.8	357.34	5.3
HLCW-200-4	143.34	504	344.03	15.2	430.03	5.9
HLCW-240-6	178.67	628.2	428.81	13.0	536.01	9.4
HLCW-300-6	215.02	756	516.04	13.6	645.05	9.6

CONDENSER ENTERING/LEAVING WATER TEMP.=36/41°C

TABLE-1-LEAVING CHILLED WATER TEMP.=7,2°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			GPM	P.D FTOF W	GPM	P.D FTOF W
HLCW-5-1	4.02	14.14	9.65	1.7	12.06	4.0
HLCW-10-1	8.19	28.8	19.66	2.6	24.57	9.0
HLCW-15-1	11.32	39.8	27.17	2.9	33.96	7.4
HLCW-20-1	13.34	46.9	32.01	3.9	40.02	7.6
HLCW-25-1	17.72	62.3	42.53	4.6	53.16	13.0
HLCW-30-1	20.51	72.1	49.22	6.9	61.52	7.4
HLCW-35-1	26.56	93.4	63.75	6.2	79.69	8.4
HLCW-40-1	30.49	107.2	73.17	5.9	91.47	9.2
HLCW-50-1	36.69	129	88.05	5.1	110.07	10.0
HLCW-20-2	16.38	57.6	39.32	9.8	49.15	7.2
HLCW-30-2	22.64	79.6	54.33	9.0	67.92	7.5
HLCW-40-2	26.68	93.8	64.03	7.5	80.03	7.5
HLCW-50-2	35.44	124.6	85.05	11.9	106.31	13.1
HLCW-60-2	41.01	144.2	98.43	10.8	123.04	7.4
HLCW-70-2	53.13	186.8	127.51	11.0	159.39	9.0
HLCW-80-2	60.98	214.4	146.35	10.5	182.94	9.2
HLCW-100-2	73.38	258	176.11	10.1	220.14	9.6
HLCW-60-3	40.02	140.7	96.04	11.0	120.05	7.8
HLCW-75-3	53.16	186.9	127.58	12.8	159.47	13.0
HLCW-90-3	61.52	216.3	147.65	12.4	184.56	7.4
HLCW-105-3	79.69	280.2	191.26	11.1	239.08	8.5
HLCW-120-3	91.47	321.6	219.52	11.5	274.40	9.2
HLCW-150-3	110.07	387	264.16	12.6	330.20	9.9
HLCW-80-4	53.36	187.6	128.05	8.7	160.07	3.9
HLCW-100-4	70.88	249.2	170.10	9.1	212.63	4.1
HLCW-120-4	82.03	288.4	196.86	11.1	246.08	4.3
HLCW-140-4	106.26	373.6	255.02	11.4	318.77	4.3
HLCW-160-4	121.96	428.8	292.70	14.3	365.87	5.5
HLCW-200-4	146.76	516	352.22	14.8	440.27	6.4
HLCW-240-6	182.94	643.2	439.04	14.1	548.81	9.8
HLCW-300-6	220.14	774	528.33	15.2	660.41	10.5

CONDENSER ENTERING/LEAVING WATER TEMP.=36/41°C

TABLE-1-LEAVING CHILLED WATER TEMP.=7,4°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			GPM	P.D FT OF W	GPM	P.D FT OF W
HLCW-5-1	4.05	14.25	9.73	1.8	12.16	4.2
HLCW-10-1	8.25	29	19.80	2.7	24.74	9.3
HLCW-15-1	11.41	40.1	27.37	3.1	34.22	7.7
HLCW-20-1	13.42	47.2	32.22	4.1	40.27	7.9
HLCW-25-1	17.86	62.8	42.87	4.8	53.58	13.5
HLCW-30-1	20.68	72.7	49.62	7.2	62.03	7.6
HLCW-35-1	26.79	94.2	64.30	6.9	80.38	8.7
HLCW-40-1	30.75	108.1	73.79	6.1	92.24	9.5
HLCW-50-1	36.97	130	88.74	5.4	110.92	10.8
HLCW-20-2	16.50	58	39.59	9.8	49.49	7.4
HLCW-30-2	22.81	80.2	54.74	9.4	68.43	7.7
HLCW-40-2	26.85	94.4	64.44	8.0	80.55	7.9
HLCW-50-2	35.72	125.6	85.73	12.4	107.17	13.6
HLCW-60-2	41.35	145.4	99.25	11.2	124.06	7.6
HLCW-70-2	53.58	188.4	128.60	11.3	160.75	9.3
HLCW-80-2	61.49	216.2	147.58	11.0	184.47	9.5
HLCW-100-2	73.95	260	177.47	12.2	221.84	9.8
HLCW-60-3	40.27	141.6	96.66	11.4	120.82	8.2
HLCW-75-3	53.58	188.4	128.60	13.2	160.75	13.5
HLCW-90-3	62.03	218.1	148.87	12.9	186.09	7.6
HLCW-105-3	80.38	282.6	192.90	11.4	241.13	8.8
HLCW-120-3	92.24	324.3	221.37	12.2	276.71	9.5
HLCW-150-3	110.92	390	266.21	13.8	332.76	10.6
HLCW-80-4	53.70	188.8	128.87	9.2	161.09	4.0
HLCW-100-4	71.44	251.2	171.47	9.5	214.33	4.2
HLCW-120-4	82.71	290.8	198.50	11.4	248.12	4.4
HLCW-140-4	107.17	376.8	257.20	11.8	321.50	4.4
HLCW-160-4	122.98	432.4	295.15	14.8	368.94	5.7
HLCW-200-4	147.90	520	354.95	16.2	443.69	5.9
HLCW-240-6	184.47	648.6	442.73	14.9	553.41	10.1
HLCW-300-6	221.84	780	532.42	16.3	665.53	10.4

SPECIFICATIONS OF CONDENSER AND EVAPORATOR

Model	HLCW	HLCW-5-1	HLCW-10-1	HLCW-15-1	HLCW-20-1	HLCW-25-1	HLCW-30-1	HLCW-35-1	HLCW-40-1	HLCW-50-1
cooling capacity	TR	4.36	8.82	12.2	14.33	19.03	22.01	28.53	32.76	39.36
	kW	15.35	31.05	42.94	50.44	66.99	77.48	100.43	115.32	138.55
Compressor	Semi-Hermetic Reciprocating Discus 1750 rpm									
QTY		1	1	1	1	1	1	1	1	1
Oil (Polyol Ester) Charg	USGal	0.52	0.676	0.676	0.676	1.17	1.17	1.235	1.235	1.235
	Litre	2	2.6	2.6	2.6	4.5	4.5	4.75	4.75	4.75
Condenser	Condenser shell & tube									
QTY		1	1	1	1	1	1	1	1	1
Ref. Circuits		1	1	1	1	1	1	1	1	1
Water Volume	GPM	13.08	26.46	36.6	42.99	57.09	66.03	85.59	98.28	118.08
	Litre/s	0.78	1.59	2.20	2.58	3.43	3.96	5.14	5.90	7.08
Evaporator	Direct Expansion shell & tube									
QTY		1	1	1	1	1	1	1	1	1
Ref. Circuits		1	1	1	1	1	1	1	1	1
Water Volume	GPM	10.464	21.168	29.28	34.392	45.672	52.824	68.472	78.624	94.464
	Litre/s	0.63	1.27	1.76	2.06	2.74	3.17	4.11	4.72	5.67
Refrigerant Charge (R22)	Lb	11	22	33	44	55	66	77	88	110
	Kg	5	10	15	20	25	30	35	40	50
Operating Weight (Approx.)	Lb	1210	1628	1672	1760	1892	2090	2530	2860	2970
	Kg	550	740	760	800	860	950	1150	1300	1350

Model	HLCW	HLCW-20-2	HLCW-30-2	HLCW-40-2	HLCW-50-2	HLCW-60-2	HLCW-70-2	HLCW-80-2	HLCW-100-2
cooling capacity	TR	17.64	24.4	42.99	38.06	44.02	57.06	65.52	78.72
	kW	62.09	85.89	151.32	133.97	154.95	200.85	230.63	277.09
Compressor	Semi-Hermetic Reciprocating Discus 1750 rpm								
QTY		2	2	2	2	2	2	2	2
Oil (Polyol Ester) Charg	USGal	0.676	0.676	0.676	1.17	1.17	1.235	1.235	1.235
	Litre	2.6	2.6	2.6	4.5	4.5	4.75	4.75	4.75
Condenser	Condenser shell & tube								
QTY		2	2	2	2	2	2	2	2
Ref. Circuits		2	2	2	2	2	2	2	2
Water Volume	GPM	52.92	73.2	128.97	114.18	132.06	171.18	196.56	236.16
	Litre/s	3.18	4.39	7.74	6.85	7.92	10.27	11.79	14.17
Evaporator	Direct Expansion shell & tube								
QTY		1	1	1	1	1	1	1	1
Ref. Circuits		2	2	2	2	2	2	2	2
Water Volume	GPM	42.336	58.56	103.176	91.344	105.648	136.944	157.248	188.928
	Litre/s	2.54	3.51	6.19	5.48	6.34	8.22	9.43	11.34
Refrigerant Charge (R22)	Lb	44	66	88	110	132	154	176	220
	Kg	20	30	40	50	60	70	80	100
Operating Weight (Approx.)	Lb	1870	2200	2970	2970	4004	4246	4444	4840
	Kg	850	1000	1350	1350	1820	1930	2020	2200

Model	HLCW	HLCW-60-3	HLCW-75-3	HLCW-90-3	HLCW-105-3	HLCW-120-3	HLCW-150-3
cooling capacity	TR	42.99	57.09	66.03	85.59	98.28	118.08
	kW	151.32	200.96	232.43	301.28	345.95	415.64
Compressor	Semi-Hermetic Reciprocating Discus 1750 rpm						
QTY		3	3	3	3	3	3
Oil (Polyol Ester) Charg	USGal	0.676	1.17	1.17	1.235	1.235	1.235
	Litre	2.6	4.5	4.5	4.75	4.75	4.75
Condenser	Condenser shell & tube						
QTY		3	3	3	3	3	3
Ref. Circuits		3	3	3	3	3	3
Water Volume	GPM	128.97	171.27	198.09	256.77	294.84	354.24
	Litre/s	7.74	10.28	11.89	15.41	17.69	21.25
Evaporator	Direct Expansion shell & tube						
QTY		1	1	1	1	1	1
Ref. Circuits		3	3	3	3	3	3
Water Volume	GPM	103.176	137.016	158.472	205.416	235.872	283.392
	Litre/s	6.19	8.22	9.51	12.32	14.15	17.00
Refrigerant Charge (R22)	Lb	132	165	198	231	264	330
	Kg	60	75	90	105	120	150
Operating Weight (Approx.)	Lb	4004	4356	4620	5390	5500	5720
	Kg	1820	1980	2100	2450	2500	2600

Model	HLCW	HLCW-80-4	HLCW-100-4	HLCW-120-4	HLCW-140-4	HLCW-160-4	HLCW-200-4
cooling capacity	TR	57.32	76.12	88.04	114.12	131.04	157.44
	kW	201.77	267.94	309.90	401.70	461.26	554.19
Compressor	Semi-Hermetic Reciprocating Discus 1750 rpm						
QTY		4	4	4	4	4	4
Oil (Polyol Ester) Charg	USGal	0.676	1.17	1.17	1.235	1.235	1.235
	Litre	2.6	4.5	4.5	4.75	4.75	4.75
Condenser	Condenser shell & tube						
QTY		2	2	2	2	2	2
Ref. Circuits		2	2	2	2	2	2
Water Volume	GPM	171.96	228.36	264.12	342.36	393.12	472.32
	Litre/s	10.32	13.70	15.85	20.54	23.59	28.34
Evaporator	Direct Expansion shell & tube						
QTY		1	1	1	1	1	1
Ref. Circuits		2	2	2	2	2	2
Water Volume	GPM	137.568	182.688	211.296	273.888	314.496	377.856
	Litre/s	8.25	10.96	12.68	16.43	18.87	22.67
Refrigerant Charge (R22)	Lb	176	220	264	308	352	440
	Kg	80	100	120	140	160	200
Operating Weight (Approx.)	Lb	5236	5610	5940	6380	6820	7260
	Kg	2380	2550	2700	2900	3100	3300

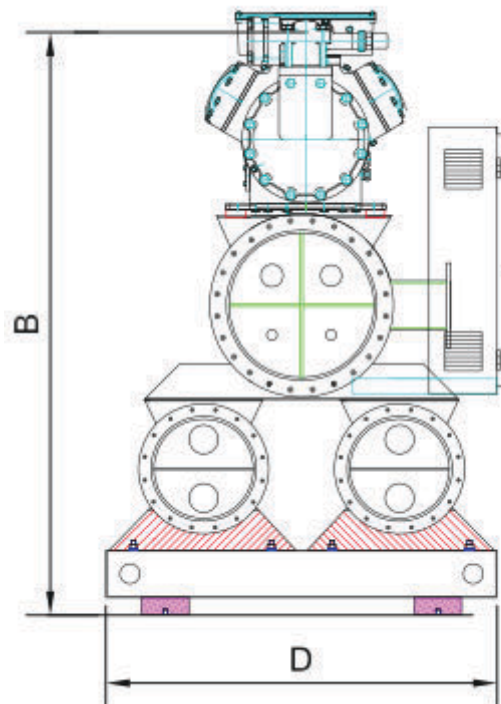
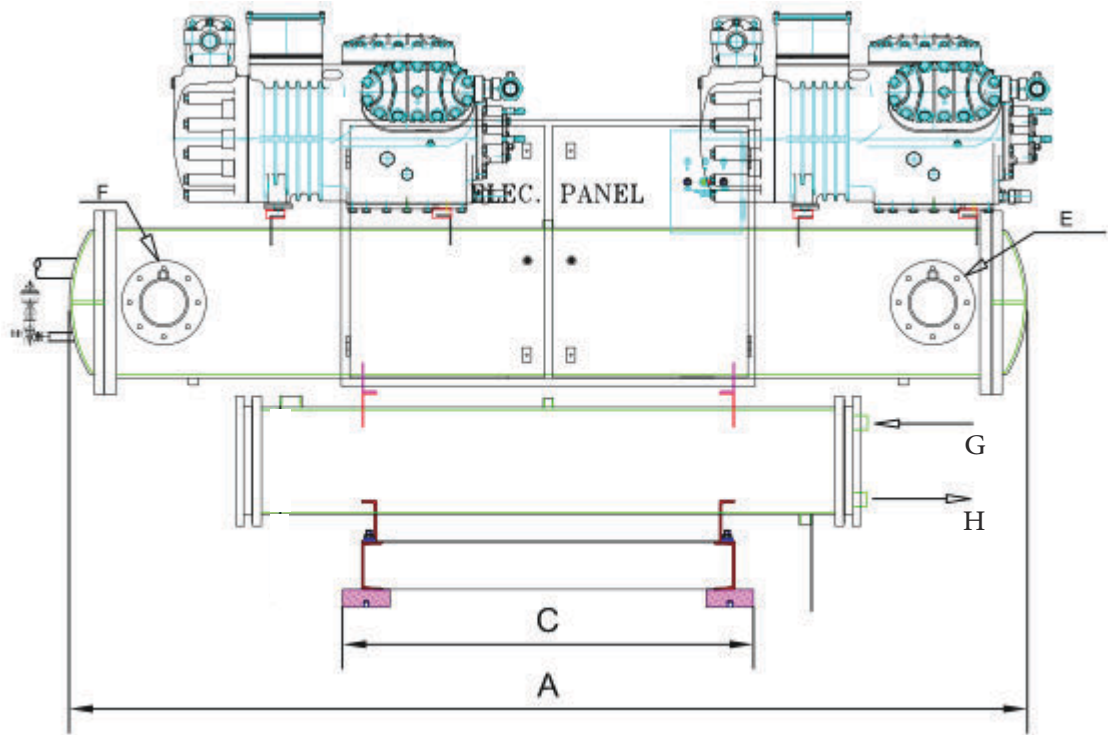
Model	HLCW	HLCW-240-6	HLCW-300-6
cooling capacity	TR	196.56	236.16
	kW	691.89	831.28
Compressor	Semi-Hermetic Reciprocating Discus 1750 rpm		
QTY		6	6
Oil (Polyol Ester) Charg	USGal	1.235	1.235
	Litre	4.75	4.75
Condenser	Condenser shell & tube		
QTY		2	2
Ref. Circuits		2	2
Water Volume	GPM	589.68	708.48
	Litre/s	35.38	42.51
Evaporator	Direct Expansion shell & tube		
QTY		1	1
Ref. Circuits		2	2
Water Volume	GPM	471.744	566.784
	Litre/s	28.30	34.01
Refrigerant Charge (R22)	Lb	528	660
	Kg	240	300
Operating Weight (Approx.)	Lb	8580	9240
	Kg	3900	4200

ELEGTRICAL DATA

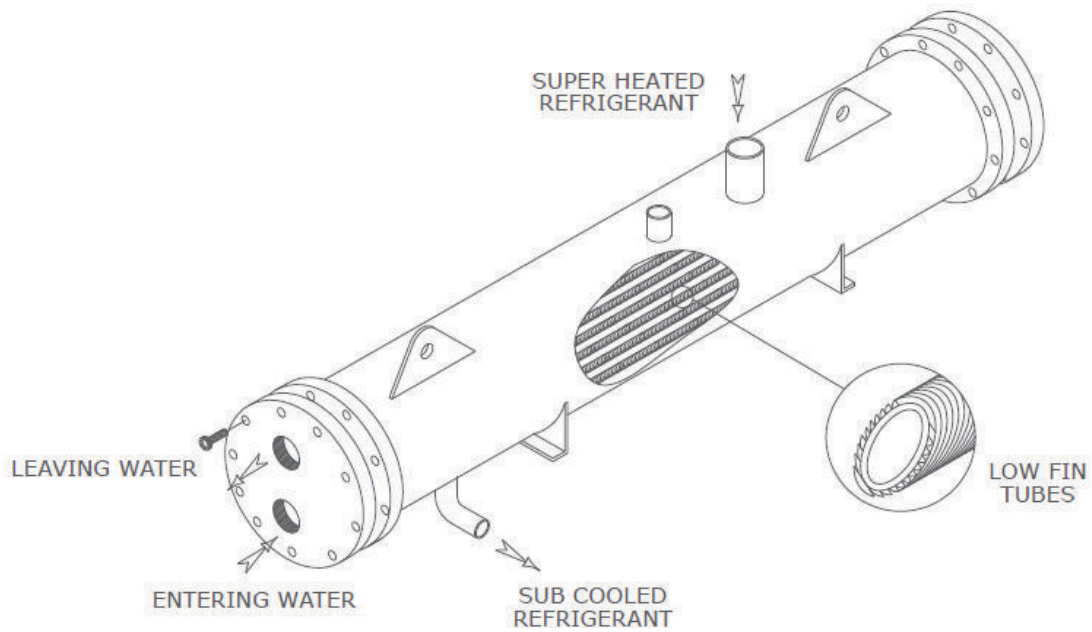
ELECTRICAL DATA				
Condensing Unit MODEL	Nominal Comp. power (HP)	MRA (Amp)	LRA (Amp)	MAX CONSE POWER (kw)
HLCW-5-1	5	10.8	62.2	5.8
HLCW-10-1	10	19.9	59	12
HLCW-15-1	15	28.2	81	16
HLCW-20-1	20	33.2	97	19
HLCW-25-1	25	44	125	25
HLCW-30-1	30	51.2	141	28
HLCW-35-1	35	64.4	165	36
HLCW-40-1	40	73.9	219	42
HLCW-50-1	50	96.2	226	51
HLCW-20-2	20	39.8	118	24
HLCW-30-2	30	56.4	162	32
HLCW-40-2	40	66.4	194	38
HLCW-50-2	50	88	250	50
HLCW-60-2	60	102.4	282	56
HLCW-70-2	70	128.8	330	72
HLCW-80-2	80	147.8	438	84
HLCW-100-2	100	192.4	452	102
HLCW-60-3	60	99.6	291	57
HLCW-75-3	75	132	375	75
HLCW-90-3	90	153.6	423	84
HLCW-105-2	105	193.2	495	108
HLCW-120-2	120	221.7	657	126
HLCW-150-2	150	288.6	678	153
HLCW-80-4	80	132.8	388	76
HLCW-100-4	100	176	500	100
HLCW-120-4	120	204.8	564	112
HLCW-140-4	140	257.6	660	144
HLCW-160-4	160	295.6	876	168
HLCW-200-4	200	384.8	904	204
HLCW-240-6	240	443.4	1314	252
HLCW-300-6	300	577.2	1356	306

DIMENSIONS OF WATER COOLED CHILLER

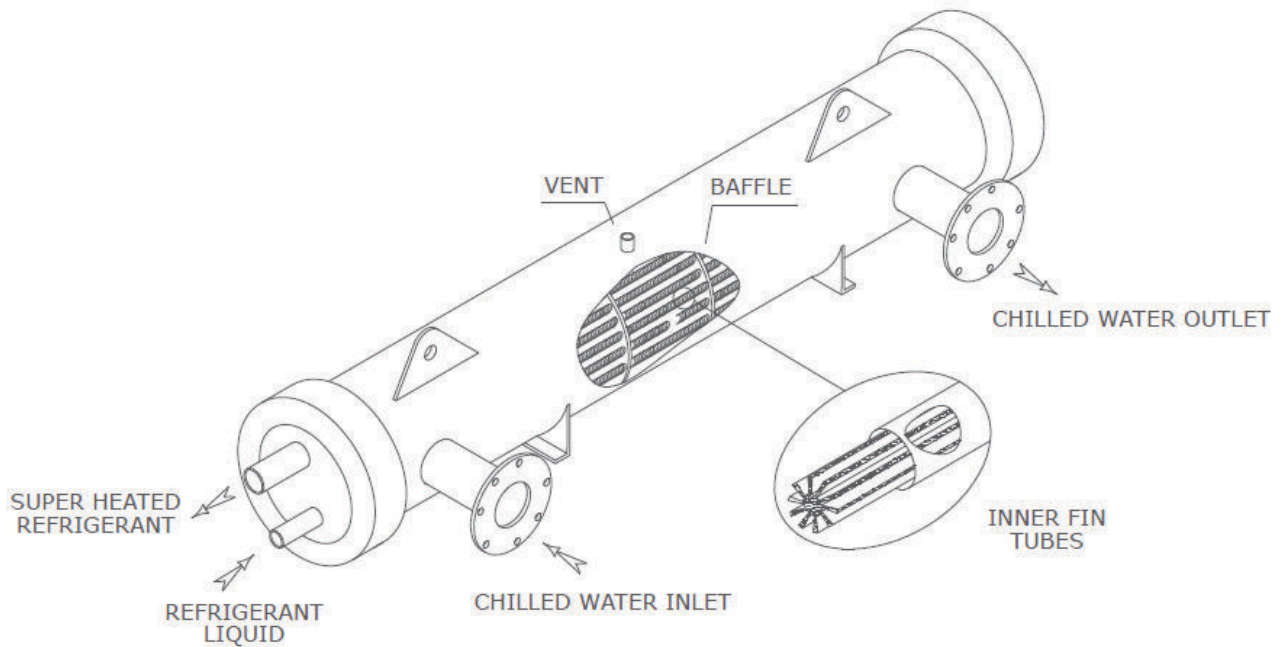
MODEL HAVASAZ	A (mm)	B (mm)	C (mm)	D (mm)	E(in)	F(in)	G(in)	H(in)
HLCW-5-1	1400	1200	900	600	2	2	1	1
HLCW-10-1	1500	1300	1000	700	2 1/2	2 1/2	1 1/2	1 1/2
HLCW-15-1	1500	1300	1000	700	2 1/2	2 1/2	1 1/2	1 1/2
HLCW-20-1	1500	1360	1000	700	2 1/2	2 1/2	2	2
HLCW-25-1	2000	1350	1500	800	3	3	2	2
HLCW-30-1	2000	1350	1500	800	3	3	2	2
HLCW-35-1	2500	1350	1500	850	3	3	2 1/2	2 1/2
HLCW-40-1	1500	1450	1500	850	3	3	2 1/2	2 1/2
HLCW-50-1	1500	1450	1500	850	4	4	3	3
HLCW-20-2	1500	1350	1500	950	2 1/2	2 1/2	2	2
HLCW-30-2	2000	1350	1500	950	3	3	1 1/2x2	1 1/2x2
HLCW-40-2	2500	1450	1500	950	3	3	2x2	2x2
HLCW-50-2	2500	1450	1500	950	3	3	2x2	2x2
HLCW-60-2	2500	1450	1500	950	4	4	2x2	2x2
HLCW-70-2	2500	1500	1500	1050	4	4	2x2	2x2
HLCW-80-2	2500	1500	1500	1050	4	4	2 1/2x2	2 1/2x2
HLCW-100-2	3000	1500	1500	1050	5	5	3	3
HLCW-60-3	3000	1450	1500	1150	4	4	2x2	2x2
HLCW-75-3	3500	1450	1500	1150	4	4	2x2	2x2
HLCW-90-3	3500	1650	1700	1150	5	5	2 1/2x2	2 1/2x2
HLCW-105-3	3000	1650	1700	1150	5	5	2+3	2+3
HLCW-120-3	3000	1700	1800	1150	5	5	2+3	2+3
HLCW-150-3	3000	1700	1800	1150	6	6	3x2	3x2
HLCW-80-4	3500	1650	1800	1150	4	4	3	3
HLCW-100-4	3500	1650	1800	1150	5	5	2 1/2x2	2 1/2x2
HLCW-120-4	3500	1650	1800	1150	5	5	2 1/2x2	2 1/2x2
HLCW-140-4	3500	1750	1900	1200	5	5	3x2	3x2
HLCW-160-4	4000	1750	2000	1200	5	5	3x2	3x2
HLCW-200-4	4000	1750	2000	1150	6	6	3x2	3x2
HLCW-240-6	4000	2050	4500	1250	6	6	3x2	3x2
HLCW-300-6	6000	2150	4500	1250	7	7	3x3	3x3



SHELL & CONDENSER & EVAPORATOR

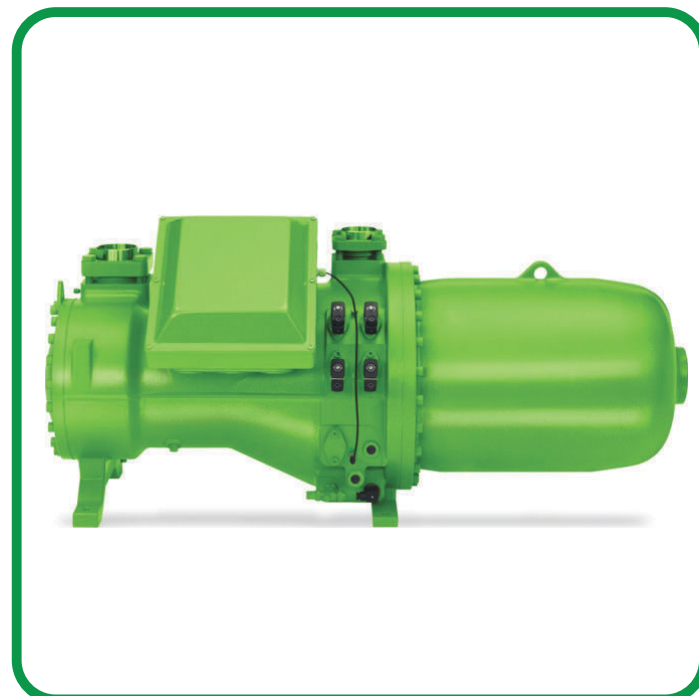


SHELL & TUBE CONDENSER



SHELL & TUBE EVAPORATOR

SCREW



Engineering Specifications-50 Hz (R-22)-bitzer

Model	HLCW	HLCW-50-1	HLCW-60-1	HLCW-70-1	HLCW-80-1	HLCW-90-1	HLCW-100-1
cooling capacity	TR	35.51	44.56	52.21	60.85	72.51	80.19
	kW	124.90	156.70	183.60	214.00	255.00	282.00
Compressor	Compact Screw Compressor CSH Series						
QTY		1	1	1	1	1	1
Oil Charge	USGal	2.51	2.51	3.96	3.96	3.96	3.96
	Litre	9.5	9.5	15	15	15	15
Condenser	Condenser shell & tube						
QTY		1					
Ref. Circuits		1	1	1	1	1	1
Water Volume	GPM	106.54	133.67	156.62	182.55	217.52	240.56
	Litre/s	6.72	8.43	9.88	11.52	13.72	15.18
Evaporator	Direct Expansion shell & tube						
QTY		1					
Ref. Circuits		1	1	1	1	1	1
Water Volume	GPM	85.24	106.94	125.29	146.04	174.02	192.44
	Litre/s	5.38	6.75	7.90	9.21	10.98	12.14
Refrigerant Charge (R22)(Approx)	Lb	110.2	132.2	154.3	176.3	198.4	220.4
	Kg	50	60	70	80	90	100
Operating Weight (Approx)	Lb	2535	2755	4298	4408	4628	4849
	Kg	1150	1250	1950	2000	2100	2200

Model	HLCW	HLCW-110-1 (336)	HLCW-110-1(315)	HLCW-125-1	HLCW-140-1	HLCW-160-1
cooling capacity	TR	91.56	87.29	99.52	115.73	129.66
	kW	322.00	307.00	350.00	407.00	456.00
Compressor	Compact Screw Compressor CSH Series					
QTY		1	1	1	1	1
Oil Charge	USGal	3.96	5.81	5.81	5.81	5.02
	Litre	15	22	22	22	19
Condenser	Condenser shell & tube					
QTY		1				
Ref. Circuits		1	1	1	1	1
Water Volume	GPM	274.68	261.88	298.56	347.19	388.98
	Litre/s	17.33	16.52	18.84	21.90	24.54
Evaporator	Direct Expansion shell & tube					
QTY		1				
Ref. Circuits		1	1	1	1	1
Water Volume	GPM	219.74	209.51	238.85	277.75	311.19
	Litre/s	13.86	13.22	15.07	17.52	19.63
Refrigerant Charge (R22)(Approx)	Lb	242.4	242.4	275.5	308.6	352.6
	Kg	110	110	125	140	160
Operating Weight (Approx)	Lb	5069	6061	6171	6392	7494
	Kg	2300	2750	2800	2900	3400

Model	HLCW	HLCW-100-2	HLCW-120-2	HLCW-140-2	HLCW-160-2	HLCW-180-2	HLCW-200-2
cooling capacity	TR	71.03	89.11	104.41	121.70	145.02	160.37
	kW	249.80	313.40	367.20	428.00	510.00	564.00
Compressor	Compact Screw Compressor CSH Series						
QTY		2	2	2	2	2	2
Oil Charge	USGal	5.02	5.02	7.93	7.93	7.93	7.93
	Litre	19	19	30	30	30	30
Condenser	Condenser shell & tube						
QTY		1					
Ref. Circuits		2	2	2	2	2	2
Water Volume	GPM	213.09	267.34	313.23	365.10	435.05	481.11
	Litre/s	13.44	16.87	19.76	23.03	27.45	30.35
Evaporator	Direct Expansion shell & tube						
QTY		1					
Ref. Circuits		2	2	2	2	2	2
Water Volume	GPM	170.47	213.87	250.59	292.08	348.04	384.89
	Litre/s	10.75	13.49	15.81	18.43	21.96	24.28
Refrigerant Charge (R22)(Approx)	Lb	220.4	264.5	308.6	352.6	396.7	440.8
	Kg	100	120	140	160	180	200
Operating Weight (Approx)	Lb	5179	5730	7604	7824	8045	8155
	Kg	2350	2600	3450	3550	3650	3700

Model	HLCW	HLCW-220-2(2*336)	HLCW-220-2(2*315)	HLCW-250-2	HLCW-280-2	HLCW-320-2
cooling capacity	TR	183.12	174.59	199.04	231.46	259.32
	kW	644.00	614.00	700.00	814.00	912.00
Compressor	Compact Screw Compressor CSH Series					
QTY		2	2	2	2	2
Oil Charge	USGal	7.93	11.62	11.62	11.62	10.04
	Litre	30	44	44	44	38
Condenser	Condenser shell & tube					
QTY		1				
Ref. Circuits		2	2	2	2	2
Water Volume	GPM	549.35	523.76	597.12	694.37	777.97
	Litre/s	34.66	33.04	37.67	43.81	49.08
Evaporator	Direct Expansion shell & tube					
QTY		1				
Ref. Circuits		2	2	2	2	2
Water Volume	GPM	439.48	419.01	477.70	555.50	622.37
	Litre/s	27.73	26.44	30.14	35.05	39.27
Refrigerant Charge (R22)(Approx)	Lb	484.9	484.9	551.0	617.1	705.3
	Kg	220	220	250	280	320
Operating Weight (Approx)	Lb	9367	11240	11461	12563	12893
	Kg	4250	5100	5200	5700	5850

CONDENSER ENTERING/LEAVING WATER TEMP.=25/30°C						
TABLE-1-LEAVING CHILLED WATER TEMP.= 5,5°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-50-1	33.44	117.6	80.25	8.8	100.32	10.1
HLCW-60-1	41.94	147.5	100.66	11.8	125.82	13.1
HLCW-70-1	49.19	173	118.06	16.3	147.58	17.6
HLCW-80-1	57.44	202	137.85	6.8	172.31	8.1
HLCW-90-1	68.53	241	164.47	8.8	205.58	10.1
HLCW-100-1	75.64	266	181.53	10.3	226.91	11.6
HLCW-110-1 (336)	86.16	303	206.78	12.5	258.47	13.8
HLCW-110-1 (315)	82.18	289	197.22	11.6	246.53	12.9
HLCW-125-1	93.55	329	224.52	6.3	280.65	7.6
HLCW-140-1	109.47	385	262.73	7.3	328.42	8.6
HLCW-160-1	122.55	431	294.13	9	367.66	10.7
HLCW-100-2	66.88	235.2	160.51	9.5	200.63	11.2
HLCW-120-2	83.88	295	201.32	11.7	251.65	13.4
HLCW-140-2	98.38	346	236.12	14.9	295.15	16.6
HLCW-160-2	114.88	404	275.70	17.5	344.63	19.2
HLCW-180-2	137.05	482	328.93	6.4	411.16	8.1
HLCW-200-2	151.27	532	363.05	7.5	453.81	9.2
HLCW-220-2 (2*336)	172.31	606	413.55	9.6	516.94	11.3
HLCW-220-2 (2*315)	164.35	578	394.44	7.6	493.05	9.3
HLCW-250-2	187.10	658	449.04	9.2	561.30	11.2
HLCW-280-2	218.95	770	525.47	12.9	656.84	14.9
HLCW-320-2	245.11	862	588.25	15.9	735.32	17.9

CONDENSER ENTERING/LEAVING WATER TEMP.=25/30°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=6,6°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-50-1	34.78	122.3	83.46	9.1	104.33	10.3
HLCW-60-1	43.62	153.4	104.68	12.1	130.86	13.3
HLCW-70-1	51.13	179.8	122.70	16.6	153.38	17.8
HLCW-80-1	59.71	210	143.31	7.1	179.14	8.3
HLCW-90-1	71.09	250	170.61	9.1	213.26	10.3
HLCW-100-1	78.48	276	188.35	10.6	235.44	11.8
HLCW-110-1 (336)	89.57	315	214.96	12.8	268.71	14
HLCW-110-1 (315)	85.30	300	204.73	11.9	255.91	13.1
HLCW-125-1	97.25	342	233.39	6.6	291.74	7.8
HLCW-140-1	113.45	399	272.29	7.6	340.36	9.5
HLCW-160-1	127.10	447	305.05	9.3	381.31	11.6
HLCW-100-2	69.55	244.6	166.92	9.9	208.65	12.1
HLCW-120-2	87.24	306.8	209.37	12.1	261.71	14.3
HLCW-140-2	102.25	359.6	245.40	15.3	306.75	17.5
HLCW-160-2	119.42	420	286.62	17.9	358.27	20.1
HLCW-180-2	142.17	500	341.21	6.8	426.52	9
HLCW-200-2	156.96	552	376.70	7.9	470.88	10.1
HLCW-220-2 (2*336)	179.14	630	429.93	10	537.41	12.2
HLCW-220-2 (2*315)	170.61	600	409.46	8	511.82	9.8
HLCW-250-2	194.49	684	466.78	9.6	583.48	11.7
HLCW-280-2	226.91	798	544.58	13.3	680.72	15.4
HLCW-320-2	254.20	894	610.09	16.3	762.61	18.4

CONDENSER ENTERING/LEAVING WATER TEMP.=25/30°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,2°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-50-1	35.51	124.9	85.24	9.3	106.54	10.4
HLCW-60-1	44.56	156.7	106.94	12.3	133.67	13.4
HLCW-70-1	52.21	183.6	125.29	16.8	156.62	17.9
HLCW-80-1	60.85	214	146.04	7.3	182.55	8.4
HLCW-90-1	72.51	255	174.02	9.3	217.52	10.4
HLCW-100-1	80.19	282	192.44	10.8	240.56	11.9
HLCW-110-1 (336)	91.56	322	219.74	13	274.68	14.2
HLCW-110-1 (315)	87.29	307	209.51	12.3	261.88	13.3
HLCW-125-1	99.52	350	238.85	7	298.56	8
HLCW-140-1	115.73	407	277.75	8	347.19	9.7
HLCW-160-1	129.66	456	311.19	9.7	388.98	11.8
HLCW-100-2	71.03	249.8	170.47	10.3	213.09	12.3
HLCW-120-2	89.11	313.4	213.87	12.5	267.34	14.5
HLCW-140-2	104.41	367.2	250.59	15.7	313.23	17.8
HLCW-160-2	121.70	428	292.08	18.3	365.10	20.4
HLCW-180-2	145.02	510	348.04	7.2	435.05	9.3
HLCW-200-2	160.37	564	384.89	8.4	481.11	10.4
HLCW-220-2 (2*336)	183.12	644	439.48	10.5	549.35	12.5
HLCW-220-2 (2*315)	174.59	614	419.01	8.5	523.76	10.1
HLCW-250-2	199.04	700	477.70	10.1	597.12	12
HLCW-280-2	231.46	814	555.50	13.8	694.37	15.7
HLCW-320-2	259.32	912	622.37	16.8	777.97	18.7

CONDENSER ENTERING/LEAVING WATER TEMP.=25/30°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,4°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-50-1	35.77	125.8	85.85	9.5	107.31	10.5
HLCW-60-1	44.87	157.8	107.69	12.5	134.61	13.5
HLCW-70-1	52.58	184.9	126.18	17	157.73	18
HLCW-80-1	61.42	216	147.40	7.5	184.26	8.5
HLCW-90-1	73.08	257	175.38	9.5	219.23	10.5
HLCW-100-1	80.75	284	193.81	11.3	242.26	12
HLCW-110-1 (336)	92.13	324	221.11	13.5	276.38	14.3
HLCW-110-1 (315)	87.86	309	210.87	12.8	263.59	13.4
HLCW-125-1	100.09	352	240.21	7.5	300.27	8.1
HLCW-140-1	116.30	409	279.11	8.5	348.89	9.8
HLCW-160-1	127.96	450	307.09	10.2	383.87	11.9
HLCW-100-2	71.54	251.6	171.70	10.8	214.62	12.4
HLCW-120-2	89.74	315.6	215.37	13	269.22	14.6
HLCW-140-2	105.15	369.8	252.36	16.1	315.45	17.9
HLCW-160-2	122.84	432	294.81	18.7	368.51	20.5
HLCW-180-2	146.15	514	350.77	7.6	438.46	9.5
HLCW-200-2	161.51	568	387.62	8.8	484.52	10.6
HLCW-220-2 (2*336)	184.26	648	442.21	10.9	552.77	12.7
HLCW-220-2 (2*315)	175.73	618	421.74	8.9	527.18	10.4
HLCW-250-2	200.18	704	480.43	10.5	600.54	12.3
HLCW-280-2	232.59	818	558.23	14.2	697.78	16
HLCW-320-2	261.03	918	626.47	17.2	783.09	19

