

Air cooled screw chillers



EWAD~C-

C-SS (Standard Efficiency - Standard Noise) - Cooling Capacity from 647 to 1922 kW
C-SL (Standard Efficiency - Low Noise) - Cooling Capacity from 647 to 1922 kW
C-SR (Standard Efficiency - Reduced Noise) - Cooling Capacity from 619 to 1833 kW
C-XS (High Efficiency - Standard Noise) - Cooling Capacity from 756 to 2008 kW
C-XL (High Efficiency - Low Noise) - Cooling Capacity from 756 to 2008 kW
C-XR (High Efficiency - Reduced Noise) - Cooling Capacity from 736 to 1952 kW
C-PS (Premium Efficiency - Standard Noise) - Cooling Capacity from 821 to 1562 kW
C-PL (Premium Efficiency - Low Noise) - Cooling Capacity from 821 to 1562 kW
C-PR (Premium Efficiency - Reduced Noise) - Cooling Capacity from 809 to 1521 kW



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Low operating cost and extended operating life

This chiller range is the result of careful design, aimed to optimize the energy efficiency of the chillers, with the objective of bringing down operating costs and improving installation profitability, effectiveness and economical management. The chillers feature a high efficiency single screw compressor design, large condenser coil surface area for maximum heat transfer and low discharge pressure, advanced technology condenser fans and a 'shell&tube' evaporator with low refrigerant pressure drops.

Low operating sound levels

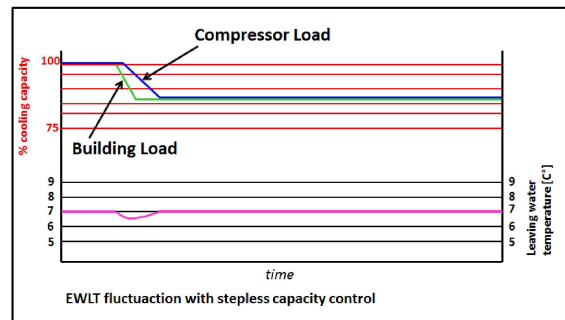
Very low sound levels both at full load and part load conditions are achieved by the latest compressor design and by a unique new fan that moves large volume of air at exceptionally low sound levels and by the virtually vibration-free operation.

Outstanding reliability

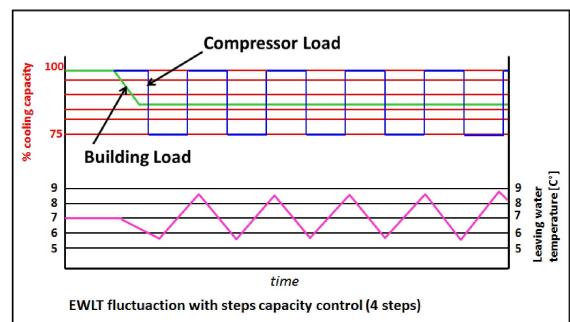
The chillers have two or three truly independent refrigerant circuits, in order to assure maximum safety for any maintenance, whether planned or not. They are equipped with a rugged compressor design with advanced composite compressor gaterotors material, a proactive control logic and are full factory-run-tested to optimized trouble-free operation.

Infinite capacity control

Cooling capacity control is infinitely variable by means of a single screw asymmetric compressor controlled by microprocessor system. Each unit has infinitely variable capacity control from 100% down to 12.5% (two compressors unit) down to 7% (three compressors unit). This modulation allows the compressor capacity to exactly match the building cooling load without any leaving evaporator water temperature fluctuation. This chilled water temperature fluctuation is avoided with a stepless control.



With a compressor load step control in fact, the compressor capacity, at partial loads, will be too high or too low compared to the building cooling load. The result is an increase in chiller energy costs, particularly at the part-load conditions at which the chiller operates most of the time.



Units with stepless regulation offer benefits that the units with step regulation are unable to match. The ability to follow the system energy demand at any time and the possibility to provide steady outlet water temperature without deviations from the set-point, are the two points that allow you to understand how the optimum operating conditions of a system can be met through the use of a unit with stepless regulation.

Superior control logic

The new MicroTech III controller provides an easy to use control environment. The control logic is designed to provide maximum efficiency, to continue operation in unusual operating conditions and to provide a history of unit operation. One of the greatest benefits is the easy interface with LonWorks, Bacnet, Ethernet TCP/IP or Modbus communications.

Code requirements – Safety and observant of laws/directives

Units are designed and manufactured in accordance with applicable selections of the following:

Construction of pressure vessel	97/23/EC (PED)
Machinery Directive	2006/42/EC
Low Voltage	2006/95/EC
Electromagnetic Compatibility	2004/108/EC
Electrical & Safety codes	EN 60204-1 / EN 60335-2-40
Manufacturing Quality Stds	UNI – EN ISO 9001:2004

Certifications

Units are CE marked, complying with European directives in force, concerning manufacturing and safety. On request units can be produced complying with laws in force in non European countries (ASME, GOST, etc.), and with other applications, such as naval (RINA, etc.).

Versions

This unit is available in three different versions:

S: Standard Efficiency

X: High Efficiency

P: Premium Efficiency

The EER (Energy Efficiency Ratio) is the ratio of the Cooling Capacity to the Power Input of the unit. The Power Input includes: the power input for operation of the compressor, the power input of all control and safety devices, the power input for fans.

The ESEER (European Seasonal Energy Efficiency Ratio) is a weighed formula enabling to take into account the variation of EER with the load rate and the variation of air inlet condenser temperature.

$$ESEER = A \times EER_{100\%} + B \times EER_{75\%} + C \times EER_{50\%} + D \times EER_{25\%}$$

	A	B	C	D
Coefficient	0.03 (3%)	0.33 (33%)	0.41 (41%)	0.23 (23%)
Air inlet condenser temperature	35°C	30°C	25°C	20°C

Sound configurations

Standard, low and reduced sound configurations available as follows:

-S: Standard Sound
Condenser fan rotating at 900 rpm, rubber antivibration under compressor

-L: Low Sound
Condenser fan rotating at 900 rpm, rubber antivibration under compressor, compressor sound enclosure.

-R: Reduced Sound
Condenser fan rotating at 700 rpm, rubber antivibration under compressor, compressor sound enclosure.

Cabinet and structure The cabinet is made of galvanized steel sheet and painted to provide a high resistance to corrosion. Colour Ivory White (Munsell code 5Y7.5/1) (\pm RAL7044).The base frame has an eye-hook to lift the unit with ropes for an easy installation. The weight is uniformly distributed along the profiles of the base and this facilitates the arrangement of the unit.

Compressor (Asymmetric Single Screw) The compressor is semi-hermetic, single-screw type with gate-rotor made with the latest high-strength fibre reinforced star material. The compressor has an asymmetric slide regulation managed by the unit controller for infinitely modulating capacity from 100% to 25%. An integrated high efficiency oil separator maximizes the oil separation and standard start is Wye-Delta (Y- Δ) type.

Refrigerant The compressors have been designed to operate with R-134a, ecological refrigerant with zero ODP (Ozone Depletion Potential) and very low GWP (Global Warming Potential), resulting in low TEWI (Total Equivalent Warming Impact).

Evaporator (Shell&Tube) The unit is equipped with a direct expansion shell&tube evaporator with refrigerant evaporating inside the tubes and water flowing outside. The tubes are enhanced for maximum heat transfer and rolled into steel tube sheet and sealed.

The evaporators are single-pass on both the refrigerant and water sides for pure counter-flow heat exchange and low refrigerant pressure drops. Both attributes contribute to the heat exchanger effectiveness and total unit's outstanding efficiency. The water side is designed for 10 bar of maximum operating pressure and is provided with vents and drain.

The external shell is covered with a 20mm closed cell insulation material and the evaporator water connections are provided with victaulic kit (as standard). Each evaporator has 2 or 3 circuits, one for each compressor and is manufactured in accordance to 97/23/EC directive (PED).

Condenser The condenser is manufactured with internally enhanced seamless copper tubes arranged in a staggered row pattern and mechanically expanded into lanced and rippled aluminum condenser fins with full fin collars. An integral sub-cooler circuit provides sub-cooling to effectively eliminate liquid flashing and increase cooling capacity without increasing the power input.

Heat Recovery Exchanger The unit is equipped with a plate to plate type heat exchanger for each circuit made of stainless steel brazed plates and manufactured in accordance to PED approval.

Condenser fans (\varnothing 800) The condenser fans are propeller type with high efficiency design blades to maximize performances. The material of the blades is glass reinforced resin and each fan is protected by a guard. Fan motors are protected by circuit breakers (installed inside the electrical panel as a standard) and are IP54.

Electronic expansion valve The unit is equipped with the most advanced electronic expansion valves to achieve precise control of refrigerant mass flow. As today's system requires improved energy efficiency, tighter temperature control, wider range of operating conditions and incorporate features like remote monitoring and diagnostics, the application of electronic expansion valves becomes mandatory.

Electronic expansion valves possess unique features: short opening and closing time, high resolution, positive shut-off function to eliminate use of additional solenoid valve, continuous modulation of mass flow without stress in the refrigerant circuit and corrosion resistance stainless steel body.

Electronic expansion valves are typically working with lower ΔP between high and low pressure side, than a thermostatic expansion valve. The electronic expansion valve allows the system to work with low condenser pressure (winter time) without any refrigerant flow problems and with a perfect chilled water leaving temperature control.

Refrigerant circuit Each unit has 2 or 3 independent refrigerant circuits and each one includes:

- Compressor with integrated oil separator
- Refrigerant
- Evaporator
- Air Cooled Condenser
- Electronic expansion valve
- Discharge line shut off valve
- Liquid line shut off valve
- Sight glass with moisture indicator
- Filter drier
- Charging valves
- High pressure switch
- High pressure transducers
- Low pressure transducers
- Oil pressure transducer

Electrical control panel Power and control are located in the main panel that is manufactured to ensure protection against all weather conditions. The electrical panel is IP54 and (when opening the doors) internally protected with plexiglas panel against possible accidental contact with electrical components (IP20). The main panel is fitted with a main switch interlocked door.

Power Section The power section includes compressors and fans protection devices, compressors and fans starters and control circuit power supply.

MicroTech III controller MicroTech III controller is installed as standard; it can be used to modify unit set-points and check control parameters. A built-in display shows chiller operating status plus temperatures and pressures of water, refrigerant and air, programmable values, set-points. A sophisticated software with predictive logic, selects the most energy efficient combination of compressors, EEXV and condenser fans to keep stable operating conditions to maximise chiller energy efficiency and reliability. MicroTech III is able to protect critical components based on external signs from its system (such as motor temperatures, refrigerant gas and oil pressures, correct phase sequence, pressure switches and evaporator). The input coming from the high pressure switch cuts all digital output from the controller in less than 50ms, this is an additional security for the equipment. Fast program cycle (200ms) for a precise monitoring of the system. Floating point calculations supported for increased accuracy in Pressure / Temperature conversions.

Control section - main features • Management of the compressor stepless capacity and fans modulation.

- Chiller enabled to work in partial failure condition.
- Full routine operation at condition of:
 - high ambient temperature value
 - high thermal load
 - high evaporator entering water temperature (start-up)
- Display of evaporator entering/leaving water temperature.
- Display of Outdoor Ambient Temperature.
- Display of condensing-evaporating temperature and pressure, suction and discharge superheat for each circuit.
- Leaving water evaporator temperature regulation (temperature tolerance = 0,1°C).
- Compressor and evaporator pumps hours counter.
- Display of Status Safety Devices.
- Number of starts and compressor working hours.
- Optimized management of compressor load.
- Fan management according to condensing pressure.
- Re-start in case of power failure (automatic / manual).
- Soft Load (optimized management of the compressor load during the start-up).
- Start at high evaporator water temperature.
- Return Reset (Set Point Reset based on return water temperature).
- OAT (Outside Ambient temperature) Reset.
- Set point Reset (optional).
- Application and system upgrade with commercial SD cards.
- Ethernet port for remote or local servicing using standard web browsers.
- Two different sets of default parameters could be stored for easy restore.

Safety device / logic for each refrigerant circuit • High pressure (pressure switch).

- High pressure (transducer).
- Low pressure (transducer).
- Fans circuit breaker.
- High compressor discharge temperature.
- High motor winding temperature.
- Phase Monitor.
- Low pressure ratio.
- High oil pressure drop.
- Low oil pressure.
- No pressure change at start.

System security • Phase monitor.

- Low Ambient temperature lock-out.
- Freeze protection.

Regulation type Proportional + integral + derivative regulation on the evaporator leaving water output probe.

MicroTech III MicroTech III built-in terminal has the following features.

- 164x44 dots liquid crystal display with white back lighting. Supports Unicode fonts for multi-lingual.
- Key-pad consisting of 3 keys.
- Push'n'Roll control for an increased usability.
- Memory to protect the data.
- General faults alarm relays.
- Password access to modify the setting.
- Application security to prevent application tampering or hardware usability with third party applications.
- Service report displaying all running hours and general conditions.
- Alarm history memory to allow an easy fault analysis.

Supervising systems (on request)

MicroTech III remote control MicroTech III is able to communicate to BMS (Building Management System) based on the most common protocols as:

- ModbusRTU
- LonWorks, now also based on the international 8040 Standard Chiller Profile and LonMark Technology.
- BacNet BTP certifief over IP and MS/TP (class 4) (Native).
- Ethernet TCP/IP.

Standard Options (supplied on basic unit)

Wye-Delta compressor starter (Y-D) - For low inrush current and reduced starting torque

Double setpoint - Dual leaving water temperature setpoints.

Phase monitor - The phase monitor controls that phases sequence is correct and controls phase loss.

Evaporator victaulic kit - Hydraulic joint with gasket for an easy and quick water connection.

20mm evaporator insulation - The external shell is covered with a 20mm closed cell insulation material.

Evaporator electric heater - Electric heater (controlled by a thermostat) to protect the evaporator from freezing down to -28°C ambient temperature, providing the power supply is on.

Electronic expansion valve

Discharge line shut-off valve - Installed on the discharge port of the compressor to facilitate maintenance operation.

Ambient outside temperature sensor and setpoint reset

Hour run meter

General fault contactor

Setpoint reset, Demand limit and Alarm from external device - (Set-point reset): The leaving water temperature set-point can be overwritten with the following options: 4-20mA from external source (by user); outside ambient temperature; evaporator water temperature Δt . - (Demand limit): User can limit the load of the unit by 4-20mA signal or by network system. - (Alarm from external device): Microprocessor is able to receive an alarm signal from an external device (eg. pump, etc...). User can decide if this alarm signal will stop or not the unit.

Fans circuit breakers - Safety device against motor overloading and short circuit

Main switch interlock door

Emergency stop

Options (on request)

MECHANICAL

Total heat recovery - Produced with plate to plate or Shell&Tube heat exchangers to produce hot water.

Partial heat recovery - Produced with plate to plate heat exchangers to produce hot water.

Brine version - Allows the unit to operate down to -8°C leaving liquid temperature (antifreeze required).

Evaporator flange kit

Condenser coil guards

Evaporator area guards

Cu-Cu condenser coil - To give better protection against corrosion by aggressive environments.

Cu-Cu-Sn condenser coil - To give better protection against corrosion in aggressive environments and by salty air.

Alucoat fins coil - Fins are protected by a special acrylic paint with a high resistance to corrosion.

Suction line shut-off valve - Installed on the suction port of the compressor to facilitate maintenance operation.

High pressure side manometers

Low pressure side manometers

One centrifugal pump (low lift) - Hydronic kit consists of: single direct driven centrifugal pump, water filling system with pressure gauge, safety valve, drain valve. The motor pump is protected by a circuit breaker installed in control panel. The kit is assembled and wired to the control panel. The pipe and pump are protected from freezing with an additional electrical heater.

One centrifugal pump (high lift) Hydronic kit consists of: single direct driven centrifugal pump, water filling system with pressure gauge, safety valve, drain valve. The motor pump is protected by a circuit breaker installed in control panel. The kit is assembled and wired to the control panel. The pipe and pump are protected from freezing with an additional electrical heater.

Two centrifugal pump (low lift) - Hydronic kit consists of: twin direct driven centrifugal pumps, water filling system with pressure gauge, safety valve, drain valve. The motor pump is protected by a circuit breaker installed in control panel. The kit is assembled and wired to the control panel. The pipe and pumps are protected from freezing with an additional electrical heater.

Two centrifugal pump (high lift) Hydronic kit consists of: twin direct driven centrifugal pumps, water filling system with pressure gauge, safety valve, drain valve. The motor pump is protected by a circuit breaker installed in control panel. The kit is assembled and wired to the control panel. The pipe and pumps are protected from freezing with an additional electrical heater.