CONDENSER ENTERING/LEAVING WATER TEMP.=27/32°C							
TABLE-1-LEAVING CHILLED WATER TEMP.= 5,5°C							
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER		
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.	
HLCW-50-1	32.67	114.9	78.41	8.6	98.01	10	9.7
HLCW-60-1	40.97	144.1	98.34	11.6	122.92	13	12.7
HLCW-70-1	48.11	169.2	115.47	16.1	144.33	17.5	17.2
HLCW-80-1	56.04	197.1	134.51	6.6	168.13	8	7.7
HLCW-90-1	67.11	236	161.05	8.6	201.32	10	9.7
HLCW-100-1	73.93	260	177.43	10.1	221.79	11.5	11.2
HLCW-110-1 (336)	84.17	296	202.00	12.3	252.50	13.7	13.4
HLCW-110-1 (315)	80.19	282	192.44	11.4	240.56	12.8	12.5
HLCW-125-1	91.27	321	219.06	6.1	273.82	7.5	7.2
HLCW-140-1	107.48	378	257.96	7.1	322.45	9.2	8.9
HLCW-160-1	119.99	422	287.98	8.8	359.98	11.3	11
HLCW-100-2	65.34	229.8	156.82	9.3	196.03	11.8	11.5
HLCW-120-2	81.95	288.2	196.68	11.5	245.84	13.9	13.6
HLCW-140-2	96.22	338.4	230.93	14.7	288.67	17.1	16.8
HLCW-160-2	112.09	394.2	269.01	17.3	336.27	19.7	19.4
HLCW-180-2	134.21	472	322.11	6.1	402.63	8.6	8.2
HLCW-200-2	147.86	520	354.86	7.2	443.58	9.7	9.3
HLCW-220-2 (2*336)	168.33	592	404.00	9.3	505.00	11.8	11.4
HLCW-220-2 (2*315)	160.37	564	384.89	7.1	481.11	9.4	9
HLCW-250-2	182.55	642	438.12	8.7	547.65	11.3	10.9
HLCW-280-2	214.96	756	515.92	12.4	644.89	15	14.6
HLCW-320-2	239.99	844	575.97	15.4	719.96	18	17.6

CONDENSER ENTERING/LEAVING WATER TEMP.=27/32°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=6,6°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-50-1	33.98	119.5	81.55	8.9	101.94	10.2
HLCW-60-1	42.62	149.9	102.30	11.9	127.87	13.2
HLCW-70-1	50.02	175.9	120.04	16.4	150.05	17.7
HLCW-80-1	58.29	205	139.90	6.9	174.87	8.2
HLCW-90-1	69.66	245	167.19	8.9	208.99	10.2
HLCW-100-1	73.65	259	176.75	10.4	220.94	11.7
HLCW-110-1 (336)	87.58	308	210.19	12.6	262.73	13.9
HLCW-110-1 (315)	83.31	293	199.95	11.7	249.94	13
HLCW-125-1	94.97	334	227.93	6.4	284.91	7.7
HLCW-140-1	111.46	392	267.51	7.4	334.39	9.4
HLCW-160-1	124.54	438	298.90	9.1	373.63	11.5
HLCW-100-2	67.96	239	163.10	9.6	203.88	12
HLCW-120-2	85.25	299.8	204.59	11.8	255.74	14.1
HLCW-140-2	100.03	351.8	240.08	15	300.10	17.3
HLCW-160-2	116.58	410	279.80	17.6	349.74	19.9
HLCW-180-2	139.33	490	334.39	6.4	417.99	8.8
HLCW-200-2	147.29	518	353.50	7.5	441.87	9.9
HLCW-220-2 (2*336)	175.16	616	420.38	9.7	525.47	12
HLCW-220-2 (2*315)	166.63	586	399.90	7.5	499.88	9.7
HLCW-250-2	189.94	668	455.86	9.1	569.83	11.6
HLCW-280-2	222.93	784	535.02	12.8	668.78	15.3
HLCW-320-2	249.09	876	597.81	15.8	747.26	18.3

CONDENSER ENTERING/LEAVING WATER TEMP.=27/32°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,2°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-50-1	34.72	122.1	83.32	9.1	104.16	10.3
HLCW-60-1	43.53	153.1	104.48	12.1	130.60	13.3
HLCW-70-1	51.07	179.6	122.56	16.6	153.21	17.8
HLCW-80-1	59.43	209	142.63	7.1	178.28	8.3
HLCW-90-1	71.09	250	170.61	9.1	213.26	10.3
HLCW-100-1	78.48	276	188.35	10.6	235.44	11.8
HLCW-110-1 (336)	89.57	315	214.96	12.8	268.71	14
HLCW-110-1 (315)	85.30	300	204.73	11.9	255.91	13.1
HLCW-125-1	97.25	342	233.39	6.6	291.74	7.8
HLCW-140-1	113.45	399	272.29	7.7	340.36	9.5
HLCW-160-1	127.10	447	305.05	9.4	381.31	11.7
HLCW-100-2	69.44	244.2	166.65	9.9	208.31	12.2
HLCW-120-2	87.07	306.2	208.96	12.1	261.20	14.3
HLCW-140-2	102.14	359.2	245.13	15.3	306.41	17.5
HLCW-160-2	118.86	418	285.25	17.9	356.57	20.1
HLCW-180-2	142.17	500	341.21	6.7	426.52	9
HLCW-200-2	156.96	552	376.70	7.8	470.88	10.1
HLCW-220-2 (2*336)	179.14	630	429.93	10	537.41	12.2
HLCW-220-2 (2*315)	170.61	600	409.46	7.8	511.82	9.9
HLCW-250-2	194.49	684	466.78	9.4	583.48	11.8
HLCW-280-2	226.91	798	544.58	13.1	680.72	15.5
HLCW-320-2	254.20	894	610.09	16.1	762.61	18.5

CONDENSER ENTERING/LEAVING WATER TEMP.=27/32°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,4°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-50-1	34.97	123	83.94	9.2	104.92	10.4
HLCW-60-1	43.87	154.3	105.30	12.2	131.62	13.4
HLCW-70-1	51.44	180.9	123.45	16.7	154.31	17.9
HLCW-80-1	60.00	211	143.99	7.2	179.99	8.4
HLCW-90-1	71.65	252	171.97	9.2	214.96	10.4
HLCW-100-1	79.05	278	189.71	10.7	237.14	11.9
HLCW-110-1 (336)	90.14	317	216.33	12.9	270.41	14.1
HLCW-110-1 (315)	85.87	302	206.09	12	257.62	13.2
HLCW-125-1	97.81	344	234.76	6.7	293.44	7.9
HLCW-140-1	114.31	402	274.34	7.8	342.92	9.6
HLCW-160-1	127.96	450	307.09	9.5	383.87	11.8
HLCW-100-2	69.95	246	167.88	10	209.85	12.3
HLCW-120-2	87.75	308.6	210.60	12.2	263.25	14.4
HLCW-140-2	102.88	361.8	246.90	15.4	308.63	17.6
HLCW-160-2	119.99	422	287.98	18	359.98	20.4
HLCW-180-2	143.31	504	343.94	6.8	429.93	9.3
HLCW-200-2	158.10	556	379.43	7.9	474.29	10.4
HLCW-220-2 (2*336)	180.27	634	432.66	10.2	540.82	12.5
HLCW-220-2 (2*315)	171.74	604	412.19	8	515.23	10.2
HLCW-250-2	195.63	688	469.51	9.6	586.89	12.1
HLCW-280-2	228.61	804	548.67	13.3	685.84	15.8
HLCW-320-2	255.91	900	614.19	16.3	767.73	18.8

CONDENSER ENTERING/LEAVING WATER TEMP.=30/35°C						
TABLE-1-LEAVING CHILLED WATER TEMP.= 5,5°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-50-1	31.68	111.4	76.02	8.4	95.03	9.7
HLCW-60-1	39.58	139.2	94.99	11.4	118.74	12.7
HLCW-70-1	46.41	163.2	111.37	15.9	139.22	17.2
HLCW-80-1	53.97	189.8	129.52	6.4	161.91	7.7
HLCW-90-1	64.83	228	155.59	8.4	194.49	9.7
HLCW-100-1	71.37	251	171.29	9.9	214.11	11.2
HLCW-110-1 (336)	81.32	286	195.17	12.1	243.97	13.4
HLCW-110-1 (315)	77.06	271	184.94	11.2	231.17	12.5
HLCW-125-1	87.86	309	210.87	5.9	263.59	7.2
HLCW-140-1	104.07	366	249.77	6.9	312.21	8.9
HLCW-160-1	116.30	409	279.11	8.6	348.89	11
HLCW-100-2	63.07	221.8	151.36	9.1	189.20	11.5
HLCW-120-2	79.16	278.4	189.99	11.3	237.48	13.6
HLCW-140-2	92.81	326.4	222.74	14.4	278.43	16.8
HLCW-160-2	107.94	379.6	259.05	17	323.81	19.4
HLCW-180-2	129.66	456	311.19	5.8	388.98	8.2
HLCW-200-2	142.74	502	342.58	6.9	428.22	9.3
HLCW-220-2 (2*336)	162.65	572	390.35	9	487.94	11.4
HLCW-220-2 (2*315)	154.11	542	369.88	6.8	462.34	9
HLCW-250-2	175.73	618	421.74	8.4	527.18	10.9
HLCW-280-2	208.14	732	499.54	12.1	624.42	14.6
HLCW-320-2	232.59	818	558.23	15.1	697.78	17.6

CONDENSER ENTERING/LEAVING WATER TEMP.=30/35°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=6,6°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-50-1	32.81	115.4	78.75	8.5	98.44	10
HLCW-60-1	41.17	144.8	98.82	11.5	123.52	13
HLCW-70-1	48.28	169.8	115.88	16	144.85	17.5
HLCW-80-1	56.13	197.4	134.71	6.5	168.39	8
HLCW-90-1	67.39	237	161.74	8.5	202.17	10
HLCW-100-1	74.21	261	178.11	10	222.64	11.5
HLCW-110-1 (336)	84.45	297	202.68	12.2	253.35	13.7
HLCW-110-1 (315)	79.90	281	191.76	11.3	239.70	12.8
HLCW-125-1	91.56	322	219.74	6	274.68	7.5
HLCW-140-1	108.05	380	259.32	7	324.15	9.2
HLCW-160-1	120.85	425	290.03	8.7	362.54	11.3
HLCW-100-2	65.63	230.8	157.50	9.2	196.88	11.8
HLCW-120-2	82.35	289.6	197.63	11.4	247.04	13.9
HLCW-140-2	96.56	339.6	231.75	14.5	289.69	17.1
HLCW-160-2	112.26	394.8	269.42	17.2	336.78	19.7
HLCW-180-2	134.78	474	323.47	6	404.34	8.5
HLCW-200-2	148.43	522	356.23	7.1	445.28	9.6
HLCW-220-2 (2*336)	168.90	594	405.36	9.2	506.70	11.7
HLCW-220-2 (2*315)	159.80	562	383.52	7.1	479.41	9.4
HLCW-250-2	183.12	644	439.48	8.7	549.35	11.3
HLCW-280-2	216.10	760	518.65	12.4	648.31	15
HLCW-320-2	241.69	850	580.06	15.4	725.08	18

CONDENSER ENTERING/LEAVING WATER TEMP.=30/35°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,2°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-50-1	33.55	118	80.53	8.7	100.66	10.2
HLCW-60-1	42.08	148	101.00	11.7	126.25	13.2
HLCW-70-1	49.33	173.5	118.40	16.2	148.00	17.7
HLCW-80-1	57.44	202	137.85	6.7	172.31	8.2
HLCW-90-1	68.81	242	165.15	8.7	206.43	10.2
HLCW-100-1	75.64	266	181.53	10.2	226.91	11.7
HLCW-110-1 (336)	86.44	304	207.46	12.4	259.32	13.9
HLCW-110-1 (315)	82.18	289	197.22	11.5	246.53	13
HLCW-125-1	93.55	329	224.52	6.2	280.65	7.7
HLCW-140-1	110.33	388	264.78	7.2	330.98	9.4
HLCW-160-1	123.41	434	296.17	8.9	370.22	11.5
HLCW-100-2	67.11	236	161.05	9.4	201.32	12
HLCW-120-2	84.17	296	202.00	11.6	252.50	14.1
HLCW-140-2	98.67	347	236.80	14.7	296.00	17.3
HLCW-160-2	114.88	404	275.70	17.4	344.63	19.9
HLCW-180-2	137.62	484	330.30	6.2	412.87	8.7
HLCW-200-2	151.27	532	363.05	7.4	453.81	10
HLCW-220-2 (2*336)	172.88	608	414.92	9.5	518.65	12.1
HLCW-220-2 (2*315)	164.35	578	394.44	7.4	493.05	9.8
HLCW-250-2	187.10	658	449.04	9	561.30	11.7
HLCW-280-2	220.65	776	529.56	12.7	661.96	15.4
HLCW-320-2	246.81	868	592.35	15.7	740.43	18.4

CONDENSER ENTERING/LEAVING WATER TEMP.=30/35°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,4°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-50-1	33.78	118.8	81.07	8.8	101.34	10.3
HLCW-60-1	42.40	149.1	101.75	11.8	127.19	13.3
HLCW-70-1	49.68	174.7	119.22	16.3	149.03	17.8
HLCW-80-1	57.72	203	138.53	6.8	173.17	8.3
HLCW-90-1	69.10	243	165.83	8.8	207.29	10.3
HLCW-100-1	76.20	268	182.89	10.3	228.61	11.8
HLCW-110-1 (336)	87.01	306	208.82	12.5	261.03	14
HLCW-110-1 (315)	82.74	291	198.59	11.6	248.23	13.1
HLCW-125-1	94.40	332	226.57	6.3	283.21	7.8
HLCW-140-1	110.89	390	266.15	7.3	332.68	9.5
HLCW-160-1	124.26	437	298.22	9	372.78	11.6
HLCW-100-2	67.56	237.6	162.14	9.6	202.68	12.2
HLCW-120-2	84.79	298.2	203.50	11.8	254.38	14.3
HLCW-140-2	99.35	349.4	238.44	14.9	298.05	17.5
HLCW-160-2	115.44	406	277.07	17.6	346.33	20.1
HLCW-180-2	138.19	486	331.66	6.4	414.58	8.9
HLCW-200-2	152.41	536	365.78	7.6	457.23	10.2
HLCW-220-2 (2*336)	174.02	612	417.65	9.7	522.06	12.3
HLCW-220-2 (2*315)	165.49	582	397.17	394.643	496.47	10
HLCW-250-2	188.81	664	453.13	449.238	566.42	11.9
HLCW-280-2	221.79	780	532.29	529.764	665.37	15.6
HLCW-320-2	248.52	874	596.44	592.548	745.55	18.6

CONDENSER ENTERING/LEAVING WATER TEMP.=33/38°C						
TABLE-1-LEAVING CHILLED WATER TEMP.= 5,5°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-50-1	31.53	110.9	75.68	8.2	94.60	9.6
HLCW-60-1	38.19	134.3	91.65	11.2	114.56	12.6
HLCW-70-1	44.64	157	107.14	15.7	133.93	17.1
HLCW-80-1	51.81	182.2	124.34	6.2	155.42	7.6
HLCW-90-1	62.56	220	150.13	8.2	187.67	9.6
HLCW-100-1	68.81	242	165.15	9.7	206.43	11.1
HLCW-110-1 (336)	78.19	275	187.67	11.9	234.58	13.3
HLCW-110-1 (315)	74.21	261	178.11	11	222.64	12.4
HLCW-125-1	84.45	297	202.68	5.7	253.35	7.1
HLCW-140-1	100.66	354	241.58	6.7	301.97	8.8
HLCW-160-1	112.32	395	269.56	8.4	336.95	10.9
HLCW-100-2	63.35	222.8	152.04	8.9	190.06	11.4
HLCW-120-2	76.38	268.6	183.30	11.1	229.13	13.5
HLCW-140-2	89.28	314	214.28	14.2	267.85	16.6
HLCW-160-2	103.62	364.4	248.68	16.8	310.85	19.2
HLCW-180-2	125.11	440	300.27	5.6	375.34	8
HLCW-200-2	137.62	484	330.30	6.6	412.87	9.1
HLCW-220-2 (2*336)	156.39	550	375.34	8.7	469.17	11.2
HLCW-220-2 (2*315)	148.43	522	356.23	6.5	445.28	8.7
HLCW-250-2	168.90	594	405.36	8.1	506.70	10.6
HLCW-280-2	201.32	708	483.16	11.8	603.95	14.3
HLCW-320-2	224.63	790	539.12	14.8	673.90	17.3

CONDENSER ENTERING/LEAVING WATER TEMP.=33/38°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=6,6°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-50-1	31.68	111.4	76.02	8.4	95.03	9.7
HLCW-60-1	39.75	139.8	95.40	11.4	119.25	12.7
HLCW-70-1	46.46	163.4	111.51	15.9	139.39	17.2
HLCW-80-1	53.91	189.6	129.39	6.4	161.74	7.7
HLCW-90-1	64.83	228	155.59	8.4	194.49	9.7
HLCW-100-1	71.37	251	171.29	9.9	214.11	11.2
HLCW-110-1 (336)	81.32	286	195.17	12.1	243.97	13.4
HLCW-110-1 (315)	77.34	272	185.62	11.2	232.03	12.5
HLCW-125-1	87.86	309	210.87	5.9	263.59	7.2
HLCW-140-1	104.64	368	251.13	6.9	313.92	8.9
HLCW-160-1	116.87	411	280.48	8.6	350.60	11
HLCW-100-2	63.35	222.8	152.04	9.1	190.06	11.5
HLCW-120-2	79.50	279.6	190.81	11.4	238.51	13.6
HLCW-140-2	92.92	326.8	223.02	14.5	278.77	16.7
HLCW-160-2	107.82	379.2	258.78	17.1	323.47	19.3
HLCW-180-2	129.66	456	311.19	5.9	388.98	8.2
HLCW-200-2	142.74	502	342.58	7	428.22	9.3
HLCW-220-2 (2*336)	162.65	572	390.35	9.1	487.94	11.4
HLCW-220-2 (2*315)	154.68	544	371.24	6.9	464.05	8.9
HLCW-250-2	175.73	618	421.74	8.5	527.18	10.9
HLCW-280-2	209.28	736	502.27	12.2	627.83	14.6
HLCW-320-2	233.73	822	560.96	15.2	701.19	17.6

CONDENSER ENTERING/LEAVING WATER TEMP.=33/38°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,2°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-50-1	32.39	113.9	77.73	8.5	97.16	9.9
HLCW-60-1	40.63	142.9	97.52	11.5	121.90	12.9
HLCW-70-1	47.49	167	113.97	16	142.46	17.4
HLCW-80-1	55.08	193.7	132.19	6.5	165.23	7.9
HLCW-90-1	66.25	233	159.01	8.5	198.76	9.9
HLCW-100-1	73.08	257	175.38	10	219.23	11.4
HLCW-110-1 (336)	83.31	293	199.95	12.2	249.94	13.6
HLCW-110-1 (315)	79.05	278	189.71	11.3	237.14	12.7
HLCW-125-1	89.85	316	215.65	6	269.56	7.4
HLCW-140-1	106.63	375	255.91	7	319.89	9.1
HLCW-160-1	119.14	419	285.94	8.7	357.42	11.2
HLCW-100-2	64.77	227.8	155.46	9.2	194.32	11.7
HLCW-120-2	81.27	285.8	195.04	11.5	243.80	13.8
HLCW-140-2	94.97	334	227.93	14.7	284.91	16.9
HLCW-160-2	110.16	387.4	264.37	17.3	330.47	19.5
HLCW-180-2	132.50	466	318.01	6.1	397.51	9.7
HLCW-200-2	146.15	514	350.77	7.2	438.46	11.8
HLCW-220-2 (2*336)	166.63	586	399.90	9.3	499.88	11.7
HLCW-220-2 (2*315)	158.10	556	379.43	7.2	474.29	9.2
HLCW-250-2	179.71	632	431.29	8.8	539.12	11.2
HLCW-280-2	213.26	750	511.82	12.5	639.78	14.9
HLCW-320-2	238.28	838	571.87	15.5	714.84	17.9

CONDENSER ENTERING/LEAVING WATER TEMP.=33/38°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,4°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-50-1	32.61	114.7	78.27	8.6	97.84	10
HLCW-60-1	40.95	144	98.27	11.6	122.84	13
HLCW-70-1	47.83	168.2	114.78	16.1	143.48	17.5
HLCW-80-1	55.48	195.1	133.14	6.6	166.43	8
HLCW-90-1	66.82	235	160.37	8.6	200.46	10
HLCW-100-1	73.65	259	176.75	10.1	220.94	11.5
HLCW-110-1 (336)	83.88	295	201.32	12.3	251.65	13.7
HLCW-110-1 (315)	79.62	280	191.08	11.4	238.85	12.8
HLCW-125-1	90.71	319	217.69	6.1	272.12	7.5
HLCW-140-1	107.48	378	257.96	7.2	322.45	9.2
HLCW-160-1	119.99	422	287.98	8.9	359.98	11.3
HLCW-100-2	65.23	229.4	156.55	9.4	195.69	11.8
HLCW-120-2	81.89	288	196.54	11.7	245.67	13.9
HLCW-140-2	95.65	336.4	229.57	14.9	286.96	17.1
HLCW-160-2	110.95	390.2	266.28	17.5	332.85	19.7
HLCW-180-2	133.64	470	320.74	6.3	400.93	9.9
HLCW-200-2	147.29	518	353.50	7.4	441.87	12
HLCW-220-2 (2*336)	167.76	590	402.63	9.5	503.29	11.9
HLCW-220-2 (2*315)	159.23	560	382.16	7.4	477.70	9.4
HLCW-250-2	181.41	638	435.39	9	544.24	11.4
HLCW-280-2	214.96	756	515.92	12.7	644.89	15.1
HLCW-320-2	239.99	844	575.97	15.7	719.96	18.1

CONDENSER ENTERING/LEAVING WATER TEMP.=°41/36C

TABLE-1-LEAVING CHILLED WATER TEMP.= °5,5C

MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-50-1	29.32	103.1	70.36	7.9	87.95	9.2
HLCW-60-1	36.79	129.4	88.31	10.9	110.38	12.2
HLCW-70-1	42.77	150.4	102.64	15.4	128.30	16.7
HLCW-80-1	49.53	174.2	118.88	5.9	148.60	7.2
HLCW-90-1	60.00	211	143.99	7.9	179.99	9.2
HLCW-100-1	65.97	232	158.32	9.4	197.90	10.7
HLCW-110-1 (336)	75.07	264	180.16	11.6	225.20	12.9
HLCW-110-1 (315)	71.09	250	170.61	10.7	213.26	12
HLCW-125-1	81.04	285	194.49	5.4	243.11	6.7
HLCW-140-1	96.96	341	232.71	6.4	290.88	8.4
HLCW-160-1	108.05	380	259.32	8.1	324.15	10.5
HLCW-100-2	58.63	206.2	140.72	8.6	175.90	11
HLCW-120-2	73.59	258.8	176.61	10.8	220.77	13.1
HLCW-140-2	85.53	300.8	205.27	13.9	256.59	16.2
HLCW-160-2	99.07	348.4	237.76	16.5	297.20	18.8
HLCW-180-2	119.99	422	287.98	5.3	359.98	7.6
HLCW-200-2	131.94	464	316.65	6.3	395.81	8.7
HLCW-220-2 (336*2)	150.13	528	360.32	8.4	450.40	10.8
HLCW-220-2 (315*2)	142.17	500	341.21	6.1	426.52	8.2
HLCW-250-2	162.08	570	388.98	7.7	486.23	10.1
HLCW-280-2	193.92	682	465.42	11.4	581.77	13.8
HLCW-320-2	216.10	760	518.65	14.4	648.31	16.8

CONDENSER ENTERING/LEAVING WATER TEMP.=°41/36C						
TABLE-1-LEAVING CHILLED WATER TEMP.=°6,6C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-50-1	30.54	107.4	73.29	8.3	91.62	9.5
HLCW-60-1	38.33	134.8	91.99	11.3	114.99	12.5
HLCW-70-1	44.56	156.7	106.94	15.8	133.67	17
HLCW-80-1	51.58	181.4	123.79	6.3	154.74	7.5
HLCW-90-1	62.56	220	150.13	8.3	187.67	9.5
HLCW-100-1	68.81	242	165.15	9.8	206.43	11
HLCW-110-1 (336)	78.19	275	187.67	12	234.58	13.2
HLCW-110-1 (315)	73.93	260	177.43	11.1	221.79	12.3
HLCW-125-1	84.17	296	202.00	5.8	252.50	7
HLCW-140-1	100.66	354	241.58	6.8	301.97	8.7
HLCW-160-1	112.60	396	270.24	8.5	337.80	10.8
HLCW-100-2	61.08	214.8	146.59	9	183.23	11.3
HLCW-120-2	76.66	269.6	183.98	11.2	229.98	13.4
HLCW-140-2	89.11	313.4	213.87	14.3	267.34	16.5
HLCW-160-2	103.16	362.8	247.58	16.9	309.48	19.1
HLCW-180-2	125.11	440	300.27	5.7	375.34	7.9
HLCW-200-2	137.62	484	330.30	6.7	412.87	9
HLCW-220-2 (336*2)	156.39	550	375.34	8.8	469.17	11.1
HLCW-220-2 (315*2)	147.86	520	354.86	6.3	443.58	8.6
HLCW-250-2	168.33	592	404.00	7.9	505.00	10.5
HLCW-280-2	201.32	708	483.16	11.6	603.95	14.2
HLCW-320-2	225.20	792	540.48	14.6	675.60	17.2

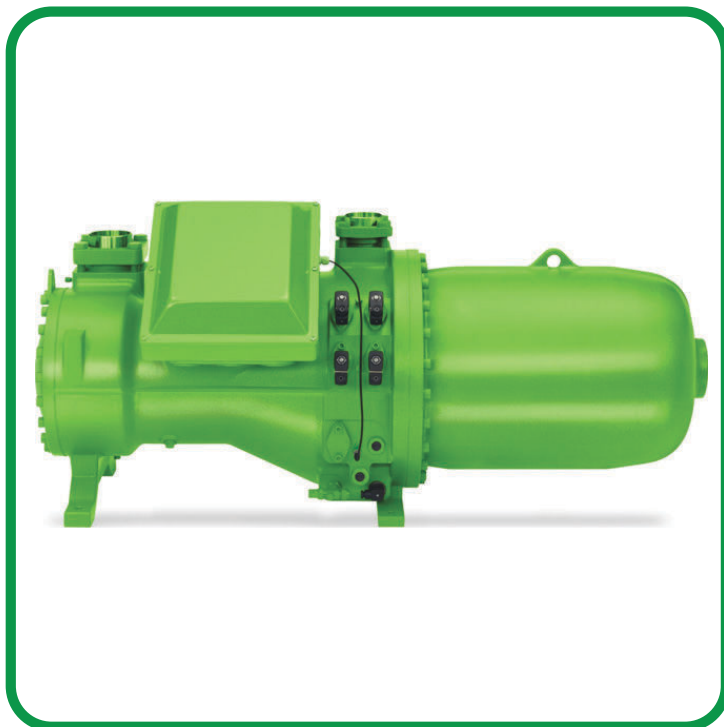
CONDENSER ENTERING/LEAVING WATER TEMP.=°41/36C

TABLE-1-LEAVING CHILLED WATER TEMP.=°7,2C

MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-50-1	31.22	109.8	74.93	8.4	93.66	9.7
HLCW-60-1	39.21	137.9	94.11	11.4	117.63	12.7
HLCW-70-1	45.55	160.2	109.32	15.9	136.66	17.2
HLCW-80-1	52.72	185.4	126.52	6.4	158.15	7.7
HLCW-90-1	63.69	224	152.86	8.4	191.08	9.7
HLCW-100-1	70.23	247	168.56	9.9	210.70	11.2
HLCW-110-1 (336)	79.90	281	191.76	12.1	239.70	13.4
HLCW-110-1 (315)	75.64	266	181.53	11.2	226.91	12.5
HLCW-125-1	86.16	303	206.78	5.9	258.47	7.2
HLCW-140-1	102.93	362	247.04	6.9	308.80	8.9
HLCW-160-1	114.88	404	275.70	8.6	344.63	11
HLCW-100-2	62.44	219.6	149.86	9.2	187.33	11.5
HLCW-120-2	78.42	275.8	188.21	11.4	235.27	13.6
HLCW-140-2	91.10	320.4	218.65	14.5	273.31	16.7
HLCW-160-2	105.44	370.8	253.04	17.1	316.31	19.3
HLCW-180-2	127.39	448	305.73	5.9	382.16	8.1
HLCW-200-2	140.47	494	337.12	6.9	421.40	9.3
HLCW-220-2 (336*2)	159.80	562	383.52	9.1	479.41	11.4
HLCW-220-2 (315*2)	151.27	532	363.05	6.6	453.81	8.9
HLCW-250-2	172.31	606	413.55	8.2	516.94	10.8
HLCW-280-2	205.87	724	494.08	11.9	617.60	14.5
HLCW-320-2	229.75	808	551.40	14.9	689.25	17.5

CONDENSER ENTERING/LEAVING WATER TEMP.=36/41°C						
TABLE-1-LEAVING CHILLED WATER TEMP.= 7,4°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-50-1	31.48	110.7	75.54	8.5	94.43	9.8
HLCW-60-1	39.50	138.9	94.79	11.5	118.49	12.8
HLCW-70-1	45.89	161.4	110.14	16	137.68	17.3
HLCW-80-1	53.09	186.7	127.41	6.5	159.26	7.8
HLCW-90-1	64.26	226	154.23	8.5	192.79	9.8
HLCW-100-1	70.80	249	169.92	10	212.41	11.3
HLCW-110-1 (336)	80.47	283	193.13	12.2	241.41	13.5
HLCW-110-1 (315)	76.20	268	182.89	11.3	228.61	12.6
HLCW-125-1	86.73	305	208.14	6	260.18	7.3
HLCW-140-1	103.50	364	248.40	7	310.50	9
HLCW-160-1	115.73	407	277.75	8.7	347.19	11.1
HLCW-100-2	62.95	221.4	151.09	9.3	188.86	11.6
HLCW-120-2	78.99	277.8	189.58	11.5	236.97	13.7
HLCW-140-2	91.79	322.8	220.29	14.7	275.36	16.9
HLCW-160-2	106.17	373.4	254.82	17.3	318.52	19.5
HLCW-180-2	128.52	452	308.46	6.1	385.57	8.3
HLCW-200-2	141.60	498	339.85	7.1	424.81	9.5
HLCW-220-2 (2*336)	160.94	566	386.25	9.3	482.82	11.6
HLCW-220-2 (2*315)	152.41	536	365.78	6.8	457.23	9.2
HLCW-250-2	173.45	610	416.28	8.5	520.35	11.1
HLCW-280-2	207.00	728	496.81	12.2	621.01	14.8
HLCW-320-2	231.46	814	555.50	15.2	694.37	17.8

ELECTRICAL DATA (R-22)				
chiller MODEL	Nominal Comp. power (HP)	MRA (Amp)	LRA (Amp) (D/DD)	MAX CONSE POWER (kw)
HLCW-50-1	50	58.1	218/411	52
HLCW-60-1	60	71.4	269/508	65
HLCW-70-1	70	84.6	290/485	78
HLCW-80-1	80	95.2	350/585	88
HLCW-90-1	90	106.4	423/686	96
HLCW-100-1	100	121.3	479/790	102
HLCW-110-1 (336)	110	138.7	516/887	112
HLCW-110-1 (315)	110	130.8	520/801	112
HLCW-125-1	125	150	612/943	132
HLCW-140-1	140	180.5	665/1023	150
HLCW-160-1	160	191.5	729/1114	160
HLCW-100-2	2*50	116.2	2*(218/411)	104
HLCW-120-2	2*60	142.8	2*(269/508)	130
HLCW-140-2	2*70	169.2	2*(290/485)	156
HLCW-160-2	2*80	190.4	2*(350/585)	176
HLCW-180-2	2*90	212.8	2*(423/686)	192
HLCW-200-2	2*100	242.6	2*(479/790)	204
HLCW-220-2 (2*336)	2*110	277.4	2*(516/887)	224
HLCW-220-2 (2*315)	2*110	261.6	2*(520/801)	224
HLCW-250-2	2*125	300	2*(612/943)	264
HLCW-280-2	2*140	361	2*(665/1023)	300
HLCW-320-2	2*160	383	2*(729/1114)	320



Engineering Specifications-50 Hz (R-134a)-bitzer

Model	HLCW	HLCW-35-1	HLCW-40-1	HLCW-50-1 (137)	HLCW-50-1 (195)	HLCW-50-1 (197)	HLCW-60-1 (170)	HLCW-60-1 (220)	HLCW-60-1 (227)
cooling capacity	TR	24.51	30.45	24.25	35.32	34.86	30.42	39.84	40.95
	kW	86.2	107.1	85.3	124.2	122.6	107	140.1	144
Compressor	Compact Screw Compressor CSH Series								
QTY		1	1	1	1	1	1	1	1
Oil Charge	USGal	2.51	2.51	2.51	2.51	3.96	2.51	2.51	3.96
	Litre	9.5	9.5	9.5	9.5	15	9.5	9.5	15
Condenser	Condenser shell & tube								
QTY		1							
Ref. Circuits		1	1	1	1	1	1	1	1
Water Volume	GPM	73.53	91.36	72.76	105.95	104.58	91.27	119.51	122.84
	Litre/s	4.64	5.76	4.59	6.68	6.60	5.76	7.54	7.75
Evaporator	Direct Expansion shell & tube								
QTY		1							
Ref. Circuits		1	1	1	1	1	1	1	1
Water Volume	GPM	58.83	73.09	58.21	84.76	83.67	73.02	95.61	98.27
	Litre/s	3.71	4.61	3.67	5.35	5.28	4.61	6.03	6.20
Refrigerant Charge (R134a)(Approx)	Lb	77.1	88.2	110.2	110.2	110.2	132.2	132.2	132.2
	Kg	35	40	50	50	50	60	60	60
Operating Weight (Approx)	Lb	2535	2535	2755	2865	3196	2865	2975	3306
	Kg	1150	1150	1250	1300	1450	1300	1350	1500

Model	HLCW	HLCW-70-1 (197)	HLCW-70-1 (258)	HLCW-80-1 (227)	HLCW-80-1 (295)	HLCW-80-1 (315)	HLCW-90-1 (258)	HLCW-90-1 (336)	HLCW-90-1 (359)
cooling capacity	TR	35.20	47.17	41.06	53.85	56.64	46.80	61.42	65.12
	kW	123.8	165.9	144.4	189.4	199.2	164.6	216	229
Compressor	Compact Screw Compressor CSH Series								
QTY		1	1	1	1	1	1	1	1
Oil Charge	USGal	3.96	3.96	3.96	3.96	5.81	3.96	3.96	5.81
	Litre	15	15	15	15	22	15	15	22
Condenser	Condenser shell & tube								
QTY		1							
Ref. Circuits		1	1	1	1	1	1	1	1
Water Volume	GPM	105.61	141.52	123.18	161.56	169.92	140.41	184.26	195.35
	Litre/s	6.66	8.93	7.77	10.19	10.72	8.86	11.62	12.32
Evaporator	Direct Expansion shell & tube								
QTY		1							
Ref. Circuits		1	1	1	1	1	1	1	1
Water Volume	GPM	84.48	113.21	98.54	129.25	135.94	112.33	147.40	156.28
	Litre/s	5.33	7.14	6.22	8.16	8.58	7.09	9.30	9.86
Refrigerant Charge (R134a)(Approx)	Lb	154.3	154.3	176.3	176.3	176.3	198.4	198.4	198.4
	Kg	70	70	80	80	80	90	90	90
Operating Weight (Approx)	Lb	4408	4518	4628	4628	5400	4849	4849	5510
	Kg	2000	2050	2100	2100	2450	2200	2200	2500

Model	HLCW	HLCW-100-1 (295)	HLCW-110-1 (336)	HLCW-110-1 (315)	HLCW-110-1 (410)	HLCW-125-1 (359)	HLCW-125-1 (470)	HLCW-140-1 (410)	HLCW-140-1 (535)
cooling capacity	TR	54.08	61.70	58.29	77.06	66.54	85.30	76.77	96.96
	kW	190.20	217.00	205.00	271.00	234.00	300.00	270.00	341.00
Compressor	Compact Screw Compressor CSH Series								
QTY		1	1	1	1	1	1	1	1
Oil Charge	USGal	3.96	3.96	5.81	5.81	5.81	5.02	5.81	5.02
	Litre	15	15	22	22	22	19	22	19
Condenser	Condenser shell & tube								
QTY		1							
Ref. Circuits		1	1	1	1	1	1	1	1
Water Volume	GPM	162.25	185.11	174.87	231.17	199.61	255.91	230.32	290.88
	Litre/s	10.24	11.68	11.03	14.58	12.59	16.15	14.53	18.35
Evaporator	Direct Expansion shell & tube								
QTY		1							
Ref. Circuits		1	1	1	1	1	1	1	1
Water Volume	GPM	129.80	148.09	139.90	184.94	159.69	204.73	184.26	232.71
	Litre/s	8.19	9.34	8.83	11.67	10.07	12.92	11.62	14.68
Refrigerant Charge (R134a)(Approx)	Lb	220.4	242.4	242.4	242.4	275.5	275.5	308.6	308.6
	Kg	100	110	110	110	125	125	140	140
Operating Weight (Approx)	Lb	5069	5510	6171	6171	6502	6502	7824	7824
	Kg	2300	2500	2800	2800	2950	2950	3550	3550

Model	HLCW	HLCW-160-1 (470)	HLCW-160-1 (615)	HLCW-210-1 (615)
cooling capacity	TR	83.31	115.16	113.74
	kW	293.00	405.00	400.00
Compressor	Compact Screw Compressor CSH Series			
QTY		1	1	1
Oil Charge	USGal	5.02	7.93	7.93
	Litre	19	30	30
Condenser	Condenser shell & tube			
QTY		1		
Ref. Circuits		1	1	1
Water Volume	GPM	249.94	345.48	341.21
	Litre/s	15.77	21.80	21.53
Evaporator	Direct Expansion shell & tube			
QTY		1		
Ref. Circuits		1	1	1
Water Volume	GPM	199.95	276.38	272.97
	Litre/s	12.61	17.44	17.22
Refrigerant Charge (R134a)(Approx)	Lb	352.6	352.6	462.8
	Kg	160	160	210
Operating Weight (Approx)	Lb	8155	9147	9698
	Kg	3700	4150	4400

Model	HLCW	HLCW-70-2	HLCW-40-80-2	HLCW-100-2 (2*137)	HLCW-100-2 (2*195)	HLCW-100-2 (2*197)	HLCW-120-2 (2*170)	HLCW-120-2 (2*220)	HLCW-120-2 (2*227)
cooling capacity	TR	49.02	60.91	48.51	70.63	69.72	60.85	79.67	81.89
	kW	172.40	214.20	170.60	248.40	245.20	214.00	280.20	288.00
Compressor	Compact Screw Compressor CSH Series								
QTY		2	2	2	2	2	2	2	2
Oil Charge	USGal	5.02	5.02	5.02	5.02	7.93	5.02	5.02	7.93
	Litre	19	19	19	19	30	19	19	30
Condenser	Condenser shell & tube								
QTY		1							
Ref. Circuits		2	2	2	2	2	2	2	2
Water Volume	GPM	147.06	182.72	145.53	211.89	209.16	182.55	239.02	245.67
	Litre/s	9.28	11.53	9.18	13.37	13.20	11.52	15.08	15.50
Evaporator	Direct Expansion shell & tube								
QTY		1							
Ref. Circuits		2	2	2	2	2	2	2	2
Water Volume	GPM	117.65	146.18	116.42	169.52	167.33	146.04	191.22	196.54
	Litre/s	7.42	9.22	7.35	10.69	10.56	9.21	12.06	12.40
Refrigerant Charge (R134a)(Approx)	Lb	154.3	176.3	220.4	220.4	220.4	264.5	264.5	264.5
	Kg	70	80	100	100	100	120	120	120
Operating Weight (Approx)	Lb	4959	5069	5400	5510	6281	5620	5841	6612
	Kg	2250	2300	2450	2500	2850	2550	2650	3000

Model	HLCW	HLCW-140-2 (2*197)	HLCW-140-2 (2*258)	HLCW-160-2 (2*227)	HLCW-160-2 (2*295)	HLCW-160-2 (2*315)	HLCW-180-2 (2*258)	HLCW-180-2 (2*336)	HLCW-180-2 (2*359)
cooling capacity	TR	70.40	94.35	82.12	107.71	113.28	93.61	122.84	130.23
	kW	247.60	331.80	288.80	378.80	398.40	329.20	432.00	458.00
Compressor	Compact Screw Compressor CSH Series								
QTY		2	2	2	2	2	2	2	2
Oil Charge	USGal	7.93	7.93	7.93	7.93	11.62	7.93	7.93	11.62
	Litre	30	30	30	30	44	30	30	44
Condenser	Condenser shell & tube								
QTY		1							
Ref. Circuits		2	2	2	2	2	2	2	2
Water Volume	GPM	211.21	283.04	246.36	323.13	339.85	280.82	368.51	390.69
	Litre/s	13.33	17.86	15.54	20.39	21.44	17.72	23.25	24.65
Evaporator	Direct Expansion shell & tube								
QTY		1							
Ref. Circuits		2	2	2	2	2	2	2	2
Water Volume	GPM	168.97	226.43	197.09	258.50	271.88	224.66	294.81	312.55
	Litre/s	10.66	14.29	12.44	16.31	17.16	14.18	18.60	19.72
Refrigerant Charge (R134a)(Approx)	Lb	308.6	308.6	352.6	352.6	352.6	396.7	396.7	396.7
	Kg	140	140	160	160	160	180	180	180
Operating Weight (Approx)	Lb	7714	7714	7934	7934	9477	8155	8155	9587
	Kg	3500	3500	3600	3600	4300	3700	3700	4350

Model	HLCW	HLCW-200-2 (2*295)	HLCW-220-2 (2*336)	HLCW-220-2 (2*315)	HLCW-220-2 (2*410)	HLCW-250-2 (2*359)	HLCW-250-2 (2*470)	HLCW-280-2 (2*410)	HLCW-280-2 (2*535)
cooling capacity	TR	108.16	123.41	116.58	154.11	133.07	170.61	153.55	193.92
	kW	380.40	434.00	410.00	542.00	468.00	600.00	540.00	682.00
Compressor	Compact Screw Compressor CSH Series								
QTY		2	2	2	2	2	2	2	2
Oil Charge	USGal	7.93	7.93	11.62	11.62	11.62	10.04	11.62	10.04
	Litre	30	30	44	44	44	38	44	38
Condenser	Condenser shell & tube								
QTY		1							
Ref. Circuits		2	2	2	2	2	2	2	2
Water Volume	GPM	324.49	370.22	349.74	462.34	399.22	511.82	460.64	581.77
	Litre/s	20.47	23.36	22.07	29.17	25.19	32.29	29.06	36.70
Evaporator	Direct Expansion shell & tube								
QTY		1							
Ref. Circuits		2	2	2	2	2	2	2	2
Water Volume	GPM	259.60	296.17	279.80	369.88	319.38	409.46	368.51	465.42
	Litre/s	16.38	18.69	17.65	23.34	20.15	25.83	23.25	29.36
Refrigerant Charge (R134a)(Approx)	Lb	440.8	484.9	484.9	484.9	551.0	551.0	617.1	617.1
	Kg	200	220	220	220	250	250	280	280
Operating Weight (Approx)	Lb	8485	9698	11130	11351	11681	11681	12893	12893
	Kg	3850	4400	5050	5150	5300	5300	5850	5850

Model	HLCW	HLCW-160-1 (2*470)	HLCW-160-1 (2*615)	HLCW-210-1 (2*615)
cooling capacity	TR	166.63	230.32	227.48
	kW	586.00	810.00	800.00
Compressor	Compact Screw Compressor CSH Series			
QTY		2	2	2
Oil Charge	USGal	10.04	15.85	15.85
	Litre	38	60	60
Condenser	Condenser shell & tube			
QTY		1		
Ref. Circuits		2	2	2
Water Volume	GPM	499.88	690.96	682.43
	Litre/s	31.54	43.59	43.05
Evaporator	Direct Expansion shell & tube			
QTY		1		
Ref. Circuits		2	2	2
Water Volume	GPM	399.90	552.77	545.94
	Litre/s	25.23	34.87	34.44
Refrigerant Charge (R134a)(Approx)	Lb	705.3	705.3	925.7
	Kg	320	320	420
Operating Weight (Approx)	Lb	13334	15318	16199
	Kg	6050	6950	7350

CONDENSER ENTERING/LEAVING WATER TEMP.=25/30°C						
TABLE-1-LEAVING CHILLED WATER TEMP.= 5,5°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-35-1	22.86	80.4	54.87	6.2	68.58	6.6
HLCW-40-1	28.43	100	68.24	7.3	85.30	7.7
HLCW-50-1 (139)	22.66	79.7	54.39	6.1	67.99	6.5
HLCW-50-1 (195)	32.98	116	79.16	8.1	98.95	8.5
HLCW-50-1 (197)	32.44	114.1	77.87	7.9	97.33	8.3
HLCW-60-1 (170)	28.43	100	68.24	7.1	85.30	7.5
HLCW-60-1 (220)	37.22	130.9	89.33	8.5	111.66	8.9
HLCW-60-1 (227)	38.22	134.4	91.72	8.3	114.65	8.7
HLCW-70-1 (197)	32.76	115.2	78.62	8	98.27	8.4
HLCW-70-1 (258)	43.90	154.4	105.37	11.9	131.71	12.3
HLCW-80-1 (227)	38.22	134.4	91.72	6.7	114.65	7.1
HLCW-80-1 (295)	50.27	176.8	120.65	8.2	150.82	8.6
HLCW-80-1 (315)	52.86	185.9	126.86	8.5	158.58	8.9
HLCW-90-1 (258)	43.65	153.5	104.75	9.2	130.94	9.6
HLCW-90-1 (336)	57.15	201	137.17	11.7	171.46	12.1
HLCW-90-1 (359)	60.85	214	146.04	11.7	182.55	12.1
HLCW-100-1 (295)	50.44	177.4	121.06	10.7	151.33	11.1
HLCW-110-1 (336)	57.44	202	137.85	11.4	172.31	11.8
HLCW-110-1 (315)	54.59	192	131.03	11	163.78	11.4
HLCW-110-1 (410)	71.94	253	172.65	13.3	215.82	13.7
HLCW-125-1 (359)	62.27	219	149.45	8.3	186.81	8.7
HLCW-125-1 (470)	79.62	280	191.08	9.7	238.85	10.1
HLCW-140-1 (410)	71.94	253	172.65	9.4	215.82	9.8
HLCW-140-1 (535)	90.42	318	217.01	11.1	271.27	11.5
HLCW-160-1 (470)	77.91	274	186.99	10.3	233.73	10.7
HLCW-160-1 (615)	107.77	379	258.64	13.3	323.30	13.7

CONDENSER ENTERING/LEAVING WATER TEMP.=25/30°C						
TABLE-1-LEAVING CHILLED WATER TEMP.= 5,5°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-210-1 (615)	106.35	374	255.23	10.3	319.04	10.7
HLCW-70-2	45.72	160.8	109.73	12.3	137.17	12.7
HLCW-80-2	56.87	200	136.49	14.5	170.61	14.9
HLCW-100-2 (2*137)	45.32	159.4	108.78	12.1	135.97	12.5
HLCW-100-2 (2*195)	65.97	232	158.32	16.1	197.90	16.5
HLCW-100-2 (2*197)	64.89	228.2	155.73	15.7	194.66	16.1
HLCW-120-2 (2*170)	56.87	200	136.49	14.1	170.61	14.5
HLCW-120-2 (2*220)	74.44	261.8	178.66	16.9	223.32	17.3
HLCW-120-2 (2*227)	76.43	268.8	183.44	16.5	229.30	16.9
HLCW-140-2 (2*197)	65.51	230.4	157.23	15.9	196.54	16.3
HLCW-140-2 (2*258)	87.81	308.8	210.73	23.7	263.42	24.1
HLCW-160-2 (2*227)	76.43	268.8	183.44	13.3	229.30	13.7
HLCW-160-2 (2*295)	100.54	353.6	241.31	16.3	301.63	16.7
HLCW-160-2 (2*315)	105.72	371.8	253.73	16.9	317.16	17.3
HLCW-180-2 (2*258)	87.29	307	209.51	18.3	261.88	18.7
HLCW-180-2 (2*336)	114.31	402	274.34	23.3	342.92	23.7
HLCW-180-2 (2*359)	121.70	428	292.08	23.3	365.10	23.7
HLCW-200-2 (2*295)	100.89	354.8	242.13	21.3	302.66	21.7
HLCW-220-2 (2*336)	114.88	404	275.70	22.5	344.63	22.9
HLCW-220-2 (2*315)	109.19	384	262.05	21.7	327.57	22.1
HLCW-220-2 (2*410)	143.88	506	345.31	26.3	431.64	26.7
HLCW-250-2 (2*359)	124.54	438	298.90	16.3	373.63	16.7
HLCW-250-2 (2*470)	159.23	560	382.16	19.1	477.70	19.5
HLCW-280-2 (2*410)	143.88	506	345.31	18.5	431.64	18.9
HLCW-280-2 (2*535)	180.84	636	434.02	21.9	542.53	22.3
HLCW-320-2 (2*470)	155.82	548	373.97	20.3	467.46	20.7
HLCW-320-2 (2*615)	215.53	758	517.28	26.3	646.60	26.7
HLCW-420-2 (2*615)	212.69	748	510.46	20.3	638.07	20.7

CONDENSER ENTERING/LEAVING WATER TEMP.=25/30°C						
TABLE-1 -LEAVING CHILLED WATER TEMP.=6,6°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-35-1	23.91	84.1	57.39	6.4	71.74	6.8
HLCW-40-1	29.71	104.5	71.31	7.5	89.14	7.9
HLCW-50-1 (139)	23.69	83.3	56.85	6.3	71.06	6.7
HLCW-50-1 (195)	34.49	121.3	82.78	8.3	103.47	8.7
HLCW-50-1 (197)	34.01	119.6	81.62	8.1	102.02	8.5
HLCW-60-1 (170)	29.71	104.5	71.31	7.3	89.14	7.7
HLCW-60-1 (220)	38.90	136.8	93.36	8.7	116.70	9.1
HLCW-60-1 (227)	39.81	140	95.54	8.5	119.42	8.9
HLCW-70-1 (197)	34.32	120.7	82.37	8.2	102.96	8.6
HLCW-70-1 (258)	46.01	161.8	110.42	12.1	138.02	12.5
HLCW-80-1 (227)	40.04	140.8	96.09	6.9	120.11	7.3
HLCW-80-1 (295)	52.55	184.8	126.11	8.4	157.64	8.8
HLCW-80-1 (315)	55.28	194.4	132.66	8.7	165.83	9.1
HLCW-90-1 (258)	45.67	160.6	109.60	9.4	137.00	9.8
HLCW-90-1 (336)	60.00	211	143.99	11.9	179.99	12.3
HLCW-90-1 (359)	63.69	224	152.86	11.9	191.08	12.3
HLCW-100-1 (295)	52.77	185.6	126.66	10.9	158.32	11.3
HLCW-110-1 (336)	60.28	212	144.67	11.6	180.84	12
HLCW-110-1 (315)	57.15	201	137.17	11.2	171.46	11.6
HLCW-110-1 (410)	75.07	264	180.16	13.5	225.20	13.9
HLCW-125-1 (359)	65.12	229	156.28	8.5	195.35	8.9
HLCW-125-1 (470)	83.31	293	199.95	9.9	249.94	10.3
HLCW-140-1 (410)	75.07	264	180.16	9.6	225.20	10
HLCW-140-1 (535)	94.69	333	227.25	11.3	284.06	11.7
HLCW-160-1 (470)	81.32	286	195.17	10.5	243.97	10.9
HLCW-160-1 (615)	112.60	396	270.24	13.5	337.80	13.9
HLCW-210-1 (615)	111.18	391	266.83	10.5	333.54	10.9

CONDENSER ENTERING/LEAVING WATER TEMP.=25/30°C						
TABLE-1 -LEAVING CHILLED WATER TEMP.=6,6°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-70-2	47.83	168.2	114.78	12.5	143.48	12.9
HLCW-80-2	59.43	209	142.63	14.7	178.28	15.1
HLCW-100-2 (2*137)	47.37	166.6	113.69	12.3	142.12	12.7
HLCW-100-2 (2*195)	68.98	242.6	165.56	16.3	206.95	16.7
HLCW-100-2 (2*197)	68.02	239.2	163.24	15.9	204.05	16.3
HLCW-120-2 (2*170)	59.43	209	142.63	14.3	178.28	14.7
HLCW-120-2 (2*220)	77.80	273.6	186.71	17.1	233.39	17.5
HLCW-120-2 (2*227)	79.62	280	191.08	16.7	238.85	17.1
HLCW-140-2 (2*197)	68.64	241.4	164.74	16.1	205.92	16.5
HLCW-140-2 (2*258)	92.01	323.6	220.83	23.9	276.04	24.3
HLCW-160-2 (2*227)	80.07	281.6	192.17	13.5	240.21	13.9
HLCW-160-2 (2*295)	105.09	369.6	252.23	16.5	315.28	16.9
HLCW-160-2 (2*315)	110.55	388.8	265.33	17.1	331.66	17.5
HLCW-180-2 (2*258)	91.33	321.2	219.20	18.5	273.99	18.9
HLCW-180-2 (2*336)	119.99	422	287.98	23.5	359.98	23.9
HLCW-180-2 (2*359)	127.39	448	305.73	23.5	382.16	23.9
HLCW-200-2 (2*295)	105.55	371.2	253.32	21.5	316.65	21.9
HLCW-220-2 (2*336)	120.56	424	289.35	22.7	361.69	23.1
HLCW-220-2 (2*315)	114.31	402	274.34	21.9	342.92	22.3
HLCW-220-2 (2*410)	150.13	528	360.32	26.5	450.40	26.9
HLCW-250-2 (2*359)	130.23	458	312.55	16.5	390.69	16.9
HLCW-250-2 (2*470)	166.63	586	399.90	19.4	499.88	19.8
HLCW-280-2 (2*410)	150.13	528	360.32	18.8	450.40	19.2
HLCW-280-2 (2*535)	189.37	666	454.50	22.2	568.12	22.6
HLCW-320-2 (2*470)	162.65	572	390.35	20.6	487.94	21
HLCW-320-2 (2*615)	225.20	792	540.48	26.6	675.60	27
HLCW-420-2 (2*615)	222.36	782	533.66	20.6	667.07	21

CONDENSER ENTERING/LEAVING WATER TEMP.=25/30°C						
TABLE-1 -LEAVING CHILLED WATER TEMP.=7,2°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-35-1	24.51	86.2	58.83	6.5	73.53	6.9
HLCW-40-1	30.45	107.1	73.09	7.6	91.36	8
HLCW-50-1 (139)	24.25	85.3	58.21	6.4	72.76	6.8
HLCW-50-1 (195)	35.32	124.2	84.76	8.4	105.95	8.8
HLCW-50-1 (197)	34.86	122.6	83.67	8.2	104.58	8.6
HLCW-60-1 (170)	30.42	107	73.02	7.4	91.27	7.8
HLCW-60-1 (220)	39.84	140.1	95.61	8.8	119.51	9.2
HLCW-60-1 (227)	40.95	144	98.27	8.6	122.84	9
HLCW-70-1 (197)	35.20	123.8	84.48	8.3	105.61	8.7
HLCW-70-1 (258)	47.17	165.9	113.21	12.2	141.52	12.6
HLCW-80-1 (227)	41.06	144.4	98.54	7	123.18	7.4
HLCW-80-1 (295)	53.85	189.4	129.25	8.5	161.56	8.9
HLCW-80-1 (315)	56.64	199.2	135.94	8.8	169.92	9.2
HLCW-90-1 (258)	46.80	164.6	112.33	9.5	140.41	9.9
HLCW-90-1 (336)	61.42	216	147.40	12	184.26	12.4
HLCW-90-1 (359)	65.12	229	156.28	12	195.35	12.5
HLCW-100-1 (295)	54.08	190.2	129.80	11	162.25	11.5
HLCW-110-1 (336)	61.70	217	148.09	11.7	185.11	12.2
HLCW-110-1 (315)	58.29	205	139.90	11.3	174.87	11.8
HLCW-110-1 (410)	77.06	271	184.94	13.6	231.17	14.1
HLCW-125-1 (359)	66.54	234	159.69	8.6	199.61	9.1
HLCW-125-1 (470)	85.30	300	204.73	10	255.91	10.5
HLCW-140-1 (410)	76.77	270	184.26	9.7	230.32	10.2
HLCW-140-1 (535)	96.96	341	232.71	11.4	290.88	11.9
HLCW-160-1 (470)	83.31	293	199.95	10.6	249.94	11.1
HLCW-160-1 (615)	115.16	405	276.38	13.6	345.48	14.1
HLCW-210-1 (615)	113.74	400	272.97	10.6	341.21	11.1

CONDENSER ENTERING/LEAVING WATER TEMP.=25/30°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,2°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-70-2	49.02	172.4	117.65	12.6	147.06	13.1
HLCW-80-2	60.91	214.2	146.18	14.8	182.72	15.3
HLCW-100-2 (2*137)	48.51	170.6	116.42	12.4	145.53	12.9
HLCW-100-2 (2*195)	70.63	248.4	169.52	16.4	211.89	16.9
HLCW-100-2 (2*197)	69.72	245.2	167.33	16	209.16	16.5
HLCW-120-2 (2*170)	60.85	214	146.04	14.4	182.55	14.9
HLCW-120-2 (2*220)	79.67	280.2	191.22	17.2	239.02	17.7
HLCW-120-2 (2*227)	81.89	288	196.54	16.8	245.67	17.3
HLCW-140-2 (2*197)	70.40	247.6	168.97	16.2	211.21	16.7
HLCW-140-2 (2*258)	94.35	331.8	226.43	24	283.04	24.5
HLCW-160-2 (2*227)	82.12	288.8	197.09	13.6	246.36	14.1
HLCW-160-2 (2*295)	107.71	378.8	258.50	16.6	323.13	17.1
HLCW-160-2 (2*315)	113.28	398.4	271.88	17.2	339.85	17.7
HLCW-180-2 (2*258)	93.61	329.2	224.66	18.6	280.82	19.1
HLCW-180-2 (2*336)	122.84	432	294.81	23.6	368.51	24.1
HLCW-180-2 (2*359)	130.23	458	312.55	23.6	390.69	24.1
HLCW-200-2 (2*295)	108.16	380.4	259.60	21.6	324.49	22.1
HLCW-220-2 (2*336)	123.41	434	296.17	22.8	370.22	23.3
HLCW-220-2 (2*315)	116.58	410	279.80	22	349.74	22.5
HLCW-220-2 (2*410)	154.11	542	369.88	26.6	462.34	27.1
HLCW-250-2 (2*359)	133.07	468	319.38	16.6	399.22	17.1
HLCW-250-2 (2*470)	170.61	600	409.46	19.5	511.82	20
HLCW-280-2 (2*410)	153.55	540	368.51	18.9	460.64	19.4
HLCW-280-2 (2*535)	193.92	682	465.42	22.3	581.77	22.8
HLCW-320-2 (2*470)	166.63	586	399.90	20.7	499.88	21.2
HLCW-320-2 (2*615)	230.32	810	552.77	26.7	690.96	27.2
HLCW-420-2 (2*615)	227.48	800	545.94	20.7	682.43	21.2

CONDENSER ENTERING/LEAVING WATER TEMP.=25/30°C						
TABLE-1 -LEAVING CHILLED WATER TEMP.=7,4°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-35-1	24.71	86.9	59.30	6.6	74.13	7
HLCW-40-1	30.68	107.9	73.63	7.7	92.04	8.1
HLCW-50-1 (139)	24.45	86	58.69	6.5	73.36	6.9
HLCW-50-1 (195)	35.60	125.2	85.44	8.5	106.80	8.9
HLCW-50-1 (197)	35.17	123.7	84.42	8.3	105.52	8.7
HLCW-60-1 (170)	30.68	107.9	73.63	7.5	92.04	7.9
HLCW-60-1 (220)	40.18	141.3	96.43	8.9	120.53	9.3
HLCW-60-1 (227)	41.40	145.6	99.36	8.7	124.20	9.1
HLCW-70-1 (197)	35.49	124.8	85.17	8.4	106.46	8.8
HLCW-70-1 (258)	47.57	167.3	114.17	12.3	142.71	12.7
HLCW-80-1 (227)	41.40	145.6	99.36	7.1	124.20	7.5
HLCW-80-1 (295)	54.28	190.9	130.28	8.6	162.84	9
HLCW-80-1 (315)	57.15	201	137.17	8.9	171.46	9.3
HLCW-90-1 (258)	47.20	166	113.28	9.6	141.60	10
HLCW-90-1 (336)	61.70	217	148.09	12.1	185.11	12.5
HLCW-90-1 (359)	65.68	231	157.64	12.1	197.05	12.6
HLCW-100-1 (295)	54.51	191.7	130.82	11.1	163.53	11.6
HLCW-110-1 (336)	62.27	219	149.45	11.8	186.81	12.3
HLCW-110-1 (315)	58.86	207	141.26	11.4	176.58	11.9
HLCW-110-1 (410)	77.63	273	186.30	13.7	232.88	14.2
HLCW-125-1 (359)	67.11	236	161.05	8.7	201.32	9.2
HLCW-125-1 (470)	85.87	302	206.09	10.1	257.62	10.6
HLCW-140-1 (410)	77.34	272	185.62	9.8	232.03	10.3
HLCW-140-1 (535)	97.81	344	234.76	11.5	293.44	12
HLCW-160-1 (470)	84.17	296	202.00	10.7	252.50	11.2
HLCW-160-1 (615)	116.30	409	279.11	13.7	348.89	14.2
HLCW-210-1 (615)	114.88	404	275.70	10.7	344.63	11.2

CONDENSER ENTERING/LEAVING WATER TEMP.=25/30°C						
TABLE-1 -LEAVING CHILLED WATER TEMP.=7,4°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-70-2	49.42	173.8	118.61	12.7	148.26	13.2
HLCW-80-2	61.36	215.8	147.27	14.9	184.08	15.4
HLCW-100-2 (2*137)	48.91	172	117.38	12.5	146.72	13
HLCW-100-2 (2*195)	71.20	250.4	170.88	16.5	213.60	17
HLCW-100-2 (2*197)	70.35	247.4	168.83	16.1	211.04	16.6
HLCW-120-2 (2*170)	61.36	215.8	147.27	14.5	184.08	15
HLCW-120-2 (2*220)	80.36	282.6	192.85	17.3	241.07	17.8
HLCW-120-2 (2*227)	82.80	291.2	198.72	16.9	248.40	17.4
HLCW-140-2 (2*197)	70.97	249.6	170.33	16.3	212.92	16.8
HLCW-140-2 (2*258)	95.14	334.6	228.34	24.1	285.43	24.6
HLCW-160-2 (2*227)	82.80	291.2	198.72	13.7	248.40	14.2
HLCW-160-2 (2*295)	108.56	381.8	260.55	16.7	325.69	17.2
HLCW-160-2 (2*315)	114.31	402	274.34	17.3	342.92	17.8
HLCW-180-2 (2*258)	94.40	332	226.57	18.7	283.21	19.2
HLCW-180-2 (2*336)	123.41	434	296.17	23.7	370.22	24.2
HLCW-180-2 (2*359)	131.37	462	315.28	23.7	394.10	24.2
HLCW-200-2 (2*295)	109.02	383.4	261.64	21.7	327.05	22.2
HLCW-220-2 (2*336)	124.54	438	298.90	22.9	373.63	23.4
HLCW-220-2 (2*315)	117.72	414	282.53	22.1	353.16	22.6
HLCW-220-2 (2*410)	155.25	546	372.61	26.7	465.76	27.3
HLCW-250-2 (2*359)	134.21	472	322.11	16.7	402.63	17.3
HLCW-250-2 (2*470)	171.74	604	412.19	19.7	515.23	20.2
HLCW-280-2 (2*410)	154.68	544	371.24	19.1	464.05	19.6
HLCW-280-2 (2*535)	195.63	688	469.51	22.5	586.89	23
HLCW-320-2 (2*470)	168.33	592	404.00	20.9	505.00	21.4
HLCW-320-2 (2*615)	232.59	818	558.23	26.9	697.78	27.4
HLCW-420-2 (2*615)	229.75	808	551.40	20.9	689.25	21.4

CONDENSER ENTERING/LEAVING WATER TEMP.=27/32°C						
TABLE-1-LEAVING CHILLED WATER TEMP.= 5,5°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-35-1	22.35	78.6	53.64	6.1	67.05	6.5
HLCW-40-1	27.78	97.7	66.67	7.2	83.34	7.6
HLCW-50-1 (139)	22.15	77.9	53.16	6	66.45	6.4
HLCW-50-1 (195)	32.22	113.3	77.32	8	96.65	8.4
HLCW-50-1 (197)	31.68	111.4	76.02	7.8	95.03	8.2
HLCW-60-1 (170)	27.81	97.8	66.74	7	83.43	7.4
HLCW-60-1 (220)	36.37	127.9	87.28	8.4	109.10	8.8
HLCW-60-1 (227)	37.31	131.2	89.53	8.2	111.92	8.6
HLCW-70-1 (197)	31.99	112.5	76.77	7.9	95.97	8.3
HLCW-70-1 (258)	42.85	150.7	102.84	11.8	128.55	12.2
HLCW-80-1 (227)	37.39	131.5	89.74	6.6	112.17	7
HLCW-80-1 (295)	49.22	173.1	118.13	8.1	147.66	8.5
HLCW-80-1 (315)	51.69	181.8	124.07	8.4	155.08	8.8
HLCW-90-1 (258)	42.65	150	102.36	9.1	127.96	9.5
HLCW-90-1 (336)	56.07	197.2	134.57	11.6	168.22	12
HLCW-90-1 (359)	59.43	209	142.63	11.6	178.28	12
HLCW-100-1 (295)	49.39	173.7	118.54	10.6	148.17	11
HLCW-110-1 (336)	56.33	198.1	135.19	11.3	168.99	11.7
HLCW-110-1 (315)	53.40	187.8	128.16	10.9	160.20	11.3
HLCW-110-1 (410)	70.23	247	168.56	13.2	210.70	13.6
HLCW-125-1 (359)	60.85	214	146.04	8.2	182.55	8.6
HLCW-125-1 (470)	77.63	273	186.30	9.6	232.88	10
HLCW-140-1 (410)	70.23	247	168.56	9.3	210.70	9.7
HLCW-140-1 (535)	88.43	311	212.24	11	265.29	11.4
HLCW-160-1 (470)	75.92	267	182.21	10.2	227.76	10.6
HLCW-160-1 (615)	105.21	370	252.50	13.2	315.62	13.6
HLCW-210-1 (615)	104.07	366	249.77	10.2	312.21	10.6

CONDENSER ENTERING/LEAVING WATER TEMP.=27/32°C						
TABLE-1-LEAVING CHILLED WATER TEMP.= 5,5°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-70-2	44.70	157.2	107.28	12.2	134.10	12.6
HLCW-80-2	55.56	195.4	133.35	14.4	166.68	14.8
HLCW-100-2 (2*137)	44.30	155.8	106.32	12	132.90	12.4
HLCW-100-2 (2*195)	64.43	226.6	154.64	16	193.30	16.4
HLCW-100-2 (2*197)	63.35	222.8	152.04	15.6	190.06	16
HLCW-120-2 (2*170)	55.62	195.6	133.48	14	166.85	14.4
HLCW-120-2 (2*220)	72.74	255.8	174.57	16.8	218.21	17.1
HLCW-120-2 (2*227)	74.61	262.4	179.07	16.4	223.84	16.7
HLCW-140-2 (2*197)	63.98	225	153.55	15.8	191.93	16.1
HLCW-140-2 (2*258)	85.70	301.4	205.68	23.6	257.10	23.9
HLCW-160-2 (2*227)	74.78	263	179.48	13.1	224.35	13.5
HLCW-160-2 (2*295)	98.44	346.2	236.26	16.1	295.32	16.5
HLCW-160-2 (2*315)	103.39	363.6	248.13	16.7	310.16	17.1
HLCW-180-2 (2*258)	85.30	300	204.73	18.1	255.91	18.5
HLCW-180-2 (2*336)	112.15	394.4	269.15	23.1	336.44	23.5
HLCW-180-2 (2*359)	118.86	418	285.25	23.1	356.57	23.5
HLCW-200-2 (2*295)	98.78	347.4	237.08	21.1	296.34	21.5
HLCW-220-2 (2*336)	112.66	396.2	270.38	22.3	337.97	22.7
HLCW-220-2 (2*315)	106.80	375.6	256.32	21.5	320.40	21.9
HLCW-220-2 (2*410)	140.47	494	337.12	26.1	421.40	26.5
HLCW-250-2 (2*359)	121.70	428	292.08	16.1	365.10	16.5
HLCW-250-2 (2*470)	155.25	546	372.61	18.9	465.76	19.3
HLCW-280-2 (2*410)	140.47	494	337.12	18.3	421.40	18.7
HLCW-280-2 (2*535)	176.86	622	424.47	21.7	530.59	22.1
HLCW-320-2 (2*470)	151.84	534	364.42	20.1	455.52	20.5
HLCW-320-2 (2*615)	210.42	740	505.00	26.1	631.25	26.5
HLCW-420-2 (2*615)	208.14	732	499.54	20.1	624.42	20.5

CONDENSER ENTERING/LEAVING WATER TEMP.=27/32°C						
TABLE-1 -LEAVING CHILLED WATER TEMP.=6,6°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-35-1	23.37	82.2	56.10	6.30	70.12	6.7
HLCW-40-1	29.06	102.2	69.74	7.40	87.18	7.8
HLCW-50-1 (139)	23.15	81.4	55.55	6.20	69.44	6.6
HLCW-50-1 (195)	33.69	118.5	80.87	8.20	101.08	8.6
HLCW-50-1 (197)	33.18	116.7	79.64	8.00	99.55	8.4
HLCW-60-1 (170)	29.06	102.2	69.74	7.20	87.18	7.6
HLCW-60-1 (220)	38.02	133.7	91.24	8.60	114.05	9
HLCW-60-1 (227)	39.10	137.5	93.83	8.40	117.29	8.8
HLCW-70-1 (197)	33.52	117.9	80.46	8.10	100.57	8.5
HLCW-70-1 (258)	44.90	157.9	107.76	12.00	134.69	12.4
HLCW-80-1 (227)	39.04	137.3	93.70	6.80	117.12	7.2
HLCW-80-1 (295)	51.49	181.1	123.59	8.30	154.48	8.7
HLCW-80-1 (315)	54.08	190.2	129.80	8.60	162.25	9
HLCW-90-1 (258)	44.64	157	107.14	9.30	133.93	9.7
HLCW-90-1 (336)	58.58	206	140.58	11.80	175.73	12.2
HLCW-90-1 (359)	62.27	219	149.45	11.80	186.81	12.2
HLCW-100-1 (295)	51.67	181.7	124.00	10.80	155.00	11.2
HLCW-110-1 (336)	58.86	207	141.26	11.50	176.58	11.9
HLCW-110-1 (315)	55.79	196.2	133.89	11.10	167.37	11.5
HLCW-110-1 (410)	73.65	259	176.75	13.40	220.94	13.8
HLCW-125-1 (359)	63.69	224	152.86	8.40	191.08	8.8
HLCW-125-1 (470)	81.32	286	195.17	9.80	243.97	10.2
HLCW-140-1 (410)	73.36	258	176.07	9.50	220.08	9.9
HLCW-140-1 (535)	92.70	326	222.47	11.20	278.09	11.6
HLCW-160-1 (470)	79.62	280	191.08	10.40	238.85	10.8
HLCW-160-1 (615)	110.04	387	264.10	13.40	330.12	13.8
HLCW-210-1 (615)	108.90	383	261.37	10.40	326.71	10.8

CONDENSER ENTERING/LEAVING WATER TEMP.=27/32°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=6,6°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-70-2	46.75	164.4	112.19	12.40	140.24	12.8
HLCW-80-2	58.12	204.4	139.49	14.60	174.36	15
HLCW-100-2 (2*137)	46.29	162.8	111.10	12.20	138.87	12.6
HLCW-100-2 (2*195)	67.39	237	161.74	16.20	202.17	16.6
HLCW-100-2 (2*197)	66.37	233.4	159.28	15.80	199.10	16.2
HLCW-120-2 (2*170)	58.12	204.4	139.49	14.20	174.36	14.6
HLCW-120-2 (2*220)	76.03	267.4	182.48	17.00	228.10	17.3
HLCW-120-2 (2*227)	78.19	275	187.67	16.60	234.58	16.9
HLCW-140-2 (2*197)	67.05	235.8	160.92	16.00	201.15	16.3
HLCW-140-2 (2*258)	89.80	315.8	215.51	23.80	269.39	24.1
HLCW-160-2 (2*227)	78.08	274.6	187.39	13.30	234.24	13.7
HLCW-160-2 (2*295)	102.99	362.2	247.18	16.30	308.97	16.7
HLCW-160-2 (2*315)	108.16	380.4	259.60	16.90	324.49	17.3
HLCW-180-2 (2*258)	89.28	314	214.28	18.30	267.85	18.7
HLCW-180-2 (2*336)	117.15	412	281.16	23.30	351.45	23.7
HLCW-180-2 (2*359)	124.54	438	298.90	23.30	373.63	23.7
HLCW-200-2 (2*295)	103.33	363.4	247.99	21.30	309.99	21.7
HLCW-220-2 (2*336)	117.72	414	282.53	22.50	353.16	22.9
HLCW-220-2 (2*315)	111.58	392.4	267.78	21.70	334.73	22.1
HLCW-220-2 (2*410)	147.29	518	353.50	26.30	441.87	26.7
HLCW-250-2 (2*359)	127.39	448	305.73	16.30	382.16	16.7
HLCW-250-2 (2*470)	162.65	572	390.35	19.10	487.94	19.5
HLCW-280-2 (2*410)	146.72	516	352.13	18.50	440.17	18.9
HLCW-280-2 (2*535)	185.39	652	444.94	21.90	556.18	22.3
HLCW-320-2 (2*470)	159.23	560	382.16	20.30	477.70	20.7
HLCW-320-2 (2*615)	220.08	774	528.20	26.30	660.25	26.7
HLCW-420-2 (2*615)	217.81	766	522.74	20.30	653.42	20.7

CONDENSER ENTERING/LEAVING WATER TEMP.=27/32°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,2°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-35-1	23.97	84.3	57.53	6.50	71.91	6.8
HLCW-40-1	29.77	104.7	71.45	7.60	89.31	7.9
HLCW-50-1 (139)	23.71	83.4	56.91	6.40	71.14	6.7
HLCW-50-1 (195)	34.52	121.4	82.85	8.40	103.56	8.7
HLCW-50-1 (197)	34.04	119.7	81.69	8.20	102.11	8.5
HLCW-60-1 (170)	29.77	104.7	71.45	7.40	89.31	7.7
HLCW-60-1 (220)	38.96	137	93.49	8.80	116.87	9.1
HLCW-60-1 (227)	40.09	141	96.22	8.60	120.28	8.9
HLCW-70-1 (197)	34.41	121	82.57	8.30	103.22	8.6
HLCW-70-1 (258)	46.06	162	110.55	12.20	138.19	12.5
HLCW-80-1 (227)	40.06	140.9	96.15	7.00	120.19	7.3
HLCW-80-1 (295)	52.77	185.6	126.66	8.50	158.32	8.8
HLCW-80-1 (315)	55.42	194.9	133.01	8.80	166.26	9.1
HLCW-90-1 (258)	45.78	161	109.87	9.50	137.34	9.8
HLCW-90-1 (336)	60.00	211	143.99	12.00	179.99	12.3
HLCW-90-1 (359)	63.98	225	153.55	12.00	191.93	12.3
HLCW-100-1 (295)	52.95	186.2	127.07	11.00	158.84	11.3
HLCW-110-1 (336)	60.28	212	144.67	11.70	180.84	12
HLCW-110-1 (315)	57.15	201	137.17	11.30	171.46	11.6
HLCW-110-1 (410)	75.35	265	180.84	13.60	226.05	13.9
HLCW-125-1 (359)	65.12	229	156.28	8.60	195.35	8.9
HLCW-125-1 (470)	83.31	293	199.95	10.00	249.94	10.3
HLCW-140-1 (410)	75.07	264	180.16	9.70	225.20	10
HLCW-140-1 (535)	94.97	334	227.93	11.40	284.91	11.7
HLCW-160-1 (470)	81.61	287	195.86	10.60	244.82	10.9
HLCW-160-1 (615)	112.88	397	270.92	13.60	338.65	13.9
HLCW-210-1 (615)	111.46	392	267.51	10.60	334.39	10.9

CONDENSER ENTERING/LEAVING WATER TEMP.=27/32°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,2°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-70-2	47.94	168.6	115.06	12.60	143.82	12.9
HLCW-80-2	59.54	209.4	142.90	14.80	178.63	15.1
HLCW-100-2 (2*137)	47.43	166.8	113.83	12.40	142.29	12.7
HLCW-100-2 (2*195)	69.04	242.8	165.69	16.40	207.12	16.7
HLCW-100-2 (2*197)	68.07	239.4	163.37	16.00	204.22	16.3
HLCW-120-2 (2*170)	59.54	209.4	142.90	14.40	178.63	14.7
HLCW-120-2 (2*220)	77.91	274	186.99	17.20	233.73	17.4
HLCW-120-2 (2*227)	80.19	282	192.44	16.80	240.56	17
HLCW-140-2 (2*197)	68.81	242	165.15	16.20	206.43	16.4
HLCW-140-2 (2*258)	92.13	324	221.11	24.00	276.38	24.2
HLCW-160-2 (2*227)	80.13	281.8	192.31	13.50	240.39	13.8
HLCW-160-2 (2*295)	105.55	371.2	253.32	16.50	316.65	16.8
HLCW-160-2 (2*315)	110.84	389.8	266.01	17.10	332.51	17.4
HLCW-180-2 (2*258)	91.56	322	219.74	18.50	274.68	18.8
HLCW-180-2 (2*336)	119.99	422	287.98	23.50	359.98	23.8
HLCW-180-2 (2*359)	127.96	450	307.09	23.50	383.87	23.8
HLCW-200-2 (2*295)	105.89	372.4	254.14	21.50	317.67	21.8
HLCW-220-2 (2*336)	120.56	424	289.35	22.70	361.69	23
HLCW-220-2 (2*315)	114.31	402	274.34	21.90	342.92	22.2
HLCW-220-2 (2*410)	150.70	530	361.69	26.50	452.11	26.8
HLCW-250-2 (2*359)	130.23	458	312.55	16.50	390.69	16.8
HLCW-250-2 (2*470)	166.63	586	399.90	19.30	499.88	19.6
HLCW-280-2 (2*410)	150.13	528	360.32	18.70	450.40	19
HLCW-280-2 (2*535)	189.94	668	455.86	22.10	569.83	22.4
HLCW-320-2 (2*470)	163.21	574	391.71	20.50	489.64	20.8
HLCW-320-2 (2*615)	225.77	794	541.85	26.50	677.31	26.8
HLCW-420-2 (2*615)	222.93	784	535.02	20.50	668.78	20.8

CONDENSER ENTERING/LEAVING WATER TEMP.=27/32°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,4°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-35-1	24.14	84.9	57.94	72.01	72.42	6.9
HLCW-40-1	30.11	105.9	72.27	89.41	90.34	8
HLCW-50-1 (139)	23.91	84.1	57.39	71.24	71.74	6.8
HLCW-50-1 (195)	34.80	122.4	83.53	103.66	104.41	8.8
HLCW-50-1 (197)	34.32	120.7	82.37	102.21	102.96	8.6
HLCW-60-1 (170)	30.00	105.5	72.00	89.41	90.00	7.8
HLCW-60-1 (220)	39.27	138.1	94.24	116.97	117.80	9.2
HLCW-60-1 (227)	40.43	142.2	97.04	120.38	121.30	9
HLCW-70-1 (197)	34.69	122	83.26	103.32	104.07	8.7
HLCW-70-1 (258)	46.46	163.4	111.51	138.29	139.39	12.6
HLCW-80-1 (227)	40.41	142.1	96.97	120.29	121.22	7.4
HLCW-80-1 (295)	53.20	187.1	127.68	158.42	159.60	8.9
HLCW-80-1 (315)	55.87	196.5	134.10	166.36	167.62	9.2
HLCW-90-1 (258)	46.15	162.3	110.76	137.44	138.45	9.9
HLCW-90-1 (336)	60.57	213	145.36	180.09	181.70	12.4
HLCW-90-1 (359)	64.26	226	154.23	192.03	192.79	12.4
HLCW-100-1 (295)	53.37	187.7	128.09	158.94	160.11	11.4
HLCW-110-1 (336)	60.85	214	146.04	12.00	182.55	12.1
HLCW-110-1 (315)	57.72	203	138.53	11.60	173.17	11.7
HLCW-110-1 (410)	75.92	267	182.21	13.90	227.76	14
HLCW-125-1 (359)	65.68	231	157.64	8.90	197.05	9
HLCW-125-1 (470)	83.88	295	201.32	10.30	251.65	10.4
HLCW-140-1 (410)	75.64	266	181.53	10.00	226.91	10.1
HLCW-140-1 (535)	95.54	336	229.30	11.70	286.62	11.9
HLCW-160-1 (470)	82.18	289	197.22	10.90	246.53	11.1
HLCW-160-1 (615)	113.74	400	272.97	13.90	341.21	14.1
HLCW-210-1 (615)	112.32	395	269.56	10.90	336.95	11.1