Double pressure relief valve with diverter

Evaporator right water connections

ELECTRICAL / CONTROL

Soft starter - Electronic starting device to reduce the mechanical stress during compressor start-up

Compressor thermal overload relays - Safety devices against compressor motor overloading. This device together with internal motor protection (standard) guarantee the best safety system for compressor motor.

Under / Over voltage control - This device control the voltage value of power supply and stop the chiller if the value exceeds the allowed operating limits.

Energy meter - Device installed inside the control box showing ampere and volt values

Capacitors for power factor correction - To increase the operating power factor of the unit at nominal operating conditions. The capacitors are "dry" self-regenerating type with over pressure disconnecting safety device insulated with a no toxic dielectric mix with no PCB or PCT.

Current limit - To limit maximum absorbed current of the unit whenever is required

Speedtrol (fan speed control device - ON/OFF - up to -18°C) - Continuous fan speed modulation on the first fan of each circuit. It allows the unit working with air temperature down to -18°C.

Evaporator flow switch - Supplied separately to be wired and installed on the evaporator water piping (by the customer).

Compressors circuit breakers

Fans speed regulation (+ fan silent mode) - To control the fan speed revolution for smooth operating control of the unit. This option improves the sound level of the unit during low ambient temperature operation.

Ground fault relay - To shut down the entire unit if a ground fault condition is detected.

Rapid restart - It allows the unit to start as fast as 30 seconds after power is restored (in case of power failure).

INSTALLATION

Rubber anti vibration mounts - Supplied separately, these are positioned under the base of the unit during installation. Ideal to reduce the vibrations when the unit is floor mounted.

Spring anti vibration mounts - Supplied separately, these are positioned under the base of the unit during installation. Ideal for dampening vibrations for installation on roofs and metallic structures.

OTHER

Container Kit

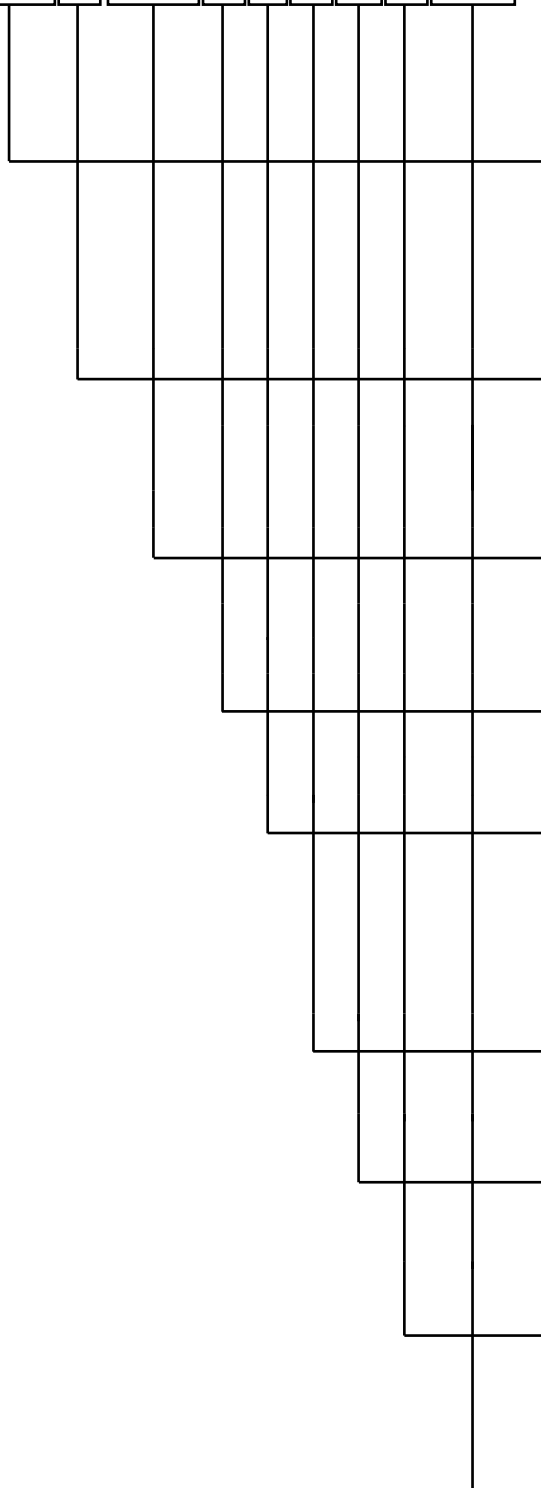
Witness test

Acoustic test

Refrigerant recovery unit - This option allows to stock refrigerant charge of 1 circuit for maintenance operation. Liquid receiver includes in/out shut-off valve and relieve valve.

Transport kit

EWA	D	650	C	-	X	S	0	0	1
1 2 3	4	5 6 7	8	9	10	11	12	13	14



Machine type

- EWA = Air cooled chiller, cooling only
- EWY = Air chilled chiller, heat pump
- ERA = Air cooled condensing unit
-

Refrigerant

- D = R-134a
- P = R-407C
- Q = R-410A

Capacity class in kW (Cooling)

Always 3-digit code

Model series

A, B,

Inverter

- = Non inverter
- Z = Inverter
- F = Non inverter free cooling (standard)
- G = Non inverter free cooling (glycol free)

Efficiency level

- S = Standard efficiency
- X = High efficiency
- P = Premium efficiency

Sound level

- S = Standard sound
- L = Low sound
- R = Reduced sound

Warranty

- 0 = 1 year of warranty
- B = 2 years

Sequential number

01, 02, = sequential for each new order

EWAD C-SS

MODEL		650	740	830	910	970	C11	C12	C13
Capacity - Cooling (1)	kW	647	744	832	912	967	1064	1152	1319
Capacity control - Type	---	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless
Capacity control - Minimum capacity	%	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Unit power input - Cooling (1)	kW	221	262	299	318	350	377	403	441
EER (1)	---	2.93	2.84	2.78	2.87	2.76	2.82	2.86	2.99
ESEER	---	3.95	3.87	3.89	3.84	3.80	3.88	3.84	4.06
IPLV	---	4.30	4.17	4.16	4.23	4.14	4.17	4.19	4.42
CASING									
Colour	---	IW	IW	IW	IW	IW	IW	IW	IW
Material (2)	---	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS
DIMENSIONS									
Height	mm	2540	2540	2540	2540	2540	2540	2540	2540
Width	mm	2285	2285	2285	2285	2285	2285	2285	2285
Length	mm	6185	6185	6185	6185	6185	7085	7985	8885
WEIGHT									
Unit Weight	kg	5630	5740	5760	6280	6560	7010	7280	7900
Operating Weight	kg	5910	5990	6010	6530	6810	7250	7520	8280
WATER HEAT EXCHANGER									
Type (3)	---	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T
Water Volume	l	266	266	251	251	251	243	243	386
Nominal water flow rate - Cooling	l/s	30.9	35.5	39.7	43.5	46.1	50.8	55.0	62.9
Nominal Water pressure drop - Cooling	kPa	47	54	53	62	69	64	74	54
Insulation material (4)		CC	CC	CC	CC	CC	CC	CC	CC
AIR HEAT EXCHANGER									
Type (5)	---	HFP	HFP	HFP	HFP	HFP	HFP	HFP	HFP
FAN									
Type (6)	---	DPT	DPT	DPT	DPT	DPT	DPT	DPT	DPT
Drive (7)	---	DOL	DOL	DOL	DOL	DOL	DOL	DOL	DOL
Diameter	mm	800	800	800	800	800	800	800	800
Nominal air flow	l/s	53442	53442	53442	64131	64131	74819	85508	96196
Quantity	No.	10	10	10	12	12	14	16	18
Speed	rpm	900	900	900	900	900	900	900	900
Motor input	kW	17.5	17.5	17.5	21.0	21.0	24.5	28.0	31.5
COMPRESSOR									
Type	---	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw
Oil charge	l	38	38	38	44	50	50	50	50
Quantity	No.	2	2	2	2	2	2	2	2
SOUND LEVEL									
Sound Power - Cooling	dB(A)	100	100	100	101	101	102	102	102
Sound Pressure - Cooling (8)	dB(A)	79	80	80	80	81	81	81	81
REFRIGERANT CIRCUIT									
Refrigerant type	---	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a
Refrigerant charge	kg	128	128	128	146	144	162	178	196
N. of circuits	No.	2	2	2	2	2	2	2	2
PIPING CONNECTIONS									
Evaporator water inlet/outlet		168.3 mm	168.3 mm	168.3 mm	168.3 mm	168.3 mm	168.3 mm	168.3 mm	219.1 mm

Fluid: Water

(1) Cooling capacity, unit power input in cooling and EER are based on the following conditions: evaporator 12.0/7.0°C; ambient 35.0°C, unit at full load operation;

(2) GPSS: Galvanized and Painted Steel Sheet; (3) PHE: Plate Heat Exchanger --- S&T: Single Pass Shell & Tube

(4) CC: Closed Cell; (5) HFP: High efficiency fin and tube type with integral subcooler

(6) DPT: Direct Propeller Type; (7) DOL: Direct On Line - VFD: Inverter - BRS: Brushless

(8) The values are according to ISO 3744 and are referred to: evaporator 12/7°C, ambient 35°C, full load operation.

EWAD C-SS

MODEL		H14	C15	C16	C17	C18	C19	C20
Capacity - Cooling (1)	kW	1418	1538	1622	1714	1802	1875	1922
Capacity control - Type	---	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless
Capacity control - Minimum capacity	%	12.5	7.0	7.0	7.0	7.0	7.0	7.0
Unit power input - Cooling (1)	kW	474	551	579	619	665	682	716
EER (1)	---	2.99	2.79	2.80	2.77	2.71	2.75	2.69
ESEER	---	4.05	3.90	3.87	3.78	3.78	3.79	3.76
IPLV	---	4.42	4.22	4.18	4.13	4.18	4.18	4.15
CASING								
Colour	---	IW	IW	IW	IW	IW	IW	IW
Material (2)	---	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS
DIMENSIONS								
Height	mm	2540	2540	2540	2540	2540	2540	2540
Width	mm	2285	2285	2285	2285	2285	2285	2285
Length	mm	8885	10185	11085	11085	11085	11985	11985
WEIGHT								
Unit Weight	kg	7900	10320	10710	10770	11240	11600	11600
Operating Weight	kg	8280	10730	11110	11260	12110	12480	12480
WATER HEAT EXCHANGER								
Type (3)	---	S&T	S&T	S&T	S&T	S&T	S&T	S&T
Water Volume	l	386	408	408	474	850	850	850
Nominal water flow rate - Cooling	l/s	67.6	73.4	77.4	81.8	86.0	89.5	91.7
Nominal Water pressure drop - Cooling	kPa	58	62	68	75	36	39	40
Insulation material (4)		CC	CC	CC	CC	CC	CC	CC
AIR HEAT EXCHANGER								
Type (5)	---	HFP	HFP	HFP	HFP	HFP	HFP	HFP
FAN								
Type (6)	---	DPT	DPT	DPT	DPT	DPT	DPT	DPT
Drive (7)	---	DOL	DOL	DOL	DOL	DOL	DOL	DOL
Diameter	mm	800	800	800	800	800	800	800
Nominal air flow	l/s	96196	106885	117573	117573	117573	128262	128262
Quantity	No.	18	20	22	22	22	24	24
Speed	rpm	900	900	900	900	900	900	900
Motor input	kW	31.5	35.0	38.5	38.5	38.5	42.0	42.0
COMPRESSOR								
Type	---	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw
Oil charge	l	50	75	75	75	75	75	75
Quantity	No.	2	3	3	3	3	3	3
SOUND LEVEL								
Sound Power - Cooling	dB(A)	102	103	103	103	104	104	104
Sound Pressure - Cooling (8)	dB(A)	81	81	81	81	82	82	82
REFRIGERANT CIRCUIT								
Refrigerant type	---	R134a	R134a	R134a	R134a	R134a	R134a	R134a
Refrigerant charge	kg	196	260	261	261	275	305	305
N. of circuits	No.	2	3	3	3	3	3	3
PIPING CONNECTIONS								
Evaporator water inlet/outlet		219.1 mm	219.1 mm	219.1 mm	219.1 mm	273 mm	273 mm	273 mm

Fluid: Water

(1) Cooling capacity, unit power input in cooling and EER are based on the following conditions: evaporator 12.0/7.0°C; ambient 35.0°C, unit at full load operation;

(2) GPSS: Galvanized and Painted Steel Sheet; (3) PHE: Plate Heat Exchanger --- S&T: Single Pass Shell & Tube

(4) CC: Closed Cell; (5) HFP: High efficiency fin and tube type with integral subcooler

(6) DPT: Direct Propeller Type; (7) DOL: Direct On Line - VFD: Inverter - BRS: Brushless

(8) The values are according to ISO 3744 and are referred to: evaporator 12/7°C, ambient 35°C, full load operation.

EWAD C-SL

MODEL		650	740	830	910	970	C11	C12	C13
Capacity - Cooling (1)	kW	647	744	832	912	967	1064	1152	1319
Capacity control - Type	---	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless
Capacity control - Minimum capacity	%	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Unit power input - Cooling (1)	kW	221	262	299	318	350	377	403	441
EER (1)	---	2.93	2.84	2.78	2.87	2.76	2.82	2.86	2.99
ESEER	---	3.95	3.87	3.89	3.84	3.80	3.88	3.84	4.06
IPLV	---	4.30	4.17	4.16	4.23	4.14	4.17	4.19	4.42
CASING									
Colour	---	IW	IW	IW	IW	IW	IW	IW	IW
Material (2)	---	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS
DIMENSIONS									
Height	mm	2540	2540	2540	2540	2540	2540	2540	2540
Width	mm	2285	2285	2285	2285	2285	2285	2285	2285
Length	mm	6185	6185	6185	6185	6185	7085	7985	8885
WEIGHT									
Unit Weight	kg	5920	6030	6050	6570	6850	7300	7570	8190
Operating Weight	kg	6200	6280	6300	6820	7100	7540	7810	8570
WATER HEAT EXCHANGER									
Type (3)	---	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T
Water Volume	l	266	266	251	251	251	243	243	386
Nominal water flow rate - Cooling	l/s	30.9	35.5	39.7	43.5	46.1	50.8	55.0	62.9
Nominal Water pressure drop - Cooling	kPa	47	54	53	62	69	64	74	54
Insulation material (4)		CC	CC	CC	CC	CC	CC	CC	CC
AIR HEAT EXCHANGER									
Type (5)	---	HFP	HFP	HFP	HFP	HFP	HFP	HFP	HFP
FAN									
Type (6)	---	DPT	DPT	DPT	DPT	DPT	DPT	DPT	DPT
Drive (7)	---	DOL	DOL	DOL	DOL	DOL	DOL	DOL	DOL
Diameter	mm	800	800	800	800	800	800	800	800
Nominal air flow	l/s	53442	53442	53442	64131	64131	74819	85508	96196
Quantity	No.	10	10	10	12	12	14	16	18
Speed	rpm	900	900	900	900	900	900	900	900
Motor input	kW	17.5	17.5	17.5	21.0	21.0	24.5	28.0	31.5
COMPRESSOR									
Type	---	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw
Oil charge	l	38	38	38	44	50	50	50	50
Quantity	No.	2	2	2	2	2	2	2	2
SOUND LEVEL									
Sound Power - Cooling	dB(A)	96	96	96	98	97	98	98	98
Sound Pressure - Cooling (8)	dB(A)	76	76	76	77	77	77	77	77
REFRIGERANT CIRCUIT									
Refrigerant type	---	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a
Refrigerant charge	kg	128	128	128	146	144	162	178	196
N. of circuits	No.	2	2	2	2	2	2	2	2
PIPING CONNECTIONS									
Evaporator water inlet/outlet		168.3 mm	168.3 mm	168.3 mm	168.3 mm	168.3 mm	168.3 mm	168.3 mm	219.1 mm

Fluid: Water

(1) Cooling capacity, unit power input in cooling and EER are based on the following conditions: evaporator 12.0/7.0°C; ambient 35.0°C, unit at full load operation;

(2) GPSS: Galvanized and Painted Steel Sheet; (3) PHE: Plate Heat Exchanger --- S&T: Single Pass Shell & Tube

(4) CC: Closed Cell; (5) HFP: High efficiency fin and tube type with integral subcooler

(6) DPT: Direct Propeller Type; (7) DOL: Direct On Line - VFD: Inverter - BRS: Brushless

(8) The values are according to ISO 3744 and are referred to: evaporator 12/7°C, ambient 35°C, full load operation.

EWAD C-SL

MODEL		H14	C15	C16	C17	C18	C19	C20
Capacity - Cooling (1)	kW	1418	1538	1622	1714	1802	1875	1922
Capacity control - Type	---	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless
Capacity control - Minimum capacity	%	12.5	7.0	7.0	7.0	7.0	7.0	7.0
Unit power input - Cooling (1)	kW	474	551	579	619	665	682	716
EER (1)	---	2.99	2.79	2.80	2.77	2.71	2.75	2.69
ESEER	---	4.05	3.90	3.87	3.78	3.78	3.79	3.76
IPLV	---	4.42	4.22	4.18	4.13	4.18	4.18	4.15
CASING								
Colour	---	IW	IW	IW	IW	IW	IW	IW
Material (2)	---	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS
DIMENSIONS								
Height	mm	2540	2540	2540	2540	2540	2540	2540
Width	mm	2285	2285	2285	2285	2285	2285	2285
Length	mm	8885	10185	11085	11085	11085	11985	11985
WEIGHT								
Unit Weight	kg	8190	10770	11150	11210	11680	12040	12040
Operating Weight	kg	8570	11170	11550	11700	12560	12920	12920
WATER HEAT EXCHANGER								
Type (3)	---	S&T	S&T	S&T	S&T	S&T	S&T	S&T
Water Volume	l	386	408	408	474	850	850	850
Nominal water flow rate - Cooling	l/s	67.6	73.4	77.4	81.8	86.0	89.5	91.7
Nominal Water pressure drop - Cooling	kPa	58	62	68	75	36	39	40
Insulation material (4)		CC	CC	CC	CC	CC	CC	CC
AIR HEAT EXCHANGER								
Type (5)	---	HFP	HFP	HFP	HFP	HFP	HFP	HFP
FAN								
Type (6)	---	DPT	DPT	DPT	DPT	DPT	DPT	DPT
Drive (7)	---	DOL	DOL	DOL	DOL	DOL	DOL	DOL
Diameter	mm	800	800	800	800	800	800	800
Nominal air flow	l/s	96196	106885	117573	117573	117573	128262	128262
Quantity	No.	18	20	22	22	22	24	24
Speed	rpm	900	900	900	900	900	900	900
Motor input	kW	31.5	35.0	38.5	38.5	38.5	42.0	42.0
COMPRESSOR								
Type	---	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw
Oil charge	l	50	75	75	75	75	75	75
Quantity	No.	2	3	3	3	3	3	3
SOUND LEVEL								
Sound Power - Cooling	dB(A)	98	99	100	100	100	101	101
Sound Pressure - Cooling (8)	dB(A)	77	77	77	77	78	78	78
REFRIGERANT CIRCUIT								
Refrigerant type	---	R134a	R134a	R134a	R134a	R134a	R134a	R134a
Refrigerant charge	kg	196	260	261	261	275	305	305
N. of circuits	No.	2	3	3	3	3	3	3
PIPING CONNECTIONS								
Evaporator water inlet/outlet		219.1 mm	219.1 mm	219.1 mm	219.1 mm	273 mm	273 mm	273 mm

Fluid: Water

(1) Cooling capacity, unit power input in cooling and EER are based on the following conditions: evaporator 12.0/7.0°C; ambient 35.0°C, unit at full load operation;

(2) GPSS: Galvanized and Painted Steel Sheet; (3) PHE: Plate Heat Exchanger --- S&T: Single Pass Shell & Tube

(4) CC: Closed Cell; (5) HFP: High efficiency fin and tube type with integral subcooler

(6) DPT: Direct Propeller Type; (7) DOL: Direct On Line - VFD: Inverter - BRS: Brushless

(8) The values are according to ISO 3744 and are referred to: evaporator 12/7°C, ambient 35°C, full load operation.

EWAD C-SR

MODEL		620	720	790	880	920	C10	C11	C12
Capacity - Cooling (1)	kW	619	715	789	876	922	1020	1112	1270
Capacity control - Type	---	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless
Capacity control - Minimum capacity	%	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Unit power input - Cooling (1)	kW	223	273	314	331	369	394	416	456
EER (1)	---	2.77	2.62	2.51	2.65	2.50	2.59	2.67	2.78
ESEER	---	4.08	3.96	3.98	3.99	4.00	3.96	3.96	4.10
IPLV	---	4.37	4.23	4.19	4.29	4.21	4.20	4.29	4.47
CASING									
Colour	---	IW	IW	IW	IW	IW	IW	IW	IW
Material (2)	---	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS
DIMENSIONS									
Height	mm	2540	2540	2540	2540	2540	2540	2540	2540
Width	mm	2285	2285	2285	2285	2285	2285	2285	2285
Length	mm	6185	6185	6185	6185	6185	7085	7985	8885
WEIGHT									
Unit Weight	kg	5920	6030	6050	6570	6850	7300	7570	8190
Operating Weight	kg	6200	6280	6300	6820	7100	7540	7810	8570
WATER HEAT EXCHANGER									
Type (3)	---	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T
Water Volume	l	266	266	251	251	251	243	243	386
Nominal water flow rate - Cooling	l/s	29.5	34.1	37.6	41.8	44.0	48.7	53.1	60.6
Nominal Water pressure drop - Cooling	kPa	43	50	48	58	63	60	69	50
Insulation material (4)		CC	CC	CC	CC	CC	CC	CC	CC
AIR HEAT EXCHANGER									
Type (5)	---	HFP	HFP	HFP	HFP	HFP	HFP	HFP	HFP
FAN									
Type (6)	---	DPT	DPT	DPT	DPT	DPT	DPT	DPT	DPT
Drive (7)	---	DOL	DOL	DOL	DOL	DOL	DOL	DOL	DOL
Diameter	mm	800	800	800	800	800	800	800	800
Nominal air flow	l/s	41007	41007	41007	49209	49209	57410	65611	73813
Quantity	No.	10	10	10	12	12	14	16	18
Speed	rpm	700	700	700	700	700	700	700	700
Motor input	kW	7.8	7.8	7.8	9.4	9.4	11.0	12.5	14.1
COMPRESSOR									
Type	---	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw
Oil charge	l	38	38	38	44	50	50	50	50
Quantity	No.	2	2	2	2	2	2	2	2
SOUND LEVEL									
Sound Power - Cooling	dB(A)	92	92	92	93	93	94	94	94
Sound Pressure - Cooling (8)	dB(A)	71	72	72	72	73	73	73	73
REFRIGERANT CIRCUIT									
Refrigerant type	---	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a
Refrigerant charge	kg	128	128	128	146	144	162	178	196
N. of circuits	No.	2	2	2	2	2	2	2	2
PIPING CONNECTIONS									
Evaporator water inlet/outlet		168.3 mm	168.3 mm	168.3 mm	168.3 mm	168.3 mm	168.3 mm	168.3 mm	219.1 mm

Fluid: Water

(1) Cooling capacity, unit power input in cooling and EER are based on the following conditions: evaporator 12.0/7.0°C; ambient 35.0°C, unit at full load operation;

(2) GPSS: Galvanized and Painted Steel Sheet; (3) PHE: Plate Heat Exchanger --- S&T: Single Pass Shell & Tube

(4) CC: Closed Cell; (5) HFP: High efficiency fin and tube type with integral subcooler

(6) DPT: Direct Propeller Type; (7) DOL: Direct On Line - VFD: Inverter - BRS: Brushless

(8) The values are according to ISO 3744 and are referred to: evaporator 12/7°C, ambient 35°C, full load operation.

EWAD C-SR

MODEL		H14	C13	C14	C15	C16	C17	C18	C19
Capacity - Cooling (1)	kW	1321	1367	1471	1556	1623	1714	1795	1833
Capacity control - Type	---	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless
Capacity control - Minimum capacity	%	12.5	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Unit power input - Cooling (1)	kW	495	518	577	603	647	702	718	758
EER (1)	---	2.67	2.64	2.55	2.58	2.51	2.44	2.50	2.42
ESEER	---	3.98	3.90	3.87	3.90	3.83	3.78	3.81	3.75
IPLV	---	4.35	4.24	4.22	4.24	4.18	4.23	4.20	4.16
CASING									
Colour	---	IW	IW	IW	IW	IW	IW	IW	IW
Material (2)	---	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS
DIMENSIONS									
Height	mm	2540	2540	2540	2540	2540	2540	2540	2540
Width	mm	2285	2285	2285	2285	2285	2285	2285	2285
Length	mm	8885	10185	10185	11085	11085	11085	11985	11985
WEIGHT									
Unit Weight	kg	8190	10750	10770	11150	11210	11680	12040	12040
Operating Weight	kg	8570	11170	11170	11550	11700	12560	12920	12920
WATER HEAT EXCHANGER									
Type (3)	---	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T
Water Volume	l	386	421	408	408	474	850	850	850
Nominal water flow rate - Cooling	l/s	63.0	65.2	70.2	74.2	77.4	81.8	85.6	87.5
Nominal Water pressure drop - Cooling	kPa	54	45	57	63	69	33	36	37
Insulation material (4)		CC	CC	CC	CC	CC	CC	CC	CC
AIR HEAT EXCHANGER									
Type (5)	---	HFP	HFP	HFP	HFP	HFP	HFP	HFP	HFP
FAN									
Type (6)	---	DPT	DPT	DPT	DPT	DPT	DPT	DPT	DPT
Drive (7)	---	DOL	DOL	DOL	DOL	DOL	DOL	DOL	DOL
Diameter	mm	800	800	800	800	800	800	800	800
Nominal air flow	l/s	73813	82014	82014	90216	90216	90216	98417	98417
Quantity	No.	18	20	20	22	22	22	24	24
Speed	rpm	700	700	700	700	700	700	700	700
Motor input	kW	14.1	15.7	15.7	17.3	17.3	17.3	18.8	18.8
COMPRESSOR									
Type	---	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw
Oil charge	l	50	75	75	75	75	75	75	75
Quantity	No.	2	3	3	3	3	3	3	3
SOUND LEVEL									
Sound Power - Cooling	dB(A)	94	95	95	95	95	96	96	96
Sound Pressure - Cooling (8)	dB(A)	73	73	73	73	73	74	74	74
REFRIGERANT CIRCUIT									
Refrigerant type	---	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a
Refrigerant charge	kg	196	260	260	261	261	275	305	305
N. of circuits	No.	2	3	3	3	3	3	3	3
PIPING CONNECTIONS									
Evaporator water inlet/outlet		219.1 mm	219.1 mm	219.1 mm	219.1 mm	219.1 mm	273 mm	273 mm	273 mm

Fluid: Water

(1) Cooling capacity, unit power input in cooling and EER are based on the following conditions: evaporator 12.0/7.0°C; ambient 35.0°C, unit at full load operation;

(2) GPSS: Galvanized and Painted Steel Sheet; (3) PHE: Plate Heat Exchanger --- S&T: Single Pass Shell & Tube

(4) CC: Closed Cell; (5) HFP: High efficiency fin and tube type with integral subcooler

(6) DPT: Direct Propeller Type; (7) DOL: Direct On Line - VFD: Inverter - BRS: Brushless

(8) The values are according to ISO 3744 and are referred to: evaporator 12/7°C, ambient 35°C, full load operation.

EWAD C-XS

MODEL		760	830	890	990	C10	C11	C12	C13
Capacity - Cooling (1)	kW	756	830	889	1001	1074	1196	1280	1349
Capacity control - Type	---	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless
Capacity control - Minimum capacity	%	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Unit power input - Cooling (1)	kW	233	253	278	307	338	364	400	410
EER (1)	---	3.25	3.28	3.20	3.26	3.18	3.29	3.20	3.29
ESEER	---	4.02	4.11	4.02	4.11	4.05	4.14	4.02	4.28
IPLV	---	4.48	4.48	4.44	4.48	4.44	4.51	4.47	4.59
CASING									
Colour	---	IW	IW	IW	IW	IW	IW	IW	IW
Material (2)	---	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS
DIMENSIONS									
Height	mm	2540	2540	2540	2540	2540	2540	2540	2540
Width	mm	2285	2285	2285	2285	2285	2285	2285	2285
Length	mm	6185	7085	7085	7985	7985	9785	9785	9785
WEIGHT									
Unit Weight	kg	5990	6340	6360	7190	7470	8220	8240	8900
Operating Weight	kg	6240	6580	6600	7600	7870	8610	8630	9890
WATER HEAT EXCHANGER									
Type (3)	---	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T
Water Volume	l	251	243	243	403	403	386	386	979
Nominal water flow rate - Cooling	l/s	36.1	39.6	42.4	47.8	51.2	57.1	61.1	64.4
Nominal Water pressure drop - Cooling	kPa	81	57	64	61	69	45	51	68
Insulation material (4)		CC	CC	CC	CC	CC	CC	CC	CC
AIR HEAT EXCHANGER									
Type (5)	---	HFP	HFP	HFP	HFP	HFP	HFP	HFP	HFP
FAN									
Type (6)	---	DPT	DPT	DPT	DPT	DPT	DPT	DPT	DPT
Drive (7)	---	DOL	DOL	DOL	DOL	DOL	DOL	DOL	DOL
Diameter	mm	800	800	800	800	800	800	800	800
Nominal air flow	l/s	64131	74819	74819	85508	85508	106885	106885	106885
Quantity	No.	12	14	14	16	16	20	20	20
Speed	rpm	900	900	900	900	900	900	900	900
Motor input	kW	21.0	24.5	24.5	28.0	28.0	35.0	35.0	35.0
COMPRESSOR									
Type	---	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw
Oil charge	l	38	38	38	44	50	50	50	50
Quantity	No.	2	2	2	2	2	2	2	2
SOUND LEVEL									
Sound Power - Cooling	dB(A)	100	101	101	101	102	102	103	103
Sound Pressure - Cooling (8)	dB(A)	80	80	80	80	81	80	80	80
REFRIGERANT CIRCUIT									
Refrigerant type	---	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a
Refrigerant charge	kg	146	162	162	182	182	214	214	225
N. of circuits	No.	2	2	2	2	2	2	2	2
PIPING CONNECTIONS									
Evaporator water inlet/outlet		168.3 mm	168.3 mm	168.3 mm	219.1 mm	219.1 mm	219.1 mm	219.1 mm	273 mm

Fluid: Water

(1) Cooling capacity, unit power input in cooling and EER are based on the following conditions: evaporator 12.0/7.0°C; ambient 35.0°C, unit at full load operation;

(2) GPSS: Galvanized and Painted Steel Sheet; (3) PHE: Plate Heat Exchanger --- S&T: Single Pass Shell & Tube

(4) CC: Closed Cell; (5) HFP: High efficiency fin and tube type with integral subcooler

(6) DPT: Direct Propeller Type; (7) DOL: Direct On Line - VFD: Inverter - BRS: Brushless

(8) The values are according to ISO 3744 and are referred to: evaporator 12/7°C, ambient 35°C, full load operation.