CONDENSER ENTERING/LEAVING WATER TEMP.=27/32°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,4°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-70-2	48.28	169.8	115.88	12.90	144.85	13.1
HLCW-80-2	60.22	211.8	144.54	15.10	180.67	15.3
HLCW-100-2 (2*137)	47.83	168.2	114.78	12.70	143.48	12.9
HLCW-100-2 (2*195)	69.61	244.8	167.06	16.70	208.82	16.9
HLCW-100-2 (2*197)	68.64	241.4	164.74	16.30	205.92	16.5
HLCW-120-2 (2*170)	60.00	211	143.99	14.70	179.99	14.9
HLCW-120-2 (2*220)	78.54	276.2	188.49	17.50	235.61	17.6
HLCW-120-2 (2*227)	80.87	284.4	194.08	17.10	242.60	17.2
HLCW-140-2 (2*197)	69.38	244	166.51	16.50	208.14	16.6
HLCW-140-2 (2*258)	92.92	326.8	223.02	24.30	278.77	24.4
HLCW-160-2 (2*227)	80.81	284.2	193.95	13.80	242.43	14
HLCW-160-2 (2*295)	106.40	374.2	255.36	16.80	319.21	17
HLCW-160-2 (2*315)	111.75	393	268.19	17.40	335.24	17.6
HLCW-180-2 (2*258)	92.30	324.6	221.52	18.80	276.90	19
HLCW-180-2 (2*336)	121.13	426	290.71	23.80	363.39	24
HLCW-180-2 (2*359)	128.52	452	308.46	23.80	385.57	24
HLCW-200-2 (2*295)	106.74	375.4	256.18	21.80	320.23	22
HLCW-220-2 (2*336)	121.70	428	292.08	23.00	365.10	23.2
HLCW-220-2 (2*315)	115.44	406	277.07	22.20	346.33	22.4
HLCW-220-2 (2*410)	151.84	534	364.42	26.80	455.52	27
HLCW-250-2 (2*359)	131.37	462	315.28	16.80	394.10	17
HLCW-250-2 (2*470)	167.76	590	402.63	19.60	503.29	19.8
HLCW-280-2 (2*410)	151.27	532	363.05	19.00	453.81	19.2
HLCW-280-2 (2*535)	191.08	672	458.59	22.40	573.24	22.6
HLCW-320-2 (2*470)	164.35	578	394.44	20.80	493.05	21
HLCW-320-2 (2*615)	227.48	800	545.94	26.80	682.43	27
HLCW-420-2 (2*615)	224.63	790	539.12	20.80	673.90	21

CONDENSER ENTERING/LEAVING WATER TEMP.=30/35°C						
TABLE-1-LEAVING CHILLED WATER TEMP.= 5,5°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-35-1	21.47	75.5	51.52	5.9	64.40	6.3
HLCW-40-1	26.79	94.2	64.28	7	80.36	7.4
HLCW-50-1 (139)	21.35	75.1	51.25	5.8	64.06	6.2
HLCW-50-1 (195)	31.05	109.2	74.52	7.8	93.15	8.2
HLCW-50-1 (197)	30.45	107.1	73.09	7.6	91.36	8
HLCW-60-1 (170)	26.81	94.3	64.35	6.8	80.44	7.2
HLCW-60-1 (220)	35.03	123.2	84.08	8.2	105.09	8.6
HLCW-60-1 (227)	35.86	126.1	86.05	8	107.57	8.4
HLCW-70-1 (197)	30.79	108.3	73.91	7.7	92.38	8.1
HLCW-70-1 (258)	41.20	144.9	98.88	11.6	123.60	12
HLCW-80-1 (227)	35.80	125.9	85.92	6.4	107.40	6.8
HLCW-80-1 (295)	47.60	167.4	114.24	7.9	142.80	8.3
HLCW-80-1 (315)	49.93	175.6	119.83	8.2	149.79	8.6
HLCW-90-1 (258)	41.12	144.6	98.68	8.9	123.35	9.3
HLCW-90-1 (336)	54.20	190.6	130.07	11.4	162.59	11.8
HLCW-90-1 (359)	57.44	202	137.85	11.4	172.31	11.8
HLCW-100-1 (295)	47.71	167.8	114.51	10.4	143.14	10.8
HLCW-110-1 (336)	54.40	191.3	130.55	11.1	163.19	11.5
HLCW-110-1 (315)	51.55	181.3	123.72	10.7	154.66	11.1
HLCW-110-1 (410)	67.96	239	163.10	13	203.88	13.4
HLCW-125-1 (359)	58.86	207	141.26	8	176.58	8.4
HLCW-125-1 (470)	75.07	264	180.16	9.4	225.20	9.8
HLCW-140-1 (410)	67.67	238	162.42	9.1	203.02	9.5
HLCW-140-1 (535)	85.30	300	204.73	10.8	255.91	11.2
HLCW-160-1 (470)	73.36	258	176.07	10	220.08	10.4
HLCW-160-1 (615)	101.51	357	243.63	13	304.53	13.4
HLCW-210-1 (615)	100.66	354	241.58	10	301.97	10.4

CONDENSER ENTERING/LEAVING WATER TEMP.=30/35°C						
TABLE-1-LEAVING CHILLED WATER TEMP.= 5,5°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-70-2	42.94	151	103.05	12	128.81	12.4
HLCW-80-2	53.57	188.4	128.57	14.2	160.71	14.6
HLCW-100-2 (2*137)	42.71	150.2	102.50	11.8	128.13	12.2
HLCW-100-2 (2*195)	62.10	218.4	149.04	15.8	186.30	16.2
HLCW-100-2 (2*197)	60.91	214.2	146.18	15.4	182.72	15.7
HLCW-120-2 (2*170)	53.63	188.6	128.71	13.8	160.88	14.1
HLCW-120-2 (2*220)	70.06	246.4	168.15	16.6	210.19	16.8
HLCW-120-2 (2*227)	71.71	252.2	172.11	16.2	215.14	16.4
HLCW-140-2 (2*197)	61.59	216.6	147.81	15.6	184.77	15.8
HLCW-140-2 (2*258)	82.40	289.8	197.77	23.4	247.21	23.6
HLCW-160-2 (2*227)	71.60	251.8	171.84	12.9	214.79	13.2
HLCW-160-2 (2*295)	95.20	334.8	228.48	15.9	285.60	16.2
HLCW-160-2 (2*315)	99.86	351.2	239.67	16.4	299.59	16.8
HLCW-180-2 (2*258)	82.23	289.2	197.36	17.8	246.70	18.2
HLCW-180-2 (2*336)	108.39	381.2	260.14	22.8	325.18	23.2
HLCW-180-2 (2*359)	114.88	404	275.70	22.8	344.63	23.2
HLCW-200-2 (2*295)	95.43	335.6	229.02	20.8	286.28	21.2
HLCW-220-2 (2*336)	108.79	382.6	261.10	22	326.37	22.4
HLCW-220-2 (2*315)	103.10	362.6	247.45	21.2	309.31	21.6
HLCW-220-2 (2*410)	135.92	478	326.20	25.8	407.75	26.2
HLCW-250-2 (2*359)	117.72	414	282.53	15.8	353.16	16.2
HLCW-250-2 (2*470)	150.13	528	360.32	18.6	450.40	19
HLCW-280-2 (2*410)	135.35	476	324.84	18	406.04	18.4
HLCW-280-2 (2*535)	170.61	600	409.46	21.4	511.82	21.8
HLCW-320-2 (2*470)	146.72	516	352.13	19.8	440.17	20.2
HLCW-320-2 (2*615)	203.02	714	487.25	25.8	609.07	26.2
HLCW-420-2 (2*615)	201.32	708	483.16	19.8	603.95	20.2

CONDENSER ENTERING/LEAVING WATER TEMP.=30/35°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=6,6°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-35-1	22.55	79.3	54.12	6.1	67.65	6.5
HLCW-40-1	28.04	98.6	67.29	7.2	84.11	7.6
HLCW-50-1 (139)	22.35	78.6	53.64	6	67.05	6.4
HLCW-50-1 (195)	32.47	114.2	77.93	8	97.42	8.4
HLCW-50-1 (197)	31.93	112.3	76.64	7.8	95.80	8.2
HLCW-60-1 (170)	28.04	98.6	67.29	7	84.11	7.4
HLCW-60-1 (220)	36.65	128.9	87.96	8.4	109.96	8.8
HLCW-60-1 (227)	37.62	132.3	90.29	8.2	112.86	8.6
HLCW-70-1 (197)	32.30	113.6	77.52	7.9	96.90	8.3
HLCW-70-1 (258)	43.22	152	103.73	11.8	129.66	12.2
HLCW-80-1 (227)	37.53	132	90.08	6.6	112.60	7
HLCW-80-1 (295)	49.82	175.2	119.56	8.1	149.45	8.5
HLCW-80-1 (315)	52.26	183.8	125.43	8.4	156.79	8.8
HLCW-90-1 (258)	42.94	151	103.05	9.1	128.81	9.5
HLCW-90-1 (336)	56.73	199.5	136.14	11.6	170.18	12
HLCW-90-1 (359)	60.28	212	144.67	11.6	180.84	12
HLCW-100-1 (295)	49.93	175.6	119.83	10.6	149.79	11
HLCW-110-1 (336)	56.87	200	136.49	11.3	170.61	11.7
HLCW-110-1 (315)	53.88	189.5	129.32	10.9	161.65	11.3
HLCW-110-1 (410)	71.09	250	170.61	13.2	213.26	13.6
HLCW-125-1 (359)	61.42	216	147.40	8.2	184.26	8.6
HLCW-125-1 (470)	78.48	276	188.35	9.6	235.44	10
HLCW-140-1 (410)	70.80	249	169.92	9.3	212.41	9.7
HLCW-140-1 (535)	89.28	314	214.28	11	267.85	11.4
HLCW-160-1 (470)	76.77	270	184.26	10.2	230.32	10.6
HLCW-160-1 (615)	106.06	373	254.55	13.2	318.18	13.6
HLCW-210-1 (615)	105.21	370	252.50	10.2	315.62	10.6

CONDENSER ENTERING/LEAVING WATER TEMP.=30/35°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=6,6°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-70-2	45.10	158.6	108.23	12.2	135.29	12.6
HLCW-80-2	56.07	197.2	134.57	14.4	168.22	14.8
HLCW-100-2 (2*137)	44.70	157.2	107.28	12	134.10	12.4
HLCW-100-2 (2*195)	64.94	228.4	155.87	16	194.83	16.4
HLCW-100-2 (2*197)	63.86	224.6	153.27	15.6	191.59	15.9
HLCW-120-2 (2*170)	56.07	197.2	134.57	14	168.22	14.3
HLCW-120-2 (2*220)	73.30	257.8	175.93	16.8	219.91	17
HLCW-120-2 (2*227)	75.24	264.6	180.57	16.4	225.71	16.6
HLCW-140-2 (2*197)	64.60	227.2	155.05	15.8	193.81	16
HLCW-140-2 (2*258)	86.44	304	207.46	23.6	259.32	23.8
HLCW-160-2 (2*227)	75.07	264	180.16	13.1	225.20	13.4
HLCW-160-2 (2*295)	99.63	350.4	239.12	16.1	298.90	16.4
HLCW-160-2 (2*315)	104.53	367.6	250.86	16.6	313.58	17
HLCW-180-2 (2*258)	85.87	302	206.09	18	257.62	18.4
HLCW-180-2 (2*336)	113.45	399	272.29	23	340.36	23.4
HLCW-180-2 (2*359)	120.56	424	289.35	23	361.69	23.4
HLCW-200-2 (2*295)	99.86	351.2	239.67	21.1	299.59	21.4
HLCW-220-2 (2*336)	113.74	400	272.97	22.3	341.21	22.6
HLCW-220-2 (2*315)	107.77	379	258.64	21.5	323.30	21.8
HLCW-220-2 (2*410)	142.17	500	341.21	26.1	426.52	26.5
HLCW-250-2 (2*359)	122.84	432	294.81	16.1	368.51	16.5
HLCW-250-2 (2*470)	156.96	552	376.70	18.9	470.88	19.3
HLCW-280-2 (2*410)	141.60	498	339.85	18.3	424.81	18.7
HLCW-280-2 (2*535)	178.57	628	428.56	21.7	535.71	22.1
HLCW-320-2 (2*470)	153.55	540	368.51	20.1	460.64	20.5
HLCW-320-2 (2*615)	212.12	746	509.09	26.1	636.36	26.5
HLCW-420-2 (2*615)	210.42	740	505.00	20.1	631.25	20.5

CONDENSER ENTERING/LEAVING WATER TEMP. = 30/35°C						
TABLE-1-LEAVING CHILLED WATER TEMP. = 7,2°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-35-1	23.12	81.3	55.48	6.2	69.35	6.6
HLCW-40-1	28.72	101	68.93	7.3	86.16	7.7
HLCW-50-1 (139)	22.89	80.5	54.94	6.1	68.67	6.5
HLCW-50-1 (195)	33.27	117	79.84	8.1	99.81	8.5
HLCW-50-1 (197)	32.76	115.2	78.62	7.9	98.27	8.3
HLCW-60-1 (170)	28.72	101	68.93	7.1	86.16	7.5
HLCW-60-1 (220)	37.53	132	90.08	8.5	112.60	8.9
HLCW-60-1 (227)	38.59	135.7	92.61	8.3	115.76	8.7
HLCW-70-1 (197)	33.13	116.5	79.50	8	99.38	8.4
HLCW-70-1 (258)	44.33	155.9	106.39	11.9	132.99	12.4
HLCW-80-1 (227)	38.50	135.4	92.40	6.7	115.50	7.2
HLCW-80-1 (295)	51.04	179.5	122.50	8.2	153.12	8.7
HLCW-80-1 (315)	53.57	188.4	128.57	8.5	160.71	9
HLCW-90-1 (258)	44.16	155.3	105.98	9.2	132.48	9.7
HLCW-90-1 (336)	58.01	204	139.22	11.7	174.02	12.2
HLCW-90-1 (359)	61.70	217	148.09	11.7	185.11	12.2
HLCW-100-1 (295)	51.18	180	122.84	10.7	153.55	11.2
HLCW-110-1 (336)	58.29	205	139.90	11.4	174.87	11.9
HLCW-110-1 (315)	55.19	194.1	132.46	11	165.57	11.5
HLCW-110-1 (410)	72.79	256	174.70	13.3	218.38	13.8
HLCW-125-1 (359)	62.84	221	150.82	8.3	188.52	8.8
HLCW-125-1 (470)	80.47	283	193.13	9.7	241.41	10.2
HLCW-140-1 (410)	72.51	255	174.02	9.4	217.52	9.9
HLCW-140-1 (535)	91.56	322	219.74	11.1	274.68	11.6
HLCW-160-1 (470)	78.76	277	189.03	10.3	236.29	10.8
HLCW-160-1 (615)	108.90	383	261.37	13.3	326.71	13.8
HLCW-210-1 (615)	107.77	379	258.64	10.3	323.30	10.8

CONDENSER ENTERING/LEAVING WATER TEMP.=30/35°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,2°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-70-2	46.23	162.6	110.96	12.3	138.70	12.8
HLCW-80-2	57.44	202	137.85	14.5	172.31	15
HLCW-100-2 (2*137)	45.78	161	109.87	12.2	137.34	12.6
HLCW-100-2 (2*195)	66.54	234	159.69	16.2	199.61	16.6
HLCW-100-2 (2*197)	65.51	230.4	157.23	15.8	196.54	16.1
HLCW-120-2 (2*170)	57.44	202	137.85	14.2	172.31	14.5
HLCW-120-2 (2*220)	75.07	264	180.16	17	225.20	17.2
HLCW-120-2 (2*227)	77.17	271.4	185.21	16.6	231.51	16.8
HLCW-140-2 (2*197)	66.25	233	159.01	16	198.76	16.2
HLCW-140-2 (2*258)	88.66	311.8	212.78	23.8	265.98	24
HLCW-160-2 (2*227)	77.00	270.8	184.80	13.3	231.00	13.6
HLCW-160-2 (2*295)	102.08	359	244.99	16.3	306.24	16.6
HLCW-160-2 (2*315)	107.14	376.8	257.14	16.8	321.42	17.2
HLCW-180-2 (2*258)	88.32	310.6	211.96	18.2	264.95	18.6
HLCW-180-2 (2*336)	116.01	408	278.43	23.2	348.04	23.6
HLCW-180-2 (2*359)	123.41	434	296.17	23.2	370.22	23.6
HLCW-200-2 (2*295)	102.36	360	245.67	21.3	307.09	21.6
HLCW-220-2 (2*336)	116.58	410	279.80	22.5	349.74	22.8
HLCW-220-2 (2*315)	110.38	388.2	264.92	21.7	331.15	22
HLCW-220-2 (2*410)	145.58	512	349.40	26.3	436.75	26.7
HLCW-250-2 (2*359)	125.68	442	301.63	16.3	377.04	16.7
HLCW-250-2 (2*470)	160.94	566	386.25	19.1	482.82	19.5
HLCW-280-2 (2*410)	145.02	510	348.04	18.5	435.05	18.9
HLCW-280-2 (2*535)	183.12	644	439.48	21.9	549.35	22.3
HLCW-320-2 (2*470)	157.53	554	378.07	20.3	472.58	20.7
HLCW-320-2 (2*615)	217.81	766	522.74	26.3	653.42	26.7
HLCW-420-2 (2*615)	215.53	758	517.28	20.3	646.60	20.7

CONDENSER ENTERING/LEAVING WATER TEMP.=30/35°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,4°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-35-1	23.29	81.9	55.89	6.3	69.86	6.7
HLCW-40-1	28.95	101.8	69.47	7.4	86.84	7.8
HLCW-50-1 (139)	23.09	81.2	55.41	6.2	69.27	6.6
HLCW-50-1 (195)	33.55	118	80.53	8.2	100.66	8.6
HLCW-50-1 (197)	33.04	116.2	79.30	8	99.12	8.4
HLCW-60-1 (170)	28.95	101.8	69.47	7.2	86.84	7.6
HLCW-60-1 (220)	37.85	133.1	90.83	8.6	113.54	9
HLCW-60-1 (227)	38.93	136.9	93.42	8.4	116.78	8.8
HLCW-70-1 (197)	33.41	117.5	80.19	8.1	100.23	8.5
HLCW-70-1 (258)	44.73	157.3	107.35	12	134.18	12.5
HLCW-80-1 (227)	38.84	136.6	93.22	6.8	116.52	7.3
HLCW-80-1 (295)	51.47	181	123.52	8.3	154.40	8.8
HLCW-80-1 (315)	54.00	189.9	129.59	8.6	161.99	9.1
HLCW-90-1 (258)	44.53	156.6	106.87	9.3	133.59	9.8
HLCW-90-1 (336)	58.58	206	140.58	11.8	175.73	12.3
HLCW-90-1 (359)	62.27	219	149.45	11.8	186.81	12.3
HLCW-100-1 (295)	51.61	181.5	123.86	10.8	154.83	11.3
HLCW-110-1 (336)	58.86	207	141.26	11.5	176.58	12
HLCW-110-1 (315)	55.65	195.7	133.55	11.1	166.94	11.6
HLCW-110-1 (410)	73.36	258	176.07	13.4	220.08	13.9
HLCW-125-1 (359)	63.41	223	152.18	8.4	190.23	8.9
HLCW-125-1 (470)	81.04	285	194.49	9.8	243.11	10.3
HLCW-140-1 (410)	73.08	257	175.38	9.5	219.23	10
HLCW-140-1 (535)	92.41	325	221.79	11.2	277.24	11.8
HLCW-160-1 (470)	79.33	279	190.40	10.4	238.00	11
HLCW-160-1 (615)	109.76	386	263.42	13.4	329.27	14
HLCW-210-1 (615)	108.62	382	260.69	10.4	325.86	11
HLCW-70-2	46.58	163.8	111.78	12.4	139.73	13
HLCW-80-2	57.89	203.6	138.94	14.6	173.68	15.2

CONDENSER ENTERING/LEAVING WATER TEMP.=30/35°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,4°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-100-2 (2*137)	46.18	162.4	110.83	12.4	138.53	12.8
HLCW-100-2 (2*195)	67.11	236	161.05	16.4	201.32	16.8
HLCW-100-2 (2*197)	66.08	232.4	158.60	16	198.25	16.3
HLCW-120-2 (2*170)	57.89	203.6	138.94	14.4	173.68	14.7
HLCW-120-2 (2*220)	75.69	266.2	181.66	17.2	227.08	17.4
HLCW-120-2 (2*227)	77.85	273.8	186.85	16.8	233.56	17
HLCW-140-2 (2*197)	66.82	235	160.37	16.2	200.46	16.4
HLCW-140-2 (2*258)	89.45	314.6	214.69	24	268.36	24.2
HLCW-160-2 (2*227)	77.68	273.2	186.44	13.5	233.05	13.8
HLCW-160-2 (2*295)	102.93	362	247.04	16.5	308.80	16.8
HLCW-160-2 (2*315)	107.99	379.8	259.19	17	323.98	17.4
HLCW-180-2 (2*258)	89.06	313.2	213.74	18.4	267.17	18.8
HLCW-180-2 (2*336)	117.15	412	281.16	23.4	351.45	23.8
HLCW-180-2 (2*359)	124.54	438	298.90	23.4	373.63	23.8
HLCW-200-2 (2*295)	103.22	363	247.72	21.5	309.65	21.8
HLCW-220-2 (2*336)	117.72	414	282.53	22.7	353.16	23
HLCW-220-2 (2*315)	111.29	391.4	267.10	21.9	333.88	22.2
HLCW-220-2 (2*410)	146.72	516	352.13	26.5	440.17	26.9
HLCW-250-2 (2*359)	126.82	446	304.36	16.5	380.45	16.9
HLCW-250-2 (2*470)	162.08	570	388.98	19.3	486.23	19.7
HLCW-280-2 (2*410)	146.15	514	350.77	18.7	438.46	19.1
HLCW-280-2 (2*535)	184.82	650	443.58	22.1	554.47	22.5
HLCW-320-2 (2*470)	158.66	558	380.79	20.5	475.99	20.9
HLCW-320-2 (2*615)	219.51	772	526.83	26.5	658.54	26.9
HLCW-420-2 (2*615)	217.24	764	521.37	20.5	651.72	20.9

CONDENSER ENTERING/LEAVING WATER TEMP.=33/38°C						
TABLE-1-LEAVING CHILLED WATER TEMP.= 5,5°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-35-1	20.67	72.7	49.61	5.7	62.02	6.1
HLCW-40-1	25.76	90.6	61.83	6.8	77.28	7.2
HLCW-50-1 (139)	20.56	72.3	49.34	5.6	61.67	6
HLCW-50-1 (195)	29.83	104.9	71.59	7.6	89.48	8
HLCW-50-1 (197)	29.17	102.6	70.02	7.4	87.52	7.8
HLCW-60-1 (170)	25.79	90.7	61.90	6.6	77.37	7
HLCW-60-1 (220)	33.64	118.3	80.73	8	100.91	8.4
HLCW-60-1 (227)	34.38	120.9	82.51	7.8	103.13	8.2
HLCW-70-1 (197)	29.54	103.9	70.90	7.5	88.63	7.9
HLCW-70-1 (258)	39.50	138.9	94.79	11.4	118.49	11.8
HLCW-80-1 (227)	34.29	120.6	82.30	6.2	102.88	6.6
HLCW-80-1 (295)	45.86	161.3	110.08	7.7	137.59	8.1
HLCW-80-1 (315)	48.08	169.1	115.40	8	144.25	8.4
HLCW-90-1 (258)	39.55	139.1	94.93	8.7	118.66	9.1
HLCW-90-1 (336)	52.23	183.7	125.36	11.2	156.70	11.6
HLCW-90-1 (359)	55.42	194.9	133.01	11.2	166.26	11.6
HLCW-100-1 (295)	46.01	161.8	110.42	10.2	138.02	10.6
HLCW-110-1 (336)	52.40	184.3	125.77	10.9	157.21	11.3
HLCW-110-1 (315)	49.65	174.6	119.15	10.5	148.94	10.9
HLCW-110-1 (410)	65.40	230	156.96	12.8	196.20	13.2
HLCW-125-1 (359)	56.58	199	135.80	7.8	169.75	8.2
HLCW-125-1 (470)	72.22	254	173.34	9.2	216.67	9.6
HLCW-140-1 (410)	65.40	230	156.96	8.9	196.20	9.3
HLCW-140-1 (535)	82.18	289	197.22	10.6	246.53	11
HLCW-160-1 (470)	70.52	248	169.24	9.8	211.55	10.2
HLCW-160-1 (615)	97.53	343	234.07	12.8	292.59	13.2
HLCW-210-1 (615)	96.68	340	232.03	9.8	290.03	10.2

CONDENSER ENTERING/LEAVING WATER TEMP.=33/38°C						
TABLE-1-LEAVING CHILLED WATER TEMP.= 5,5°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-70-2	41.34	145.4	99.23	11.8	124.03	12.2
HLCW-80-2	51.52	181.2	123.66	14	154.57	14.4
HLCW-100-2 (2*137)	41.12	144.6	98.68	11.6	123.35	12
HLCW-100-2 (2*195)	59.66	209.8	143.17	15.6	178.97	16
HLCW-100-2 (2*197)	58.35	205.2	140.03	15.2	175.04	15.5
HLCW-120-2 (2*170)	51.58	181.4	123.79	13.6	154.74	13.9
HLCW-120-2 (2*220)	67.28	236.6	161.46	16.4	201.83	16.6
HLCW-120-2 (2*227)	68.75	241.8	165.01	16	206.26	16.2
HLCW-140-2 (2*197)	59.09	207.8	141.81	15.4	177.26	15.6
HLCW-140-2 (2*258)	78.99	277.8	189.58	23.2	236.97	23.4
HLCW-160-2 (2*227)	68.58	241.2	164.60	12.7	205.75	13
HLCW-160-2 (2*295)	91.73	322.6	220.15	15.7	275.19	16
HLCW-160-2 (2*315)	96.17	338.2	230.80	16.2	288.50	16.6
HLCW-180-2 (2*258)	79.10	278.2	189.85	17.6	237.31	18
HLCW-180-2 (2*336)	104.47	367.4	250.72	22.6	313.41	23
HLCW-180-2 (2*359)	110.84	389.8	266.01	22.6	332.51	23
HLCW-200-2 (2*295)	92.01	323.6	220.83	20.6	276.04	21
HLCW-220-2 (2*336)	104.81	368.6	251.54	21.8	314.43	22.2
HLCW-220-2 (2*315)	99.29	349.2	238.30	21	297.88	21.4
HLCW-220-2 (2*410)	130.80	460	313.92	25.6	392.40	26
HLCW-250-2 (2*359)	113.17	398	271.61	15.6	339.51	16
HLCW-250-2 (2*470)	144.45	508	346.67	18.4	433.34	18.8
HLCW-280-2 (2*410)	130.80	460	313.92	17.8	392.40	18.2
HLCW-280-2 (2*535)	164.35	578	394.44	21.2	493.05	21.6
HLCW-320-2 (2*470)	141.04	496	338.48	19.6	423.11	20
HLCW-320-2 (2*615)	195.06	686	468.15	25.6	585.18	26
HLCW-420-2 (2*615)	193.35	680	464.05	19.6	580.06	20

CONDENSER ENTERING/LEAVING WATER TEMP.=33/38°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=6,6°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-35-1	21.67	76.2	52.00	5.8	65.00	6.3
HLCW-40-1	26.96	94.8	64.69	6.9	80.87	7.4
HLCW-50-1 (139)	21.50	75.6	51.59	5.7	64.49	6.2
HLCW-50-1 (195)	31.22	109.8	74.93	7.7	93.66	8.2
HLCW-50-1 (197)	30.62	107.7	73.50	7.5	91.87	8
HLCW-60-1 (170)	26.98	94.9	64.76	6.7	80.95	7.2
HLCW-60-1 (220)	35.20	123.8	84.48	8.1	105.61	8.6
HLCW-60-1 (227)	36.08	126.9	86.60	7.9	108.25	8.4
HLCW-70-1 (197)	30.99	109	74.38	7.6	92.98	8.1
HLCW-70-1 (258)	41.46	145.8	99.50	11.5	124.37	12
HLCW-80-1 (227)	35.97	126.5	86.33	6.3	107.91	6.8
HLCW-80-1 (295)	48.03	168.9	115.26	7.8	144.08	8.3
HLCW-80-1 (315)	50.39	177.2	120.93	8.1	151.16	8.6
HLCW-90-1 (258)	41.43	145.7	99.43	8.8	124.29	9.3
HLCW-90-1 (336)	54.71	192.4	131.30	11.3	164.12	11.8
HLCW-90-1 (359)	58.01	204	139.22	11.3	174.02	11.8
HLCW-100-1 (295)	48.14	169.3	115.54	10.3	144.42	10.8
HLCW-110-1 (336)	54.88	193	131.71	11	164.64	11.5
HLCW-110-1 (315)	51.92	182.6	124.61	10.6	155.76	11.1
HLCW-110-1 (410)	68.53	241	164.47	12.9	205.58	13.4
HLCW-125-1 (359)	59.14	208	141.95	7.9	177.43	8.4
HLCW-125-1 (470)	75.64	266	181.53	9.3	226.91	9.8
HLCW-140-1 (410)	68.24	240	163.78	9	204.73	9.5
HLCW-140-1 (535)	85.87	302	206.09	10.7	257.62	11.2
HLCW-160-1 (470)	73.93	260	177.43	9.9	221.79	10.4
HLCW-160-1 (615)	102.08	359	244.99	12.9	306.24	13.4
HLCW-210-1 (615)	101.23	356	242.94	9.9	303.68	10.4

CONDENSER ENTERING/LEAVING WATER TEMP.=33/38°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=6,6°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-70-2	43.33	152.4	104.00	11.9	130.00	12.4
HLCW-80-2	53.91	189.6	129.39	14.1	161.74	14.6
HLCW-100-2 (2*137)	42.99	151.2	103.18	11.7	128.98	12.2
HLCW-100-2 (2*195)	62.44	219.6	149.86	15.7	187.33	16.2
HLCW-100-2 (2*197)	61.25	215.4	146.99	15.3	183.74	15.7
HLCW-120-2 (2*170)	53.97	189.8	129.52	13.7	161.91	14.1
HLCW-120-2 (2*220)	70.40	247.6	168.97	16.5	211.21	16.8
HLCW-120-2 (2*227)	72.17	253.8	173.20	16.1	216.50	16.4
HLCW-140-2 (2*197)	61.99	218	148.77	15.5	185.96	15.8
HLCW-140-2 (2*258)	82.92	291.6	199.00	23.3	248.75	23.6
HLCW-160-2 (2*227)	71.94	253	172.65	12.8	215.82	13.2
HLCW-160-2 (2*295)	96.05	337.8	230.52	15.8	288.16	16.2
HLCW-160-2 (2*315)	100.77	354.4	241.85	16.3	302.32	16.8
HLCW-180-2 (2*258)	82.86	291.4	198.86	17.7	248.57	18.2
HLCW-180-2 (2*336)	109.42	384.8	262.60	22.7	328.25	23.2
HLCW-180-2 (2*359)	116.01	408	278.43	22.7	348.04	23.2
HLCW-200-2 (2*295)	96.28	338.6	231.07	20.7	288.84	21.2
HLCW-220-2 (2*336)	109.76	386	263.42	21.9	329.27	22.4
HLCW-220-2 (2*315)	103.84	365.2	249.22	21.1	311.53	21.6
HLCW-220-2 (2*410)	137.05	482	328.93	25.7	411.16	26.2
HLCW-250-2 (2*359)	118.29	416	283.89	15.7	354.86	16.2
HLCW-250-2 (2*470)	151.27	532	363.05	18.5	453.81	19
HLCW-280-2 (2*410)	136.49	480	327.57	18	409.46	18.4
HLCW-280-2 (2*535)	171.74	604	412.19	21.4	515.23	21.8
HLCW-320-2 (2*470)	147.86	520	354.86	19.8	443.58	20.2
HLCW-320-2 (2*615)	204.16	718	489.98	25.8	612.48	26.2
HLCW-420-2 (2*615)	202.45	712	485.89	19.8	607.36	20.2

CONDENSER ENTERING/LEAVING WATER TEMP.=33/38°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,2°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-35-1	22.21	78.1	53.30	5.9	66.62	6.4
HLCW-40-1	27.64	97.2	66.33	7	82.92	7.5
HLCW-50-1 (139)	22.04	77.5	52.89	5.8	66.11	6.3
HLCW-50-1 (195)	31.99	112.5	76.77	7.8	95.97	8.3
HLCW-50-1 (197)	31.42	110.5	75.41	7.6	94.26	8.1
HLCW-60-1 (170)	27.67	97.3	66.40	6.8	83.00	7.3
HLCW-60-1 (220)	36.08	126.9	86.60	8.2	108.25	8.7
HLCW-60-1 (227)	37.02	130.2	88.85	8	111.07	8.5
HLCW-70-1 (197)	31.82	111.9	76.36	7.7	95.45	8.2
HLCW-70-1 (258)	42.54	149.6	102.09	11.6	127.61	12.1
HLCW-80-1 (227)	36.91	129.8	88.58	6.4	110.72	6.9
HLCW-80-1 (295)	49.25	173.2	118.20	7.9	147.75	8.4
HLCW-80-1 (315)	51.64	181.6	123.93	8.2	154.91	8.7
HLCW-90-1 (258)	42.51	149.5	102.02	8.9	127.53	9.4
HLCW-90-1 (336)	56.07	197.2	134.57	11.4	168.22	11.9
HLCW-90-1 (359)	59.43	209	142.63	11.4	178.28	11.9
HLCW-100-1 (295)	49.36	173.6	118.47	10.4	148.09	10.9
HLCW-110-1 (336)	56.24	197.8	134.98	11.1	168.73	11.6
HLCW-110-1 (315)	53.20	187.1	127.68	10.7	159.60	11.2
HLCW-110-1 (410)	70.23	247	168.56	13	210.70	13.5
HLCW-125-1 (359)	60.57	213	145.36	8	181.70	8.5
HLCW-125-1 (470)	77.34	272	185.62	9.4	232.03	9.9
HLCW-140-1 (410)	69.95	246	167.88	9.1	209.85	9.6
HLCW-140-1 (535)	88.15	310	211.55	10.8	264.44	11.3
HLCW-160-1 (470)	75.64	266	181.53	10	226.91	10.5
HLCW-160-1 (615)	104.64	368	251.13	13	313.92	13.5
HLCW-210-1 (615)	101.23	356	242.94	10	303.68	10.5

CONDENSER ENTERING/LEAVING WATER TEMP.=33/38°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,2°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-70-2	44.41	156.2	106.60	12	133.24	12.5
HLCW-80-2	55.28	194.4	132.66	14.2	165.83	14.7
HLCW-100-2 (2*137)	44.07	155	105.78	11.8	132.22	12.3
HLCW-100-2 (2*195)	63.98	225	153.55	15.8	191.93	16.3
HLCW-100-2 (2*197)	62.84	221	150.82	15.4	188.52	15.8
HLCW-120-2 (2*170)	55.33	194.6	132.80	13.8	166.00	14.2
HLCW-120-2 (2*220)	72.17	253.8	173.20	16.6	216.50	16.9
HLCW-120-2 (2*227)	74.04	260.4	177.70	16.2	222.13	16.5
HLCW-140-2 (2*197)	63.64	223.8	152.73	15.6	190.91	15.9
HLCW-140-2 (2*258)	85.08	299.2	204.18	23.4	255.23	23.7
HLCW-160-2 (2*227)	73.82	259.6	177.16	12.9	221.45	13.3
HLCW-160-2 (2*295)	98.50	346.4	236.39	15.9	295.49	16.3
HLCW-160-2 (2*315)	103.27	363.2	247.86	16.4	309.82	16.9
HLCW-180-2 (2*258)	85.02	299	204.05	17.8	255.06	18.3
HLCW-180-2 (2*336)	112.15	394.4	269.15	22.8	336.44	23.3
HLCW-180-2 (2*359)	118.86	418	285.25	22.8	356.57	23.3
HLCW-200-2 (2*295)	98.72	347.2	236.94	20.8	296.17	21.3
HLCW-220-2 (2*336)	112.49	395.6	269.97	22	337.46	22.5
HLCW-220-2 (2*315)	106.40	374.2	255.36	21.2	319.21	21.7
HLCW-220-2 (2*410)	140.47	494	337.12	25.8	421.40	26.3
HLCW-250-2 (2*359)	121.13	426	290.71	15.8	363.39	16.3
HLCW-250-2 (2*470)	154.68	544	371.24	18.6	464.05	19.1
HLCW-280-2 (2*410)	139.90	492	335.75	18.1	419.69	18.5
HLCW-280-2 (2*535)	176.29	620	423.11	21.5	528.88	21.9
HLCW-320-2 (2*470)	151.27	532	363.05	19.9	453.81	20.3
HLCW-320-2 (2*615)	209.28	736	502.27	25.9	627.83	26.3
HLCW-420-2 (2*615)	202.45	712	485.89	19.9	607.36	20.3

CONDENSER ENTERING/LEAVING WATER TEMP.=33/38°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,4°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-35-1	22.41	78.8	53.78	6	67.22	6.5
HLCW-40-1	27.87	98	66.88	7.1	83.60	7.6
HLCW-50-1 (139)	22.21	78.1	53.30	5.9	66.62	6.4
HLCW-50-1 (195)	32.24	113.4	77.39	7.9	96.73	8.4
HLCW-50-1 (197)	31.70	111.5	76.09	7.7	95.11	8.2
HLCW-60-1 (170)	27.87	98	66.88	6.9	83.60	7.4
HLCW-60-1 (220)	36.40	128	87.35	8.3	109.19	8.8
HLCW-60-1 (227)	37.33	131.3	89.60	8.1	112.00	8.6
HLCW-70-1 (197)	32.10	112.9	77.05	7.8	96.31	8.3
HLCW-70-1 (258)	42.91	150.9	102.98	11.7	128.72	12.2
HLCW-80-1 (227)	37.22	130.9	89.33	6.5	111.66	7
HLCW-80-1 (295)	49.65	174.6	119.15	8	148.94	8.5
HLCW-80-1 (315)	52.09	183.2	125.02	8.3	156.28	8.8
HLCW-90-1 (258)	42.85	150.7	102.84	9	128.55	9.5
HLCW-90-1 (336)	56.56	198.9	135.73	11.5	169.67	12
HLCW-90-1 (359)	60.00	211	143.99	11.5	179.99	12
HLCW-100-1 (295)	49.76	175	119.42	10.5	149.28	11
HLCW-110-1 (336)	56.73	199.5	136.14	11.2	170.18	11.7
HLCW-110-1 (315)	53.63	188.6	128.71	10.8	160.88	11.3
HLCW-110-1 (410)	70.80	249	169.92	13.1	212.41	13.6
HLCW-125-1 (359)	61.13	215	146.72	8.1	183.40	8.6
HLCW-125-1 (470)	78.19	275	187.67	9.5	234.58	10
HLCW-140-1 (410)	70.52	248	169.24	9.2	211.55	9.7
HLCW-140-1 (535)	89.00	313	213.60	10.9	267.00	11.4
HLCW-160-1 (470)	76.49	269	183.57	10.1	229.47	10.6
HLCW-160-1 (615)	105.49	371	253.18	13.1	316.48	13.6
HLCW-210-1 (615)	104.64	368	251.13	10.1	313.92	10.6

CONDENSER ENTERING/LEAVING WATER TEMP.=33/38°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,4°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-70-2	44.81	157.6	107.55	12.1	134.44	12.6
HLCW-80-2	55.73	196	133.76	14.3	167.19	14.8
HLCW-100-2 (2*137)	44.41	156.2	106.60	11.9	133.24	12.4
HLCW-100-2 (2*195)	64.49	226.8	154.77	15.9	193.47	16.4
HLCW-100-2 (2*197)	63.41	223	152.18	15.5	190.23	15.9
HLCW-120-2 (2*170)	55.73	196	133.76	13.9	167.19	14.3
HLCW-120-2 (2*220)	72.79	256	174.70	16.7	218.38	17
HLCW-120-2 (2*227)	74.67	262.6	179.21	16.3	224.01	16.6
HLCW-140-2 (2*197)	64.21	225.8	154.09	15.7	192.62	16
HLCW-140-2 (2*258)	85.82	301.8	205.96	23.5	257.45	23.8
HLCW-160-2 (2*227)	74.44	261.8	178.66	13	223.32	13.4
HLCW-160-2 (2*295)	99.29	349.2	238.30	16	297.88	16.4
HLCW-160-2 (2*315)	104.18	366.4	250.04	16.5	312.55	17
HLCW-180-2 (2*258)	85.70	301.4	205.68	17.9	257.10	18.4
HLCW-180-2 (2*336)	113.11	397.8	271.47	22.9	339.34	23.4
HLCW-180-2 (2*359)	119.99	422	287.98	22.9	359.98	23.4
HLCW-200-2 (2*295)	99.52	350	238.85	20.9	298.56	21.4
HLCW-220-2 (2*336)	113.45	399	272.29	22.1	340.36	22.6
HLCW-220-2 (2*315)	107.25	377.2	257.41	21.3	321.76	21.8
HLCW-220-2 (2*410)	141.60	498	339.85	25.9	424.81	26.4
HLCW-250-2 (2*359)	122.27	430	293.44	15.9	366.81	16.4
HLCW-250-2 (2*470)	156.39	550	375.34	18.7	469.17	19.2
HLCW-280-2 (2*410)	141.04	496	338.48	18.2	423.11	18.6
HLCW-280-2 (2*535)	178.00	626	427.20	21.6	534.00	22
HLCW-320-2 (2*470)	152.98	538	367.15	20	458.93	20.4
HLCW-320-2 (2*615)	210.98	742	506.36	26	632.95	26.4
HLCW-420-2 (2*615)	209.28	736	502.27	20	627.83	20.4