EWAD C-XS

MODEL		H14	H15	C16	C17	C18	C19	C20	C21
Capacity - Cooling (1)	kW	1415	1525	1596	1685	1768	1858	1901	1953
Capacity control - Type	---	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless
Capacity control - Minimum capacity	%	12.5	12.5	7.0	7.0	7.0	7.0	7.0	7.0
Unit power input - Cooling (1)	kW	443	475	503	533	561	590	614	643
EER (1)	---	3.19	3.21	3.17	3.16	3.15	3.15	3.09	3.04
ESEER	---	4.30	4.33	4.17	4.16	4.13	4.13	4.11	4.02
IPLV	---	4.71	4.81	4.52	4.52	4.47	4.47	4.48	4.39
CASING									
Colour	---	IW	IW	IW	IW	IW	IW	IW	IW
Material (2)	---	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS
DIMENSIONS									
Height	mm	2540	2540	2540	2540	2540	2540	2540	2540
Width	mm	2285	2285	2285	2285	2285	2285	2285	2285
Length	mm	9785	9785	11985	12885	13785	14685	14685	14685
WEIGHT									
Unit Weight	kg	8900	8900	11570	11900	12260	12600	12600	12600
Operating Weight	kg	9890	9890	12430	12760	13140	13470	13470	13470
WATER HEAT EXCHANGER									
Type (3)	---	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T
Water Volume	l	979	979	850	850	871	850	850	850
Nominal water flow rate - Cooling	l/s	67.5	72.8	76.1	80.4	84.4	88.6	90.7	93.2
Nominal Water pressure drop - Cooling	kPa	77	84	62	68	68	74	39	41
Insulation material (4)		CC	CC	CC	CC	CC	CC	CC	CC
AIR HEAT EXCHANGER									
Type (5)	---	HFP	HFP	HFP	HFP	HFP	HFP	HFP	HFP
FAN									
Type (6)	---	DPT	DPT	DPT	DPT	DPT	DPT	DPT	DPT
Drive (7)	---	DOL	DOL	DOL	DOL	DOL	DOL	DOL	DOL
Diameter	mm	800	800	800	800	800	800	800	800
Nominal air flow	l/s	106885	106885	128262	138950	149639	160327	160327	160327
Quantity	No.	20	20	24	26	28	30	30	30
Speed	rpm	900	900	900	900	900	900	900	900
Motor input	kW	35.0	35.0	42.0	45.5	49.0	52.5	52.5	52.5
COMPRESSOR									
Type	---	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw
Oil charge	l	50	50	75	75	75	75	75	75
Quantity	No.	2	2	3	3	3	3	3	3
SOUND LEVEL									
Sound Power - Cooling	dB(A)	103	103	103	104	104	104	104	104
Sound Pressure - Cooling (8)	dB(A)	80	80	81	81	81	81	81	81
REFRIGERANT CIRCUIT									
Refrigerant type	---	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a
Refrigerant charge	kg	248	248	297	312	328	343	343	343
N. of circuits	No.	2	2	3	3	3	3	3	3
PIPING CONNECTIONS									
Evaporator water inlet/outlet		273 mm	273 mm	273 mm	273 mm	273 mm	273 mm	273 mm	273 mm

Fluid: Water

(1) Cooling capacity, unit power input in cooling and EER are based on the following conditions: evaporator 12.0/7.0°C; ambient 35.0°C, unit at full load operation;

(2) GPSS: Galvanized and Painted Steel Sheet; (3) PHE: Plate Heat Exchanger --- S&T: Single Pass Shell & Tube

(4) CC: Closed Cell; (5) HFP: High efficiency fin and tube type with integral subcooler

(6) DPT: Direct Propeller Type; (7) DOL: Direct On Line - VFD: Inverter - BRS: Brushless

(8) The values are according to ISO 3744 and are referred to: evaporator 12/7°C, ambient 35°C, full load operation.

EWAD C-XS

MODEL		C22							
Capacity - Cooling (1)	kW	2008							
Capacity control - Type	---	Stepless							
Capacity control - Minimum capacity	%	7.0							
Unit power input - Cooling (1)	kW	672							
EER (1)	---	2.99							
ESEER	---	3.99							
IPLV	---	4.39							
CASING									
Colour	---	IW							
Material (2)	---	GPSS							
DIMENSIONS									
Height	mm	2540							
Width	mm	2285							
Length	mm	14685							
WEIGHT									
Unit Weight	kg	12600							
Operating Weight	kg	13470							
WATER HEAT EXCHANGER									
Type (3)	---	S&T							
Water Volume	l	850							
Nominal water flow rate - Cooling	l/s	95.8							
Nominal Water pressure drop - Cooling	kPa	43							
Insulation material (4)		CC							
AIR HEAT EXCHANGER									
Type (5)	---	HFP							
FAN									
Type (6)	---	DPT							
Drive (7)	---	DOL							
Diameter	mm	800							
Nominal air flow	l/s	160327							
Quantity	No.	30							
Speed	rpm	900							
Motor input	kW	52.5							
COMPRESSOR									
Type	---	Asymm Single Screw							
Oil charge	l	75							
Quantity	No.	3							
SOUND LEVEL									
Sound Power - Cooling	dB(A)	104							
Sound Pressure - Cooling (8)	dB(A)	81							
REFRIGERANT CIRCUIT									
Refrigerant type	---	R134a							
Refrigerant charge	kg	343							
N. of circuits	No.	3							
PIPING CONNECTIONS									
Evaporator water inlet/outlet		273 mm							

Fluid: Water

(1) Cooling capacity, unit power input in cooling and EER are based on the following conditions: evaporator 12.0/7.0°C; ambient 35.0°C, unit at full load operation;

(2) GPSS: Galvanized and Painted Steel Sheet; (3) PHE: Plate Heat Exchanger --- S&T: Single Pass Shell & Tube

(4) CC: Closed Cell; (5) HFP: High efficiency fin and tube type with integral subcooler

(6) DPT: Direct Propeller Type; (7) DOL: Direct On Line - VFD: Inverter - BRS: Brushless

(8) The values are according to ISO 3744 and are referred to: evaporator 12/7°C, ambient 35°C, full load operation.

EWAD C-XL

MODEL		760	830	890	990	C10	C11	C12	C13
Capacity - Cooling (1)	kW	756	830	889	1001	1074	1196	1280	1349
Capacity control - Type	---	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless
Capacity control - Minimum capacity	%	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Unit power input - Cooling (1)	kW	233	253	278	307	338	364	400	410
EER (1)	---	3.25	3.28	3.20	3.26	3.18	3.29	3.20	3.29
ESEER	---	4.02	4.11	4.02	4.11	4.05	4.14	4.02	4.28
IPLV	---	4.48	4.48	4.44	4.48	4.44	4.51	4.47	4.59
CASING									
Colour	---	IW	IW	IW	IW	IW	IW	IW	IW
Material (2)	---	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS
DIMENSIONS									
Height	mm	2540	2540	2540	2540	2540	2540	2540	2540
Width	mm	2285	2285	2285	2285	2285	2285	2285	2285
Length	mm	6185	7085	7085	7985	7985	9785	9785	9785
WEIGHT									
Unit Weight	kg	6280	6630	6650	7480	7760	8510	8530	9190
Operating Weight	kg	6520	6870	6890	7880	8160	8900	8920	10180
WATER HEAT EXCHANGER									
Type (3)	---	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T
Water Volume	l	251	243	243	403	403	386	386	979
Nominal water flow rate - Cooling	l/s	36.1	39.6	42.4	47.8	51.2	57.1	61.1	64.4
Nominal Water pressure drop - Cooling	kPa	81	57	64	61	69	45	51	68
Insulation material (4)		CC	CC	CC	CC	CC	CC	CC	CC
AIR HEAT EXCHANGER									
Type (5)	---	HFP	HFP	HFP	HFP	HFP	HFP	HFP	HFP
FAN									
Type (6)	---	DPT	DPT	DPT	DPT	DPT	DPT	DPT	DPT
Drive (7)	---	DOL	DOL	DOL	DOL	DOL	DOL	DOL	DOL
Diameter	mm	800	800	800	800	800	800	800	800
Nominal air flow	l/s	64131	74819	74819	85508	85508	106885	106885	106885
Quantity	No.	12	14	14	16	16	20	20	20
Speed	rpm	900	900	900	900	900	900	900	900
Motor input	kW	21.0	24.5	24.5	28.0	28.0	35.0	35.0	35.0
COMPRESSOR									
Type	---	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw
Oil charge	l	38	38	38	44	50	50	50	50
Quantity	No.	2	2	2	2	2	2	2	2
SOUND LEVEL									
Sound Power - Cooling	dB(A)	97	97	97	98	98	99	99	99
Sound Pressure - Cooling (8)	dB(A)	76	77	77	77	77	77	77	77
REFRIGERANT CIRCUIT									
Refrigerant type	---	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a
Refrigerant charge	kg	146	162	162	182	182	214	214	225
N. of circuits	No.	2	2	2	2	2	2	2	2
PIPING CONNECTIONS									
Evaporator water inlet/outlet		168.3 mm	168.3 mm	168.3 mm	219.1 mm	219.1 mm	219.1 mm	219.1 mm	273 mm

Fluid: Water

(1) Cooling capacity, unit power input in cooling and EER are based on the following conditions: evaporator 12.0/7.0°C; ambient 35.0°C, unit at full load operation;

(2) GPSS: Galvanized and Painted Steel Sheet; (3) PHE: Plate Heat Exchanger --- S&T: Single Pass Shell & Tube

(4) CC: Closed Cell; (5) HFP: High efficiency fin and tube type with integral subcooler

(6) DPT: Direct Propeller Type; (7) DOL: Direct On Line - VFD: Inverter - BRS: Brushless

(8) The values are according to ISO 3744 and are referred to: evaporator 12/7°C, ambient 35°C, full load operation.

EWAD C-XL

MODEL		H14	H15	C16	C17	C18	C19	C20	C21
Capacity - Cooling (1)	kW	1415	1525	1596	1685	1768	1858	1901	1953
Capacity control - Type	---	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless
Capacity control - Minimum capacity	%	12.5	12.5	7.0	7.0	7.0	7.0	7.0	7.0
Unit power input - Cooling (1)	kW	443	475	503	533	561	590	614	643
EER (1)	---	3.19	3.21	3.17	3.16	3.15	3.15	3.09	3.04
ESEER	---	4.30	4.33	4.17	4.16	4.13	4.13	4.11	4.02
IPLV	---	4.71	4.81	4.52	4.52	4.47	4.47	4.48	4.39
CASING									
Colour	---	IW	IW	IW	IW	IW	IW	IW	IW
Material (2)	---	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS
DIMENSIONS									
Height	mm	2540	2540	2540	2540	2540	2540	2540	2540
Width	mm	2285	2285	2285	2285	2285	2285	2285	2285
Length	mm	9785	9785	11985	12885	13785	14685	14685	14685
WEIGHT									
Unit Weight	kg	9190	9190	12010	12350	12700	13040	13040	13040
Operating Weight	kg	10180	10180	12870	13200	13580	13910	13910	13910
WATER HEAT EXCHANGER									
Type (3)	---	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T
Water Volume	l	979	979	850	850	871	850	850	850
Nominal water flow rate - Cooling	l/s	67.5	72.8	76.1	80.4	84.4	88.6	90.7	93.2
Nominal Water pressure drop - Cooling	kPa	77	84	62	68	68	74	39	41
Insulation material (4)		CC	CC	CC	CC	CC	CC	CC	CC
AIR HEAT EXCHANGER									
Type (5)	---	HFP	HFP	HFP	HFP	HFP	HFP	HFP	HFP
FAN									
Type (6)	---	DPT	DPT	DPT	DPT	DPT	DPT	DPT	DPT
Drive (7)	---	DOL	DOL	DOL	DOL	DOL	DOL	DOL	DOL
Diameter	mm	800	800	800	800	800	800	800	800
Nominal air flow	l/s	106885	106885	128262	138950	149639	160327	160327	160327
Quantity	No.	20	20	24	26	28	30	30	30
Speed	rpm	900	900	900	900	900	900	900	900
Motor input	kW	35.0	35.0	42.0	45.5	49.0	52.5	52.5	52.5
COMPRESSOR									
Type	---	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw
Oil charge	l	50	50	75	75	75	75	75	75
Quantity	No.	2	2	3	3	3	3	3	3
SOUND LEVEL									
Sound Power - Cooling	dB(A)	99	99	100	100	100	100	100	100
Sound Pressure - Cooling (8)	dB(A)	77	77	77	77	78	78	78	78
REFRIGERANT CIRCUIT									
Refrigerant type	---	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a
Refrigerant charge	kg	248	248	297	312	328	343	343	343
N. of circuits	No.	2	2	3	3	3	3	3	3
PIPING CONNECTIONS									
Evaporator water inlet/outlet		273 mm	273 mm	273 mm	273 mm	273 mm	273 mm	273 mm	273 mm

Fluid: Water

(1) Cooling capacity, unit power input in cooling and EER are based on the following conditions: evaporator 12.0/7.0°C; ambient 35.0°C, unit at full load operation;

(2) GPSS: Galvanized and Painted Steel Sheet; (3) PHE: Plate Heat Exchanger --- S&T: Single Pass Shell & Tube

(4) CC: Closed Cell; (5) HFP: High efficiency fin and tube type with integral subcooler

(6) DPT: Direct Propeller Type; (7) DOL: Direct On Line - VFD: Inverter - BRS: Brushless

(8) The values are according to ISO 3744 and are referred to: evaporator 12/7°C, ambient 35°C, full load operation.

EWAD C-XL

MODEL		C22							
Capacity - Cooling (1)	kW	2008							
Capacity control - Type	---	Stepless							
Capacity control - Minimum capacity	%	7.0							
Unit power input - Cooling (1)	kW	672							
EER (1)	---	2.99							
ESEER	---	3.99							
IPLV	---	4.39							
CASING									
Colour	---	IW							
Material (2)	---	GPSS							
DIMENSIONS									
Height	mm	2540							
Width	mm	2285							
Length	mm	14685							
WEIGHT									
Unit Weight	kg	13040							
Operating Weight	kg	13910							
WATER HEAT EXCHANGER									
Type (3)	---	S&T							
Water Volume	l	850							
Nominal water flow rate - Cooling	l/s	95.8							
Nominal Water pressure drop - Cooling	kPa	43							
Insulation material (4)		CC							
AIR HEAT EXCHANGER									
Type (5)	---	HFP							
FAN									
Type (6)	---	DPT							
Drive (7)	---	DOL							
Diameter	mm	800							
Nominal air flow	l/s	160327							
Quantity	No.	30							
Speed	rpm	900							
Motor input	kW	52.5							
COMPRESSOR									
Type	---	Asymm Single Screw							
Oil charge	l	75							
Quantity	No.	3							
SOUND LEVEL									
Sound Power - Cooling	dB(A)	100							
Sound Pressure - Cooling (8)	dB(A)	78							
REFRIGERANT CIRCUIT									
Refrigerant type	---	R134a							
Refrigerant charge	kg	343							
N. of circuits	No.	3							
PIPING CONNECTIONS									
Evaporator water inlet/outlet		273 mm							

Fluid: Water

(1) Cooling capacity, unit power input in cooling and EER are based on the following conditions: evaporator 12.0/7.0°C; ambient 35.0°C, unit at full load operation;

(2) GPSS: Galvanized and Painted Steel Sheet; (3) PHE: Plate Heat Exchanger --- S&T: Single Pass Shell & Tube

(4) CC: Closed Cell; (5) HFP: High efficiency fin and tube type with integral subcooler

(6) DPT: Direct Propeller Type; (7) DOL: Direct On Line - VFD: Inverter - BRS: Brushless

(8) The values are according to ISO 3744 and are referred to: evaporator 12/7°C, ambient 35°C, full load operation.

EWAD C-XR

MODEL		740	810	870	970	C10	C11	C12	C13
Capacity - Cooling (1)	kW	736	811	866	974	1041	1168	1247	1302
Capacity control - Type	---	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless
Capacity control - Minimum capacity	%	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Unit power input - Cooling (1)	kW	234	253	281	309	344	365	405	415
EER (1)	---	3.14	3.20	3.08	3.15	3.03	3.20	3.08	3.14
ESEER	---	4.28	4.36	4.23	4.34	4.24	4.38	4.25	4.33
IPLV	---	4.55	4.62	4.51	4.63	4.54	4.65	4.54	4.58
CASING									
Colour	---	IW	IW	IW	IW	IW	IW	IW	IW
Material (2)	---	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS
DIMENSIONS									
Height	mm	2540	2540	2540	2540	2540	2540	2540	2540
Width	mm	2285	2285	2285	2285	2285	2285	2285	2285
Length	mm	6185	7085	7085	7985	7985	9785	9785	9785
WEIGHT									
Unit Weight	kg	6280	6630	6650	7480	7760	8510	8530	9190
Operating Weight	kg	6520	6870	6890	7880	8160	8900	8920	10180
WATER HEAT EXCHANGER									
Type (3)	---	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T
Water Volume	l	251	243	243	403	403	386	386	979
Nominal water flow rate - Cooling	l/s	35.1	38.7	41.3	46.5	49.7	55.7	59.5	62.1
Nominal Water pressure drop - Cooling	kPa	77	54	61	58	65	43	49	64
Insulation material (4)		CC	CC	CC	CC	CC	CC	CC	CC
AIR HEAT EXCHANGER									
Type (5)	---	HFP	HFP	HFP	HFP	HFP	HFP	HFP	HFP
FAN									
Type (6)	---	DPT	DPT	DPT	DPT	DPT	DPT	DPT	DPT
Drive (7)	---	DOL	DOL	DOL	DOL	DOL	DOL	DOL	DOL
Diameter	mm	800	800	800	800	800	800	800	800
Nominal air flow	l/s	49209	57410	57410	65611	65611	82014	82014	82014
Quantity	No.	12	14	14	16	16	20	20	20
Speed	rpm	700	700	700	700	700	700	700	700
Motor input	kW	9.4	11.0	11.0	12.5	12.5	15.7	15.7	15.7
COMPRESSOR									
Type	---	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw
Oil charge	l	38	38	38	44	50	50	50	50
Quantity	No.	2	2	2	2	2	2	2	2
SOUND LEVEL									
Sound Power - Cooling	dB(A)	92	92	92	94	94	94	95	95
Sound Pressure - Cooling (8)	dB(A)	72	72	72	72	73	72	72	72
REFRIGERANT CIRCUIT									
Refrigerant type	---	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a
Refrigerant charge	kg	146	162	162	182	182	214	214	225
N. of circuits	No.	2	2	2	2	2	2	2	2
PIPING CONNECTIONS									
Evaporator water inlet/outlet		168.3 mm	168.3 mm	168.3 mm	219.1 mm	219.1 mm	219.1 mm	219.1 mm	273 mm

Fluid: Water

(1) Cooling capacity, unit power input in cooling and EER are based on the following conditions: evaporator 12.0/7.0°C; ambient 35.0°C, unit at full load operation;

(2) GPSS: Galvanized and Painted Steel Sheet; (3) PHE: Plate Heat Exchanger --- S&T: Single Pass Shell & Tube

(4) CC: Closed Cell; (5) HFP: High efficiency fin and tube type with integral subcooler

(6) DPT: Direct Propeller Type; (7) DOL: Direct On Line - VFD: Inverter - BRS: Brushless

(8) The values are according to ISO 3744 and are referred to: evaporator 12/7°C, ambient 35°C, full load operation.

EWAD C-XR

MODEL		H14	H15	C16	C17	C18	C19	C20	C21
Capacity - Cooling (1)	kW	1367	1468	1550	1639	1722	1813	1854	1902
Capacity control - Type	---	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless
Capacity control - Minimum capacity	%	12.5	12.5	7.0	7.0	7.0	7.0	7.0	7.0
Unit power input - Cooling (1)	kW	454	491	512	541	566	596	624	657
EER (1)	---	3.01	2.99	3.03	3.03	3.04	3.04	2.97	2.89
ESEER	---	4.36	4.40	4.26	4.20	4.21	4.20	4.18	4.09
IPLV	---	4.68	4.77	4.60	4.59	4.59	4.57	4.58	4.51
CASING									
Colour	---	IW	IW	IW	IW	IW	IW	IW	IW
Material (2)	---	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS
DIMENSIONS									
Height	mm	2540	2540	2540	2540	2540	2540	2540	2540
Width	mm	2285	2285	2285	2285	2285	2285	2285	2285
Length	mm	9785	9785	11985	12885	13785	14685	14685	14685
WEIGHT									
Unit Weight	kg	9190	9190	12010	12350	12700	13040	13040	13040
Operating Weight	kg	10180	10180	12870	13200	13580	13910	13910	13910
WATER HEAT EXCHANGER									
Type (3)	---	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T
Water Volume	l	979	979	850	850	871	850	850	850
Nominal water flow rate - Cooling	l/s	65.2	70.0	74.0	78.2	82.2	86.5	88.5	90.7
Nominal Water pressure drop - Cooling	kPa	73	79	59	65	65	71	37	39
Insulation material (4)		CC	CC	CC	CC	CC	CC	CC	CC
AIR HEAT EXCHANGER									
Type (5)	---	HFP	HFP	HFP	HFP	HFP	HFP	HFP	HFP
FAN									
Type (6)	---	DPT	DPT	DPT	DPT	DPT	DPT	DPT	DPT
Drive (7)	---	DOL	DOL	DOL	DOL	DOL	DOL	DOL	DOL
Diameter	mm	800	800	800	800	800	800	800	800
Nominal air flow	l/s	82014	82014	98417	106619	114820	123021	123021	123021
Quantity	No.	20	20	24	26	28	30	30	30
Speed	rpm	700	700	700	700	700	700	700	700
Motor input	kW	15.7	15.7	18.8	20.4	22.0	23.5	23.5	23.5
COMPRESSOR									
Type	---	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw
Oil charge	l	50	50	75	75	75	75	75	75
Quantity	No.	2	2	3	3	3	3	3	3
SOUND LEVEL									
Sound Power - Cooling	dB(A)	95	95	95	96	96	96	96	97
Sound Pressure - Cooling (8)	dB(A)	73	73	73	73	73	73	73	74
REFRIGERANT CIRCUIT									
Refrigerant type	---	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a
Refrigerant charge	kg	248	248	297	312	328	343	343	343
N. of circuits	No.	2	2	3	3	3	3	3	3
PIPING CONNECTIONS									
Evaporator water inlet/outlet		273 mm	273 mm	273 mm	273 mm	273 mm	273 mm	273 mm	273 mm

Fluid: Water

(1) Cooling capacity, unit power input in cooling and EER are based on the following conditions: evaporator 12.0/7.0°C; ambient 35.0°C, unit at full load operation;

(2) GPSS: Galvanized and Painted Steel Sheet; (3) PHE: Plate Heat Exchanger --- S&T: Single Pass Shell & Tube

(4) CC: Closed Cell; (5) HFP: High efficiency fin and tube type with integral subcooler

(6) DPT: Direct Propeller Type; (7) DOL: Direct On Line - VFD: Inverter - BRS: Brushless

(8) The values are according to ISO 3744 and are referred to: evaporator 12/7°C, ambient 35°C, full load operation.

EWAD C-XR

MODEL		C22							
Capacity - Cooling (1)	kW	1952							
Capacity control - Type	---	Stepless							
Capacity control - Minimum capacity	%	7.0							
Unit power input - Cooling (1)	kW	691							
EER (1)	---	2.83							
ESEER	---	4.06							
IPLV	---	4.49							
CASING									
Colour	---	IW							
Material (2)	---	GPSS							
DIMENSIONS									
Height	mm	2540							
Width	mm	2285							
Length	mm	14685							
WEIGHT									
Unit Weight	kg	13040							
Operating Weight	kg	13910							
WATER HEAT EXCHANGER									
Type (3)	---	S&T							
Water Volume	l	850							
Nominal water flow rate - Cooling	l/s	93.1							
Nominal Water pressure drop - Cooling	kPa	41							
Insulation material (4)		CC							
AIR HEAT EXCHANGER									
Type (5)	---	HFP							
FAN									
Type (6)	---	DPT							
Drive (7)	---	DOL							
Diameter	mm	800							
Nominal air flow	l/s	123021							
Quantity	No.	30							
Speed	rpm	700							
Motor input	kW	23.5							
COMPRESSOR									
Type	---	Asymm Single Screw							
Oil charge	l	75							
Quantity	No.	3							
SOUND LEVEL									
Sound Power - Cooling	dB(A)	97							
Sound Pressure - Cooling (8)	dB(A)	74							
REFRIGERANT CIRCUIT									
Refrigerant type	---	R134a							
Refrigerant charge	kg	343							
N. of circuits	No.	3							
PIPING CONNECTIONS									
Evaporator water inlet/outlet		273 mm							

Fluid: Water

(1) Cooling capacity, unit power input in cooling and EER are based on the following conditions: evaporator 12.0/7.0°C; ambient 35.0°C, unit at full load operation;

(2) GPSS: Galvanized and Painted Steel Sheet; (3) PHE: Plate Heat Exchanger --- S&T: Single Pass Shell & Tube

(4) CC: Closed Cell; (5) HFP: High efficiency fin and tube type with integral subcooler

(6) DPT: Direct Propeller Type; (7) DOL: Direct On Line - VFD: Inverter - BRS: Brushless

(8) The values are according to ISO 3744 and are referred to: evaporator 12/7°C, ambient 35°C, full load operation.

EWAD C-PS

MODEL		820	890	980	C11	C12	C13	C14	C15
Capacity - Cooling (1)	kW	821	890	975	1074	1158	1279	1390	1474
Capacity control - Type	---	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless
Capacity control - Minimum capacity	%	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Unit power input - Cooling (1)	kW	226	249	274	302	330	363	396	424
EER (1)	---	3.64	3.58	3.56	3.56	3.51	3.52	3.51	3.48
ESEER	---	4.44	4.50	4.41	4.53	4.39	4.44	4.31	4.33
IPLV	---	4.78	4.67	4.71	4.69	4.73	4.65	4.73	4.73
CASING									
Colour	---	IW	IW	IW	IW	IW	IW	IW	IW
Material (2)	---	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS
DIMENSIONS									
Height	mm	2540	2540	2540	2540	2540	2540	2540	2540
Width	mm	2285	2285	2285	2285	2285	2285	2285	2285
Length	mm	8885	8885	8885	9785	9785	11085	11985	11985
WEIGHT									
Unit Weight	kg	7530	7530	7660	8290	8550	9390	9730	9730
Operating Weight	kg	8130	8130	8700	9330	9590	10380	10720	10720
WATER HEAT EXCHANGER									
Type (3)	---	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T
Water Volume	l	599	599	1043	1027	1027	995	979	979
Nominal water flow rate - Cooling	l/s	39.2	42.5	46.5	51.2	55.2	61.0	66.3	70.3
Nominal Water pressure drop - Cooling	kPa	58	67	31	61	70	60	70	81
Insulation material (4)		CC	CC	CC	CC	CC	CC	CC	CC
AIR HEAT EXCHANGER									
Type (5)	---	HFP	HFP	HFP	HFP	HFP	HFP	HFP	HFP
FAN									
Type (6)	---	DPT	DPT	DPT	DPT	DPT	DPT	DPT	DPT
Drive (7)	---	DOL	DOL	DOL	DOL	DOL	DOL	DOL	DOL
Diameter	mm	800	800	800	800	800	800	800	800
Nominal air flow	l/s	96196	96196	96196	106885	106885	117573	128262	128262
Quantity	No.	18	18	18	20	20	22	24	24
Speed	rpm	900	900	900	900	900	900	900	900
Motor input	kW	31.5	31.5	31.5	35.0	35.0	38.5	42.0	42.0
COMPRESSOR									
Type	---	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw
Oil charge	l	38	38	38	44	50	50	50	50
Quantity	No.	2	2	2	2	2	2	2	2
SOUND LEVEL									
Sound Power - Cooling	dB(A)	101	101	101	102	102	103	103	103
Sound Pressure - Cooling (8)	dB(A)	80	80	80	80	81	80	81	81
REFRIGERANT CIRCUIT									
Refrigerant type	---	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a
Refrigerant charge	kg	204	202	204	220	220	252	254	254
N. of circuits	No.	2	2	2	2	2	2	2	2
PIPING CONNECTIONS									
Evaporator water inlet/outlet		219.1 mm	219.1 mm	273 mm	273 mm	273 mm	273 mm	273 mm	273 mm

Fluid: Water

(1) Cooling capacity, unit power input in cooling and EER are based on the following conditions: evaporator 12.0/7.0°C; ambient 35.0°C, unit at full load operation;

(2) GPSS: Galvanized and Painted Steel Sheet; (3) PHE: Plate Heat Exchanger --- S&T: Single Pass Shell & Tube

(4) CC: Closed Cell; (5) HFP: High efficiency fin and tube type with integral subcooler

(6) DPT: Direct Propeller Type; (7) DOL: Direct On Line - VFD: Inverter - BRS: Brushless

(8) The values are according to ISO 3744 and are referred to: evaporator 12/7°C, ambient 35°C, full load operation.

EWAD C-PS

MODEL		C16							
Capacity - Cooling (1)	kW	1562							
Capacity control - Type	---	Stepless							
Capacity control - Minimum capacity	%	12.5							
Unit power input - Cooling (1)	kW	453							
EER (1)	---	3.45							
ESEER	---	4.30							
IPLV	---	4.71							
CASING									
Colour	---	IW							
Material (2)	---	GPSS							
DIMENSIONS									
Height	mm	2540							
Width	mm	2285							
Length	mm	11985							
WEIGHT									
Unit Weight	kg	9730							
Operating Weight	kg	10720							
WATER HEAT EXCHANGER									
Type (3)	---	S&T							
Water Volume	l	979							
Nominal water flow rate - Cooling	l/s	74.5							
Nominal Water pressure drop - Cooling	kPa	88							
Insulation material (4)		CC							
AIR HEAT EXCHANGER									
Type (5)	---	HFP							
FAN									
Type (6)	---	DPT							
Drive (7)	---	DOL							
Diameter	mm	800							
Nominal air flow	l/s	128262							
Quantity	No.	24							
Speed	rpm	900							
Motor input	kW	42.0							
COMPRESSOR									
Type	---	Asymm Single Screw							
Oil charge	l	50							
Quantity	No.	2							
SOUND LEVEL									
Sound Power - Cooling	dB(A)	104							
Sound Pressure - Cooling (8)	dB(A)	81							
REFRIGERANT CIRCUIT									
Refrigerant type	---	R134a							
Refrigerant charge	kg	254							
N. of circuits	No.	2							
PIPING CONNECTIONS									
Evaporator water inlet/outlet		273 mm							

Fluid: Water

(1) Cooling capacity, unit power input in cooling and EER are based on the following conditions: evaporator 12.0/7.0°C; ambient 35.0°C, unit at full load operation;

(2) GPSS: Galvanized and Painted Steel Sheet; (3) PHE: Plate Heat Exchanger --- S&T: Single Pass Shell & Tube

(4) CC: Closed Cell; (5) HFP: High efficiency fin and tube type with integral subcooler

(6) DPT: Direct Propeller Type; (7) DOL: Direct On Line - VFD: Inverter - BRS: Brushless

(8) The values are according to ISO 3744 and are referred to: evaporator 12/7°C, ambient 35°C, full load operation.

EWAD C-PL

MODEL		820	890	980	C11	C12	C13	C14	C15
Capacity - Cooling (1)	kW	821	890	975	1074	1158	1279	1390	1474
Capacity control - Type	---	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless
Capacity control - Minimum capacity	%	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Unit power input - Cooling (1)	kW	226	249	274	302	330	363	396	424
EER (1)	---	3.64	3.58	3.56	3.56	3.51	3.52	3.51	3.48
ESEER	---	4.44	4.50	4.41	4.53	4.39	4.44	4.31	4.33
IPLV	---	4.78	4.67	4.71	4.69	4.73	4.65	4.73	4.73
CASING									
Colour	---	IW	IW	IW	IW	IW	IW	IW	IW
Material (2)	---	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS
DIMENSIONS									
Height	mm	2540	2540	2540	2540	2540	2540	2540	2540
Width	mm	2285	2285	2285	2285	2285	2285	2285	2285
Length	mm	8885	8885	8885	9785	9785	11085	11985	11985
WEIGHT									
Unit Weight	kg	7820	7820	7950	8580	8840	10380	10720	10720
Operating Weight	kg	8420	8420	8990	9620	9880	10670	11010	11010
WATER HEAT EXCHANGER									
Type (3)	---	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T
Water Volume	l	599	599	1043	1027	1027	995	979	979
Nominal water flow rate - Cooling	l/s	39.2	42.5	46.5	51.2	55.2	61.0	66.3	70.3
Nominal Water pressure drop - Cooling	kPa	58	67	31	61	70	60	70	81
Insulation material (4)		CC	CC	CC	CC	CC	CC	CC	CC
AIR HEAT EXCHANGER									
Type (5)	---	HFP	HFP	HFP	HFP	HFP	HFP	HFP	HFP
FAN									
Type (6)	---	DPT	DPT	DPT	DPT	DPT	DPT	DPT	DPT
Drive (7)	---	DOL	DOL	DOL	DOL	DOL	DOL	DOL	DOL
Diameter	mm	800	800	800	800	800	800	800	800
Nominal air flow	l/s	96196	96196	96196	106885	106885	117573	128262	128262
Quantity	No.	18	18	18	20	20	22	24	24
Speed	rpm	900	900	900	900	900	900	900	900
Motor input	kW	31.5	31.5	31.5	35.0	35.0	38.5	42.0	42.0
COMPRESSOR									
Type	---	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw
Oil charge	l	38	38	38	44	50	50	50	50
Quantity	No.	2	2	2	2	2	2	2	2
SOUND LEVEL									
Sound Power - Cooling	dB(A)	98	98	98	99	100	99	100	100
Sound Pressure - Cooling (8)	dB(A)	77	77	77	77	77	77	77	78
REFRIGERANT CIRCUIT									
Refrigerant type	---	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a
Refrigerant charge	kg	204	202	204	220	220	252	254	254
N. of circuits	No.	2	2	2	2	2	2	2	2
PIPING CONNECTIONS									
Evaporator water inlet/outlet		219.1 mm	219.1 mm	273 mm	273 mm	273 mm	273 mm	273 mm	273 mm

Fluid: Water

(1) Cooling capacity, unit power input in cooling and EER are based on the following conditions: evaporator 12.0/7.0°C; ambient 35.0°C, unit at full load operation;

(2) GPSS: Galvanized and Painted Steel Sheet; (3) PHE: Plate Heat Exchanger --- S&T: Single Pass Shell & Tube

(4) CC: Closed Cell; (5) HFP: High efficiency fin and tube type with integral subcooler

(6) DPT: Direct Propeller Type; (7) DOL: Direct On Line - VFD: Inverter - BRS: Brushless

(8) The values are according to ISO 3744 and are referred to: evaporator 12/7°C, ambient 35°C, full load operation.