CONDENSER ENTERING/LEAVING WATER TEMP.=36/41°C						
TABLE-1-LEAVING CHILLED WATER TEMP.= 5,5°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-35-1	19.79	69.6	47.50	5.5	59.37	5.9
HLCW-40-1	24.71	86.9	59.30	6.6	74.13	7
HLCW-50-1 (139)	19.71	69.3	47.29	5.4	59.12	5.8
HLCW-50-1 (195)	28.58	100.5	68.58	7.4	85.73	7.8
HLCW-50-1 (197)	27.87	98	66.88	7.2	83.60	7.6
HLCW-60-1 (170)	24.71	86.9	59.30	6.4	74.13	6.8
HLCW-60-1 (220)	32.22	113.3	77.32	7.8	96.65	8.2
HLCW-60-1 (227)	32.84	115.5	78.82	7.6	98.53	8
HLCW-70-1 (197)	28.26	99.4	67.83	7.3	84.79	7.7
HLCW-70-1 (258)	37.76	132.8	90.63	11.2	113.28	11.6
HLCW-80-1 (227)	32.70	115	78.48	6	98.10	6.4
HLCW-80-1 (295)	44.05	154.9	105.71	7.5	132.14	7.9
HLCW-80-1 (315)	46.21	162.5	110.89	7.8	138.62	8.2
HLCW-90-1 (258)	37.90	133.3	90.97	8.5	113.71	8.9
HLCW-90-1 (336)	50.16	176.4	120.38	11	150.48	11.4
HLCW-90-1 (359)	53.31	187.5	127.96	11	159.94	11.4
HLCW-100-1 (295)	44.22	155.5	106.12	10	132.65	10.4
HLCW-110-1 (336)	50.36	177.1	120.86	10.7	151.07	11.1
HLCW-110-1 (315)	47.68	167.7	114.44	10.3	143.05	10.7
HLCW-110-1 (410)	62.84	221	150.82	12.6	188.52	13
HLCW-125-1 (359)	54.37	191.2	130.48	7.6	163.10	8
HLCW-125-1 (470)	69.38	244	166.51	9	208.14	9.4
HLCW-140-1 (410)	62.84	221	150.82	8.7	188.52	9.1
HLCW-140-1 (535)	78.76	277	189.03	10.4	236.29	10.8
HLCW-160-1 (470)	67.67	238	162.42	9.6	203.02	10
HLCW-160-1 (615)	93.55	329	224.52	12.6	280.65	13
HLCW-210-1 (615)	92.98	327	223.15	9.6	278.94	10

CONDENSER ENTERING/LEAVING WATER TEMP.=36/41°C						
TABLE-1-LEAVING CHILLED WATER TEMP.= 5,5°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-70-2	39.58	139.2	94.99	11.6	118.74	12
HLCW-80-2	49.42	173.8	118.61	13.8	148.26	14.2
HLCW-100-2 (2*137)	39.41	138.6	94.58	11.4	118.23	11.8
HLCW-100-2 (2*195)	57.15	201	137.17	15.4	171.46	15.8
HLCW-100-2 (2*197)	55.73	196	133.76	15	167.19	15.3
HLCW-120-2 (2*170)	49.42	173.8	118.61	13.4	148.26	13.7
HLCW-120-2 (2*220)	64.43	226.6	154.64	16.2	193.30	16.4
HLCW-120-2 (2*227)	65.68	231	157.64	15.8	197.05	16
HLCW-140-2 (2*197)	56.53	198.8	135.67	15.2	169.58	15.4
HLCW-140-2 (2*258)	75.52	265.6	181.25	23	226.57	23.2
HLCW-160-2 (2*227)	65.40	230	156.96	12.5	196.20	12.8
HLCW-160-2 (2*295)	88.09	309.8	211.42	15.5	264.27	15.8
HLCW-160-2 (2*315)	92.41	325	221.79	16	277.24	16.4
HLCW-180-2 (2*258)	75.81	266.6	181.94	17.4	227.42	17.8
HLCW-180-2 (2*336)	100.32	352.8	240.76	22.4	300.95	22.8
HLCW-180-2 (2*359)	106.63	375	255.91	22.4	319.89	22.8
HLCW-200-2 (2*295)	88.43	311	212.24	20.4	265.29	20.8
HLCW-220-2 (2*336)	100.71	354.2	241.72	21.6	302.14	22
HLCW-220-2 (2*315)	95.37	335.4	228.89	20.8	286.11	21.2
HLCW-220-2 (2*410)	125.68	442	301.63	25.4	377.04	25.8
HLCW-250-2 (2*359)	108.73	382.4	260.96	15.4	326.20	15.8
HLCW-250-2 (2*470)	138.76	488	333.02	18.2	416.28	18.6
HLCW-280-2 (2*410)	125.68	442	301.63	17.6	377.04	18
HLCW-280-2 (2*535)	157.53	554	378.07	21	472.58	21.4
HLCW-320-2 (2*470)	135.35	476	324.84	19.4	406.04	19.8
HLCW-320-2 (2*615)	187.10	658	449.04	25.4	561.30	25.8
HLCW-420-2 (2*615)	185.96	654	446.31	19.4	557.88	19.8

CONDENSER ENTERING/LEAVING WATER TEMP.=36/41°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=6,6°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-35-1	20.76	73	49.82	5.6	62.27	6
HLCW-40-1	25.88	91	62.10	6.7	77.63	7.1
HLCW-50-1 (139)	20.64	72.6	49.54	5.5	61.93	5.9
HLCW-50-1 (195)	29.91	105.2	71.79	7.5	89.74	7.9
HLCW-50-1 (197)	29.26	102.9	70.22	7.3	87.78	7.7
HLCW-60-1 (170)	25.90	91.1	62.17	6.5	77.71	6.9
HLCW-60-1 (220)	33.75	118.7	81.00	7.9	101.26	8.3
HLCW-60-1 (227)	34.49	121.3	82.78	7.7	103.47	8.1
HLCW-70-1 (197)	29.66	104.3	71.18	7.4	88.97	7.8
HLCW-70-1 (258)	39.64	139.4	95.13	11.3	118.91	11.7
HLCW-80-1 (227)	34.35	120.8	82.44	6.1	103.05	6.5
HLCW-80-1 (295)	46.15	162.3	110.76	7.6	138.45	8
HLCW-80-1 (315)	48.45	170.4	116.29	7.9	145.36	8.3
HLCW-90-1 (258)	39.75	139.8	95.40	8.6	119.25	9
HLCW-90-1 (336)	52.55	184.8	126.11	11.1	157.64	11.5
HLCW-90-1 (359)	55.82	196.3	133.96	11.1	167.45	11.5
HLCW-100-1 (295)	46.32	162.9	111.17	10.1	138.96	10.5
HLCW-110-1 (336)	52.75	185.5	126.59	10.8	158.24	11.2
HLCW-110-1 (315)	49.90	175.5	119.77	10.4	149.71	10.8
HLCW-110-1 (410)	65.68	231	157.64	12.7	197.05	13.1
HLCW-125-1 (359)	56.87	200	136.49	7.7	170.61	8.1
HLCW-125-1 (470)	72.51	255	174.02	9.1	217.52	9.5
HLCW-140-1 (410)	65.68	231	157.64	8.8	197.05	9.2
HLCW-140-1 (535)	82.46	290	197.90	10.5	247.38	10.9
HLCW-160-1 (470)	71.09	250	170.61	9.7	213.26	10.1
HLCW-160-1 (615)	98.10	345	235.44	12.7	294.30	13.1
HLCW-210-1 (615)	97.25	342	233.39	9.7	291.74	10.1

CONDENSER ENTERING/LEAVING WATER TEMP.=36/41°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=6,6°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-70-2	41.51	146	99.63	11.7	124.54	12.1
HLCW-80-2	51.75	182	124.20	13.9	155.25	14.3
HLCW-100-2 (2*137)	41.29	145.2	99.09	11.5	123.86	11.9
HLCW-100-2 (2*195)	59.83	210.4	143.58	15.5	179.48	15.9
HLCW-100-2 (2*197)	58.52	205.8	140.44	15.1	175.55	15.4
HLCW-120-2 (2*170)	51.81	182.2	124.34	13.5	155.42	13.8
HLCW-120-2 (2*220)	67.50	237.4	162.01	16.3	202.51	16.5
HLCW-120-2 (2*227)	68.98	242.6	165.56	15.9	206.95	16.1
HLCW-140-2 (2*197)	59.31	208.6	142.35	15.3	177.94	15.5
HLCW-140-2 (2*258)	79.28	278.8	190.26	23.1	237.83	23.3
HLCW-160-2 (2*227)	68.70	241.6	164.87	12.6	206.09	12.9
HLCW-160-2 (2*295)	92.30	324.6	221.52	15.6	276.90	15.9
HLCW-160-2 (2*315)	96.90	340.8	232.57	16.1	290.71	16.5
HLCW-180-2 (2*258)	79.50	279.6	190.81	17.5	238.51	17.9
HLCW-180-2 (2*336)	105.09	369.6	252.23	22.5	315.28	22.9
HLCW-180-2 (2*359)	111.63	392.6	267.92	22.5	334.90	22.9
HLCW-200-2 (2*295)	92.64	325.8	222.34	20.5	277.92	20.9
HLCW-220-2 (2*336)	105.49	371	253.18	21.7	316.48	22.1
HLCW-220-2 (2*315)	99.81	351	239.53	20.9	299.42	21.3
HLCW-220-2 (2*410)	131.37	462	315.28	25.5	394.10	25.9
HLCW-250-2 (2*359)	113.74	400	272.97	15.5	341.21	15.9
HLCW-250-2 (2*470)	145.02	510	348.04	18.3	435.05	18.7
HLCW-280-2 (2*410)	131.37	462	315.28	17.7	394.10	18.1
HLCW-280-2 (2*535)	164.92	580	395.81	21.1	494.76	21.5
HLCW-320-2 (2*470)	142.17	500	341.21	19.5	426.52	19.9
HLCW-320-2 (2*615)	196.20	690	470.88	25.5	588.59	25.9
HLCW-420-2 (2*615)	194.49	684	466.78	19.5	583.48	19.9

CONDENSER ENTERING/LEAVING WATER TEMP.=36/41°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,2°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-35-1	21.30	74.9	51.11	5.8	63.89	6.10
HLCW-40-1	26.53	93.3	63.67	6.9	79.59	7.20
HLCW-50-1 (139)	21.16	74.4	50.77	5.7	63.47	6.00
HLCW-50-1 (195)	30.68	107.9	73.63	7.7	92.04	8.00
HLCW-50-1 (197)	30.03	105.6	72.06	7.5	90.08	7.80
HLCW-60-1 (170)	26.53	93.3	63.67	6.7	79.59	7.00
HLCW-60-1 (220)	34.60	121.7	83.05	8.1	103.81	8.40
HLCW-60-1 (227)	35.40	124.5	84.96	7.9	106.20	8.20
HLCW-70-1 (197)	30.45	107.1	73.09	7.6	91.36	7.90
HLCW-70-1 (258)	40.69	143.1	97.66	11.5	122.07	11.80
HLCW-80-1 (227)	35.26	124	84.62	6.3	105.78	6.60
HLCW-80-1 (295)	47.32	166.4	113.56	7.8	141.95	8.10
HLCW-80-1 (315)	49.68	174.7	119.22	8.1	149.03	8.40
HLCW-90-1 (258)	40.78	143.4	97.86	8.8	122.33	9.10
HLCW-90-1 (336)	53.91	189.6	129.39	11.3	161.74	11.60
HLCW-90-1 (359)	57.15	201	137.17	11.3	171.46	11.60
HLCW-100-1 (295)	47.49	167	113.97	10.3	142.46	10.60
HLCW-110-1 (336)	54.08	190.2	129.80	11	162.25	11.30
HLCW-110-1 (315)	51.13	179.8	122.70	10.6	153.38	10.90
HLCW-110-1 (410)	67.39	237	161.74	12.9	202.17	13.20
HLCW-125-1 (359)	58.29	205	139.90	7.9	174.87	8.20
HLCW-125-1 (470)	74.50	262	178.80	9.3	223.50	9.60
HLCW-140-1 (410)	67.39	237	161.74	9	202.17	9.30
HLCW-140-1 (535)	84.73	298	203.36	10.7	254.20	11.00
HLCW-160-1 (470)	72.79	256	174.70	9.9	218.38	10.20
HLCW-160-1 (615)	100.37	353	240.90	12.9	301.12	13.20
HLCW-210-1 (615)	99.81	351	239.53	9.9	299.42	10.20

CONDENSER ENTERING/LEAVING WATER TEMP.=36/41°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,2°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-70-2	42.59	149.8	102.23	11.9	127.78	12.20
HLCW-80-2	53.06	186.6	127.34	14.1	159.18	14.40
HLCW-100-2 (2*137)	42.31	148.8	101.55	11.7	126.93	12.00
HLCW-100-2 (2*195)	61.36	215.8	147.27	15.7	184.08	16.00
HLCW-100-2 (2*197)	60.05	211.2	144.13	15.3	180.16	15.50
HLCW-120-2 (2*170)	53.06	186.6	127.34	13.7	159.18	13.90
HLCW-120-2 (2*220)	69.21	243.4	166.10	16.5	207.63	16.60
HLCW-120-2 (2*227)	70.80	249	169.92	16.1	212.41	16.20
HLCW-140-2 (2*197)	60.91	214.2	146.18	15.5	182.72	15.60
HLCW-140-2 (2*258)	81.38	286.2	195.31	23.3	244.14	23.40
HLCW-160-2 (2*227)	70.52	248	169.24	12.8	211.55	13.00
HLCW-160-2 (2*295)	94.63	332.8	227.11	15.8	283.89	16.00
HLCW-160-2 (2*315)	99.35	349.4	238.44	16.3	298.05	16.60
HLCW-180-2 (2*258)	81.55	286.8	195.72	17.7	244.65	18.00
HLCW-180-2 (2*336)	107.82	379.2	258.78	22.7	323.47	23.00
HLCW-180-2 (2*359)	114.31	402	274.34	22.7	342.92	23.00
HLCW-200-2 (2*295)	94.97	334	227.93	20.7	284.91	21.00
HLCW-220-2 (2*336)	108.16	380.4	259.60	21.9	324.49	22.20
HLCW-220-2 (2*315)	102.25	359.6	245.40	21.1	306.75	21.40
HLCW-220-2 (2*410)	134.78	474	323.47	25.7	404.34	26.00
HLCW-250-2 (2*359)	116.58	410	279.80	15.7	349.74	16.00
HLCW-250-2 (2*470)	149.00	524	357.59	18.5	446.99	18.80
HLCW-280-2 (2*410)	134.78	474	323.47	17.9	404.34	18.20
HLCW-280-2 (2*535)	169.47	596	406.73	21.3	508.41	21.60
HLCW-320-2 (2*470)	145.58	512	349.40	19.7	436.75	20.00
HLCW-320-2 (2*615)	200.75	706	481.79	25.7	602.24	26.00
HLCW-420-2 (2*615)	199.61	702	479.06	19.7	598.83	20.00

CONDENSER ENTERING/LEAVING WATER TEMP.=36/41°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,4°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-35-1	21.47	75.5	51.52	5.9	64.40	6.20
HLCW-40-1	26.76	94.1	64.22	7	80.27	7.30
HLCW-50-1 (139)	21.33	75	51.18	5.8	63.98	6.10
HLCW-50-1 (195)	30.94	108.8	74.25	7.8	92.81	8.10
HLCW-50-1 (197)	30.31	106.6	72.75	7.6	90.93	7.90
HLCW-60-1 (170)	26.76	94.1	64.22	6.8	80.27	7.10
HLCW-60-1 (220)	34.89	122.7	83.73	8.2	104.67	8.50
HLCW-60-1 (227)	35.71	125.6	85.71	8	107.14	8.30
HLCW-70-1 (197)	30.71	108	73.70	7.7	92.13	8.00
HLCW-70-1 (258)	41.03	144.3	98.47	11.6	123.09	11.90
HLCW-80-1 (227)	35.54	125	85.30	6.4	106.63	6.70
HLCW-80-1 (295)	47.71	167.8	114.51	7.9	143.14	8.20
HLCW-80-1 (315)	50.10	176.2	120.24	8.2	150.30	8.50
HLCW-90-1 (258)	41.12	144.6	98.68	8.9	123.35	9.20
HLCW-90-1 (336)	54.37	191.2	130.48	11.4	163.10	11.70
HLCW-90-1 (359)	57.72	203	138.53	11.4	173.17	11.70
HLCW-100-1 (295)	47.88	168.4	114.92	10.4	143.65	10.70
HLCW-110-1 (336)	54.54	191.8	130.89	11.1	163.61	11.40
HLCW-110-1 (315)	51.55	181.3	123.72	10.7	154.66	11.00
HLCW-110-1 (410)	67.96	239	163.10	13	203.88	13.30
HLCW-125-1 (359)	58.86	207	141.26	8	176.58	8.30
HLCW-125-1 (470)	75.07	264	180.16	9.4	225.20	9.70
HLCW-140-1 (410)	67.96	239	163.10	9.1	203.88	9.40
HLCW-140-1 (535)	85.30	300	204.73	10.8	255.91	11.10
HLCW-160-1 (470)	73.36	258	176.07	10	220.08	10.30
HLCW-160-1 (615)	101.23	356	242.94	13	303.68	13.30
HLCW-210-1 (615)	100.37	353	240.90	10	301.12	10.30

CONDENSER ENTERING/LEAVING WATER TEMP.=36/41°C						
TABLE-1 -LEAVING CHILLED WATER TEMP.=7,4°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-70-2	42.94	151	103.05	12	128.81	12.30
HLCW-80-2	53.51	188.2	128.43	14.2	160.54	14.50
HLCW-100-2 (2*137)	42.65	150	102.36	11.8	127.96	12.10
HLCW-100-2 (2*195)	61.87	217.6	148.50	15.8	185.62	16.10
HLCW-100-2 (2*197)	60.62	213.2	145.49	15.4	181.87	15.60
HLCW-120-2 (2*170)	53.51	188.2	128.43	13.8	160.54	14.00
HLCW-120-2 (2*220)	69.78	245.4	167.47	16.6	209.33	16.70
HLCW-120-2 (2*227)	71.43	251.2	171.43	16.2	214.28	16.30
HLCW-140-2 (2*197)	61.42	216	147.40	15.6	184.26	15.70
HLCW-140-2 (2*258)	82.06	288.6	196.95	23.4	246.19	23.50
HLCW-160-2 (2*227)	71.09	250	170.61	12.9	213.26	13.10
HLCW-160-2 (2*295)	95.43	335.6	229.02	15.9	286.28	16.10
HLCW-160-2 (2*315)	100.20	352.4	240.49	16.4	300.61	16.70
HLCW-180-2 (2*258)	82.23	289.2	197.36	17.8	246.70	18.10
HLCW-180-2 (2*336)	108.73	382.4	260.96	22.8	326.20	23.10
HLCW-180-2 (2*359)	115.44	406	277.07	22.8	346.33	23.10
HLCW-200-2 (2*295)	95.77	336.8	229.84	20.8	287.30	21.10
HLCW-220-2 (2*336)	109.07	383.6	261.78	22	327.22	22.30
HLCW-220-2 (2*315)	103.10	362.6	247.45	21.2	309.31	21.50
HLCW-220-2 (2*410)	135.92	478	326.20	25.8	407.75	26.10
HLCW-250-2 (2*359)	117.72	414	282.53	15.8	353.16	16.10
HLCW-250-2 (2*470)	150.13	528	360.32	18.6	450.40	18.90
HLCW-280-2 (2*410)	135.92	478	326.20	18	407.75	18.30
HLCW-280-2 (2*535)	170.61	600	409.46	21.4	511.82	21.70
HLCW-320-2 (2*470)	146.72	516	352.13	19.8	440.17	20.10
HLCW-320-2 (2*615)	202.45	712	485.89	25.8	607.36	26.10
HLCW-420-2 (2*615)	200.75	706	481.79	19.8	602.24	20.10

ELECTRICAL DATA (R-134a)				
chiller MODEL	Nominal Comp. power (HP)	MRA (Amp)	LRA (Amp) (D/DD)	MAX CONSE POWER (kw)
HLCW-35-1	35	39.5	153/305	34
HLCW-40-1	40	46.7	182/338	41
HLCW-50-1 (139)	50	41.3	218/411	52
HLCW-50-1 (195)	50	51.9	218/411	51
HLCW-50-1 (197)	50	53.9	206/355	52
HLCW-60-1 (170)	60	50.7	269/508	65
HLCW-60-1 (220)	60	59	269/508	56
HLCW-60-1 (227)	60	62.6	267/449	65
HLCW-70-1 (197)	70	57.8	290/485	78
HLCW-70-1 (258)	70	70.5	290/485	78
HLCW-80-1 (227)	80	64.1	350/585	88
HLCW-80-1 (295)	80	79.3	350/585	88
HLCW-80-1 (315)	80	78.5	394/606	88
HLCW-90-1 (258)	90	70.3	423/686	96
HLCW-90-1 (336)	90	86.9	423/686	96
HLCW-90-1 (359)	90	91.7	439/675	96
HLCW-100-1 (295)	100	80.8	479/790	102
HLCW-110-1 (336)	110	92.3	516/887	112
HLCW-110-1 (315)	110	89.2	520/801	112
HLCW-110-1 (410)	110	109.1	520/801	110
HLCW-125-1 (359)	125	103.1	612/943	132
HLCW-125-1 (470)	125	124	612/943	120
HLCW-140-1 (410)	140	116	665/1023	150
HLCW-140-1 (535)	140	139.8	665/1023	131
HLCW-160-1 (470)	160	124.3	729/1114	160
HLCW-160-1 (615)	160	158.5	436/1364	155
HLCW-210-1 (615)	180	153.6	757/1181	186
HLCW-70-2	2*35	79	2*(153/305)	68

ELECTRICAL DATA (R-134a)				
chiller MODEL	Nominal Comp. power (HP)	MRA (Amp)	LRA (Amp) (D/DD)	MAX CONSE POWER (kw)
HLCW-80-2	2*40	93.4	2*(182/338)	82
HLCW-100-2 (2*137)	2*50	82.6	2*(218/411)	104
HLCW-100-2 (2*195)	2*50	103.8	2*(218/411)	102
HLCW-100-2 (2*197)	2*50	107.8	2*(206/355)	104
HLCW-120-2 (2*170)	2*60	101.4	2*(269/508)	130
HLCW-120-2 (2*220)	2*60	118	2*(269/508)	112
HLCW-120-2 (2*227)	2*60	125.2	2*(267/449)	130
HLCW-140-2 (2*197)	2*70	115.6	2*(290/485)	156
HLCW-140-2 (2*258)	2*70	141	2*(290/485)	156
HLCW-160-2 (2*227)	2*80	128.2	2*(350/585)	176
HLCW-160-2 (2*295)	2*80	158.6	2*(350/585)	176
HLCW-160-2 (2*315)	2*80	157	2*(394/606)	176
HLCW-180-2 (2*258)	2*90	140.6	2*(423/686)	192
HLCW-180-2 (2*258)	2*90	173.8	2*(423/686)	192
HLCW-180-2 (2*359)	2*90	183.4	2*(439/675)	192
HLCW-200-2 (2*295)	2*100	161.6	2*(479/790)	204
HLCW-220-2 (2*336)	2*110	184.6	2*(516/887)	224
HLCW-220-2 (2*315)	2*110	178.4	2*(520/801)	224
HLCW-220-2 (2*410)	2*110	218.2	2*(520/801)	220
HLCW-250-2 (2*359)	2*125	206.2	2*(612/943)	264
HLCW-250-2 (2*470)	2*125	248	2*(612/943)	240
HLCW-280-2 (2*410)	2*140	232	2*(665/1023)	300
HLCW-280-2 (2*535)	2*140	279.6	2*(665/1023)	262
HLCW-320-2 (2*470)	2*160	248.6	2*(729/1114)	320
HLCW-320-2 (2*615)	2*160	317	2*(436/1364)	310
HLCW-360-2 CSH8593-180Y	2*180	307.2	2*(757/1181)	372
HLCW-420-2 CSH9563-210Y	2*210	334.8	2*(586/1853)	492

SCROLL



Engineering Specifications-50 Hz (R-134a)-copeland

Model	HLCW	HLCW-5-1	HLCW-6-1	HLCW-7-1	HCLA-8-1	HLCW-9-1	HLCW-10-1
cooling capacity	TR	2.77	3.34	3.70	4.45	4.99	5.83
	kW	9.75	11.75	13	15.65	17.55	20.5
Compressor	Copeland Scroll						
QTY		1	1	1	1	1	1
Oil Charge	USGal	0.45	0.48	0.48	0.71	0.90	0.90
	Litre	1.7	1.8	1.8	2.7	3.4	3.4
Condenser	Condenser shell & tube						
QTY		1					
Ref. Circuits		1	1	1	1	1	1
Water Volume	GPM	8.32	10.02	11.09	13.35	14.97	17.49
	Litre/s	0.52	0.63	0.70	0.84	0.94	1.10
Evaporator	Direct Expansion shell & tube						
QTY		1					
Ref. Circuits		1	1	1	1	1	1
Water Volume	GPM	6.65	8.02	8.87	10.68	11.98	13.99
	Litre/s	0.42	0.51	0.56	0.67	0.76	0.88
Refrigerant Charge (R134a)(Approx)	Lb	11.0	13.2	15.4	17.6	19.8	22.0
	Kg	5	6	7	8	9	10
Operating Weight (Approx)	Lb	771	771	771	771	771	992
	Kg	350	350	350	350	350	450

Model	HLCW	HLCW-12-1	HLCW-13-1	HLCW-15-1	HLCW-20-1	HLCW-25-1	HLCW-30-1
cooling capacity	TR	6.74	7.19	8.62	11.09	13.71	17.23
	kW	23.7	25.3	30.3	39	48.2	60.6
Compressor	Copeland Scroll						
QTY		1	1	1	1	1	1
Oil Charge	USGal	0.90	0.90	1.03	1.24	1.80	1.66
	Litre	3.4	3.4	3.9	4.7	6.8	6.3
Condenser	Condenser shell & tube						
QTY		1					
Ref. Circuits		1	1	1	1	1	1
Water Volume	GPM	20.22	21.58	25.85	33.27	41.12	51.69
	Litre/s	1.28	1.36	1.63	2.10	2.59	3.26
Evaporator	Direct Expansion shell & tube						
QTY		1					
Ref. Circuits		1	1	1	1	1	1
Water Volume	GPM	16.17	17.27	20.68	26.61	32.89	41.36
	Litre/s	1.02	1.09	1.30	1.68	2.08	2.61
Refrigerant Charge (R134a)(Approx)	Lb	26.4	28.7	33.1	44.1	55.1	66.1
	Kg	12	13	15	20	25	30
Operating Weight (Approx)	Lb	991.8	991.8	1102	1653	1653	1763.2
	Kg	450	450	500	750	750	800

Model	HLCW	HLCW-10-2	HLCW-12-2	HLCW-14-2	HCLA-16-2	HLCW-18-2	HLCW-20-2
cooling capacity	TR	5.54	6.68	7.39	8.90	9.98	11.66
	kW	19.5	23.5	26	31.3	35.1	41
Compressor	Copeland Scroll						
QTY		2	2	2	2	2	2
Oil Charge	USGal	0.90	0.95	0.95	1.43	1.80	1.80
	Litre	3.4	3.6	3.6	5.4	6.8	6.8
Condenser	Condenser shell & tube						
QTY		1					
Ref. Circuits		2	2	2	2	2	2
Water Volume	GPM	33.27	40.09	44.36	53.40	59.88	69.95
	Litre/s	2.10	2.53	2.80	3.37	3.78	4.41
Evaporator	Direct Expansion shell & tube						
QTY		1					
Ref. Circuits		2	2	2	2	2	2
Water Volume	GPM	26.61	32.07	35.49	42.72	47.91	55.96
	Litre/s	1.68	2.02	2.24	2.70	3.02	3.53
Refrigerant Charge (R134a)(Approx)	Lb	22.0	26.4	30.9	35.3	39.7	44.1
	Kg	10	12	14	16	18	20
Operating Weight (Approx)	Lb	1322	1322	1322	1433	1433	1433
	Kg	600	600	600	650	650	650

Model	HLCW	HLCW-24-2	HLCW-26-2	HLCW-30-2	HLCW-40-2	HLCW-50-2	HLCW-60-2
cooling capacity	TR	13.48	14.39	17.23	22.18	27.41	34.46
	kW	47.4	50.6	60.6	78	96.4	121.2
Compressor	Copeland Scroll						
QTY		2	2	2	2	2	2
Oil Charge	USGal	1.80	1.80	2.06	2.48	3.59	3.33
	Litre	6.8	6.8	7.8	9.4	13.6	12.6
Condenser	Condenser shell & tube						
QTY		1					
Ref. Circuits		2	2	2	2	2	2
Water Volume	GPM	40.43	43.16	51.69	66.54	82.23	103.39
	Litre/s	2.55	2.72	3.26	4.20	5.19	6.52
Evaporator	Direct Expansion shell & tube						
QTY		1					
Ref. Circuits		2	2	2	2	2	2
Water Volume	GPM	32.35	34.53	41.36	53.23	65.79	82.71
	Litre/s	2.04	2.18	2.61	3.36	4.15	5.22
Refrigerant Charge (R134a)(Approx)	Lb	52.9	57.3	66.1	88.2	110.2	132.2
	Kg	24	26	30	40	50	60
Operating Weight (Approx)	Lb	1433	1543	1763	2094	2094	2424
	Kg	650	700	800	950	950	1100

Model	HLCW	HLCW-20-4	HLCW-24-4	HLCW-28-4	HCLA-32-4	HLCW-36-4	HLCW-40-4
cooling capacity	TR	11.09	13.36	14.79	17.80	19.96	23.32
	kW	39	47	52	62.6	70.2	82
Compressor	Copeland Scroll						
QTY		4	4	4	4	4	4
Oil Charge	USGal	1.80	1.90	1.90	2.85	3.59	3.59
	Litre	6.8	7.2	7.2	10.8	13.6	13.6
Condenser	Condenser shell & tube						
QTY		1					
Ref. Circuits		2	2	2	2	2	2
Water Volume	GPM	33.27	40.09	44.36	53.40	59.88	69.95
	Litre/s	2.10	2.53	2.80	3.37	3.78	4.41
Evaporator	Direct Expansion shell & tube						
QTY		1					
Ref. Circuits		2	2	2	2	2	2
Water Volume	GPM	26.61	32.07	35.49	42.72	47.91	55.96
	Litre/s	1.68	2.02	2.24	2.70	3.02	3.53
Refrigerant Charge (R134a)(Approx)	Lb	22.0	26.4	30.9	35.3	39.7	44.1
	Kg	10	12	14	16	18	20
Operating Weight (Approx)	Lb	1873	1873	1984	1984	2094	2094
	Kg	850	850	900	900	950	950

Model	HLCW	HLCW-48-4	HLCW-52-4	HLCW-60-4	HLCW-80-4	HLCW-100-4	HLCW-120-4
cooling capacity	TR	13.48	14.39	17.23	22.18	27.41	34.46
	kW	47.4	50.6	60.6	78	96.4	121.2
Compressor	Copeland Scroll						
QTY		4	4	4	4	4	4
Oil Charge	USGal	3.59	3.59	4.12	4.97	7.19	6.66
	Litre	13.6	13.6	15.6	18.8	27.2	25.2
Condenser	Condenser shell & tube						
QTY		1					
Ref. Circuits		2	2	2	2	2	2
Water Volume	GPM	40.43	43.16	51.69	66.54	82.23	103.39
	Litre/s	2.55	2.72	3.26	4.20	5.19	6.52
Evaporator	Direct Expansion shell & tube						
QTY		1					
Ref. Circuits		2	2	2	2	2	2
Water Volume	GPM	32.35	34.53	41.36	53.23	65.79	82.71
	Litre/s	2.04	2.18	2.61	3.36	4.15	5.22
Refrigerant Charge (R134a)(Approx)	Lb	105.8	114.6	132.2	176.3	220.4	264.5
	Kg	48	52	60	80	100	120
Operating Weight (Approx)	Lb	2204	2204	2314	3086	3637	3747
	Kg	1000	1000	1050	1400	1650	1700

CONDENSER ENTERING/LEAVING WATER TEMP.=25/30°C						
TABLE-1-LEAVING CHILLED WATER TEMP.= 5,5°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	2.58	9.09	6.20	0.5	7.75	0.7
HLCW-6-1	3.11	10.95	7.47	0.6	9.34	0.8
HLCW-7-1	3.45	12.15	8.29	0.6	10.36	0.8
HCLA-8-1	4.15	14.6	9.96	0.6	12.45	0.8
HLCW-9-1	4.65	16.35	11.16	0.6	13.95	0.9
HLCW-10-1	5.46	19.2	13.10	0.8	16.38	1
HLCW-12-1	6.31	22.2	15.15	0.8	18.94	1.1
HLCW-13-1	6.80	23.9	16.31	0.9	20.39	1.2
HLCW-15-1	8.10	28.5	19.45	1.6	24.31	1.9
HLCW-20-1	10.35	36.4	24.84	2.3	31.05	2.6
HLCW-25-1	12.80	45	30.71	3.6	38.39	3.9
HLCW-30-1	16.12	56.7	38.69	6.1	48.37	6.4
HLCW-10-2	5.17	18.18	12.41	0.7	15.51	1
HLCW-12-2	6.23	21.9	14.95	0.8	18.68	1.1
HLCW-14-2	6.91	24.3	16.58	1.1	20.73	1.4
HCLA-16-2	8.30	29.2	19.93	1.6	24.91	1.9
HLCW-18-2	9.30	32.7	22.32	2	27.89	2.4
HLCW-20-2	10.92	38.4	26.21	2.5	32.76	2.8
HLCW-24-2	12.62	44.4	30.30	3.3	37.87	3.6
HLCW-26-2	13.59	47.8	32.62	3.7	40.78	4
HLCW-30-2	16.21	57	38.90	6	48.62	6.3
HLCW-40-2	20.70	72.8	49.68	10.2	62.10	10.5
HLCW-50-2	25.59	90	61.42	12.7	76.77	13
HLCW-60-2	32.24	113.4	77.39	18.2	96.73	18.5
HLCW-20-4	10.34	36.36	24.81	2.7	31.02	3
HLCW-24-4	12.45	43.8	29.89	3.3	37.36	3.6
HLCW-28-4	13.82	48.6	33.17	4.7	41.46	5
HCLA-32-4	16.61	58.4	39.85	6.1	49.82	6.7
HLCW-36-4	18.60	65.4	44.63	6.7	55.79	7.3
HLCW-40-4	21.84	76.8	52.41	9.1	65.51	9.7
HLCW-48-4	25.25	88.8	60.60	12.1	75.75	12.7
HLCW-52-4	27.18	95.6	65.24	13	81.55	13.6
HLCW-60-4	32.42	114	77.80	18.7	97.25	19.3
HLCW-80-4	41.40	145.6	99.36	19.5	124.20	20.1
HLCW-100-4	51.18	180	122.84	19.7	153.55	20.3
HLCW-120-4	64.49	226.8	154.77	20.7	193.47	21.3

CONDENSER ENTERING/LEAVING WATER TEMP.=25/30°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=6,6°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	2.70	9.51	6.49	0.6	8.11	0.8
HLCW-6-1	3.26	11.45	7.81	0.7	9.77	0.9
HLCW-7-1	3.61	12.7	8.67	0.7	10.83	0.9
HCLA-8-1	4.34	15.25	10.41	0.7	13.01	0.9
HLCW-9-1	4.86	17.1	11.67	0.7	14.59	1
HLCW-10-1	5.72	20.1	13.72	0.9	17.15	1.1
HLCW-12-1	6.57	23.1	15.76	0.9	19.71	1.2
HLCW-13-1	7.05	24.8	16.92	1	21.16	1.3
HLCW-15-1	8.42	29.6	20.20	1.7	25.25	2
HLCW-20-1	10.83	38.1	26.00	2.4	32.50	2.7
HLCW-25-1	13.39	47.1	32.14	3.7	40.18	4
HLCW-30-1	16.83	59.2	40.40	6.2	50.50	6.5
HLCW-10-2	5.41	19.02	12.98	0.8	16.22	1.1
HLCW-12-2	6.51	22.9	15.63	0.9	19.53	1.2
HLCW-14-2	7.22	25.4	17.33	1.2	21.67	1.5
HCLA-16-2	8.67	30.5	20.81	1.7	26.02	2
HLCW-18-2	9.72	34.2	23.34	2.1	29.17	2.5
HLCW-20-2	11.43	40.2	27.43	2.6	34.29	2.9
HLCW-24-2	13.14	46.2	31.53	3.4	39.41	3.7
HLCW-26-2	14.10	49.6	33.85	3.8	42.31	4.1
HLCW-30-2	16.83	59.2	40.40	6.1	50.50	6.4
HLCW-40-2	21.67	76.2	52.00	10.3	65.00	10.6
HLCW-50-2	26.79	94.2	64.28	12.8	80.36	13.1
HLCW-60-2	33.67	118.4	80.80	18.3	101.00	18.6
HLCW-20-4	10.82	38.04	25.96	2.8	32.45	3.1
HLCW-24-4	13.02	45.8	31.26	3.4	39.07	3.7
HLCW-28-4	14.44	50.8	34.67	4.8	43.33	5.1
HCLA-32-4	17.35	61	41.63	6.2	52.04	6.8
HLCW-36-4	19.45	68.4	46.68	6.8	58.35	7.4
HLCW-40-4	22.86	80.4	54.87	9.2	68.58	9.8
HLCW-48-4	26.27	92.4	63.06	12.2	78.82	12.8
HLCW-52-4	28.21	99.2	67.70	13.1	84.62	13.7
HLCW-60-4	33.67	118.4	80.80	18.8	101.00	19.4
HLCW-80-4	43.33	152.4	104.00	19.6	130.00	20.2
HLCW-100-4	53.57	188.4	128.57	19.8	160.71	20.4
HLCW-120-4	67.33	236.8	161.60	20.8	202.00	21.4

CONDENSER ENTERING/LEAVING WATER TEMP.=25/30°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,2°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	2.77	9.75	6.65	0.7	8.32	1
HLCW-6-1	3.34	11.75	8.02	0.8	10.02	1.1
HLCW-7-1	3.70	13	8.87	0.8	11.09	1.1
HCLA-8-1	4.45	15.65	10.68	0.8	13.35	1
HLCW-9-1	4.99	17.55	11.98	0.8	14.97	1.1
HLCW-10-1	5.83	20.5	13.99	1	17.49	1.1
HLCW-12-1	6.71	23.6	16.11	1	20.13	1.1
HLCW-13-1	7.19	25.3	17.27	1.1	21.58	1.2
HLCW-15-1	8.62	30.3	20.68	1.8	25.85	1.3
HLCW-20-1	11.09	39	26.61	2.5	33.27	1.4
HLCW-25-1	13.71	48.2	32.89	3.8	41.12	1.5
HLCW-30-1	17.23	60.6	41.36	6.3	51.69	2.2
HLCW-10-2	5.54	19.5	13.31	0.9	16.63	2.9
HLCW-12-2	6.68	23.5	16.04	1	20.05	4.2
HLCW-14-2	7.39	26	17.74	1.3	22.18	6.7
HCLA-16-2	8.90	31.3	21.36	1.8	26.70	1.3
HLCW-18-2	9.98	35.1	23.95	2.2	29.94	1.4
HLCW-20-2	11.66	41	27.98	2.7	34.97	1.7
HLCW-24-2	13.42	47.2	32.21	3.5	40.26	2.2
HLCW-26-2	14.39	50.6	34.53	3.9	43.16	2.7
HLCW-30-2	17.23	60.6	41.36	6.2	51.69	3.1
HLCW-40-2	22.18	78	53.23	10.4	66.54	3.9
HLCW-50-2	27.41	96.4	65.79	12.9	82.23	4.3
HLCW-60-2	34.46	121.2	82.71	18.4	103.39	6.6
HLCW-20-4	11.09	39	26.61	2.9	33.27	10.8
HLCW-24-4	13.36	47	32.07	3.5	40.09	13.3
HLCW-28-4	14.79	52	35.49	4.9	44.36	18.8
HCLA-32-4	17.80	62.6	42.72	6.3	53.40	3.3
HLCW-36-4	19.96	70.2	47.91	6.9	59.88	3.9
HLCW-40-4	23.32	82	55.96	9.3	69.95	5.3
HLCW-48-4	26.84	94.4	64.42	12.3	80.53	7
HLCW-52-4	28.78	101.2	69.06	13.2	86.33	7.6
HLCW-60-4	34.46	121.2	82.71	18.9	103.39	10
HLCW-80-4	44.36	156	106.46	19.7	133.07	13
HLCW-100-4	54.82	192.8	131.57	19.9	164.47	13.9
HLCW-120-4	68.93	242.4	165.42	20.9	206.78	19.6