EWAD C-PL

MODEL		C16							
Capacity - Cooling (1)	kW	1562							
Capacity control - Type	---	Stepless							
Capacity control - Minimum capacity	%	12.5							
Unit power input - Cooling (1)	kW	453							
EER (1)	---	3.45							
ESEER	---	4.30							
IPLV	---	4.71							
CASING									
Colour	---	IW							
Material (2)	---	GPSS							
DIMENSIONS									
Height	mm	2540							
Width	mm	2285							
Length	mm	11985							
WEIGHT									
Unit Weight	kg	10720							
Operating Weight	kg	11010							
WATER HEAT EXCHANGER									
Type (3)	---	S&T							
Water Volume	l	979							
Nominal water flow rate - Cooling	l/s	74.5							
Nominal Water pressure drop - Cooling	kPa	88							
Insulation material (4)		CC							
AIR HEAT EXCHANGER									
Type (5)	---	HFP							
FAN									
Type (6)	---	DPT							
Drive (7)	---	DOL							
Diameter	mm	800							
Nominal air flow	l/s	128262							
Quantity	No.	24							
Speed	rpm	900							
Motor input	kW	42.0							
COMPRESSOR									
Type	---	Asymm Single Screw							
Oil charge	l	50							
Quantity	No.	2							
SOUND LEVEL									
Sound Power - Cooling	dB(A)	100							
Sound Pressure - Cooling (8)	dB(A)	78							
REFRIGERANT CIRCUIT									
Refrigerant type	---	R134a							
Refrigerant charge	kg	254							
N. of circuits	No.	2							
PIPING CONNECTIONS									
Evaporator water inlet/outlet		273 mm							

Fluid: Water

(1) Cooling capacity, unit power input in cooling and EER are based on the following conditions: evaporator 12.0/7.0°C; ambient 35.0°C, unit at full load operation;

(2) GPSS: Galvanized and Painted Steel Sheet; (3) PHE: Plate Heat Exchanger --- S&T: Single Pass Shell & Tube

(4) CC: Closed Cell; (5) HFP: High efficiency fin and tube type with integral subcooler

(6) DPT: Direct Propeller Type; (7) DOL: Direct On Line - VFD: Inverter - BRS: Brushless

(8) The values are according to ISO 3744 and are referred to: evaporator 12/7°C, ambient 35°C, full load operation.

EWAD C-PR

MODEL		810	880	960	C10	C11	C13	C14	C15
Capacity - Cooling (1)	kW	809	875	956	1053	1132	1251	1359	1439
Capacity control - Type	---	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless
Capacity control - Minimum capacity	%	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Unit power input - Cooling (1)	kW	219	244	272	299	330	364	396	425
EER (1)	---	3.70	3.58	3.51	3.52	3.43	3.44	3.43	3.39
ESEER	---	4.63	4.59	4.54	4.59	4.50	4.53	4.51	4.49
IPLV	---	5.04	4.89	4.89	4.86	4.82	4.81	4.82	4.83
CASING									
Colour	---	IW	IW	IW	IW	IW	IW	IW	IW
Material (2)	---	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS	GPSS
DIMENSIONS									
Height	mm	2540	2540	2540	2540	2540	2540	2540	2540
Width	mm	2285	2285	2285	2285	2285	2285	2285	2285
Length	mm	8885	8885	8885	9785	9785	11085	11985	11985
WEIGHT									
Unit Weight	kg	7820	7820	7950	8580	8840	10380	10720	10720
Operating Weight	kg	8420	8420	8990	9620	9880	10670	11010	11010
WATER HEAT EXCHANGER									
Type (3)	---	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T
Water Volume	l	599	599	1043	1027	1027	995	979	979
Nominal water flow rate - Cooling	l/s	38.6	41.7	45.6	50.2	54.0	59.7	64.8	68.7
Nominal Water pressure drop - Cooling	kPa	56	65	30	59	67	58	67	77
Insulation material (4)		CC	CC	CC	CC	CC	CC	CC	CC
AIR HEAT EXCHANGER									
Type (5)	---	HFP	HFP	HFP	HFP	HFP	HFP	HFP	HFP
FAN									
Type (6)	---	DPT	DPT	DPT	DPT	DPT	DPT	DPT	DPT
Drive (7)	---	DOL	DOL	DOL	DOL	DOL	DOL	DOL	DOL
Diameter	mm	800	800	800	800	800	800	800	800
Nominal air flow	l/s	73813	73813	73813	82014	82014	90216	98417	98417
Quantity	No.	18	18	18	20	20	22	24	24
Speed	rpm	700	700	700	700	700	700	700	700
Motor input	kW	14.1	14.1	14.1	15.7	15.7	17.3	18.8	18.8
COMPRESSOR									
Type	---	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw
Oil charge	l	38	38	38	44	50	50	50	50
Quantity	No.	2	2	2	2	2	2	2	2
SOUND LEVEL									
Sound Power - Cooling	dB(A)	93	93	93	93	94	94	94	95
Sound Pressure - Cooling (8)	dB(A)	71	71	71	72	72	72	72	72
REFRIGERANT CIRCUIT									
Refrigerant type	---	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a
Refrigerant charge	kg	204	202	204	220	220	252	254	254
N. of circuits	No.	2	2	2	2	2	2	2	2
PIPING CONNECTIONS									
Evaporator water inlet/outlet		219.1 mm	219.1 mm	273 mm	273 mm	273 mm	273 mm	273 mm	273 mm

Fluid: Water

(1) Cooling capacity, unit power input in cooling and EER are based on the following conditions: evaporator 12.0/7.0°C; ambient 35.0°C, unit at full load operation;

(2) GPSS: Galvanized and Painted Steel Sheet; (3) PHE: Plate Heat Exchanger --- S&T: Single Pass Shell & Tube

(4) CC: Closed Cell; (5) HFP: High efficiency fin and tube type with integral subcooler

(6) DPT: Direct Propeller Type; (7) DOL: Direct On Line - VFD: Inverter - BRS: Brushless

(8) The values are according to ISO 3744 and are referred to: evaporator 12/7°C, ambient 35°C, full load operation.

EWAD C-PR

MODEL		C16							
Capacity - Cooling (1)	kW	1521							
Capacity control - Type	---	Stepless							
Capacity control - Minimum capacity	%	12.5							
Unit power input - Cooling (1)	kW	457							
EER (1)	---	3.33							
ESEER	---	4.44							
IPLV	---	4.79							
CASING									
Colour	---	IW							
Material (2)	---	GPSS							
DIMENSIONS									
Height	mm	2540							
Width	mm	2285							
Length	mm	11985							
WEIGHT									
Unit Weight	kg	10720							
Operating Weight	kg	11010							
WATER HEAT EXCHANGER									
Type (3)	---	S&T							
Water Volume	l	979							
Nominal water flow rate - Cooling	l/s	72.6							
Nominal Water pressure drop - Cooling	kPa	84							
Insulation material (4)		CC							
AIR HEAT EXCHANGER									
Type (5)	---	HFP							
FAN									
Type (6)	---	DPT							
Drive (7)	---	DOL							
Diameter	mm	800							
Nominal air flow	l/s	98417							
Quantity	No.	24							
Speed	rpm	700							
Motor input	kW	18.8							
COMPRESSOR									
Type	---	Asymm Single Screw							
Oil charge	l	50							
Quantity	No.	2							
SOUND LEVEL									
Sound Power - Cooling	dB(A)	95							
Sound Pressure - Cooling (8)	dB(A)	73							
REFRIGERANT CIRCUIT									
Refrigerant type	---	R134a							
Refrigerant charge	kg	254							
N. of circuits	No.	2							
PIPING CONNECTIONS									
Evaporator water inlet/outlet		273 mm							

Fluid: Water

(1) Cooling capacity, unit power input in cooling and EER are based on the following conditions: evaporator 12.0/7.0°C; ambient 35.0°C, unit at full load operation;

(2) GPSS: Galvanized and Painted Steel Sheet; (3) PHE: Plate Heat Exchanger --- S&T: Single Pass Shell & Tube

(4) CC: Closed Cell; (5) HFP: High efficiency fin and tube type with integral subcooler

(6) DPT: Direct Propeller Type; (7) DOL: Direct On Line - VFD: Inverter - BRS: Brushless

(8) The values are according to ISO 3744 and are referred to: evaporator 12/7°C, ambient 35°C, full load operation.

EWAD C-SS

MODEL		650	740	830	910	970	C11	C12	C13
POWER SUPPLY									
Phases	Nr	3	3	3	3	3	3	3	3
Frequency	Hz	50	50	50	50	50	50	50	50
Voltage	V	400	400	400	400	400	400	400	400
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%
UNIT									
Maximum starting current	A	604	649	649	915	962	1017	1021	1068
Nominal running current cooling	A	366	432	492	524	577	624	667	726
Mximum running current	A	476	545	589	656	715	787	859	921
Maximum current for wires sizing	A	520	596	644	717	781	860	939	1005
FANS									
Nominal running current cooling	A	40	40	40	48	48	56	64	72
COMPRESSORS									
Phases	Nr	3	3	3	3	3	3	3	3
Voltage	V	400	400	400	400	400	400	400	400
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%
Maximum running current	A	218	231	274	274	333	333	398	398
		218	274	274	333	333	398	398	451
Starting method	---	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ

EWAD C-SS

MODEL		H14	C15	C16	C17	C18	C19	C20	
POWER SUPPLY									
Phases	Nr	3	3	3	3	3	3	3	
Frequency	Hz	50	50	50	50	50	50	50	
Voltage	V	400	400	400	400	400	400	400	
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	
UNIT									
Maximum starting current	A	1081	1312	1363	1367	1410	1456	1470	
Nominal running current cooling	A	773	909	959	1023	1092	1116	1164	
Mximum running current	A	974	1144	1217	1281	1334	1395	1449	
Maximum current for wires sizing	A	1064	1251	1330	1400	1459	1525	1584	
FANS									
Nominal running current cooling	A	72	80	88	88	88	96	96	
COMPRESSORS									
Phases	Nr	3	3	3	3	3	3	3	
Voltage	V	400	400	400	400	400	400	400	
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	
Maximum running current	A	451	398	398	398	398	451	451	
		451	333	398	398	398	451	451	
			333	333	398	451	398	451	
Starting method	---	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	

Fluid: Water

Allowed voltage tolerance $\pm 10\%$. Voltage unbalance between phases must be within $\pm 3\%$.

Maximum starting current: starting current of biggest compressor + current of the compressor at 75% maximum load + fans current for the circuit at 75%.

Nominal current in cooling mode is referred to the following conditions: evaporator 12/7°C; ambient 35°C; compressors + fans current.

Maximum running current is based on max compressor absorbed current in its envelope and max fans absorbed current

Maximum unit current for wires sizing is based on minimum allowed voltage

Maximum current for wires sizing: (compressors full load ampere + fans current) x 1,1.

EWAD C-SL

MODEL		650	740	830	910	970	C11	C12	C13
POWER SUPPLY									
Phases	Nr	3	3	3	3	3	3	3	3
Frequency	Hz	50	50	50	50	50	50	50	50
Voltage	V	400	400	400	400	400	400	400	400
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%
UNIT									
Maximum starting current	A	604	649	649	915	962	1017	1021	1068
Nominal running current cooling	A	366	432	492	524	577	624	667	726
Mximum running current	A	476	545	589	656	715	787	859	921
Maximum current for wires sizing	A	520	596	644	717	781	860	939	1005
FANS									
Nominal running current cooling	A	40	40	40	48	48	56	64	72
COMPRESSORS									
Phases	Nr	3	3	3	3	3	3	3	3
Voltage	V	400	400	400	400	400	400	400	400
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%
Maximum running current	A	218	231	274	274	333	333	398	398
		218	274	274	333	333	398	398	451
Starting method	---	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ

EWAD C-SL

MODEL		H14	C15	C16	C17	C18	C19	C20	
POWER SUPPLY									
Phases	Nr	3	3	3	3	3	3	3	
Frequency	Hz	50	50	50	50	50	50	50	
Voltage	V	400	400	400	400	400	400	400	
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	
UNIT									
Maximum starting current	A	1081	1312	1363	1367	1410	1456	1470	
Nominal running current cooling	A	773	909	959	1023	1092	1116	1164	
Mximum running current	A	974	1144	1217	1281	1334	1395	1449	
Maximum current for wires sizing	A	1064	1251	1330	1400	1459	1525	1584	
FANS									
Nominal running current cooling	A	72	80	88	88	88	96	96	
COMPRESSORS									
Phases	Nr	3	3	3	3	3	3	3	
Voltage	V	400	400	400	400	400	400	400	
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	
Maximum running current	A	451	398	398	398	398	451	451	
		451	333	398	398	398	451	451	
			333	333	398	451	398	451	
Starting method	---	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	

Fluid: Water

Allowed voltage tolerance ± 10%. Voltage unbalance between phases must be within ± 3%.

Maximum starting current: starting current of biggest compressor + current of the compressor at 75% maximum load + fans current for the circuit at 75%.

Nominal current in cooling mode is referred to the following conditions: evaporator 12/7°C; ambient 35°C; compressors + fans current.

Maximum running current is based on max compressor absorbed current in its envelope and max fans absorbed current

Maximum unit current for wires sizing is based on minimum allowed voltage

Maximum current for wires sizing: (compressors full load ampere + fans current) x 1,1.

EWAD C-SR

MODEL		620	720	790	880	920	C10	C11	C12
POWER SUPPLY									
Phases	Nr	3	3	3	3	3	3	3	3
Frequency	Hz	50	50	50	50	50	50	50	50
Voltage	V	400	400	400	400	400	400	400	400
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%
UNIT									
Maximum starting current	A	597	642	642	906	953	1007	1010	1055
Nominal running current cooling	A	371	450	518	548	609	654	694	755
Mximum running current	A	462	531	575	639	698	767	837	895
Maximum current for wires sizing	A	506	582	630	700	765	841	916	980
FANS									
Nominal running current cooling	A	26	26	26	31	31	36	42	47
COMPRESSORS									
Phases	Nr	3	3	3	3	3	3	3	3
Voltage	V	400	400	400	400	400	400	400	400
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%
Maximum running current	A	218	231	274	274	333	333	398	398
		218	274	274	333	333	398	398	451
Starting method	---	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ

EWAD C-SR

MODEL		H14	C13	C14	C15	C16	C17	C18	C19
POWER SUPPLY									
Phases	Nr	3	3	3	3	3	3	3	3
Frequency	Hz	50	50	50	50	50	50	50	50
Voltage	V	400	400	400	400	400	400	400	400
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%
UNIT									
Maximum starting current	A	1068	1241	1292	1344	1346	1389	1434	1447
Nominal running current cooling	A	811	857	954	1002	1075	1158	1179	1238
Mximum running current	A	949	1052	1116	1186	1250	1303	1362	1415
Maximum current for wires sizing	A	1039	1152	1223	1299	1369	1428	1492	1550
FANS									
Nominal running current cooling	A	47	52	52	57	57	57	62	62
COMPRESSORS									
Phases	Nr	3	3	3	3	3	3	3	3
Voltage	V	400	400	400	400	400	400	400	400
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%
Maximum running current	A	451	333	398	398	398	398	451	451
		451	333	333	398	398	398	451	451
			333	333	333	398	451	398	451
Starting method	---	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ

Fluid: Water

Allowed voltage tolerance $\pm 10\%$. Voltage unbalance between phases must be within $\pm 3\%$.

Maximum starting current: starting current of biggest compressor + current of the compressor at 75% maximum load + fans current for the circuit at 75%.

Nominal current in cooling mode is referred to the following conditions: evaporator 12/7°C; ambient 35°C; compressors + fans current.

Maximum running current is based on max compressor absorbed current in its envelope and max fans absorbed current

Maximum unit current for wires sizing is based on minimum allowed voltage

Maximum current for wires sizing: (compressors full load ampere + fans current) x 1,1.