CONDENSER ENTERING/LEAVING WATER TEMP.=25/30°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,4°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	2.80	9.83	6.71	0.8	8.39	1.1
HLCW-6-1	3.36	11.8	8.05	0.9	10.07	1.2
HLCW-7-1	3.72	13.1	8.94	0.9	11.17	1.2
HCLA-8-1	4.48	15.75	10.75	0.9	13.44	1.1
HLCW-9-1	5.03	17.7	12.08	0.9	15.10	1.2
HLCW-10-1	5.89	20.7	14.13	1.1	17.66	1.2
HLCW-12-1	6.74	23.7	16.17	1.1	20.22	1.2
HLCW-13-1	7.25	25.5	17.40	1.2	21.75	1.3
HLCW-15-1	8.67	30.5	20.81	1.9	26.02	1.4
HLCW-20-1	11.17	39.3	26.82	2.6	33.52	1.5
HLCW-25-1	13.82	48.6	33.17	3.9	41.46	1.6
HLCW-30-1	17.37	61.1	41.70	6.4	52.12	2.3
HLCW-10-2	5.59	19.66	13.42	1	16.77	3
HLCW-12-2	6.71	23.6	16.11	1.1	20.13	4.3
HLCW-14-2	7.45	26.2	17.88	1.4	22.35	6.8
HCLA-16-2	8.96	31.5	21.50	1.9	26.87	1.4
HLCW-18-2	10.07	35.4	24.16	2.3	30.20	1.5
HLCW-20-2	11.77	41.4	28.25	2.8	35.32	1.8
HLCW-24-2	13.48	47.4	32.35	3.6	40.43	2.3
HLCW-26-2	14.50	51	34.80	4	43.50	2.8
HLCW-30-2	17.35	61	41.63	6.3	52.04	3.2
HLCW-40-2	22.35	78.6	53.64	10.5	67.05	4
HLCW-50-2	27.64	97.2	66.33	13	82.92	4.4
HLCW-60-2	34.75	122.2	83.39	18.5	104.24	6.7
HLCW-20-4	11.18	39.32	26.83	3	33.54	10.9
HLCW-24-4	13.42	47.2	32.21	3.6	40.26	13.4
HLCW-28-4	14.90	52.4	35.76	5	44.70	18.9
HCLA-32-4	17.91	63	42.99	6.4	53.74	3.4
HLCW-36-4	20.13	70.8	48.32	7	60.39	4
HLCW-40-4	23.54	82.8	56.51	9.4	70.63	5.4
HLCW-48-4	26.96	94.8	64.69	12.4	80.87	7.1
HLCW-52-4	29.00	102	69.61	13.3	87.01	7.7
HLCW-60-4	34.69	122	83.26	19	104.07	10.1
HLCW-80-4	44.70	157.2	107.28	19.8	134.10	13.1
HLCW-100-4	55.28	194.4	132.66	20	165.83	14
HLCW-120-4	69.49	244.4	166.79	21	208.48	19.7

CONDENSER ENTERING/LEAVING WATER TEMP.=27/32°C						
TABLE-1-LEAVING CHILLED WATER TEMP.= 5,5°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	2.53	8.91	6.08	0.5	7.60	0.7
HLCW-6-1	3.04	10.7	7.30	0.6	9.13	0.8
HLCW-7-1	3.38	11.9	8.12	0.6	10.15	0.8
HCLA-8-1	4.07	14.3	9.76	0.6	12.20	0.8
HLCW-9-1	4.55	16	10.92	0.6	13.65	0.9
HLCW-10-1	5.33	18.75	12.80	0.8	15.99	1
HLCW-12-1	6.20	21.8	14.88	0.8	18.60	1
HLCW-13-1	6.65	23.4	15.97	0.9	19.96	1.1
HLCW-15-1	7.93	27.9	19.04	1.6	23.80	1.8
HLCW-20-1	10.15	35.7	24.36	2.3	30.45	2.5
HLCW-25-1	12.54	44.1	30.10	3.6	37.62	3.8
HLCW-30-1	15.84	55.7	38.01	6.1	47.51	6.3
HLCW-10-2	5.07	17.82	12.16	0.7	15.20	0.9
HLCW-12-2	6.08	21.4	14.60	0.8	18.25	1
HLCW-14-2	6.77	23.8	16.24	1.1	20.30	1.3
HCLA-16-2	8.13	28.6	19.52	1.6	24.40	1.7
HLCW-18-2	9.10	32	21.84	1.9	27.30	2.2
HLCW-20-2	10.66	37.5	25.59	2.4	31.99	2.6
HLCW-24-2	12.40	43.6	29.75	3.2	37.19	3.4
HLCW-26-2	13.31	46.8	31.94	3.6	39.92	3.8
HLCW-30-2	15.87	55.8	38.08	5.9	47.60	6.1
HLCW-40-2	20.30	71.4	48.73	10.1	60.91	10.3
HLCW-50-2	25.08	88.2	60.19	12.6	75.24	12.8
HLCW-60-2	31.68	111.4	76.02	18.1	95.03	18.3
HLCW-20-4	10.13	35.64	24.32	2.6	30.40	2.8
HLCW-24-4	12.17	42.8	29.21	3.2	36.51	3.4
HLCW-28-4	13.53	47.6	32.48	4.6	40.60	4.8
HCLA-32-4	16.26	57.2	39.03	6	48.79	6.5
HLCW-36-4	18.20	64	43.68	6.5	54.59	7.1
HLCW-40-4	21.33	75	51.18	8.8	63.98	9.5
HLCW-48-4	24.79	87.2	59.51	11.8	74.38	12.5
HLCW-52-4	26.61	93.6	63.88	12.7	79.84	13.4
HLCW-60-4	31.73	111.6	76.16	18.4	95.20	19.1
HLCW-80-4	40.60	142.8	97.45	19.2	121.81	19.9
HLCW-100-4	50.16	176.4	120.38	19.4	150.48	20.1
HLCW-120-4	63.35	222.8	152.04	20.4	190.06	21.1

CONDENSER ENTERING/LEAVING WATER TEMP.=27/32°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=6,6°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	2.65	9.32	6.36	0.7	7.95	0.8
HLCW-6-1	3.18	11.2	7.64	0.8	9.55	0.9
HLCW-7-1	3.54	12.45	8.50	0.8	10.62	0.9
HCLA-8-1	4.25	14.95	10.20	0.8	12.75	0.9
HLCW-9-1	4.76	16.75	11.43	0.8	14.29	1
HLCW-10-1	5.57	19.6	13.38	1	16.72	1.1
HLCW-12-1	6.45	22.7	15.49	1	19.36	1.1
HLCW-13-1	6.94	24.4	16.65	1.1	20.81	1.2
HLCW-15-1	8.27	29.1	19.86	1.8	24.82	1.9
HLCW-20-1	10.61	37.3	25.45	2.5	31.82	2.6
HLCW-25-1	13.11	46.1	31.46	3.8	39.32	3.9
HLCW-30-1	16.52	58.1	39.65	6.3	49.56	6.4
HLCW-10-2	5.30	18.64	12.72	0.9	15.90	1
HLCW-12-2	6.37	22.4	15.29	1	19.11	1.1
HLCW-14-2	7.08	24.9	16.99	1.3	21.24	1.4
HCLA-16-2	8.50	29.9	20.40	1.8	25.51	1.8
HLCW-18-2	9.53	33.5	22.86	2.1	28.58	2.3
HLCW-20-2	11.15	39.2	26.75	2.6	33.44	2.7
HLCW-24-2	12.91	45.4	30.98	3.4	38.73	3.5
HLCW-26-2	13.88	48.8	33.30	3.8	41.63	3.9
HLCW-30-2	16.55	58.2	39.72	6.1	49.65	6.2
HLCW-40-2	21.21	74.6	50.91	10.3	63.64	10.4
HLCW-50-2	26.22	92.2	62.92	12.8	78.65	12.9
HLCW-60-2	33.04	116.2	79.30	18.3	99.12	18.4
HLCW-20-4	10.60	37.28	25.44	2.8	31.80	2.9
HLCW-24-4	12.74	44.8	30.57	3.4	38.22	3.5
HLCW-28-4	14.16	49.8	33.98	4.8	42.48	4.9
HCLA-32-4	17.00	59.8	40.81	6.2	51.01	6.6
HLCW-36-4	19.05	67	45.72	6.7	57.15	7.2
HLCW-40-4	22.29	78.4	53.50	9	66.88	9.6
HLCW-48-4	25.82	90.8	61.96	12	77.46	12.6
HLCW-52-4	27.75	97.6	66.60	12.9	83.26	13.5
HLCW-60-4	33.10	116.4	79.43	18.6	99.29	19.2
HLCW-80-4	42.42	149.2	101.82	19.4	127.27	20
HLCW-100-4	52.43	184.4	125.84	19.6	157.30	20.2
HLCW-120-4	66.08	232.4	158.60	20.6	198.25	21.2

CONDENSER ENTERING/LEAVING WATER TEMP.=27/32°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,2°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	2.72	9.55	6.52	0.8	8.15	0.9
HLCW-6-1	3.26	11.45	7.81	0.9	9.77	1
HLCW-7-1	3.63	12.75	8.70	0.9	10.88	1
HCLA-8-1	4.35	15.3	10.44	0.9	13.05	1
HLCW-9-1	4.88	17.15	11.70	0.9	14.63	1.1
HLCW-10-1	5.72	20.1	13.72	1.1	17.15	1.2
HLCW-12-1	6.60	23.2	15.83	1.1	19.79	1.2
HLCW-13-1	7.08	24.9	16.99	1.2	21.24	1.3
HLCW-15-1	8.45	29.7	6.10	1.9	25.34	2
HLCW-20-1	10.86	38.2	26.07	2.6	32.59	2.7
HLCW-25-1	13.45	47.3	32.28	3.9	40.35	4
HLCW-30-1	16.92	59.5	40.60	6.4	50.76	6.5
HLCW-10-2	5.43	19.1	13.03	1	16.29	1.1
HLCW-12-2	6.51	22.9	15.63	1.1	19.53	1.2
HLCW-14-2	7.25	25.5	17.40	1.4	21.75	1.5
HCLA-16-2	8.70	30.6	20.88	1.9	26.10	1.9
HLCW-18-2	9.75	34.3	23.41	2.2	29.26	2.4
HLCW-20-2	11.43	40.2	27.43	2.7	34.29	2.8
HLCW-24-2	13.19	46.4	31.66	3.5	39.58	3.6
HLCW-26-2	14.16	49.8	33.98	3.9	42.48	4
HLCW-30-2	16.89	59.4	40.54	6.2	50.67	6.3
HLCW-40-2	21.72	76.4	52.14	10.4	65.17	10.5
HLCW-50-2	26.90	94.6	64.56	12.9	80.70	13
HLCW-60-2	33.84	119	81.21	18.4	101.51	18.5
HLCW-20-4	10.86	38.2	26.07	2.9	32.59	3
HLCW-24-4	13.02	45.8	31.26	3.5	39.07	3.6
HLCW-28-4	14.50	51	34.80	4.9	43.50	5
HCLA-32-4	17.40	61.2	41.76	6.3	52.21	6.7
HLCW-36-4	19.51	68.6	46.81	6.8	58.52	7.3
HLCW-40-4	22.86	80.4	54.87	9.1	68.58	9.7
HLCW-48-4	26.39	92.8	63.33	12.1	79.16	12.7
HLCW-52-4	28.32	99.6	67.97	13	84.96	13.6
HLCW-60-4	33.78	118.8	81.07	18.7	101.34	19.3
HLCW-80-4	43.45	152.8	104.27	19.5	130.34	20.1
HLCW-100-4	53.80	189.2	129.12	19.7	161.39	20.3
HLCW-120-4	67.67	238	162.42	20.7	203.02	21.3

CONDENSER ENTERING/LEAVING WATER TEMP.=27/32°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,4°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	2.74	9.63	6.57	0.9	8.21	1
HLCW-6-1	3.28	11.55	7.88	1	9.85	1.1
HLCW-7-1	3.65	12.85	8.77	1	10.96	1.1
HCLA-8-1	4.38	15.4	10.51	1	13.14	1.1
HLCW-9-1	4.92	17.3	11.81	1	14.76	1.2
HLCW-10-1	5.77	20.3	13.85	1.2	17.32	1.3
HLCW-12-1	6.63	23.3	15.90	1.2	19.88	1.3
HLCW-13-1	7.11	25	17.06	1.3	21.33	1.4
HLCW-15-1	8.50	29.9	20.40	2	25.51	2.1
HLCW-20-1	10.95	38.5	26.27	2.7	32.84	2.8
HLCW-25-1	13.53	47.6	32.48	4	40.60	4.1
HLCW-30-1	17.06	60	40.95	6.5	51.18	6.6
HLCW-10-2	5.48	19.26	13.14	1.1	16.43	1.2
HLCW-12-2	6.57	23.1	15.76	1.2	19.71	1.3
HLCW-14-2	7.31	25.7	17.54	1.5	21.92	1.6
HCLA-16-2	8.76	30.8	21.02	2	26.27	2
HLCW-18-2	9.84	34.6	23.61	2.3	29.52	2.5
HLCW-20-2	11.54	40.6	27.71	2.8	34.63	2.9
HLCW-24-2	13.25	46.6	31.80	3.6	39.75	3.7
HLCW-26-2	14.22	50	34.12	4	42.65	4.1
HLCW-30-2	17.00	59.8	40.81	6.3	51.01	6.4
HLCW-40-2	21.89	77	52.55	10.5	65.68	10.6
HLCW-50-2	27.07	95.2	64.97	13	81.21	13.1
HLCW-60-2	34.12	120	81.89	18.5	102.36	18.6
HLCW-20-4	10.95	38.52	26.29	3	32.86	3.1
HLCW-24-4	13.14	46.2	31.53	3.6	39.41	3.7
HLCW-28-4	14.62	51.4	35.08	5	43.85	5.1
HCLA-32-4	17.52	61.6	42.04	6.4	52.55	6.8
HLCW-36-4	19.68	69.2	47.22	6.9	59.03	7.4
HLCW-40-4	23.09	81.2	55.41	9.2	69.27	9.8
HLCW-48-4	26.50	93.2	63.60	12.2	79.50	12.8
HLCW-52-4	28.43	100	68.24	13.1	85.30	13.7
HLCW-60-4	34.01	119.6	81.62	18.8	102.02	19.4
HLCW-80-4	43.79	154	105.09	19.6	131.37	20.2
HLCW-100-4	54.14	190.4	129.93	19.8	162.42	20.4
HLCW-120-4	68.24	240	163.78	20.8	204.73	21.4

CONDENSER ENTERING/LEAVING WATER TEMP.=30/35°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=5,5°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	2.45	8.63	5.89	0.5	7.36	0.6
HLCW-6-1	2.94	10.35	7.06	0.6	8.83	0.7
HLCW-7-1	3.27	11.5	7.85	0.6	9.81	0.7
HCLA-8-1	3.92	13.8	9.42	0.6	11.77	0.7
HLCW-9-1	4.39	15.45	10.54	0.6	13.18	0.8
HLCW-10-1	5.15	18.1	12.35	0.8	15.44	0.9
HLCW-12-1	6.03	21.2	14.47	0.8	18.08	0.9
HLCW-13-1	6.48	22.8	15.56	0.9	19.45	1
HLCW-15-1	7.71	27.1	18.49	1.6	23.12	1.7
HLCW-20-1	9.84	34.6	23.61	2.3	29.52	2.4
HLCW-25-1	12.17	42.8	29.21	3.6	36.51	3.7
HLCW-30-1	15.35	54	36.85	6.1	46.06	6.2
HLCW-10-2	4.91	17.26	11.78	0.7	14.72	0.8
HLCW-12-2	5.89	20.7	14.13	0.7	17.66	0.9
HLCW-14-2	6.54	23	15.70	1	19.62	1.2
HCLA-16-2	7.85	27.6	18.84	1.5	23.54	1.6
HLCW-18-2	8.79	30.9	21.09	1.8	26.36	2
HLCW-20-2	10.29	36.2	24.70	2.3	30.88	2.4
HLCW-24-2	12.06	42.4	28.93	3.1	36.17	3.2
HLCW-26-2	12.97	45.6	31.12	3.5	38.90	3.6
HLCW-30-2	15.41	54.2	36.99	5.8	46.23	5.9
HLCW-40-2	19.68	69.2	47.22	10	59.03	10.1
HLCW-50-2	24.34	85.6	58.42	12.5	73.02	12.6
HLCW-60-2	30.71	108	73.70	18	92.13	18.1
HLCW-20-4	9.82	34.52	23.56	2.5	29.45	2.6
HLCW-24-4	11.77	41.4	28.25	3.1	35.32	3.2
HLCW-28-4	13.08	46	31.39	4.4	39.24	4.6
HCLA-32-4	15.70	55.2	37.67	5.8	47.09	6.3
HLCW-36-4	17.57	61.8	42.17	6.3	52.72	6.9
HLCW-40-4	20.59	72.4	49.41	8.6	61.76	9.3
HLCW-48-4	24.11	84.8	57.87	11.6	72.34	12.3
HLCW-52-4	25.93	91.2	62.24	12.5	77.80	12.6
HLCW-60-4	30.82	108.4	73.98	18.2	92.47	18.9
HLCW-80-4	39.35	138.4	94.45	19	118.06	19.7
HLCW-100-4	48.68	171.2	116.83	19.2	146.04	19.9
HLCW-120-4	61.42	216	147.40	20.2	184.26	20.9

CONDENSER ENTERING/LEAVING WATER TEMP.=30/35°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=6,6°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	2.57	9.03	6.16	0.7	7.70	0.7
HLCW-6-1	3.07	10.8	7.37	0.8	9.21	0.8
HLCW-7-1	3.43	12.05	8.22	0.8	10.28	0.8
HCLA-8-1	4.09	14.4	9.83	0.8	12.28	0.8
HLCW-9-1	4.59	16.15	11.02	0.8	13.78	0.9
HLCW-10-1	5.39	18.95	12.93	1	16.17	1
HLCW-12-1	6.26	22	15.01	1	18.77	1
HLCW-13-1	6.74	23.7	16.17	1.1	20.22	1.1
HLCW-15-1	8.02	28.2	19.24	1.8	24.06	1.8
HLCW-20-1	10.29	36.2	24.70	2.5	30.88	2.5
HLCW-25-1	12.71	44.7	30.50	3.8	38.13	3.8
HLCW-30-1	16.07	56.5	38.56	6.3	48.20	6.3
HLCW-10-2	5.14	18.06	12.32	0.9	15.41	0.9
HLCW-12-2	6.14	21.6	14.74	0.9	18.43	1
HLCW-14-2	6.85	24.1	16.45	1.2	20.56	1.3
HCLA-16-2	8.19	28.8	19.65	1.7	24.57	1.7
HLCW-18-2	9.18	32.3	22.04	2	27.55	2.1
HLCW-20-2	10.78	37.9	25.86	2.5	32.33	2.5
HLCW-24-2	12.51	44	30.03	3.3	37.53	3.3
HLCW-26-2	13.48	47.4	32.35	3.7	40.43	3.7
HLCW-30-2	16.04	56.4	38.49	6	48.11	6
HLCW-40-2	20.59	72.4	49.41	10.2	61.76	10.2
HLCW-50-2	25.42	89.4	61.01	12.7	76.26	12.7
HLCW-60-2	32.13	113	77.11	18.2	96.39	18.2
HLCW-20-4	10.27	36.12	24.65	2.7	30.81	2.7
HLCW-24-4	12.28	43.2	29.48	3.3	36.85	3.3
HLCW-28-4	13.71	48.2	32.89	4.6	41.12	4.7
HCLA-32-4	16.38	57.6	39.31	6	49.13	6.4
HLCW-36-4	18.37	64.6	44.08	6.5	55.11	7
HLCW-40-4	21.55	75.8	51.73	8.8	64.66	9.4
HLCW-48-4	25.02	88	60.05	11.8	75.07	12.4
HLCW-52-4	26.96	94.8	64.69	12.7	80.87	13.3
HLCW-60-4	32.07	112.8	76.98	18.4	96.22	19
HLCW-80-4	41.17	144.8	98.82	19.2	123.52	19.8
HLCW-100-4	50.84	178.8	122.02	19.4	152.52	20
HLCW-120-4	64.26	226	154.23	20.4	192.79	21

CONDENSER ENTERING/LEAVING WATER TEMP.=30/35°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,2°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	2.63	9.26	6.32	0.8	7.90	0.9
HLCW-6-1	3.16	11.1	7.57	0.9	9.47	1
HLCW-7-1	3.51	12.35	8.43	0.9	10.53	1
HCLA-8-1	4.19	14.75	10.07	0.9	12.58	1
HLCW-9-1	4.71	16.55	11.29	0.9	14.12	1.1
HLCW-10-1	5.52	19.4	13.24	1.1	16.55	1.2
HLCW-12-1	6.40	22.5	15.35	1.1	19.19	1.2
HLCW-13-1	6.88	24.2	16.51	1.2	20.64	1.3
HLCW-15-1	8.19	28.8	19.65	1.9	24.57	2
HLCW-20-1	10.55	37.1	25.32	2.6	31.65	2.7
HLCW-25-1	13.02	45.8	31.26	3.9	39.07	4
HLCW-30-1	16.44	57.8	39.44	6.4	49.31	6.5
HLCW-10-2	5.27	18.52	12.64	1	15.80	1.1
HLCW-12-2	6.31	22.2	15.15	1	18.94	1.2
HLCW-14-2	7.02	24.7	16.86	1.3	21.07	1.5
HCLA-16-2	8.39	29.5	20.13	1.8	25.16	1.9
HLCW-18-2	9.41	33.1	22.59	2.1	28.24	2.3
HLCW-20-2	11.03	38.8	26.48	2.6	33.10	2.7
HLCW-24-2	12.80	45	30.71	3.4	38.39	3.5
HLCW-26-2	13.76	48.4	33.03	3.8	41.29	3.9
HLCW-30-2	16.38	57.6	39.31	6.1	49.13	6.2
HLCW-40-2	21.10	74.2	50.64	10.3	63.30	10.4
HLCW-50-2	26.05	91.6	62.51	12.8	78.14	12.9
HLCW-60-2	32.87	115.6	78.89	18.3	98.61	18.4
HLCW-20-4	10.53	37.04	25.28	2.8	31.60	2.9
HLCW-24-4	12.62	44.4	30.30	3.4	37.87	3.5
HLCW-28-4	14.05	49.4	33.71	4.7	42.14	4.9
HCLA-32-4	16.78	59	40.26	6.1	50.33	6.6
HLCW-36-4	18.82	66.2	45.18	6.6	56.47	7.2
HLCW-40-4	22.07	77.6	52.96	8.9	66.20	9.6
HLCW-48-4	25.59	90	61.42	11.9	76.77	12.6
HLCW-52-4	27.52	96.8	66.06	12.8	82.57	13.5
HLCW-60-4	32.76	115.2	78.62	18.5	98.27	19.2
HLCW-80-4	42.20	148.4	101.27	19.3	126.59	20
HLCW-100-4	52.09	183.2	125.02	19.5	156.28	20.2
HLCW-120-4	65.74	231.2	157.78	20.5	197.22	21.2

CONDENSER ENTERING/LEAVING WATER TEMP.=30/35°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,4°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	2.65	9.33	6.37	0.9	7.96	1.1
HLCW-6-1	3.17	11.15	7.61	1	9.51	1.2
HLCW-7-1	3.54	12.45	8.50	1	10.62	1.2
HCLA-8-1	4.24	14.9	10.17	1	12.71	1.2
HLCW-9-1	4.75	16.7	11.40	1	14.25	1.3
HLCW-10-1	5.56	19.55	13.34	1.2	16.68	1.4
HLCW-12-1	6.43	22.6	15.42	1.2	19.28	1.4
HLCW-13-1	6.91	24.3	16.58	1.3	20.73	1.5
HLCW-15-1	8.25	29	19.79	2	24.74	2.2
HLCW-20-1	10.63	37.4	25.52	2.7	31.90	2.9
HLCW-25-1	13.14	46.2	31.53	4	39.41	4.2
HLCW-30-1	16.58	58.3	39.79	6.5	49.73	6.7
HLCW-10-2	5.31	18.66	12.73	1.1	15.92	1.3
HLCW-12-2	6.34	22.3	15.22	1.1	19.02	1.4
HLCW-14-2	7.08	24.9	16.99	1.4	21.24	1.7
HCLA-16-2	8.47	29.8	20.34	1.9	25.42	2.1
HLCW-18-2	9.50	33.4	22.79	2.2	28.49	2.5
HLCW-20-2	11.12	39.1	26.68	2.7	33.35	2.9
HLCW-24-2	12.85	45.2	30.85	3.5	38.56	3.7
HLCW-26-2	13.82	48.6	33.17	3.9	41.46	4.1
HLCW-30-2	16.49	58	39.58	6.2	49.48	6.4
HLCW-40-2	21.27	74.8	51.05	10.4	63.81	10.6
HLCW-50-2	26.27	92.4	63.06	12.9	78.82	13.1
HLCW-60-2	33.15	116.6	79.57	18.4	99.46	18.6
HLCW-20-4	10.61	37.32	25.47	2.9	31.84	3.1
HLCW-24-4	12.68	44.6	30.44	3.5	38.05	3.7
HLCW-28-4	14.16	49.8	33.98	4.8	42.48	5.1
HCLA-32-4	16.95	59.6	40.67	6.2	50.84	6.8
HLCW-36-4	18.99	66.8	45.59	6.7	56.98	7.4
HLCW-40-4	22.24	78.2	53.37	9	66.71	9.8
HLCW-48-4	25.70	90.4	61.69	12	77.11	12.8
HLCW-52-4	27.64	97.2	66.33	12.9	82.92	13.7
HLCW-60-4	32.98	116	79.16	18.6	98.95	19.4
HLCW-80-4	42.54	149.6	102.09	19.4	127.61	20.2
HLCW-100-4	52.55	184.8	126.11	19.6	157.64	20.4
HLCW-120-4	66.31	233.2	159.14	20.6	198.93	21.4

CONDENSER ENTERING/LEAVING WATER TEMP.=33/38°C						
TABLE-1-LEAVING CHILLED WATER TEMP.= 5,5°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	2.37	8.35	5.70	0.4	7.12	0.5
HLCW-6-1	2.83	9.95	6.79	0.5	8.49	0.6
HLCW-7-1	3.17	11.15	7.61	0.5	9.51	0.6
HCLA-8-1	3.78	13.3	9.08	0.5	11.35	0.6
HLCW-9-1	4.24	14.9	10.17	0.5	12.71	0.7
HLCW-10-1	4.95	17.4	11.87	0.7	14.84	0.8
HLCW-12-1	5.83	20.5	13.99	0.7	17.49	0.8
HLCW-13-1	6.26	22	15.01	0.8	18.77	0.9
HLCW-15-1	7.45	26.2	17.88	1.5	22.35	1.6
HLCW-20-1	9.53	33.5	22.86	2.2	28.58	2.3
HLCW-25-1	11.77	41.4	28.25	3.5	35.32	3.6
HLCW-30-1	14.90	52.4	35.76	6	44.70	6.1
HLCW-10-2	4.75	16.7	11.40	0.6	14.25	0.7
HLCW-12-2	5.66	19.9	13.58	0.6	16.98	0.8
HLCW-14-2	6.34	22.3	15.22	0.9	19.02	1.1
HCLA-16-2	7.56	26.6	18.15	1.4	22.69	1.5
HLCW-18-2	8.47	29.8	20.34	1.7	25.42	1.9
HLCW-20-2	9.90	34.8	23.75	2.2	29.69	2.3
HLCW-24-2	11.66	41	27.98	3	34.97	3.1
HLCW-26-2	12.51	44	30.03	3.4	37.53	3.5
HLCW-30-2	14.90	52.4	35.76	5.7	44.70	5.8
HLCW-40-2	19.05	67	45.72	9.9	57.15	10
HLCW-50-2	23.54	82.8	56.51	12.4	70.63	12.5
HLCW-60-2	29.80	104.8	71.52	17.9	89.40	18
HLCW-20-4	9.50	33.4	22.79	2.4	28.49	2.5
HLCW-24-4	11.32	39.8	27.16	3	33.95	3.1
HLCW-28-4	12.68	44.6	30.44	4.3	38.05	4.5
HCLA-32-4	15.13	53.2	36.31	5.7	45.38	6.2
HLCW-36-4	16.95	59.6	40.67	6.2	50.84	6.7
HLCW-40-4	19.79	69.6	47.50	8.5	59.37	9.1
HLCW-48-4	23.32	82	55.96	11.5	69.95	12.1
HLCW-52-4	25.02	88	60.05	12.4	75.07	13
HLCW-60-4	29.80	104.8	71.52	18.1	89.40	18.7
HLCW-80-4	38.10	134	91.45	18.9	114.31	19.5
HLCW-100-4	47.09	165.6	113.01	19.1	141.26	19.7
HLCW-120-4	59.60	209.6	143.04	20.1	178.80	20.7

CONDENSER ENTERING/LEAVING WATER TEMP.=33/38°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=6,6°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	2.49	8.74	5.96	0.5	7.46	0.7
HLCW-6-1	2.96	10.4	7.10	0.6	8.87	0.8
HLCW-7-1	3.31	11.65	7.95	0.6	9.94	0.8
HCLA-8-1	3.95	13.9	9.49	0.6	11.86	0.8
HLCW-9-1	4.44	15.6	10.65	0.6	13.31	0.9
HLCW-10-1	5.19	18.25	12.45	0.8	15.57	1
HLCW-12-1	6.06	21.3	14.54	0.8	18.17	1
HLCW-13-1	6.51	22.9	15.63	0.9	19.53	1.1
HLCW-15-1	7.76	27.3	18.63	1.6	23.29	1.8
HLCW-20-1	9.95	35	23.88	2.3	29.86	2.5
HLCW-25-1	12.31	43.3	29.55	3.6	36.94	3.8
HLCW-30-1	15.58	54.8	37.40	6.1	46.75	6.3
HLCW-10-2	4.97	17.48	11.93	0.7	14.91	0.9
HLCW-12-2	5.91	20.8	14.19	0.7	17.74	1
HLCW-14-2	6.63	23.3	15.90	1	19.88	1.3
HCLA-16-2	7.90	27.8	18.97	1.5	23.71	1.7
HLCW-18-2	8.87	31.2	21.29	1.8	26.61	2.1
HLCW-20-2	10.38	36.5	24.91	2.3	31.14	2.5
HLCW-24-2	12.11	42.6	29.07	3.1	36.34	3.3
HLCW-26-2	13.02	45.8	31.26	3.5	39.07	3.7
HLCW-30-2	15.53	54.6	37.26	5.8	46.58	6
HLCW-40-2	19.90	70	47.77	10	59.71	10.2
HLCW-50-2	24.62	86.6	59.10	12.5	73.87	12.7
HLCW-60-2	31.16	109.6	74.79	18	93.49	18.2
HLCW-20-4	9.94	34.96	23.86	2.5	29.82	2.7
HLCW-24-4	11.83	41.6	28.39	3.1	35.49	3.3
HLCW-28-4	13.25	46.6	31.80	4.4	39.75	4.7
HCLA-32-4	15.81	55.6	37.94	5.8	47.43	6.4
HLCW-36-4	17.74	62.4	42.58	6.3	53.23	6.9
HLCW-40-4	20.76	73	49.82	8.6	62.27	9.3
HLCW-48-4	24.23	85.2	58.14	11.6	72.68	12.3
HLCW-52-4	26.05	91.6	62.51	12.5	78.14	13.2
HLCW-60-4	31.05	109.2	74.52	18.2	93.15	18.9
HLCW-80-4	39.81	140	95.54	19	119.42	19.7
HLCW-100-4	49.25	173.2	118.20	19.2	147.75	19.9
HLCW-120-4	62.33	219.2	149.59	20.2	186.99	20.9

CONDENSER ENTERING/LEAVING WATER TEMP.=33/38°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,2°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	2.55	8.96	6.11	0.6	7.64	0.8
HLCW-6-1	3.04	10.7	7.30	0.7	9.13	0.9
HLCW-7-1	3.40	11.95	8.16	0.7	10.19	0.9
HCLA-8-1	4.05	14.25	9.72	0.7	12.16	0.9
HLCW-9-1	4.55	16	10.92	0.7	13.65	1
HLCW-10-1	5.32	18.7	12.76	0.9	15.95	1.1
HLCW-12-1	6.20	21.8	14.88	0.9	18.60	1.1
HLCW-13-1	6.65	23.4	15.97	1	19.96	1.2
HLCW-15-1	7.93	27.9	19.04	1.7	23.80	1.9
HLCW-20-1	10.21	35.9	24.50	2.4	30.62	2.6
HLCW-25-1	12.62	44.4	30.30	3.7	37.87	3.9
HLCW-30-1	15.95	56.1	38.28	6.2	47.86	6.4
HLCW-10-2	5.10	17.92	12.23	0.8	15.29	1
HLCW-12-2	6.08	21.4	14.60	0.8	18.25	1.1
HLCW-14-2	6.80	23.9	16.31	1.1	20.39	1.4
HCLA-16-2	8.10	28.5	19.45	1.6	24.31	1.8
HLCW-18-2	9.10	32	21.84	1.9	27.30	2.2
HLCW-20-2	10.63	37.4	25.52	2.4	31.90	2.6
HLCW-24-2	12.40	43.6	29.75	3.2	37.19	3.4
HLCW-26-2	13.31	46.8	31.94	3.6	39.92	3.8
HLCW-30-2	15.87	55.8	38.08	5.9	47.60	6.1
HLCW-40-2	20.42	71.8	49.00	10.1	61.25	10.3
HLCW-50-2	25.25	88.8	60.60	12.6	75.75	12.8
HLCW-60-2	31.90	112.2	76.57	18.1	95.71	18.3
HLCW-20-4	10.19	35.84	24.46	2.6	30.57	2.8
HLCW-24-4	12.17	42.8	29.21	3.2	36.51	3.4
HLCW-28-4	13.59	47.8	32.62	4.5	40.78	4.8
HCLA-32-4	16.21	57	38.90	5.9	48.62	6.5
HLCW-36-4	18.20	64	43.68	6.4	54.59	7
HLCW-40-4	21.27	74.8	51.05	8.7	63.81	9.4
HLCW-48-4	24.79	87.2	59.51	11.7	74.38	12.4
HLCW-52-4	26.61	93.6	63.88	12.6	79.84	13.3
HLCW-60-4	31.73	111.6	76.16	18.3	95.20	19
HLCW-80-4	40.83	143.6	98.00	19.1	122.50	19.8
HLCW-100-4	50.50	177.6	121.20	19.3	151.50	20
HLCW-120-4	63.81	224.4	153.14	20.3	191.42	21

CONDENSER ENTERING/LEAVING WATER TEMP.=33/38°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,4°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	2.57	9.04	6.17	0.7	7.71	0.9
HLCW-6-1	3.07	10.8	7.37	0.8	9.21	1
HLCW-7- 1	3.43	12.05	8.22	0.8	10.28	1
HCLA-8-1	4.08	14.35	9.79	0.8	12.24	1
HLCW-9-1	4.58	16.1	10.99	0.8	13.73	1.1
HLCW-10-1	5.36	18.85	12.86	1	16.08	1.2
HLCW-12-1	6.23	21.9	14.95	1	18.68	1.2
HLCW-13-1	6.71	23.6	16.11	1.1	20.13	1.3
HLCW-15-1	7.99	28.1	19.18	1.8	23.97	2
HLCW-20-1	10.29	36.2	24.70	2.5	30.88	2.7
HLCW-25-1	12.71	44.7	30.50	3.8	38.13	4
HLCW-30-1	16.07	56.5	38.56	6.3	48.20	6.5
HLCW-10-2	5.14	18.08	12.34	0.9	15.42	1.1
HLCW-12-2	6.14	21.6	14.74	0.9	18.43	1.2
HLCW-14-2	6.85	24.1	16.45	1.2	20.56	1.5
HCLA-16-2	8.16	28.7	19.59	1.7	24.48	1.9
HLCW-18-2	9.16	32.2	21.97	2	27.47	2.3
HLCW-20-2	10.72	37.7	25.73	2.5	32.16	2.7
HLCW-24-2	12.45	43.8	29.89	3.3	37.36	3.5
HLCW-26-2	13.42	47.2	32.21	3.7	40.26	3.9
HLCW-30-2	15.98	56.2	38.35	6	47.94	6.2
HLCW-40-2	20.59	72.4	49.41	10.2	61.76	10.4
HLCW-50-2	25.42	89.4	61.01	12.7	76.26	12.9
HLCW-60-2	32.13	113	77.11	18.2	96.39	18.4
HLCW-20-4	10.28	36.16	24.68	2.7	30.85	2.9
HLCW-24-4	12.28	43.2	29.48	3.3	36.85	3.5
HLCW-28-4	13.71	48.2	32.89	4.6	41.12	4.9
HCLA-32-4	16.32	57.4	39.17	6	48.96	6.6
HLCW-36-4	18.31	64.4	43.95	6.5	54.94	7.1
HLCW-40-4	21.44	75.4	51.46	8.8	64.32	9.5
HLCW-48-4	24.91	87.6	59.78	11.8	74.73	12.5
HLCW-52-4	26.84	94.4	64.42	12.7	80.53	13.4
HLCW-60-4	31.96	112.4	76.70	18.4	95.88	19.1
HLCW-80-4	41.17	144.8	98.82	19.2	123.52	19.9
HLCW-100-4	50.84	178.8	122.02	19.4	152.52	20.1
HLCW-120-4	64.26	226	154.23	20.4	192.79	21.1

CONDENSER ENTERING/LEAVING WATER TEMP.=36/41°C						
TABLE-1-LEAVING CHILLED WATER TEMP.= 5,5°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	2.29	8.07	5.51	0.4	6.88	0.5
HLCW-6-1	2.72	9.57	6.53	0.5	8.16	0.6
HLCW-7-1	3.06	10.75	7.34	0.5	9.17	0.6
HCLA-8-1	3.63	12.75	8.70	0.5	10.88	0.6
HLCW-9-1	4.07	14.3	9.76	0.5	12.20	0.7
HLCW-10-1	4.76	16.75	11.43	0.7	14.29	0.8
HLCW-12-1	5.62	19.75	13.48	0.7	16.85	0.8
HLCW-13-1	6.03	21.2	14.47	0.8	18.08	0.9
HLCW-15-1	7.19	25.3	17.27	1.5	21.58	1.6
HLCW-20-1	9.18	32.3	22.04	2.2	27.55	2.3
HLCW-25-1	11.37	40	27.30	3.5	34.12	3.6
HLCW-30-1	14.42	50.7	34.60	6	43.25	6.1
HLCW-10-2	4.59	16.14	11.01	0.6	13.77	0.7
HLCW-12-2	5.44	19.14	13.06	0.5	16.33	0.8
HLCW-14-2	6.11	21.5	14.67	0.8	18.34	1.1
HCLA-16-2	7.25	25.5	17.40	1.3	21.75	1.4
HLCW-18-2	8.13	28.6	19.52	1.6	24.40	1.8
HLCW-20-2	9.53	33.5	22.86	2.1	28.58	2.2
HLCW-24-2	11.23	39.5	26.96	2.9	33.69	3
HLCW-26-2	12.06	42.4	28.93	3.3	36.17	3.4
HLCW-30-2	14.39	50.6	34.53	5.6	43.16	5.7
HLCW-40-2	18.37	64.6	44.08	9.8	55.11	9.9
HLCW-50-2	22.75	80	54.59	12.3	68.24	12.4
HLCW-60-2	28.83	101.4	69.20	17.8	86.50	17.9
HLCW-20-4	9.18	32.28	22.03	2.3	27.54	2.4
HLCW-24-4	10.88	38.28	26.12	2.9	32.65	3
HLCW-28-4	12.23	43	29.34	4.2	36.68	4.4
HCLA-32-4	14.50	51	34.80	5.6	43.50	6.1
HLCW-36-4	16.26	57.2	39.03	6.1	48.79	6.6
HLCW-40-4	19.05	67	45.72	8.4	57.15	9
HLCW-48-4	22.46	79	53.91	11.4	67.39	12
HLCW-52-4	24.11	84.8	57.87	12.3	72.34	12.9
HLCW-60-4	28.78	101.2	69.06	18	86.33	18.6
HLCW-80-4	36.74	129.2	88.17	18.8	110.21	19.4
HLCW-100-4	45.50	160	109.19	19	136.49	19.6
HLCW-120-4	57.67	202.8	138.40	20	173.00	20.6

CONDENSER ENTERING/LEAVING WATER TEMP.=36/41°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=6,6°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	2.40	8.45	5.77	0.6	7.21	0.6
HLCW-6-1	2.86	10.05	6.86	0.7	8.57	0.7
HLCW-7-1	3.20	11.25	7.68	0.7	9.60	0.7
HCLA-8-1	3.80	13.35	9.11	0.7	11.39	0.7
HLCW-9-1	4.27	15	10.24	0.7	12.80	0.8
HLCW-10-1	4.99	17.55	11.98	0.9	14.97	0.9
HLCW-12-1	5.83	20.5	13.99	0.9	17.49	0.9
HLCW-13-1	6.28	22.1	15.08	1	18.85	1
HLCW-15-1	7.51	26.4	18.02	1.7	22.52	1.7
HLCW-20-1	9.61	33.8	23.07	2.4	28.83	2.4
HLCW-25-1	11.91	41.9	28.59	3.7	35.74	3.7
HLCW-30-1	15.07	53	36.17	6.2	45.21	6.2
HLCW-10-2	4.81	16.9	11.53	0.8	14.42	0.8
HLCW-12-2	5.72	20.1	13.72	0.7	17.15	0.9
HLCW-14-2	6.40	22.5	15.35	1	19.19	1.2
HCLA-16-2	7.59	26.7	18.22	1.5	22.78	1.5
HLCW-18-2	8.53	30	20.47	1.8	25.59	1.9
HLCW-20-2	9.98	35.1	23.95	2.3	29.94	2.3
HLCW-24-2	11.66	41	27.98	3.1	34.97	3.1
HLCW-26-2	12.57	44.2	30.16	3.5	37.70	3.5
HLCW-30-2	15.01	52.8	36.03	5.8	45.04	5.8
HLCW-40-2	19.22	67.6	46.13	10	57.67	10
HLCW-50-2	23.83	83.8	57.19	12.5	71.48	12.5
HLCW-60-2	30.14	106	72.34	18	90.42	18
HLCW-20-4	9.61	33.8	23.07	2.5	28.83	2.5
HLCW-24-4	11.43	40.2	27.43	3.1	34.29	3.1
HLCW-28-4	12.80	45	30.71	4.4	38.39	4.5
HCLA-32-4	15.18	53.4	36.44	5.8	45.55	6.2
HLCW-36-4	17.06	60	40.95	6.3	51.18	6.7
HLCW-40-4	19.96	70.2	47.91	8.6	59.88	9.1
HLCW-48-4	23.32	82	55.96	11.6	69.95	12.1
HLCW-52-4	25.14	88.4	60.33	12.5	75.41	13
HLCW-60-4	30.03	105.6	72.06	18.2	90.08	18.7
HLCW-80-4	38.44	135.2	92.26	19	115.33	19.5
HLCW-100-4	47.66	167.6	114.37	19.2	142.97	19.7
HLCW-120-4	60.28	212	144.67	20.2	180.84	20.7

CONDENSER ENTERING/LEAVING WATER TEMP.=36/41°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,2°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	2.46	8.66	5.91	0.7	7.39	0.7
HLCW-6-1	2.93	10.3	7.03	0.8	8.79	0.8
HLCW-7-1	3.28	11.55	7.88	0.8	9.85	0.8
HCLA-8-1	3.90	13.7	9.35	0.8	11.69	0.8
HLCW-9-1	4.36	15.35	10.48	0.8	13.09	0.9
HLCW-10-1	5.12	18	12.28	1	15.35	1
HLCW-12-1	5.97	21	14.33	1	17.91	1
HLCW-13-1	6.43	22.6	15.42	1.1	19.28	1.1
HLCW-15-1	7.68	27	18.43	1.8	23.03	1.8
HLCW-20-1	9.87	34.7	23.68	2.5	29.60	2.5
HLCW-25-1	12.20	42.9	29.28	3.8	36.60	3.8
HLCW-30-1	15.44	54.3	37.06	6.3	46.32	6.3
HLCW-10-2	4.92	17.32	11.82	0.9	14.77	0.9
HLCW-12-2	5.86	20.6	14.06	0.8	17.57	1
HLCW-14-2	6.57	23.1	15.76	1.1	19.71	1.3
HCLA-16-2	7.79	27.4	18.70	1.6	23.37	1.6
HLCW-18-2	8.73	30.7	20.95	1.9	26.19	2
HLCW-20-2	10.24	36	24.57	2.4	30.71	2.4
HLCW-24-2	11.94	42	28.66	3.2	35.83	3.2
HLCW-26-2	12.85	45.2	30.85	3.6	38.56	3.6
HLCW-30-2	15.35	54	36.85	5.9	46.06	5.9
HLCW-40-2	19.73	69.4	47.36	10.1	59.20	10.1
HLCW-50-2	24.40	85.8	58.55	12.6	73.19	12.6
HLCW-60-2	30.88	108.6	74.11	18.1	92.64	18.1
HLCW-20-4	9.85	34.64	23.64	2.6	29.55	2.6
HLCW-24-4	11.72	41.2	28.12	3.2	35.15	3.2
HLCW-28-4	13.14	46.2	31.53	4.5	39.41	4.6
HCLA-32-4	15.58	54.8	37.40	5.9	46.75	6.3
HLCW-36-4	17.46	61.4	41.90	6.4	52.38	6.8
HLCW-40-4	20.47	72	49.13	8.7	61.42	9.2
HLCW-48-4	23.88	84	57.32	11.7	71.65	12.2
HLCW-52-4	25.70	90.4	61.69	12.6	77.11	13.1
HLCW-60-4	30.71	108	73.70	18.3	92.13	18.8
HLCW-80-4	39.47	138.8	94.72	19.1	118.40	19.6
HLCW-100-4	48.79	171.6	117.10	19.3	146.38	19.8
HLCW-120-4	61.76	217.2	148.22	20.3	185.28	20.8

CONDENSER ENTERING/LEAVING WATER TEMP.=36/41°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,4°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	2.48	8.73	5.96	0.8	7.45	0.9
HLCW-6-1	2.94	10.35	7.06	0.9	8.83	1
HLCW-7-1	3.31	11.65	7.95	0.9	9.94	1
HCLA-8-1	3.92	13.8	9.42	0.9	11.77	1
HLCW-9-1	4.41	15.5	10.58	0.9	13.22	1.1
HLCW-10-1	5.16	18.15	12.39	1.1	15.48	1.2
HLCW-12-1	6.00	21.1	14.40	1.1	18.00	1.2
HLCW-13-1	6.48	22.8	15.56	1.2	19.45	1.3
HLCW-15-1	7.73	27.2	18.56	1.9	23.20	2
HLCW-20-1	9.92	34.9	23.82	2.6	29.77	2.7
HLCW-25-1	12.31	43.3	29.55	3.9	36.94	4
HLCW-30-1	15.55	54.7	37.33	6.4	46.66	6.5
HLCW-10-2	4.96	17.46	11.92	1	14.89	1.1
HLCW-12-2	5.89	20.7	14.13	0.9	17.66	1.2
HLCW-14-2	6.63	23.3	15.90	1.2	19.88	1.5
HCLA-16-2	7.85	27.6	18.84	1.7	23.54	1.8
HLCW-18-2	8.81	31	21.16	2	26.44	2.2
HLCW-20-2	10.32	36.3	24.77	2.5	30.97	2.6
HLCW-24-2	12.00	42.2	28.80	3.3	36.00	3.4
HLCW-26-2	12.97	45.6	31.12	3.7	38.90	3.8
HLCW-30-2	15.47	54.4	37.12	6	46.41	6.1
HLCW-40-2	19.85	69.8	47.63	10.2	59.54	10.3
HLCW-50-2	24.62	86.6	59.10	12.7	73.87	12.8
HLCW-60-2	31.11	109.4	74.66	18.2	93.32	18.3
HLCW-20-4	9.93	34.92	23.83	2.7	29.79	2.8
HLCW-24-4	11.77	41.4	28.25	3.3	35.32	3.4
HLCW-28-4	13.25	46.6	31.80	4.6	39.75	4.8
HCLA-32-4	15.70	55.2	37.67	6	47.09	6.5
HLCW-36-4	17.63	62	42.31	6.5	52.89	7
HLCW-40-4	20.64	72.6	49.54	8.8	61.93	9.4
HLCW-48-4	24.00	84.4	57.60	11.8	72.00	12.4
HLCW-52-4	25.93	91.2	62.24	12.7	77.80	13.3
HLCW-60-4	30.94	108.8	74.25	18.4	92.81	19
HLCW-80-4	39.69	139.6	95.27	19.2	119.08	19.8
HLCW-100-4	49.25	173.2	118.20	19.4	147.75	20
HLCW-120-4	62.21	218.8	149.32	20.4	186.64	21

ELECTRICAL DATA (R-134a)				
chiller MODEL	Nominal Comp. power (HP)	MRA (Amp)	LRA (Amp)	RATE CONSE POWER (kw)
HLCW-5-1	5	5.67	65.5	2.4
HLCW-6-1	6	5.98	74	2.5
HLCW-7-1	7	7.85	101	3.3
HCLA-8-1	8	9.69	95	4.0
HLCW-9-1	9	10.57	111	5.0
HLCW-10-1	10	11.8	118	5.6
HLCW-12-1	12	11.05	118	5.2
HLCW-13-1	13	12.85	140	6.0
HLCW-15-1	15	17.22	174	8.1
HLCW-20-1	20	20.21	225	9.5
HLCW-25-1	25	25.29	272	11.9
HLCW-30-1	30	31.66	310	14.9
HLCW-10-2	2*5	11.34	131	5.3
HLCW-12-2	2*6	11.96	148	5.6
HLCW-14-2	2*7	15.7	202	7.4
HCLA-16-2	2*8	19.38	190	9.1
HLCW-18-2	2*9	21.14	222	9.9
HLCW-20-2	2*10	23.6	236	11.1
HLCW-24-2	2*12	22.1	236	10.4
HLCW-26-2	2*13	25.7	280	12.1
HLCW-30-2	2*15	34.44	348	16.2
HLCW-40-2	2*40	40.42	450	19.0
HLCW-50-2	2*25	50.58	544	23.8
HLCW-60-2	2*30	63.32	620	29.8
HLCW-20-4	4*5	22.68	262	10.7
HLCW-24-4	4*6	23.92	296	11.3
HLCW-28-4	4*7	31.4	404	14.8
HCLA-32-4	4*8	38.76	380	18.2
HLCW-36-4	4*9	42.28	444	19.9
HLCW-40-4	4*10	47.2	472	22.2
HLCW-48-4	4*12	44.2	472	20.8
HLCW-52-4	4*13	51.4	560	24.2
HLCW-60-4	4*15	68.88	696	32.4
HLCW-80-4	4*20	80.84	900	38.0
HLCW-100-4	4*25	101.16	1088	47.6
HLCW-120-4	4*30	126.64	1240	59.6



Engineering Specifications-50 Hz (R-22)-copeland

Model	HLCW	HLCW-5-1	HLCW-6-1	HLCW-7-1	HLCW-8-1	HLCW-9-1	HLCW-10-1
cooling capacity	TR	4.14	5.00	5.62	6.60	7.45	8.79
	kW	14.55	17.6	19.75	23.2	26.2	30.9
Compressor	Copeland Scroll						
QTY		1	1	1	1	1	1
Oil Charge	USGal	0.45	0.48	0.48	0.71	0.90	0.90
	Litre	1.7	1.8	1.8	2.7	3.4	3.4
Condenser	Condenser shell & tube						
QTY		1					
Ref. Circuits		1	1	1	1	1	1
Water Volume	GPM	12.41	15.01	16.85	19.79	22.35	26.36
	Litre/s	0.78	0.95	1.06	1.25	1.41	1.66
Evaporator	Direct Expansion shell & tube						
QTY		1					
Ref. Circuits		1	1	1	1	1	1
Water Volume	GPM	9.93	12.01	13.48	15.83	17.88	21.09
	Litre/s	0.63	0.76	0.85	1.00	1.13	1.33
Refrigerant Charge (R22)(Approx)	Lb	11.0	13.2	15.4	17.6	19.8	22.0
	Kg	5	6	7	8	9	10
Operating Weight (Approx)	Lb	771	771	771	771	771	992
	Kg	350	350	350	350	350	450

Model	HLCW	HLCW-12-1	HLCW-13-1	HLCW-15-1	HLCW-20-1	HLCW-25-1	HLCW-30-1
cooling capacity	TR	10.09	10.92	13.25	16.72	20.76	25.65
	kW	35.5	38.4	46.6	58.8	73	90.2
Compressor	Copeland Scroll						
QTY		1	1	1	1	1	1
Oil Charge	USGal	0.90	0.90	1.03	1.24	1.80	1.66
	Litre	3.4	3.4	3.9	4.7	6.8	6.3
Condenser	Condenser shell & tube						
QTY		1					
Ref. Circuits		1	1	1	1	1	1
Water Volume	GPM	30.28	32.76	39.75	50.16	62.27	76.94
	Litre/s	1.91	2.07	2.51	3.16	3.93	4.85
Evaporator	Direct Expansion shell & tube						
QTY		1					
Ref. Circuits		1	1	1	1	1	1
Water Volume	GPM	24.23	26.21	31.80	40.13	49.82	61.56
	Litre/s	1.53	1.65	2.01	2.53	3.14	3.88
Refrigerant Charge (R22)(Approx)	Lb	26.4	28.7	33.1	44.1	55.1	66.1
	Kg	12	13	15	20	25	30
Operating Weight (Approx)	Lb	991.8	991.8	1102	1653	1653	1763.2
	Kg	450	450	500	750	750	800

Model	HLCW	HLCW-10-2	HLCW-12-2	HLCW-14-2	HLCW-16-2	HLCW-18-2	HLCW-20-2
cooling capacity	TR	8.27	10.01	11.23	13.19	14.90	17.57
	kW	29.10	35.20	39.50	46.40	52.40	61.80
Compressor	Copeland Scroll						
QTY		2	2	2	2	2	2
Oil Charge	USGal	0.90	0.95	0.95	1.43	1.80	1.80
	Litre	3.4	3.6	3.6	5.4	6.8	6.8
Condenser	Condenser shell & tube						
QTY		1					
Ref. Circuits		2	2	2	2	2	2
Water Volume	GPM	24.82	30.03	33.69	39.58	44.70	52.72
	Litre/s	1.57	1.89	2.13	2.50	2.82	3.33
Evaporator	Direct Expansion shell & tube						
QTY		1					
Ref. Circuits		2	2	2	2	2	2
Water Volume	GPM	19.86	24.02	26.96	31.66	35.76	42.17
	Litre/s	1.25	1.52	1.70	2.00	2.26	2.66
Refrigerant Charge (R22)(Approx)	Lb	22.0	26.4	30.9	35.3	39.7	44.1
	Kg	10.0	12.0	14.0	16.0	18.0	20.0
Operating Weight (Approx)	Lb	1322	1322	1322	1433	1433	1433
	Kg	600	600	600	650	650	650

Model	HLCW	HLCW-24-2	HLCW-26-2	HLCW-30-2	HLCW-40-2	HLCW-50-2	HLCW-60-2
cooling capacity	TR	20.19	21.84	26.50	33.44	41.51	51.30
	kW	71.00	76.80	93.20	117.60	146.00	180.40
Compressor	Copeland Scroll						
QTY		2	2	2	2	2	2
Oil Charge	USGal	1.80	1.80	2.06	2.48	3.59	3.33
	Litre	6.8	6.8	7.8	9.4	13.6	12.6
Condenser	Condenser shell & tube						
QTY		1					
Ref. Circuits		2	2	2	2	2	2
Water Volume	GPM	60.57	65.51	79.50	100.32	124.54	153.89
	Litre/s	3.82	4.13	5.02	6.33	7.86	9.71
Evaporator	Direct Expansion shell & tube						
QTY		1					
Ref. Circuits		2	2	2	2	2	2
Water Volume	GPM	48.45	52.41	63.60	80.25	99.63	123.11
	Litre/s	3.06	3.31	4.01	5.06	6.29	7.77
Refrigerant Charge (R22)(Approx)	Lb	52.9	57.3	66.1	88.2	110.2	132.2
	Kg	24	26	30	40	50	60
Operating Weight (Approx)	Lb	1433	1543	1763	2094	2094	2424
	Kg	650	700	800	950	950	1100

Model	HLCW	HLCW-20-4	HLCW-24-4	HLCW-28-4	HLCW-32-4	HLCW-36-4	HLCW-40-4
cooling capacity	TR	16.55	20.02	22.46	26.39	29.80	35.15
	kW	58.20	70.40	79.00	92.80	104.80	123.60
Compressor	Copeland Scroll						
QTY		4	4	4	4	4	4
Oil Charge	USGal	1.80	1.90	1.90	2.85	3.59	3.59
	Litre	6.8	7.2	7.2	10.8	13.6	13.6
Condenser	Condenser shell & tube						
QTY		1					
Ref. Circuits		2	2	2	2	2	2
Water Volume	GPM	49.65	60.05	67.39	79.16	89.40	105.44
	Litre/s	3.13	3.79	4.25	4.99	5.64	6.65
Evaporator	Direct Expansion shell & tube						
QTY		1					
Ref. Circuits		2	2	2	2	2	2
Water Volume	GPM	39.72	48.04	53.91	63.33	71.52	84.35
	Litre/s	2.51	3.03	3.40	4.00	4.51	5.32
Refrigerant Charge (R22)(Approx)	Lb	44.08	52.90	61.71	70.53	79.34	88.16
	Kg	20.00	24.00	28.00	32.00	36.00	40.00
Operating Weight (Approx)	Lb	1873	1873	1984	1984	2094	2094
	Kg	850	850	900	900	950	950

Model	HLCW	HLCW-48-4	HLCW-52-4	HLCW-60-4	HLCW-80-4	HLCW-100-4	HLCW-120-4
cooling capacity	TR	40.38	43.68	53.00	66.88	83.03	102.59
	kW	142.00	153.60	186.40	235.20	292.00	360.80
Compressor	Copeland Scroll						
QTY		4	4	4	4	4	4
Oil Charge	USGal	3.59	3.59	4.12	4.97	7.19	6.66
	Litre	13.6	13.6	15.6	18.8	27.2	25.2
Condenser	Condenser shell & tube						
QTY		1					
Ref. Circuits		2	2	2	2	2	2
Water Volume	GPM	121.13	131.03	159.01	200.63	249.09	307.78
	Litre/s	7.64	8.27	10.03	12.66	15.71	19.42
Evaporator	Direct Expansion shell & tube						
QTY		1					
Ref. Circuits		2	2	2	2	2	2
Water Volume	GPM	96.90	104.82	127.20	160.51	199.27	246.22
	Litre/s	6.11	6.61	8.03	10.13	12.57	15.53
Refrigerant Charge (R22)(Approx)	Lb	105.79	114.61	132.24	176.32	220.40	264.48
	Kg	48.00	52.00	60.00	80.00	100.00	120.00
Operating Weight (Approx)	Lb	2204	2204	2314	3086	3637	3747
	Kg	1000	1000	1050	1400	1650	1700

CONDENSER ENTERING/LEAVING WATER TEMP.=25/30°C						
TABLE-1-LEAVING CHILLED WATER TEMP.= 5,5°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	3.88	13.65	9.32	0.6	11.64	0.9
HLCW-6-1	4.72	16.6	11.33	0.7	14.16	1
HLCW-7-1	5.29	18.6	12.69	0.7	15.87	1
HCLW-8-1	6.20	21.8	14.88	0.7	18.60	1
HLCW-9-1	7.02	24.7	16.86	0.8	21.07	1.1
HLCW-10-1	8.27	29.1	19.86	0.9	24.82	1.2
HLCW-12-1	9.53	33.5	22.86	1	28.58	1.3
HLCW-13-1	10.29	36.2	24.70	1.1	30.88	1.4
HLCW-15-1	12.20	42.9	29.28	1.8	36.60	2.1
HLCW-20-1	15.75	55.4	37.81	2.5	47.26	2.8
HLCW-25-1	19.62	69	47.09	3.8	58.86	4.1
HLCW-30-1	24.20	85.1	58.07	6.3	72.59	6.6
HLCW-10-2	7.76	27.3	18.63	0.9	23.29	1.2
HLCW-12-2	9.44	33.2	22.66	1	28.32	1.3
HLCW-14-2	10.58	37.2	25.39	1.3	31.73	1.6
HCLW-16-2	12.40	43.6	29.75	1.8	37.19	2.1
HLCW-18-2	14.05	49.4	33.71	2.3	42.14	2.6
HLCW-20-2	16.55	58.2	39.72	2.8	49.65	3.1
HLCW-24-2	19.05	67	45.72	3.6	57.15	3.9
HLCW-26-2	20.59	72.4	49.41	4	61.76	4.3
HLCW-30-2	24.40	85.8	58.55	6.3	73.19	6.6
HLCW-40-2	31.51	110.8	75.61	10.5	94.52	10.8
HLCW-50-2	39.24	138	94.18	13	117.72	13.3
HLCW-60-2	48.40	170.2	116.15	18.5	145.19	18.8
HLCW-20-4	15.53	54.6	37.26	3	46.58	3.3
HLCW-24-4	18.88	66.4	45.31	3.6	56.64	3.9
HLCW-28-4	21.16	74.4	50.77	5	63.47	5.3
HCLW-32-4	24.79	87.2	59.51	6.4	74.38	7
HLCW-36-4	28.09	98.8	67.42	7	84.28	7.6
HLCW-40-4	33.10	116.4	79.43	9.4	99.29	10
HLCW-48-4	38.10	134	91.45	12.4	114.31	13
HLCW-52-4	41.17	144.8	98.82	13.3	123.52	13.9
HLCW-60-4	48.79	171.6	117.10	19	146.38	19.6
HLCW-80-4	63.01	221.6	151.23	19.8	189.03	20.4
HLCW-100-4	78.48	276	188.35	20	235.44	20.6
HLCW-120-4	96.79	340.4	232.30	21	290.37	21.6

CONDENSER ENTERING/LEAVING WATER TEMP.=25/30°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=6,6°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	4.04	14.2	9.69	0.7	12.11	1
HLCW-6-1	4.90	17.25	11.77	0.8	14.71	1.1
HLCW-7-1	5.50	19.35	13.20	0.8	16.51	1.1
HCLW-8-1	6.45	22.7	15.49	0.8	19.36	1.1
HLCW-9-1	7.31	25.7	17.54	0.9	21.92	1.2
HLCW-10-1	8.59	30.2	20.61	1	25.76	1.3
HLCW-12-1	9.90	34.8	23.75	1.1	29.69	1.4
HLCW-13-1	10.69	37.6	25.66	1.2	32.07	1.5
HLCW-15-1	12.68	44.6	30.44	1.9	38.05	2.2
HLCW-20-1	16.38	57.6	39.31	2.6	49.13	2.9
HLCW-25-1	20.42	71.8	49.00	3.9	61.25	4.2
HLCW-30-1	25.14	88.4	60.33	6.4	75.41	6.7
HLCW-10-2	8.08	28.4	19.38	1	24.23	1.3
HLCW-12-2	9.81	34.5	23.54	1.1	29.43	1.4
HLCW-14-2	11.00	38.7	26.41	1.4	33.01	1.7
HCLW-16-2	12.91	45.4	30.98	1.9	38.73	2.2
HLCW-18-2	14.62	51.4	35.08	2.4	43.85	2.7
HLCW-20-2	17.17	60.4	41.22	2.9	51.52	3.2
HLCW-24-2	19.79	69.6	47.50	3.7	59.37	4
HLCW-26-2	21.38	75.2	51.32	4.1	64.15	4.4
HLCW-30-2	25.36	89.2	60.87	6.5	76.09	6.7
HLCW-40-2	32.76	115.2	78.62	10.7	98.27	10.9
HLCW-50-2	40.83	143.6	98.00	13.2	122.50	13.4
HLCW-60-2	50.27	176.8	120.65	18.7	150.82	18.9
HLCW-20-4	16.15	56.8	38.76	3.2	48.45	3.4
HLCW-24-4	19.62	69	47.09	3.8	58.86	3.9
HLCW-28-4	22.01	77.4	52.82	5.2	66.02	5.5
HCLW-32-4	25.82	90.8	61.96	6.6	77.46	7.2
HLCW-36-4	29.23	102.8	70.15	7.2	87.69	7.8
HLCW-40-4	34.35	120.8	82.44	9.6	103.05	10.2
HLCW-48-4	39.58	139.2	94.99	12.6	118.74	13.2
HLCW-52-4	42.77	150.4	102.64	13.5	128.30	14.1
HLCW-60-4	50.73	178.4	121.75	19.2	152.18	19.8
HLCW-80-4	65.51	230.4	157.23	20	196.54	20.6
HLCW-100-4	81.66	287.2	195.99	20.2	244.99	20.8
HLCW-120-4	100.54	353.6	241.31	21.2	301.63	21.8

CONDENSER ENTERING/LEAVING WATER TEMP.=25/30°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,2°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	4.14	14.55	9.93	0.8	12.41	1.2
HLCW-6-1	5.00	17.6	12.01	0.9	15.01	1.3
HLCW-7-1	5.62	19.75	13.48	0.9	16.85	1.3
HCLW-8-1	6.60	23.2	15.83	0.9	19.79	1.3
HLCW-9-1	7.45	26.2	17.88	1	22.35	1.4
HLCW-10-1	8.79	30.9	21.09	1.1	26.36	1.5
HLCW-12-1	10.09	35.5	24.23	1.2	30.28	1.6
HLCW-13-1	10.92	38.4	26.21	1.3	32.76	1.7
HLCW-15-1	13.05	46.6	31.32	2	39.15	2.4
HLCW-20-1	16.72	58.8	40.13	2.7	50.16	3.1
HLCW-25-1	20.76	73	49.82	4	62.27	4.4
HLCW-30-1	25.65	90.2	61.56	6.5	76.94	6.9
HLCW-10-2	8.27	29.1	19.86	1.1	24.82	1.5
HLCW-12-2	10.01	35.2	24.02	1.2	30.03	1.6
HLCW-14-2	11.23	39.5	26.96	1.5	33.69	1.9
HCLW-16-2	13.19	46.4	31.66	2	39.58	2.4
HLCW-18-2	14.90	52.4	35.76	2.5	44.70	2.9
HLCW-20-2	17.57	61.8	42.17	3	52.72	3.4
HLCW-24-2	20.19	71	48.45	3.8	60.57	4.2
HLCW-26-2	21.84	76.8	52.41	4.2	65.51	4.6
HLCW-30-2	26.50	93.2	63.60	6.6	79.50	6.9
HLCW-40-2	33.44	117.6	80.25	10.8	100.32	11.1
HLCW-50-2	41.51	146	99.63	13.3	124.54	13.6
HLCW-60-2	51.30	180.4	123.11	18.8	153.89	19.1
HLCW-20-4	16.55	58.2	39.72	3.3	49.65	3.6
HLCW-24-4	20.02	70.4	48.04	3.9	60.05	4.1
HLCW-28-4	22.46	79	53.91	5.3	67.39	5.7
HCLW-32-4	26.39	92.8	63.33	6.7	79.16	7.4
HLCW-36-4	29.80	104.8	71.52	7.3	89.40	8
HLCW-40-4	35.15	123.6	84.35	9.7	105.44	10.4
HLCW-48-4	40.38	142	96.90	12.7	121.13	13.4
HLCW-52-4	43.68	153.6	104.82	13.6	131.03	14.4
HLCW-60-4	53.00	186.4	127.20	19.3	159.01	20.1
HLCW-80-4	66.88	235.2	160.51	20.1	200.63	20.9
HLCW-100-4	83.03	292	199.27	20.3	249.09	21.1
HLCW-120-4	102.59	360.8	246.22	21.3	307.78	22.1

CONDENSER ENTERING/LEAVING WATER TEMP.=25/30°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,4°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	4.17	14.65	10.00	0.9	12.50	1.3
HLCW-6-1	5.05	17.75	12.11	1	15.14	1.4
HLCW-7-1	5.64	19.85	13.55	1	16.93	1.4
HCLW-8-1	6.65	23.4	15.97	1	19.96	1.4
HLCW-9-1	7.51	26.4	18.02	1.1	22.52	1.5
HLCW-10-1	8.84	31.1	21.22	1.2	26.53	1.6
HLCW-12-1	10.15	35.7	24.36	1.3	30.45	1.7
HLCW-13-1	10.98	38.6	26.34	1.4	32.93	1.8
HLCW-15-1	13.25	45.9	31.80	2.1	39.75	2.5
HLCW-20-1	16.86	59.3	40.47	2.8	50.58	3.2
HLCW-25-1	21.01	73.9	50.43	4.1	63.04	4.5
HLCW-30-1	25.82	90.8	61.96	6.6	77.46	7
HLCW-10-2	8.33	29.3	20.00	1.2	24.99	1.6
HLCW-12-2	10.09	35.5	24.23	1.3	30.28	1.7
HLCW-14-2	11.29	39.7	27.09	1.6	33.87	2
HCLW-16-2	13.31	46.8	31.94	2.1	39.92	2.5
HLCW-18-2	15.01	52.8	36.03	2.6	45.04	3
HLCW-20-2	17.69	62.2	42.45	3.1	53.06	3.5
HLCW-24-2	20.30	71.4	48.73	3.9	60.91	4.3
HLCW-26-2	21.95	77.2	52.68	4.3	65.85	4.7
HLCW-30-2	26.10	91.8	62.65	6.7	78.31	7
HLCW-40-2	33.72	118.6	80.94	10.9	101.17	11.2
HLCW-50-2	42.03	147.8	100.86	13.4	126.08	13.7
HLCW-60-2	51.64	181.6	123.93	18.9	154.91	19.2
HLCW-20-4	16.66	58.6	39.99	3.4	49.99	3.7
HLCW-24-4	20.19	71	48.45	4	60.57	4.2
HLCW-28-4	22.58	79.4	54.18	5.4	67.73	5.8
HCLW-32-4	26.61	93.6	63.88	6.8	79.84	7.5
HLCW-36-4	30.03	105.6	72.06	7.4	90.08	8.1
HLCW-40-4	35.37	124.4	84.89	9.8	106.12	10.5
HLCW-48-4	40.60	142.8	97.45	12.8	121.81	13.5
HLCW-52-4	43.90	154.4	105.37	13.7	131.71	14.5
HLCW-60-4	52.21	183.6	125.29	19.4	156.62	20.2
HLCW-80-4	67.45	237.2	161.87	20.2	202.34	21
HLCW-100-4	84.05	295.6	201.73	20.4	252.16	21.2
HLCW-120-4	103.27	363.2	247.86	21.4	309.82	22.2

CONDENSER ENTERING/LEAVING WATER TEMP.=27/32°C						
TABLE-1-LEAVING CHILLED WATER TEMP.= 5,5°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	3.81	13.4	9.14	0.5	11.43	0.8
HLCW-6-1	4.63	16.3	11.12	0.6	13.90	0.9
HLCW-7-1	5.20	18.3	12.49	0.6	15.61	0.9
HCLW-8-1	6.08	21.4	14.60	0.6	18.25	0.9
HLCW-9-1	6.91	24.3	16.58	0.7	20.73	1
HLCW-10-1	8.13	28.6	19.52	0.8	24.40	1.1
HLCW-12-1	9.35	32.9	22.45	0.9	28.06	1.2
HLCW-13-1	10.09	35.5	24.23	1	30.28	1.3
HLCW-15-1	11.97	42.1	28.73	1.7	35.91	2
HLCW-20-1	15.47	54.4	37.12	2.4	46.41	2.7
HLCW-25-1	19.28	67.8	46.27	3.7	57.84	4
HLCW-30-1	23.83	83.8	57.19	6.2	71.48	6.5
HLCW-10-2	7.62	26.8	18.29	0.8	22.86	1.1
HLCW-12-2	9.27	32.6	22.25	0.9	27.81	1.2
HLCW-14-2	10.41	36.6	24.98	1.2	31.22	1.5
HCLW-16-2	12.17	42.8	29.21	1.7	36.51	2
HLCW-18-2	13.82	48.6	33.17	2.2	41.46	2.5
HLCW-20-2	16.26	57.2	39.03	2.7	48.79	3
HLCW-24-2	18.71	65.8	44.90	3.5	56.13	3.8
HLCW-26-2	20.19	71	48.45	3.9	60.57	4.1
HLCW-30-2	23.94	84.2	57.46	6.2	71.83	6.2
HLCW-40-2	30.94	108.8	74.25	10.4	92.81	10.4
HLCW-50-2	38.56	135.6	92.54	12.9	115.67	12.9
HLCW-60-2	47.66	167.6	114.37	18.4	142.97	18.4
HLCW-20-4	15.24	53.6	36.58	2.9	45.72	2.9
HLCW-24-4	18.54	65.2	44.49	3.5	55.62	3.5
HLCW-28-4	20.81	73.2	49.95	4.7	62.44	4.9
HCLW-32-4	24.34	85.6	58.42	6.1	73.02	6.3
HLCW-36-4	27.64	97.2	66.33	6.7	82.92	7.2
HLCW-40-4	32.53	114.4	78.07	9.1	97.59	9.6
HLCW-48-4	37.42	131.6	89.81	12.1	112.26	12.6
HLCW-52-4	40.38	142	96.90	12.4	121.13	13.5
HLCW-60-4	47.88	168.4	114.92	18.1	143.65	19.2
HLCW-80-4	61.87	217.6	148.50	18.9	185.62	20
HLCW-100-4	77.11	271.2	185.07	19.1	231.34	20.2
HLCW-120-4	95.31	335.2	228.75	20.1	285.94	21.2

CONDENSER ENTERING/LEAVING WATER TEMP.=27/32°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=6,6°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	3.97	13.95	9.52	0.6	11.90	0.9
HLCW-6-1	4.82	16.95	11.57	0.7	14.46	1
HLCW-7-1	5.42	19.05	13.00	0.7	16.25	1
HCLW-8-1	6.34	22.3	15.22	0.7	19.02	1
HLCW-9-1	7.17	25.2	17.20	0.8	21.50	1.1
HLCW-10-1	8.45	29.7	20.27	0.9	25.34	1.2
HLCW-12-1	9.67	34	23.20	1	29.00	1.3
HLCW-13-1	10.49	36.9	25.18	1.1	31.48	1.4
HLCW-15-1	12.45	43.8	29.89	1.8	37.36	2.1
HLCW-20-1	16.09	56.6	38.63	2.5	48.28	2.8
HLCW-25-1	20.07	70.6	48.18	3.8	60.22	4.1
HLCW-30-1	24.74	87	59.37	6.3	74.21	6.6
HLCW-10-2	7.93	27.9	19.04	0.9	23.80	1.2
HLCW-12-2	9.64	33.9	23.13	1	28.92	1.3
HLCW-14-2	10.83	38.1	26.00	1.3	32.50	1.6
HCLW-16-2	12.68	44.6	30.44	1.8	38.05	2.1
HLCW-18-2	14.33	50.4	34.39	2.3	42.99	2.6
HLCW-20-2	16.89	59.4	40.54	2.8	50.67	3.1
HLCW-24-2	19.34	68	46.41	3.6	58.01	3.9
HLCW-26-2	20.98	73.8	50.36	4	62.95	4.2
HLCW-30-2	24.91	87.6	59.78	6.4	74.73	6.3
HLCW-40-2	32.19	113.2	77.25	10.6	96.56	10.5
HLCW-50-2	40.15	141.2	96.36	13.1	120.45	13
HLCW-60-2	49.48	174	118.74	18.6	148.43	18.5
HLCW-20-4	15.87	55.8	38.08	3.1	47.60	3
HLCW-24-4	19.28	67.8	46.27	3.7	57.84	3.6
HLCW-28-4	21.67	76.2	52.00	4.9	65.00	5.1
HCLW-32-4	25.36	89.2	60.87	6.3	76.09	6.5
HLCW-36-4	28.66	100.8	68.79	6.9	85.99	7.4
HLCW-40-4	33.78	118.8	81.07	9.3	101.34	9.8
HLCW-48-4	38.67	136	92.81	12.5	116.01	12.8
HLCW-52-4	41.97	147.6	100.73	12.8	125.91	13.7
HLCW-60-4	49.82	175.2	119.56	18.5	149.45	19.4
HLCW-80-4	64.38	226.4	154.50	19.3	193.13	20.2
HLCW-100-4	80.30	282.4	192.72	19.5	240.90	20.4
HLCW-120-4	98.95	348	237.48	20.5	296.86	21.4

CONDENSER ENTERING/LEAVING WATER TEMP.=27/32°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,2°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	4.05	14.25	9.72	0.7	12.16	1
HLCW-6-1	4.92	17.3	11.81	0.8	14.76	1.1
HLCW-7-1	5.53	19.45	13.27	0.8	16.59	1.1
HCLW-8-1	6.48	22.8	15.56	0.8	19.45	1.1
HLCW-9-1	7.34	25.8	17.61	0.9	22.01	1.2
HLCW-10-1	8.62	30.3	20.68	1	25.85	1.3
HLCW-12-1	9.92	34.9	23.82	1.1	29.77	1.4
HLCW-13-1	10.72	37.7	25.73	1.2	32.16	1.5
HLCW-15-1	12.71	44.7	30.50	1.9	38.13	2.2
HLCW-20-1	16.44	57.8	39.44	2.6	49.31	2.9
HLCW-25-1	20.53	72.2	49.27	3.9	61.59	4.2
HLCW-30-1	25.25	88.8	60.60	6.4	75.75	6.7
HLCW-10-2	8.10	28.5	19.45	1	24.31	1.3
HLCW-12-2	9.84	34.6	23.61	1.1	29.52	1.4
HLCW-14-2	11.06	38.9	26.55	1.4	33.18	1.7
HCLW-16-2	12.97	45.6	31.12	1.9	38.90	2.2
HLCW-18-2	14.67	51.6	35.21	2.4	44.02	2.7
HLCW-20-2	17.23	60.6	41.36	2.9	51.69	3.2
HLCW-24-2	19.85	69.8	47.63	3.7	59.54	4
HLCW-26-2	21.44	75.4	51.46	4.1	64.32	4.3
HLCW-30-2	25.42	89.4	61.01	6.5	76.26	6.4
HLCW-40-2	32.87	115.6	78.89	10.7	98.61	10.6
HLCW-50-2	41.06	144.4	98.54	13.3	123.18	13.1
HLCW-60-2	50.50	177.6	121.20	18.8	151.50	18.6
HLCW-20-4	16.21	57	38.90	3.3	48.62	3.1
HLCW-24-4	19.68	69.2	47.22	3.9	59.03	3.7
HLCW-28-4	22.12	77.8	53.09	5.1	66.37	5.2
HCLW-32-4	25.93	91.2	62.24	6.5	77.80	6.6
HLCW-36-4	29.34	103.2	70.43	7.1	88.03	7.5
HLCW-40-4	34.46	121.2	82.71	9.5	103.39	9.9
HLCW-48-4	39.69	139.6	95.27	12.7	119.08	12.9
HLCW-52-4	42.88	150.8	102.91	13	128.64	13.8
HLCW-60-4	50.84	178.8	122.02	18.7	152.52	19.5
HLCW-80-4	65.74	231.2	157.78	19.5	197.22	20.3
HLCW-100-4	82.12	288.8	197.09	19.7	246.36	20.5
HLCW-120-4	101.00	355.2	242.40	20.7	303.00	21.5