EWAD C-XS

MODEL		760	830	890	990	C10	C11	C12	C13
POWER SUPPLY									
Phases	Nr	3	3	3	3	3	3	3	3
Frequency	Hz	50	50	50	50	50	50	50	50
Voltage	V	400	400	400	400	400	400	400	400
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%
UNIT									
Maximum starting current	A	618	657	657	923	970	1029	1029	1029
Nominal running current cooling	A	387	423	463	511	559	607	667	686
Mximum running current	A	510	561	605	672	731	811	875	875
Maximum current for wires sizing	A	556	612	660	733	797	884	955	955
FANS									
Nominal running current cooling	A	48	56	56	64	64	80	80	80
COMPRESSORS									
Phases	Nr	3	3	3	3	3	3	3	3
Voltage	V	400	400	400	400	400	400	400	400
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%
Maximum running current	A	231	231	274	274	333	333	398	398
		231	274	274	333	333	398	398	398
Starting method	---	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ

EWAD C-XS

MODEL		H14	H15	C16	C17	C18	C19	C20	C21
POWER SUPPLY									
Phases	Nr	3	3	3	3	3	3	3	3
Frequency	Hz	50	50	50	50	50	50	50	50
Voltage	V	400	400	400	400	400	400	400	400
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%
UNIT									
Maximum starting current	A	1072	1085	1268	1328	1387	1387	1430	1472
Nominal running current cooling	A	731	778	835	885	934	984	1018	1059
Mximum running current	A	929	982	1096	1168	1241	1313	1366	1419
Maximum current for wires sizing	A	1013	1072	1196	1275	1354	1432	1491	1549
FANS									
Nominal running current cooling	A	80	80	96	104	112	120	120	120
COMPRESSORS									
Phases	Nr	3	3	3	3	3	3	3	3
Voltage	V	400	400	400	400	400	400	400	400
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%
Maximum running current	A	398	451	333	333	398	398	398	451
		451	451	333	333	398	398	398	451
				333	398	333	398	451	398
Starting method	---	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ

EWAD C-XS

MODEL		C22							
POWER SUPPLY									
Phases	Nr	3							
Frequency	Hz	50							
Voltage	V	400							
Voltage tolerance Minimum	%	-10%							
Voltage tolerance Maximum	%	+10%							
UNIT									
Maximum starting current	A	1486							
Nominal running current cooling	A	1100							
Mximum running current	A	1473							
Maximum current for wires sizing	A	1608							
FANS									
Nominal running current cooling	A	120							
COMPRESSORS									
Phases	Nr	3							
Voltage	V	400							
Voltage tolerance Minimum	%	-10%							
Voltage tolerance Maximum	%	+10%							
Maximum running current	A	451							
		451							
		451							
Starting method	---	Y-Δ							

Fluid: Water

Allowed voltage tolerance $\pm 10\%$. Voltage unbalance between phases must be within $\pm 3\%$.

Maximum starting current: starting current of biggest compressor + current of the compressor at 75% maximum load + fans current for the circuit at 75%.

Nominal current in cooling mode is referred to the following conditions: evaporator 12/7°C; ambient 35°C; compressors + fans current.

Maximum running current is based on max compressor absorbed current in its envelope and max fans absorbed current

Maximum unit current for wires sizing is based on minimum allowed voltage

Maximum current for wires sizing: (compressors full load ampere + fans current) x 1,1.

EWAD C-XL

MODEL		760	830	890	990	C10	C11	C12	C13
POWER SUPPLY									
Phases	Nr	3	3	3	3	3	3	3	3
Frequency	Hz	50	50	50	50	50	50	50	50
Voltage	V	400	400	400	400	400	400	400	400
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%
UNIT									
Maximum starting current	A	618	657	657	923	970	1029	1029	1029
Nominal running current cooling	A	387	423	463	511	559	607	667	686
Mximum running current	A	510	561	605	672	731	811	875	875
Maximum current for wires sizing	A	556	612	660	733	797	884	955	955
FANS									
Nominal running current cooling	A	48	56	56	64	64	80	80	80
COMPRESSORS									
Phases	Nr	3	3	3	3	3	3	3	3
Voltage	V	400	400	400	400	400	400	400	400
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%
Maximum running current	A	231	231	274	274	333	333	398	398
		231	274	274	333	333	398	398	398
Starting method	---	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ

EWAD C-XL

MODEL		H14	H15	C16	C17	C18	C19	C20	C21
POWER SUPPLY									
Phases	Nr	3	3	3	3	3	3	3	3
Frequency	Hz	50	50	50	50	50	50	50	50
Voltage	V	400	400	400	400	400	400	400	400
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%
UNIT									
Maximum starting current	A	1072	1085	1268	1328	1387	1387	1430	1472
Nominal running current cooling	A	731	778	835	885	934	984	1018	1059
Mximum running current	A	929	982	1096	1168	1241	1313	1366	1419
Maximum current for wires sizing	A	1013	1072	1196	1275	1354	1432	1491	1549
FANS									
Nominal running current cooling	A	80	80	96	104	112	120	120	120
COMPRESSORS									
Phases	Nr	3	3	3	3	3	3	3	3
Voltage	V	400	400	400	400	400	400	400	400
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%
Maximum running current	A	398	451	333	333	398	398	398	451
		451	451	333	333	398	398	398	451
				333	398	333	398	451	398
Starting method	---	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ

EWAD C-XL

MODEL		C22							
POWER SUPPLY									
Phases	Nr	3							
Frequency	Hz	50							
Voltage	V	400							
Voltage tolerance Minimum	%	-10%							
Voltage tolerance Maximum	%	+10%							
UNIT									
Maximum starting current	A	1486							
Nominal running current cooling	A	1100							
Mximum running current	A	1473							
Maximum current for wires sizing	A	1608							
FANS									
Nominal running current cooling	A	120							
COMPRESSORS									
Phases	Nr	3							
Voltage	V	400							
Voltage tolerance Minimum	%	-10%							
Voltage tolerance Maximum	%	+10%							
Maximum running current	A	451							
		451							
		451							
Starting method	---	Y-Δ							

Fluid: Water

Allowed voltage tolerance $\pm 10\%$. Voltage unbalance between phases must be within $\pm 3\%$.

Maximum starting current: starting current of biggest compressor + current of the compressor at 75% maximum load + fans current for the circuit at 75%.

Nominal current in cooling mode is referred to the following conditions: evaporator 12/7°C; ambient 35°C; compressors + fans current.

Maximum running current is based on max compressor absorbed current in its envelope and max fans absorbed current

Maximum unit current for wires sizing is based on minimum allowed voltage

Maximum current for wires sizing: (compressors full load ampere + fans current) $\times 1,1$.

EWAD C-XR

MODEL		740	810	870	970	C10	C11	C12	C13
POWER SUPPLY									
Phases	Nr	3	3	3	3	3	3	3	3
Frequency	Hz	50	50	50	50	50	50	50	50
Voltage	V	400	400	400	400	400	400	400	400
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%
UNIT									
Maximum starting current	A	610	647	647	911	959	1015	1015	1015
Nominal running current cooling	A	392	426	470	518	572	613	679	699
Mximum running current	A	493	542	585	649	708	783	847	847
Maximum current for wires sizing	A	540	592	640	710	775	856	927	927
FANS									
Nominal running current cooling	A	31	36	36	42	42	52	52	52
COMPRESSORS									
Phases	Nr	3	3	3	3	3	3	3	3
Voltage	V	400	400	400	400	400	400	400	400
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%
Maximum running current	A	231	231	274	274	333	333	398	398
		231	274	274	333	333	398	398	398
Starting method	---	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ

EWAD C-XR

MODEL		H14	H15	C16	C17	C18	C19	C20	C21
POWER SUPPLY									
Phases	Nr	3	3	3	3	3	3	3	3
Frequency	Hz	50	50	50	50	50	50	50	50
Voltage	V	400	400	400	400	400	400	400	400
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%
UNIT									
Maximum starting current	A	1058	1071	1246	1303	1359	1359	1402	1444
Nominal running current cooling	A	753	807	854	903	951	1000	1040	1087
Mximum running current	A	901	954	1063	1132	1201	1271	1324	1377
Maximum current for wires sizing	A	985	1044	1163	1238	1314	1390	1449	1507
FANS									
Nominal running current cooling	A	52	52	62	68	73	78	78	78
COMPRESSORS									
Phases	Nr	3	3	3	3	3	3	3	3
Voltage	V	400	400	400	400	400	400	400	400
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%
Maximum running current	A	398	451	333	333	398	398	398	451
		451	451	333	333	398	398	398	451
				333	398	333	398	451	398
Starting method	---	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ

EWAD C-XR

MODEL		C22							
POWER SUPPLY									
Phases	Nr	3							
Frequency	Hz	50							
Voltage	V	400							
Voltage tolerance Minimum	%	-10%							
Voltage tolerance Maximum	%	+10%							
UNIT									
Maximum starting current	A	1458							
Nominal running current cooling	A	1136							
Mximum running current	A	1431							
Maximum current for wires sizing	A	1566							
FANS									
Nominal running current cooling	A	78							
COMPRESSORS									
Phases	Nr	3							
Voltage	V	400							
Voltage tolerance Minimum	%	-10%							
Voltage tolerance Maximum	%	+10%							
Maximum running current	A	451							
		451							
		451							
Starting method	---	Y-Δ							

Fluid: Water

Allowed voltage tolerance $\pm 10\%$. Voltage unbalance between phases must be within $\pm 3\%$.

Maximum starting current: starting current of biggest compressor + current of the compressor at 75% maximum load + fans current for the circuit at 75%.

Nominal current in cooling mode is referred to the following conditions: evaporator 12/7°C; ambient 35°C; compressors + fans current.

Maximum running current is based on max compressor absorbed current in its envelope and max fans absorbed current

Maximum unit current for wires sizing is based on minimum allowed voltage

Maximum current for wires sizing: (compressors full load ampere + fans current) $\times 1,1$.

EWAD C-PS

MODEL		820	890	980	C11	C12	C13	C14	C15
POWER SUPPLY									
Phases	Nr	3	3	3	3	3	3	3	3
Frequency	Hz	50	50	50	50	50	50	50	50
Voltage	V	400	400	400	400	400	400	400	400
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%
UNIT									
Maximum starting current	A	630	665	665	702	978	1037	1037	1080
Nominal running current cooling	A	386	424	465	511	555	614	671	711
Mximum running current	A	534	577	621	670	747	819	891	945
Maximum current for wires sizing	A	580	628	676	729	813	892	971	1029
FANS									
Nominal running current cooling	A	72	72	72	80	80	88	96	96
COMPRESSORS									
Phases	Nr	3	3	3	3	3	3	3	3
Voltage	V	400	400	400	400	400	400	400	400
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%
Maximum running current	A	231	231	274	274	333	333	398	398
		231	274	274	316	333	398	398	451
Starting method	---	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ

EWAD C-PS

MODEL		C16							
POWER SUPPLY									
Phases	Nr	3							
Frequency	Hz	50							
Voltage	V	400							
Voltage tolerance Minimum	%	-10%							
Voltage tolerance Maximum	%	+10%							
UNIT									
Maximum starting current	A	1093							
Nominal running current cooling	A	752							
Mximum running current	A	998							
Maximum current for wires sizing	A	1088							
FANS									
Nominal running current cooling	A	96							
COMPRESSORS									
Phases	Nr	3							
Voltage	V	400							
Voltage tolerance Minimum	%	-10%							
Voltage tolerance Maximum	%	+10%							
Maximum running current	A	451							
		451							
Starting method	---	Y-Δ							

Fluid: Water

Allowed voltage tolerance $\pm 10\%$. Voltage unbalance between phases must be within $\pm 3\%$.

Maximum starting current: starting current of biggest compressor + current of the compressor at 75% maximum load + fans current for the circuit at 75%.

Nominal current in cooling mode is referred to the following conditions: evaporator 12/7°C; ambient 35°C; compressors + fans current.

Maximum running current is based on max compressor absorbed current in its envelope and max fans absorbed current

Maximum unit current for wires sizing is based on minimum allowed voltage

Maximum current for wires sizing: (compressors full load ampere + fans current) $\times 1,1$.

EWAD C-PL

MODEL		820	890	980	C11	C12	C13	C14	C15
POWER SUPPLY									
Phases	Nr	3	3	3	3	3	3	3	3
Frequency	Hz	50	50	50	50	50	50	50	50
Voltage	V	400	400	400	400	400	400	400	400
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%
UNIT									
Maximum starting current	A	630	665	665	702	978	1037	1037	1080
Nominal running current cooling	A	386	424	465	511	555	614	671	711
Mximum running current	A	534	577	621	670	747	819	891	945
Maximum current for wires sizing	A	580	628	676	729	813	892	971	1029
FANS									
Nominal running current cooling	A	72	72	72	80	80	88	96	96
COMPRESSORS									
Phases	Nr	3	3	3	3	3	3	3	3
Voltage	V	400	400	400	400	400	400	400	400
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%
Maximum running current	A	231	231	274	274	333	333	398	398
		231	274	274	316	333	398	398	451
Starting method	---	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ

EWAD C-PL

MODEL		C16							
POWER SUPPLY									
Phases	Nr	3							
Frequency	Hz	50							
Voltage	V	400							
Voltage tolerance Minimum	%	-10%							
Voltage tolerance Maximum	%	+10%							
UNIT									
Maximum starting current	A	1093							
Nominal running current cooling	A	752							
Mximum running current	A	998							
Maximum current for wires sizing	A	1088							
FANS									
Nominal running current cooling	A	96							
COMPRESSORS									
Phases	Nr	3							
Voltage	V	400							
Voltage tolerance Minimum	%	-10%							
Voltage tolerance Maximum	%	+10%							
Maximum running current	A	451							
		451							
Starting method	---	Y-Δ							

Fluid: Water

Allowed voltage tolerance $\pm 10\%$. Voltage unbalance between phases must be within $\pm 3\%$.

Maximum starting current: starting current of biggest compressor + current of the compressor at 75% maximum load + fans current for the circuit at 75%.

Nominal current in cooling mode is referred to the following conditions: evaporator 12/7°C; ambient 35°C; compressors + fans current.

Maximum running current is based on max compressor absorbed current in its envelope and max fans absorbed current

Maximum unit current for wires sizing is based on minimum allowed voltage

Maximum current for wires sizing: (compressors full load ampere + fans current) $\times 1,1$.

EWAD C-PR

MODEL		810	880	960	C10	C11	C13	C14	C15
POWER SUPPLY									
Phases	Nr	3	3	3	3	3	3	3	3
Frequency	Hz	50	50	50	50	50	50	50	50
Voltage	V	400	400	400	400	400	400	400	400
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%
UNIT									
Maximum starting current	A	618	653	653	917	964	1020	1020	1063
Nominal running current cooling	A	375	416	461	506	555	614	671	717
Mximum running current	A	509	552	596	660	719	788	858	911
Maximum current for wires sizing	A	555	603	651	721	785	861	937	996
FANS									
Nominal running current cooling	A	47	47	47	52	52	57	62	62
COMPRESSORS									
Phases	Nr	3	3	3	3	3	3	3	3
Voltage	V	400	400	400	400	400	400	400	400
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%
Maximum running current	A	231	231	274	274	333	333	398	398
		231	274	274	333	333	398	398	451
Starting method	---	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ

EWAD C-PR

MODEL		C16							
POWER SUPPLY									
Phases	Nr	3							
Frequency	Hz	50							
Voltage	V	400							
Voltage tolerance Minimum	%	-10%							
Voltage tolerance Maximum	%	+10%							
UNIT									
Maximum starting current	A	1076							
Nominal running current cooling	A	764							
Mximum running current	A	964							
Maximum current for wires sizing	A	1054							
FANS									
Nominal running current cooling	A	62							
COMPRESSORS									
Phases	Nr	3							
Voltage	V	400							
Voltage tolerance Minimum	%	-10%							
Voltage tolerance Maximum	%	+10%							
Maximum running current	A	451							
		451							
Starting method	---	Y-Δ							

Fluid: Water

Allowed voltage tolerance ± 10%. Voltage unbalance between phases must be within ± 3%.

Maximum starting current: starting current of biggest compressor + current of the compressor at 75% maximum load + fans current for the circuit at 75%.

Nominal current in cooling mode is referred to the following conditions: evaporator 12/7°C; ambient 35°C; compressors + fans current.

Maximum running current is based on max compressor absorbed current in its envelope and max fans absorbed current

Maximum unit current for wires sizing is based on minimum allowed voltage

Maximum current for wires sizing: (compressors full load ampere + fans current) x 1,1.