CONDENSER ENTERING/LEAVING WATER TEMP.=27/32°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,4°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	4.08	14.35	9.79	0.8	12.24	1.2
HLCW-6-1	4.96	17.45	11.91	0.9	14.89	1.3
HLCW-7-1	5.56	19.55	13.34	0.9	16.68	1.3
HCLW-8-1	6.54	23	15.70	0.9	19.62	1.3
HLCW-9-1	7.36	25.9	17.67	1	22.09	1.4
HLCW-10-1	8.67	30.5	20.81	1.1	26.02	1.5
HLCW-12-1	9.98	35.1	23.95	1.2	29.94	1.6
HLCW-13-1	10.81	38	25.93	1.3	32.42	1.7
HLCW-15-1	12.82	45.1	30.78	2	38.47	2.4
HLCW-20-1	16.55	58.2	39.72	2.7	49.65	3.1
HLCW-25-1	20.67	72.7	49.61	4	62.02	4.4
HLCW-30-1	25.42	89.4	61.01	6.5	76.26	6.9
HLCW-10-2	8.16	28.7	19.59	1.1	24.48	1.5
HLCW-12-2	9.92	34.9	23.82	1.2	29.77	1.6
HLCW-14-2	11.12	39.1	26.68	1.5	33.35	1.9
HCLW-16-2	13.08	46	31.39	2	39.24	2.4
HLCW-18-2	14.73	51.8	35.35	2.5	44.19	2.9
HLCW-20-2	17.35	61	41.63	3	52.04	3.4
HLCW-24-2	19.96	70.2	47.91	3.8	59.88	4.2
HLCW-26-2	21.61	76	51.86	4.2	64.83	4.5
HLCW-30-2	25.65	90.2	61.56	6.6	76.94	6.6
HLCW-40-2	33.10	116.4	79.43	10.8	99.29	10.8
HLCW-50-2	41.34	145.4	99.23	13.4	124.03	13.3
HLCW-60-2	50.84	178.8	122.02	18.9	152.52	18.8
HLCW-20-4	16.32	57.4	39.17	3.5	48.96	3.3
HLCW-24-4	19.85	69.8	47.63	4.1	59.54	3.9
HLCW-28-4	22.24	78.2	53.37	5.3	66.71	5.4
HCLW-32-4	26.16	92	62.78	6.7	78.48	6.8
HLCW-36-4	29.46	103.6	70.70	7.3	88.37	7.7
HLCW-40-4	34.69	122	83.26	9.7	104.07	10.1
HLCW-48-4	39.92	140.4	95.81	12.9	119.77	13.1
HLCW-52-4	43.22	152	103.73	13.2	129.66	14
HLCW-60-4	51.30	180.4	123.11	18.9	153.89	19.7
HLCW-80-4	66.20	232.8	158.87	19.7	198.59	20.5
HLCW-100-4	82.69	290.8	198.45	19.9	248.06	20.7
HLCW-120-4	101.68	357.6	244.04	20.9	305.05	21.7

CONDENSER ENTERING/LEAVING WATER TEMP.=30/35°C						
TABLE-1-LEAVING CHILLED WATER TEMP.= 5,5°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	3.68	12.95	8.84	0.5	11.05	0.7
HLCW-6-1	4.51	15.85	10.82	0.6	13.52	0.8
HLCW-7-1	5.06	17.8	12.15	0.6	15.18	0.8
HCLW-8-1	5.91	20.8	14.19	0.6	17.74	0.8
HLCW-9-1	6.71	23.6	16.11	0.7	20.13	0.9
HLCW-10-1	7.90	27.8	18.97	0.8	23.71	1
HLCW-12-1	9.10	32	21.84	0.9	27.30	1.1
HLCW-13-1	9.81	34.5	23.54	1	29.43	1.2
HLCW-15-1	11.60	40.8	27.84	1.7	34.80	1.9
HLCW-20-1	15.07	53	36.17	2.4	45.21	2.6
HLCW-25-1	18.74	65.9	44.97	3.6	56.22	3.9
HLCW-30-1	23.26	81.8	55.82	6.1	69.78	6.4
HLCW-10-2	7.36	25.9	17.67	0.7	22.09	0.9
HLCW-12-2	9.01	31.7	21.63	0.8	27.04	1
HLCW-14-2	10.12	35.6	24.29	1.1	30.37	1.3
HCLW-16-2	11.83	41.6	28.39	1.6	35.49	1.8
HLCW-18-2	13.42	47.2	32.21	2.1	40.26	2.3
HLCW-20-2	15.81	55.6	37.94	2.6	47.43	2.8
HLCW-24-2	18.20	64	43.68	3.4	54.59	3.6
HLCW-26-2	19.62	69	47.09	3.8	58.86	3.9
HLCW-30-2	23.20	81.6	55.69	6.1	69.61	6
HLCW-40-2	30.14	106	72.34	10.3	90.42	10.2
HLCW-50-2	37.48	131.8	89.94	12.8	112.43	12.6
HLCW-60-2	46.52	163.6	111.65	18.3	139.56	18.3
HLCW-20-4	14.73	51.8	35.35	2.8	44.19	2.8
HLCW-24-4	18.03	63.4	43.27	3.2	54.08	3.4
HLCW-28-4	20.25	71.2	48.59	4.4	60.74	4.6
HCLW-32-4	23.66	83.2	56.78	5.8	70.97	6
HLCW-36-4	26.84	94.4	64.42	6.4	80.53	6.6
HLCW-40-4	31.62	111.2	75.89	8.8	94.86	9
HLCW-48-4	36.40	128	87.35	11.8	109.19	12
HLCW-52-4	39.24	138	94.18	12.1	117.72	12.3
HLCW-60-4	46.41	163.2	111.37	17.8	139.22	18
HLCW-80-4	60.28	212	144.67	18.6	180.84	18.8
HLCW-100-4	74.95	263.6	179.89	18.8	224.86	19
HLCW-120-4	93.04	327.2	223.29	19.8	279.11	20

CONDENSER ENTERING/LEAVING WATER TEMP.=30/35°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=6,6°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	3.84	13.5	9.21	0.7	11.52	0.8
HLCW-6-1	4.69	16.5	11.26	0.8	14.08	0.9
HLCW-7-1	5.27	18.55	12.66	0.8	15.82	0.9
HCLW-8-1	6.17	21.7	14.81	0.8	18.51	0.9
HLCW-9-1	6.97	24.5	16.72	0.9	20.90	1
HLCW-10-1	8.22	28.9	19.72	1	24.65	1.1
HLCW-12-1	9.44	33.2	22.66	1.1	28.32	1.2
HLCW-13-1	10.21	35.9	24.50	1.2	30.62	1.3
HLCW-15-1	12.08	42.5	29.00	1.9	36.25	2
HLCW-20-1	15.64	55	37.53	2.6	46.92	2.7
HLCW-25-1	19.53	68.7	46.88	3.8	58.60	4
HLCW-30-1	24.14	84.9	57.94	6.3	72.42	6.5
HLCW-10-2	7.68	27	18.43	0.9	23.03	1
HLCW-12-2	9.38	33	22.52	1	28.15	1.1
HLCW-14-2	10.55	37.1	25.32	1.3	31.65	1.4
HCLW-16-2	12.34	43.4	29.62	1.8	37.02	1.9
HLCW-18-2	13.93	49	33.44	2.3	41.80	2.4
HLCW-20-2	16.44	57.8	39.44	2.8	49.31	2.9
HLCW-24-2	18.88	66.4	45.31	3.6	56.64	3.7
HLCW-26-2	20.42	71.8	49.00	4	61.25	4
HLCW-30-2	24.17	85	58.01	6.3	72.51	6.1
HLCW-40-2	31.28	110	75.07	10.5	93.83	10.3
HLCW-50-2	39.07	137.4	93.77	13	117.21	12.7
HLCW-60-2	48.28	169.8	115.88	18.5	144.85	18.4
HLCW-20-4	15.35	54	36.85	3	46.06	2.9
HLCW-24-4	18.77	66	45.04	3.4	56.30	3.5
HLCW-28-4	21.10	74.2	50.64	4.6	63.30	4.7
HCLW-32-4	24.68	86.8	59.23	6	74.04	6.1
HLCW-36-4	27.87	98	66.88	6.6	83.60	6.7
HLCW-40-4	32.87	115.6	78.89	9	98.61	9.1
HLCW-48-4	37.76	132.8	90.63	12	113.28	12.1
HLCW-52-4	40.83	143.6	98.00	12.3	122.50	12.4
HLCW-60-4	48.34	170	116.01	18	145.02	18.1
HLCW-80-4	62.56	220	150.13	18.8	187.67	18.9
HLCW-100-4	78.14	274.8	187.53	19	234.41	19.1
HLCW-120-4	96.56	339.6	231.75	20	289.69	20.1

CONDENSER ENTERING/LEAVING WATER TEMP.=30/35°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,2°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	3.94	13.85	9.45	0.8	11.81	0.9
HLCW-6-1	4.79	16.85	11.50	0.9	14.37	1
HLCW-7-1	5.39	18.95	12.93	0.9	16.17	1
HCLW-8-1	6.31	22.2	15.15	0.9	18.94	1
HLCW-9-1	7.14	25.1	17.13	1	21.41	1.1
HLCW-10-1	8.39	29.5	20.13	1.1	25.16	1.2
HLCW-12-1	9.64	33.9	23.13	1.2	28.92	1.3
HLCW-13-1	10.44	36.7	25.05	1.3	31.31	1.4
HLCW-15-1	12.37	43.5	29.69	2	37.11	2.1
HLCW-20-1	16.01	56.3	38.42	2.7	48.03	2.8
HLCW-25-1	19.96	70.2	47.91	3.9	59.88	4.1
HLCW-30-1	24.65	86.7	59.17	6.4	73.96	6.6
HLCW-10-2	7.88	27.7	18.90	1	23.63	1.1
HLCW-12-2	9.58	33.7	23.00	1.1	28.75	1.2
HLCW-14-2	10.78	37.9	25.86	1.4	32.33	1.5
HCLW-16-2	12.62	44.4	30.30	1.9	37.87	2
HLCW-18-2	14.27	50.2	34.26	2.4	42.82	2.5
HLCW-20-2	16.78	59	40.26	2.9	50.33	3
HLCW-24-2	19.28	67.8	46.27	3.7	57.84	3.8
HLCW-26-2	20.87	73.4	50.09	4.1	62.61	4.1
HLCW-30-2	24.74	87	59.37	6.4	74.21	6.2
HLCW-40-2	32.02	112.6	76.84	10.6	96.05	10.4
HLCW-50-2	39.92	140.4	95.81	13.1	119.77	12.8
HLCW-60-2	49.31	173.4	118.33	18.6	147.92	18.5
HLCW-20-4	15.75	55.4	37.81	3.1	47.26	3
HLCW-24-4	19.16	67.4	46.00	3.5	57.49	3.6
HLCW-28-4	21.55	75.8	51.73	4.7	64.66	4.8
HCLW-32-4	25.25	88.8	60.60	6.1	75.75	6.2
HLCW-36-4	28.55	100.4	68.52	6.7	85.64	6.8
HLCW-40-4	33.55	118	80.53	9.1	100.66	9.2
HLCW-48-4	38.56	135.6	92.54	12.1	115.67	12.2
HLCW-52-4	41.74	146.8	100.18	12.4	125.23	12.5
HLCW-60-4	49.48	174	118.74	18.1	148.43	18.2
HLCW-80-4	64.03	225.2	153.68	18.9	192.10	19
HLCW-100-4	79.84	280.8	191.63	19.1	239.53	19.2
HLCW-120-4	98.61	346.8	236.67	20.1	295.83	20.2

CONDENSER ENTERING/LEAVING WATER TEMP.=30/35°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,4°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	3.97	13.95	9.52	0.9	11.90	1
HLCW-6-1	4.82	16.95	11.57	1	14.46	1.1
HLCW-7-1	5.42	19.05	13.00	1	16.25	1.1
HCLW-8-1	6.34	22.3	15.22	1	19.02	1.1
HLCW-9-1	7.17	25.2	17.20	1.1	21.50	1.2
HLCW-10-1	8.45	29.7	20.27	1.2	25.34	1.3
HLCW-12-1	9.72	34.2	23.34	1.3	29.17	1.4
HLCW-13-1	10.49	36.9	25.18	1.4	31.48	1.5
HLCW-15-1	12.45	43.8	29.89	2.1	37.36	2.2
HLCW-20-1	16.12	56.7	38.69	2.8	48.37	2.9
HLCW-25-1	20.10	70.7	48.25	4	60.31	4.2
HLCW-30-1	24.82	87.3	59.58	6.5	74.47	6.7
HLCW-10-2	7.93	27.9	19.04	1.1	23.80	1.2
HLCW-12-2	9.64	33.9	23.13	1.2	28.92	1.3
HLCW-14-2	10.83	38.1	26.00	1.5	32.50	1.6
HCLW-16-2	12.68	44.6	30.44	2	38.05	2.1
HLCW-18-2	14.33	50.4	34.39	2.5	42.99	2.6
HLCW-20-2	16.89	59.4	40.54	3	50.67	3.1
HLCW-24-2	19.45	68.4	46.68	3.8	58.35	3.9
HLCW-26-2	20.98	73.8	50.36	4.2	62.95	4.2
HLCW-30-2	24.91	87.6	59.78	6.5	74.73	6.3
HLCW-40-2	32.24	113.4	77.39	10.7	96.73	10.5
HLCW-50-2	40.21	141.4	96.50	13.2	120.62	13
HLCW-60-2	49.65	174.6	119.15	18.7	148.94	18.7
HLCW-20-4	15.87	55.8	38.08	3.2	47.60	3.2
HLCW-24-4	19.28	67.8	46.27	3.6	57.84	3.8
HLCW-28-4	21.67	76.2	52.00	4.8	65.00	5
HCLW-32-4	25.36	89.2	60.87	6.2	76.09	6.4
HLCW-36-4	28.66	100.8	68.79	6.8	85.99	7
HLCW-40-4	33.78	118.8	81.07	9.2	101.34	9.4
HLCW-48-4	38.90	136.8	93.36	12.2	116.70	12.4
HLCW-52-4	41.97	147.6	100.73	12.5	125.91	12.7
HLCW-60-4	49.82	175.2	119.56	18.2	149.45	18.4
HLCW-80-4	64.49	226.8	154.77	19	193.47	19.2
HLCW-100-4	80.41	282.8	192.99	19.2	241.24	19.4
HLCW-120-4	99.29	349.2	238.30	20.2	297.88	20.4

CONDENSER ENTERING/LEAVING WATER TEMP.=33/38°C						
TABLE-1-LEAVING CHILLED WATER TEMP.= 5,5°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	3.57	12.55	8.56	0.5	10.71	0.6
HLCW-6-1	4.38	15.4	10.51	0.6	13.14	0.7
HLCW-7-1	4.92	17.3	11.81	0.6	14.76	0.7
HCLW-8-1	5.74	20.2	13.79	0.6	17.23	0.7
HLCW-9-1	6.51	22.9	15.63	0.7	19.53	0.8
HLCW-10-1	7.68	27	18.43	0.8	23.03	0.9
HLCW-12-1	8.81	31	21.16	0.9	26.44	1
HLCW-13-1	9.50	33.4	22.79	1	28.49	1.1
HLCW-15-1	11.23	39.5	26.96	1.7	33.69	1.8
HLCW-20-1	14.67	51.6	35.21	2.4	44.02	2.5
HLCW-25-1	18.17	63.9	43.61	3.5	54.51	3.8
HLCW-30-1	22.63	79.6	54.32	6	67.90	6.3
HLCW-10-2	7.14	25.1	17.13	0.6	21.41	0.8
HLCW-12-2	8.76	30.8	21.02	0.7	26.27	0.9
HLCW-14-2	9.84	34.6	23.61	1	29.52	1.2
HCLW-16-2	11.49	40.4	27.57	1.5	34.46	1.7
HLCW-18-2	13.02	45.8	31.26	2	39.07	2.2
HLCW-20-2	15.35	54	36.85	2.5	46.06	2.7
HLCW-24-2	17.63	62	42.31	3.3	52.89	3.5
HLCW-26-2	18.99	66.8	45.59	3.7	56.98	3.8
HLCW-30-2	22.46	79	53.91	5.9	67.39	5.9
HLCW-40-2	29.34	103.2	70.43	10.1	88.03	10.1
HLCW-50-2	36.34	127.8	87.21	12.6	109.02	12.5
HLCW-60-2	45.27	159.2	108.64	18.1	135.80	18.2
HLCW-20-4	14.27	50.2	34.26	2.6	42.82	2.7
HLCW-24-4	17.52	61.6	42.04	3	52.55	3.3
HLCW-28-4	19.68	69.2	47.22	4.2	59.03	4.5
HCLW-32-4	22.98	80.8	55.14	5.6	68.93	5.9
HLCW-36-4	26.05	91.6	62.51	6.2	78.14	6.4
HLCW-40-4	30.71	108	73.70	8.6	92.13	8.6
HLCW-48-4	35.26	124	84.62	11.6	105.78	11.6
HLCW-52-4	37.99	133.6	91.17	11.9	113.97	11.9
HLCW-60-4	44.93	158	107.82	17.6	134.78	17.6
HLCW-80-4	58.69	206.4	140.85	18.4	176.07	18.4
HLCW-100-4	72.68	255.6	174.43	18.6	218.04	18.6
HLCW-120-4	90.54	318.4	217.29	19.6	271.61	19.6

CONDENSER ENTERING/LEAVING WATER TEMP.=33/38°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=6,6°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	3.72	13.1	8.94	0.6	11.17	0.7
HLCW-6-1	4.55	16	10.92	0.7	13.65	0.8
HLCW-7-1	5.12	18	12.28	0.7	15.35	0.8
HCLW-8-1	5.97	21	14.33	0.7	17.91	0.8
HLCW-9-1	6.80	23.9	16.31	0.8	20.39	0.9
HLCW-10-1	7.99	28.1	19.18	0.9	23.97	1
HLCW-12-1	9.16	32.2	21.97	1	27.47	1.1
HLCW-13-1	9.90	34.8	23.75	1.1	29.69	1.2
HLCW-15-1	11.72	41.2	28.12	1.8	35.15	1.9
HLCW-20-1	15.58	54.8	37.40	2.5	46.75	2.6
HLCW-25-1	18.94	66.6	45.45	3.6	56.81	3.9
HLCW-30-1	23.52	82.7	56.44	6.1	70.55	6.4
HLCW-10-2	7.45	26.2	17.88	0.7	22.35	0.9
HLCW-12-2	9.10	32	21.84	0.8	27.30	1
HLCW-14-2	10.24	36	24.57	1.1	30.71	1.3
HCLW-16-2	11.94	42	28.66	1.6	35.83	1.8
HLCW-18-2	13.59	47.8	32.62	2.1	40.78	2.3
HLCW-20-2	15.98	56.2	38.35	2.6	47.94	2.8
HLCW-24-2	18.31	64.4	43.95	3.4	54.94	3.6
HLCW-26-2	19.79	69.6	47.50	3.8	59.37	3.9
HLCW-30-2	23.43	82.4	56.23	6	70.29	6
HLCW-40-2	31.16	109.6	74.79	10.2	93.49	10.2
HLCW-50-2	37.87	133.2	90.90	12.7	113.62	12.6
HLCW-60-2	47.03	165.4	112.87	18.2	141.09	18.3
HLCW-20-4	14.90	52.4	35.76	2.7	44.70	2.8
HLCW-24-4	18.20	64	43.68	3.1	54.59	3.4
HLCW-28-4	20.47	72	49.13	4.3	61.42	4.6
HCLW-32-4	23.88	84	57.32	5.7	71.65	6
HLCW-36-4	27.18	95.6	65.24	6.3	81.55	6.5
HLCW-40-4	31.96	112.4	76.70	8.7	95.88	8.7
HLCW-48-4	36.62	128.8	87.90	11.7	109.87	11.7
HLCW-52-4	39.58	139.2	94.99	12	118.74	12
HLCW-60-4	46.86	164.8	112.46	17.7	140.58	17.7
HLCW-80-4	62.33	219.2	149.59	18.5	186.99	18.5
HLCW-100-4	75.75	266.4	181.80	18.7	227.25	18.7
HLCW-120-4	94.06	330.8	225.75	19.7	282.18	19.7

CONDENSER ENTERING/LEAVING WATER TEMP.=33/38°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,2°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	3.81	13.4	9.14	0.7	11.43	0.9
HLCW-6-1	4.65	16.35	11.16	0.8	13.95	1
HLCW-7-1	5.23	18.4	12.56	0.8	15.70	1
HCLW-8-1	6.11	21.5	14.67	0.8	18.34	1
HLCW-9-1	6.94	24.4	16.65	0.9	20.81	1.1
HLCW-10-1	8.16	28.7	19.59	1	24.48	1.2
HLCW-12-1	9.35	32.9	22.45	1.1	28.06	1.3
HLCW-13-1	10.12	35.6	24.29	1.2	30.37	1.4
HLCW-15-1	11.97	42.1	28.73	1.9	35.91	2.1
HLCW-20-1	15.24	53.6	36.58	2.6	45.72	2.8
HLCW-25-1	19.36	68.1	46.47	3.7	58.09	4.1
HLCW-30-1	24.00	84.4	57.60	6.2	72.00	6.6
HLCW-10-2	7.62	26.8	18.29	0.8	22.86	1.1
HLCW-12-2	9.30	32.7	22.32	0.9	27.89	1.2
HLCW-14-2	10.46	36.8	25.11	1.2	31.39	1.5
HCLW-16-2	12.23	43	29.34	1.7	36.68	2
HLCW-18-2	13.88	48.8	33.30	2.2	41.63	2.5
HLCW-20-2	16.32	57.4	39.17	2.7	48.96	3
HLCW-24-2	18.71	65.8	44.90	3.5	56.13	3.8
HLCW-26-2	20.25	71.2	48.59	3.9	60.74	4.1
HLCW-30-2	23.94	84.2	57.46	6.1	71.83	6.2
HLCW-40-2	30.48	107.2	73.16	10.3	91.45	10.4
HLCW-50-2	38.73	136.2	92.95	12.8	116.18	12.8
HLCW-60-2	48.00	168.8	115.19	18.3	143.99	18.5
HLCW-20-4	15.24	53.6	36.58	2.8	45.72	3
HLCW-24-4	18.60	65.4	44.63	3.2	55.79	3.6
HLCW-28-4	20.93	73.6	50.23	4.4	62.78	4.8
HCLW-32-4	24.45	86	58.69	5.8	73.36	6.2
HLCW-36-4	27.75	97.6	66.60	6.4	83.26	6.7
HLCW-40-4	32.64	114.8	78.34	8.8	97.93	8.9
HLCW-48-4	37.42	131.6	89.81	11.8	112.26	11.9
HLCW-52-4	40.49	142.4	97.18	12.1	121.47	12.2
HLCW-60-4	47.88	168.4	114.92	17.8	143.65	17.9
HLCW-80-4	60.96	214.4	146.31	18.6	182.89	18.7
HLCW-100-4	77.46	272.4	185.89	18.8	232.37	18.9
HLCW-120-4	95.99	337.6	230.39	19.8	287.98	19.9

CONDENSER ENTERING/LEAVING WATER TEMP.=33/38°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,4°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	3.84	13.5	9.21	0.8	11.52	1
HLCW-6-1	4.68	16.45	11.23	0.9	14.03	1.1
HLCW-7-1	5.27	18.55	12.66	0.9	15.82	1.1
HCLW-8-1	6.17	21.7	14.81	0.9	18.51	1.1
HLCW-9-1	6.97	24.5	16.72	1	20.90	1.2
HLCW-10-1	8.22	28.9	19.72	1.1	24.65	1.3
HLCW-12-1	9.41	33.1	22.59	1.2	28.24	1.4
HLCW-13-1	10.18	35.8	24.43	1.3	30.54	1.5
HLCW-15-1	12.06	42.4	28.93	2	36.17	2.2
HLCW-20-1	15.70	55.2	37.67	2.7	47.09	2.9
HLCW-25-1	19.51	68.6	46.81	3.8	58.52	4.2
HLCW-30-1	24.17	85	58.01	6.4	72.51	6.7
HLCW-10-2	7.68	27	18.43	1	23.03	1.2
HLCW-12-2	9.35	32.9	22.45	1.1	28.06	1.3
HLCW-14-2	10.55	37.1	25.32	1.4	31.65	1.6
HCLW-16-2	12.34	43.4	29.62	1.9	37.02	2.1
HLCW-18-2	13.93	49	33.44	2.4	41.80	2.6
HLCW-20-2	16.44	57.8	39.44	2.9	49.31	3.1
HLCW-24-2	18.82	66.2	45.18	3.7	56.47	3.9
HLCW-26-2	20.36	71.6	48.86	4.1	61.08	4.2
HLCW-30-2	24.11	84.8	57.87	6.3	72.34	6.3
HLCW-40-2	31.39	110.4	75.34	10.5	94.18	10.5
HLCW-50-2	39.01	137.2	93.63	13	117.04	12.9
HLCW-60-2	48.34	170	116.01	18.5	145.02	18.6
HLCW-20-4	15.35	54	36.85	3	46.06	3.1
HLCW-24-4	18.71	65.8	44.90	3.4	56.13	3.7
HLCW-28-4	21.10	74.2	50.64	4.6	63.30	4.9
HCLW-32-4	24.68	86.8	59.23	6	74.04	6.3
HLCW-36-4	27.87	98	66.88	6.6	83.60	6.8
HLCW-40-4	32.87	115.6	78.89	9	98.61	9
HLCW-48-4	37.65	132.4	90.35	12	112.94	12
HLCW-52-4	40.72	143.2	97.72	12.3	122.15	12.3
HLCW-60-4	48.22	169.6	115.74	18	144.67	18
HLCW-80-4	62.78	220.8	150.68	18.8	188.35	18.8
HLCW-100-4	78.02	274.4	187.26	19	234.07	19
HLCW-120-4	96.68	340	232.03	20	290.03	20

CONDENSER ENTERING/LEAVING WATER TEMP.=36/41°C						
TABLE-1-LEAVING CHILLED WATER TEMP.= 5,5°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	3.44	12.1	8.26	0.5	10.32	0.6
HLCW-6-1	4.24	14.9	10.17	0.6	12.71	0.7
HLCW-7-1	4.76	16.75	11.43	0.6	14.29	0.7
HCLW-8-1	5.54	19.5	13.31	0.6	16.63	0.7
HLCW-9-1	6.31	22.2	15.15	0.7	18.94	0.8
HLCW-10-1	7.45	26.2	17.88	0.8	22.35	0.9
HLCW-12-1	8.50	29.9	20.40	0.9	25.51	1
HLCW-13-1	9.18	32.3	22.04	1	27.55	1.1
HLCW-15-1	10.83	38.1	26.00	1.7	32.50	1.8
HLCW-20-1	14.22	50	34.12	2.4	42.65	2.5
HLCW-25-1	17.57	61.8	42.17	3.5	52.72	3.8
HLCW-30-1	21.98	77.3	52.75	5.9	65.94	6.3
HLCW-10-2	6.88	24.2	16.51	0.5	20.64	0.8
HLCW-12-2	8.47	29.8	20.34	0.6	25.42	0.9
HLCW-14-2	9.53	33.5	22.86	0.9	28.58	1.2
HCLW-16-2	11.09	39	26.61	1.4	33.27	1.6
HLCW-18-2	12.62	44.4	30.30	1.9	37.87	2.1
HLCW-20-2	14.90	52.4	35.76	2.4	44.70	2.6
HLCW-24-2	17.00	59.8	40.81	3.2	51.01	3.4
HLCW-26-2	18.37	64.6	44.08	3.6	55.11	3.7
HLCW-30-2	21.67	76.2	52.00	5.8	65.00	5.8
HLCW-40-2	28.43	100	68.24	10	85.30	10
HLCW-50-2	35.15	123.6	84.35	12.5	105.44	12.4
HLCW-60-2	43.96	154.6	105.50	18	131.88	18.1
HLCW-20-4	13.76	48.4	33.03	2.5	41.29	2.6
HLCW-24-4	16.95	59.6	40.67	2.9	50.84	3.2
HLCW-28-4	19.05	67	45.72	4.1	57.15	4.4
HCLW-32-4	22.18	78	53.23	5.5	66.54	5.8
HLCW-36-4	25.25	88.8	60.60	6.1	75.75	6.3
HLCW-40-4	29.80	104.8	71.52	8.5	89.40	8.5
HLCW-48-4	34.01	119.6	81.62	11.5	102.02	11.5
HLCW-52-4	36.74	129.2	88.17	11.7	110.21	11.8
HLCW-60-4	43.33	152.4	104.00	17.4	130.00	17.5
HLCW-80-4	56.87	200	136.49	18.2	170.61	18.3
HLCW-100-4	70.29	247.2	168.70	18.4	210.87	18.5
HLCW-120-4	87.92	309.2	211.01	19.4	263.76	19.5

CONDENSER ENTERING/LEAVING WATER TEMP.=36/41°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=6,6°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	3.60	12.65	8.63	0.7	10.79	0.8
HLCW-6-1	4.41	15.5	10.58	0.8	13.22	0.9
HLCW-7-1	4.96	17.45	11.91	0.8	14.89	0.9
HCLW-8-1	5.77	20.3	13.85	0.8	17.32	0.9
HLCW-9-1	6.57	23.1	15.76	0.9	19.71	1
HLCW-10-1	7.73	27.2	18.56	1	23.20	1.1
HLCW-12-1	8.84	31.1	21.22	1.1	26.53	1.2
HLCW-13-1	9.55	33.6	22.93	1.2	28.66	1.3
HLCW-15-1	11.32	39.8	27.16	1.9	33.95	2
HLCW-20-1	14.81	52.1	35.55	2.6	44.44	2.7
HLCW-25-1	18.34	64.5	44.02	3.7	55.02	4
HLCW-30-1	22.86	80.4	54.87	6.1	68.58	6.5
HLCW-10-2	7.19	25.3	17.27	0.7	21.58	1
HLCW-12-2	8.81	31	21.16	0.8	26.44	1.1
HLCW-14-2	9.92	34.9	23.82	1.1	29.77	1.4
HCLW-16-2	11.54	40.6	27.71	1.6	34.63	1.8
HLCW-18-2	13.14	46.2	31.53	2.1	39.41	2.3
HLCW-20-2	15.47	54.4	37.12	2.6	46.41	2.8
HLCW-24-2	17.69	62.2	42.45	3.4	53.06	3.6
HLCW-26-2	19.11	67.2	45.86	3.8	57.32	3.9
HLCW-30-2	22.63	79.6	54.32	6	67.90	6
HLCW-40-2	29.63	104.2	71.11	10.2	88.89	10.2
HLCW-50-2	36.68	129	88.03	12.7	110.04	12.6
HLCW-60-2	45.72	160.8	109.73	18.2	137.17	18.3
HLCW-20-4	14.39	50.6	34.53	2.7	43.16	2.8
HLCW-24-4	17.63	62	42.31	3.1	52.89	3.4
HLCW-28-4	19.85	69.8	47.63	4.3	59.54	4.6
HCLW-32-4	23.09	81.2	55.41	5.7	69.27	6
HLCW-36-4	26.27	92.4	63.06	6.3	78.82	6.5
HLCW-40-4	30.94	108.8	74.25	8.7	92.81	8.7
HLCW-48-4	35.37	124.4	84.89	11.7	106.12	11.7
HLCW-52-4	38.22	134.4	91.72	11.9	114.65	12
HLCW-60-4	45.27	159.2	108.64	17.6	135.80	17.7
HLCW-80-4	59.26	208.4	142.22	18.4	177.77	18.5
HLCW-100-4	73.36	258	176.07	18.6	220.08	18.7
HLCW-120-4	91.45	321.6	219.47	19.6	274.34	19.7

CONDENSER ENTERING/LEAVING WATER TEMP.=36/41°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,2°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	3.67	12.9	8.80	0.8	11.00	1.7
HLCW-6-1	4.49	15.8	10.78	0.9	13.48	1.8
HLCW-7-1	5.08	17.85	12.18	0.9	15.23	1.8
HCLW-8-1	5.91	20.8	14.19	0.9	17.74	1.8
HLCW-9-1	6.71	23.6	16.11	1	20.13	1.9
HLCW-10-1	7.90	27.8	18.97	1.1	23.71	2
HLCW-12-1	9.04	31.8	21.70	1.2	27.13	2.1
HLCW-13-1	9.78	34.4	23.48	1.3	29.34	2.2
HLCW-15-1	11.57	40.7	27.77	2	34.72	2.9
HLCW-20-1	15.13	53.2	36.31	2.7	45.38	3.6
HLCW-25-1	18.77	66	45.04	3.8	56.30	4.9
HLCW-30-1	23.34	82.1	56.03	6.2	70.03	7.4
HLCW-10-2	7.34	25.8	17.61	0.8	22.01	1.9
HLCW-12-2	8.99	31.6	21.56	0.9	26.96	2
HLCW-14-2	10.15	35.7	24.36	1.2	30.45	2.3
HCLW-16-2	11.83	41.6	28.39	1.7	35.49	2.7
HLCW-18-2	13.42	47.2	32.21	2.2	40.26	3.2
HLCW-20-2	15.81	55.6	37.94	2.7	47.43	3.7
HLCW-24-2	18.08	63.6	43.40	3.5	54.25	4.5
HLCW-26-2	19.56	68.8	46.95	3.9	58.69	4.8
HLCW-30-2	23.15	81.4	55.55	6.1	69.44	6.9
HLCW-40-2	30.25	106.4	72.61	10.3	90.76	11.1
HLCW-50-2	37.53	132	90.08	12.8	112.60	13.5
HLCW-60-2	46.69	164.2	112.05	18.3	140.07	19.2
HLCW-20-4	14.67	51.6	35.21	2.8	44.02	3.7
HLCW-24-4	17.97	63.2	43.13	3.2	53.91	4.3
HLCW-28-4	20.30	71.4	48.73	4.4	60.91	5.5
HCLW-32-4	23.66	83.2	56.78	5.8	70.97	6.9
HLCW-36-4	26.84	94.4	64.42	6.4	80.53	7.4
HLCW-40-4	31.62	111.2	75.89	8.8	94.86	9.6
HLCW-48-4	36.17	127.2	86.80	11.8	108.51	12.6
HLCW-52-4	39.13	137.6	93.90	12	117.38	12.9
HLCW-60-4	46.29	162.8	111.10	17.7	138.87	18.6
HLCW-80-4	60.51	212.8	145.22	18.5	181.53	19.4
HLCW-100-4	75.07	264	180.16	18.7	225.20	19.6
HLCW-120-4	93.38	328.4	224.11	19.7	280.14	20.6

CONDENSER ENTERING/LEAVING WATER TEMP.=36/41°C						
TABLE-1-LEAVING CHILLED WATER TEMP.=7,4°C						
MODEL NO.	CAP TONS	KW	CHILLED WATER		CONDENSER WATER	
			G.P.M.	P.D FT.OF W.	G.P.M.	P.D FT.OF W.
HLCW-5-1	3.70	13	8.87	0.9	11.09	1.8
HLCW-6-1	4.54	15.95	10.88	1	13.61	1.9
HLCW-7-1	5.10	17.95	12.25	1	15.31	1.9
HCLW-8-1	5.97	21	14.33	1	17.91	1.9
HLCW-9-1	6.77	23.8	16.24	1.1	20.30	2
HLCW-10-1	7.96	28	19.11	1.2	23.88	2.1
HLCW-12-1	9.10	32	21.84	1.3	27.30	2.2
HLCW-13-1	9.84	34.6	23.61	1.4	29.52	2.3
HLCW-15-1	11.66	41	27.98	2.1	34.97	3
HLCW-20-1	15.24	53.6	36.58	2.8	45.72	3.7
HLCW-25-1	18.91	66.5	45.38	3.9	56.73	5
HLCW-30-1	23.52	82.7	56.44	6.3	70.55	7.5
HLCW-10-2	7.39	26	17.74	0.9	22.18	2
HLCW-12-2	9.07	31.9	21.77	1	27.21	2.1
HLCW-14-2	10.21	35.9	24.50	1.3	30.62	2.4
HCLW-16-2	11.94	42	28.66	1.8	35.83	2.8
HLCW-18-2	13.53	47.6	32.48	2.3	40.60	3.3
HLCW-20-2	15.92	56	38.22	2.8	47.77	3.8
HLCW-24-2	18.20	64	43.68	3.6	54.59	4.6
HLCW-26-2	19.68	69.2	47.22	4	59.03	4.9
HLCW-30-2	23.32	82	55.96	6.2	69.95	7
HLCW-40-2	30.48	107.2	73.16	10.4	91.45	11.2
HLCW-50-2	37.82	133	90.76	12.9	113.45	13.6
HLCW-60-2	47.03	165.4	112.87	18.4	141.09	19.3
HLCW-20-4	14.79	52	35.49	2.9	44.36	3.8
HLCW-24-4	18.14	63.8	43.54	3.3	54.42	4.4
HLCW-28-4	20.42	71.8	49.00	4.5	61.25	5.6
HCLW-32-4	23.88	84	57.32	5.9	71.65	7
HLCW-36-4	27.07	95.2	64.97	6.5	81.21	7.5
HLCW-40-4	31.85	112	76.43	8.9	95.54	9.7
HLCW-48-4	36.40	128	87.35	11.9	109.19	12.7
HLCW-52-4	39.35	138.4	94.45	12.1	118.06	13
HLCW-60-4	46.63	164	111.92	17.8	139.90	18.7
HLCW-80-4	60.96	214.4	146.31	18.6	182.89	19.5
HLCW-100-4	75.64	266	181.53	18.8	226.91	19.7
HLCW-120-4	94.06	330.8	225.75	19.8	282.18	20.7

ELECTRICAL DATA (R-22)				
chiller MODEL	Nominal Comp. power (HP)	MRA (Amp)	LRA (Amp)	RATE CONSE POWER (kw)
HLCW-5-1	5	7.34	65.5	3.0
HLCW-6-1	6	7.93	74	3.3
HLCW-7-1	7	9.64	101	4.0
HCLW-8-1	8	10.8	95	4.5
HLCW-9-1	9	11.86	111	4.2
HLCW-10-1	10	13.71	118	4.7
HLCW-12-1	12	15.04	118	5.6
HLCW-13-1	13	17.36	140	6.1
HLCW-15-1	15	22.58	174	7.1
HLCW-20-1	20	25.66	225	9.4
HLCW-25-1	25	33.07	272	11.8
HLCW-30-1	30	39.44	310	14.1
HLCW-10-2	2*5	14.68	131	6.9
HLCW-12-2	2*6	15.86	148	7.5
HLCW-14-2	2*7	19.28	202	9.1
HCLW-16-2	2*8	21.6	190	10.2
HLCW-18-2	2*9	23.72	222	11.2
HLCW-20-2	2*10	27.42	236	12.9
HLCW-24-2	2*12	30.08	236	14.2
HLCW-26-2	2*13	34.72	280	16.3
HLCW-30-2	2*15	45.16	348	21.3
HLCW-40-2	2*40	51.32	450	24.1
HLCW-50-2	2*25	66.14	544	31.1
HLCW-60-2	2*30	78.88	620	37.1
HLCW-20-4	4*5	29.36	262	13.8
HLCW-24-4	4*6	31.72	296	14.9
HLCW-28-4	4*7	38.56	404	18.1
HCLW-32-4	4*8	43.2	380	20.3
HLCW-36-4	4*9	47.44	444	22.3
HLCW-40-4	4*10	54.84	472	25.8
HLCW-48-4	4*12	60.16	472	28.3
HLCW-52-4	4*13	69.44	560	32.7
HLCW-60-4	4*15	90.32	696	42.5
HLCW-80-4	4*20	102.64	900	48.3
HLCW-100-4	4*25	132.28	1088	62.2
HLCW-120-4	4*30	157.76	1240	74.2





شرکت هواساز همیشه سعی بر آن دارد با استفاده از قطعات و متریال مرغوب نیاز مشتریان خود را برآورده سازد که در ذیل به معرفی برخی از مشارکت کنندگان در تامین قطعات این شرکت می پردازیم :

انواع کویل های Cu/Cu , Cu/hydrophilic Al Heresite Coating
کمپرسورهای Frasscold,bitzer,copeland , Carrier,refcomp از نوع Scroll , Screw , Reciprocating
مبدل‌های Shell & Tube مارک رادیران و Compact Plate Heat Exchanger مارک Danfoss



دفتر فروش : تهران - خیابان شهید بهشتی - خیابان سرافراز - پلاک ۵۵ - مجتمع دریای نور

تلفن : ۸۸۷۵۴۹۱۰ فکس : ۸۸۷۵۴۹۱۱

کارخانه : کیلومتر ۱۹ جاده قدیم کرج - منطقه صنعتی اسماعیل آباد - خیابان اول - پلاک ۶

تلفن : ۴۶۸۸۱۹۶۵-۷۵ فکس : ۴۶۸۴۲۲۹۲