EWAD C-SS

MODEL	Sound pressure level at 1 m from the unit (rif. 2 x 10 ⁻⁵ Pa)									Power
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	dB(A)	dB(A)
650	73.9	76.0	78.8	78.0	73.9	69.4	59.8	50.7	79.0	99.5
740	74.4	76.5	79.3	78.5	74.4	69.9	60.3	51.2	79.5	100.0
830	74.4	76.5	79.3	78.5	74.4	69.9	60.3	51.2	79.5	100.0
910	75.3	77.4	80.2	79.4	75.3	70.8	61.2	52.1	80.4	100.9
970	75.5	77.6	80.4	79.6	75.5	71.0	61.4	52.3	80.6	101.1
C11	75.5	77.6	80.4	79.6	75.5	71.0	61.4	52.3	80.6	101.5
C12	75.5	77.6	80.4	79.6	75.5	71.0	61.4	52.3	80.6	101.7
C13	75.6	77.7	80.5	79.7	75.6	71.1	61.5	52.4	80.7	101.9
H14	75.6	77.7	80.5	79.7	75.6	71.1	61.5	52.4	80.7	101.9
C15	76.0	78.1	80.9	80.1	76.0	71.5	61.9	52.8	81.1	103.0
C16	76.0	78.1	80.9	80.1	76.0	71.5	61.9	52.8	81.1	103.2
C17	76.1	78.2	81.0	80.2	76.1	71.6	62.0	52.9	81.2	103.3
C18	76.4	78.5	81.3	80.5	76.4	71.9	62.3	53.2	81.5	103.5
C19	76.8	78.9	81.7	80.9	76.8	72.3	62.7	53.6	81.9	103.7
C20	76.8	78.9	81.7	80.9	76.8	72.3	62.7	53.6	81.9	103.7

EWAD C-SL

MODEL	Sound pressure level at 1 m from the unit (rif. 2 x 10 ⁻⁵ Pa)									Power
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	dB(A)	dB(A)
650	70.4	72.5	75.3	74.5	70.4	65.9	56.3	47.2	75.5	96.0
740	70.5	72.6	75.4	74.6	70.5	66.0	56.4	47.3	75.6	96.1
830	70.5	72.6	75.4	74.6	70.5	66.0	56.4	47.3	75.6	96.1
910	71.4	73.5	76.3	75.5	71.4	66.9	57.3	48.2	76.5	97.5
970	71.5	73.6	76.4	75.6	71.5	67.0	57.4	48.3	76.6	97.1
C11	71.7	73.8	76.6	75.8	71.7	67.2	57.6	48.5	76.8	97.6
C12	71.8	73.9	76.7	75.9	71.8	67.3	57.7	48.6	76.9	98.1
C13	71.9	74.0	76.8	76.0	71.9	67.4	57.8	48.7	77.0	98.2
H14	71.9	74.0	76.8	76.0	71.9	67.4	57.8	48.7	77.0	98.2
C15	72.1	74.2	77.0	76.2	72.1	67.6	58.0	48.9	77.2	99.1
C16	72.2	74.3	77.1	76.3	72.2	67.7	58.1	49.0	77.3	99.5
C17	72.3	74.4	77.2	76.4	72.3	67.8	58.2	49.1	77.4	99.5
C18	72.8	74.9	77.7	76.9	72.8	68.3	58.7	49.6	77.9	99.9
C19	72.9	75.0	77.8	77.0	72.9	68.4	58.8	49.7	78.0	101.0
C20	72.9	75.0	77.8	77.0	72.9	68.4	58.8	49.7	78.0	101.0

Fluid: Water

Note: The values are according to ISO 3744 and are referred to: evaporator 12/7° C, air ambient 35°C, full load operation

EWAD C-SR

MODEL	Sound pressure level at 1 m from the unit (rif. 2 x 10 ⁻⁵ Pa)									Power
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	dB(A)	dB(A)
620	67.6	60.8	67.9	73.1	60.5	56.9	48.6	36.0	71.0	91.5
720	68.1	61.3	68.4	73.6	61.0	57.4	49.1	36.5	71.5	92.0
790	68.1	61.3	68.4	73.6	61.0	57.4	49.1	36.5	71.5	92.0
880	68.6	61.8	68.9	74.1	61.5	57.9	49.6	37.0	72.0	92.5
920	69.1	62.3	69.4	74.6	62.0	58.4	50.1	37.5	72.5	93.0
C10	69.2	62.4	69.5	74.7	62.1	58.5	50.2	37.6	72.6	93.5
C11	69.3	62.5	69.6	74.8	62.2	58.6	50.3	37.7	72.7	93.8
C12	69.4	62.6	69.7	74.9	62.3	58.7	50.4	37.8	72.9	94.0
H14	69.4	62.6	69.7	74.9	62.3	58.7	50.4	37.8	72.9	94.0
C13	69.5	62.7	69.8	75.0	62.4	58.8	50.5	37.9	72.9	94.8
C14	69.6	62.8	69.9	75.1	62.5	58.9	50.6	38.0	73.0	94.9
C15	69.6	62.8	69.9	75.1	62.5	58.9	50.6	38.0	73.0	95.1
C16	69.7	62.9	70.0	75.2	62.6	59.0	50.7	38.1	73.1	95.2
C17	70.2	63.4	70.5	75.7	63.1	59.5	51.2	38.6	73.6	95.7
C18	70.3	63.5	70.6	75.8	63.2	59.6	51.3	38.7	73.7	95.8
C19	70.3	63.5	70.6	75.8	63.2	59.6	51.3	38.7	73.7	95.8

EWAD C-XS

MODEL	Sound pressure level at 1 m from the unit (rif. 2 x 10 ⁻⁵ Pa)									Power
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	dB(A)	dB(A)
760	74.6	76.7	79.5	78.7	74.6	70.1	60.5	51.4	79.7	100.2
830	74.6	76.7	79.5	78.7	74.6	70.1	60.5	51.4	79.7	100.5
890	74.6	76.7	79.5	78.7	74.6	70.1	60.5	51.4	79.7	100.5
990	75.1	77.2	80.0	79.2	75.1	70.6	61.0	51.9	80.2	101.4
C10	75.6	77.7	80.5	79.7	75.6	71.1	61.5	52.4	80.7	101.9
C11	75.2	77.3	80.1	79.3	75.2	70.7	61.1	52.0	80.3	102.4
C12	75.3	77.4	80.2	79.4	75.3	70.8	61.2	52.1	80.4	102.5
C13	75.3	77.4	80.2	79.4	75.3	70.8	61.2	52.1	80.4	102.5
H14	75.3	77.4	80.2	79.4	75.3	70.8	61.2	52.1	80.4	102.5
H15	75.3	77.4	80.2	79.4	75.3	70.8	61.2	52.1	80.4	102.5
C16	75.8	77.9	80.7	79.9	75.8	71.3	61.7	52.6	80.9	103.2
C17	75.7	77.8	80.6	79.8	75.7	71.2	61.6	52.5	80.8	103.5
C18	75.9	78.0	80.8	80.0	75.9	71.4	61.8	52.7	81.0	103.7
C19	75.9	78.0	80.8	80.0	75.9	71.4	61.8	52.7	81.0	103.9
C20	75.9	78.0	80.8	80.0	75.9	71.4	61.8	52.7	81.0	103.9
C21	75.9	78.0	80.8	80.0	75.9	71.4	61.8	52.7	81.0	103.9
C22	75.9	78.0	80.8	80.0	75.9	71.4	61.8	52.7	81.0	103.9

EWAD C-XL

MODEL	Sound pressure level at 1 m from the unit (rif. 2×10^{-5} Pa)									Power
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	dB(A)	dB(A)
760	71.2	73.3	76.1	75.3	71.2	66.7	57.1	48.0	76.3	96.8
830	71.4	73.5	76.3	75.5	71.4	66.9	57.3	48.2	76.5	97.4
890	71.4	73.5	76.3	75.5	71.4	66.9	57.3	48.2	76.5	97.4
990	71.8	73.9	76.7	75.9	71.8	67.3	57.7	48.6	76.9	98.0
C10	72.0	74.1	76.9	76.1	72.0	67.5	57.9	48.8	77.1	98.2
C11	71.6	73.7	76.5	75.7	71.6	67.1	57.5	48.4	76.7	98.8
C12	71.7	73.8	76.6	75.8	71.7	67.2	57.6	48.5	76.8	98.9
C13	71.7	73.8	76.6	75.8	71.7	67.2	57.6	48.5	76.8	98.9
H14	71.7	73.8	76.6	75.8	71.7	67.2	57.6	48.5	76.8	98.9
H15	71.7	73.8	76.6	75.8	71.7	67.2	57.6	48.5	76.8	98.9
C16	72.2	74.3	77.1	76.3	72.2	67.7	58.1	49.0	77.3	99.6
C17	72.3	74.4	77.2	76.4	72.3	67.8	58.2	49.1	77.4	100.0
C18	72.4	74.5	77.3	76.5	72.4	67.9	58.3	49.2	77.5	100.2
C19	72.4	74.5	77.3	76.5	72.4	67.9	58.3	49.2	77.5	100.4
C20	72.4	74.5	77.3	76.5	72.4	67.9	58.3	49.2	77.5	100.4
C21	72.4	74.5	77.3	76.5	72.4	67.9	58.3	49.2	77.5	100.4
C22	72.4	74.5	77.3	76.5	72.4	67.9	58.3	49.2	77.5	100.4

Fluid: Water

Note: The values are according to ISO 3744 and are referred to: evaporator 12/7° C, air ambient 35°C, full load operation

EWAD C-XR

MODEL	Sound pressure level at 1 m from the unit (rif. 2 x 10 ⁻⁵ Pa)									Power
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	dB(A)	dB(A)
740	68.1	61.3	68.4	73.6	61.0	57.4	49.1	36.5	71.5	92.0
810	68.1	61.3	68.4	73.6	61.0	57.4	49.1	36.5	71.5	92.3
870	68.1	61.3	68.4	73.6	61.0	57.4	49.1	36.5	71.5	92.3
970	68.9	62.1	69.2	74.4	61.8	58.2	49.9	37.3	72.3	93.5
C10	69.1	62.3	69.4	74.6	62.0	58.4	50.1	37.5	72.5	93.7
C11	68.8	62.0	69.1	74.3	61.7	58.1	49.8	37.2	72.2	94.3
C12	68.9	62.1	69.2	74.4	61.8	58.2	49.9	37.3	72.3	94.5
C13	68.9	62.1	69.2	74.4	61.8	58.2	49.9	37.3	72.3	94.5
H14	69.1	62.3	69.4	74.6	62.0	58.4	50.1	37.5	72.5	94.6
H15	69.1	62.3	69.4	74.6	62.0	58.4	50.1	37.5	72.5	94.6
C16	69.5	62.7	69.8	75.0	62.4	58.8	50.5	37.9	72.9	95.3
C17	69.5	62.7	69.8	75.0	62.4	58.8	50.5	37.9	72.9	95.6
C18	69.6	62.8	69.9	75.1	62.5	58.9	50.6	38.0	73.0	95.7
C19	69.6	62.8	69.9	75.1	62.5	58.9	50.6	38.0	73.0	95.9
C20	69.9	63.1	70.2	75.4	62.8	59.2	50.9	38.3	73.3	96.2
C21	70.3	63.5	70.6	75.8	63.2	59.6	51.3	38.7	73.7	96.6
C22	70.3	63.5	70.6	75.8	63.2	59.6	51.3	38.7	73.7	96.6

EWAD C-PS

MODEL	Sound pressure level at 1 m from the unit (rif. 2 x 10 ⁻⁵ Pa)									Power
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	dB(A)	dB(A)
820	74.4	76.5	79.3	78.5	74.4	69.9	60.3	51.2	79.5	101.0
890	74.4	76.5	79.3	78.5	74.4	69.9	60.3	51.2	79.5	101.0
980	74.4	76.5	79.3	78.5	74.4	69.9	60.3	51.2	79.5	101.0
C11	74.9	77.0	79.8	79.0	74.9	70.4	60.8	51.7	80.0	101.8
C12	75.4	77.5	80.3	79.5	75.4	70.9	61.3	52.2	80.5	102.3
C13	75.3	77.4	80.2	79.4	75.3	70.8	61.2	52.1	80.4	102.6
C14	75.4	77.5	80.3	79.5	75.4	70.9	61.3	52.2	80.5	102.9
C15	75.7	77.8	80.6	79.8	75.7	71.2	61.6	52.5	80.8	103.2
C16	76.0	78.1	80.9	80.1	76.0	71.5	61.9	52.8	81.1	103.5

EWAD C-PL

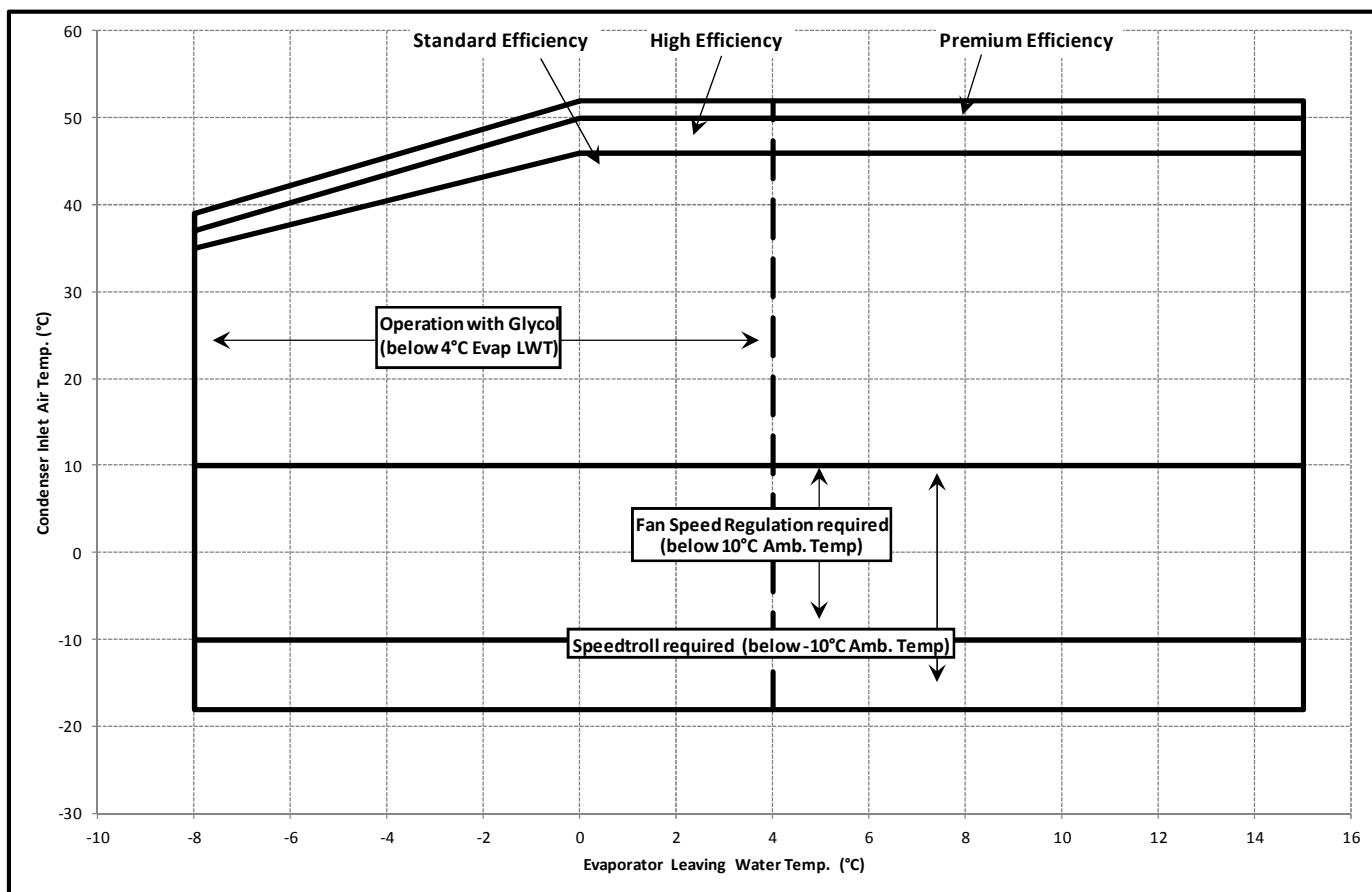
MODEL	Sound pressure level at 1 m from the unit (rif. 2 x 10 ⁻⁵ Pa)									Power
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	dB(A)	dB(A)
820	71.8	73.9	76.7	75.9	71.8	67.3	57.7	48.6	76.9	98.4
890	71.8	73.9	76.7	75.9	71.8	67.3	57.7	48.6	76.9	98.4
980	71.8	73.9	76.7	75.9	71.8	67.3	57.7	48.6	76.9	98.4
C11	71.9	74.0	76.8	76.0	71.9	67.4	57.8	48.7	77.0	98.8
C12	72.0	74.1	76.9	76.1	72.0	67.5	57.9	48.8	77.1	99.9
C13	72.0	74.1	76.9	76.1	72.0	67.5	57.9	48.8	77.1	99.3
C14	72.1	74.2	77.0	76.2	72.1	67.6	58.0	48.9	77.2	99.6
C15	72.4	74.5	77.3	76.5	72.4	67.9	58.3	49.2	77.5	99.9
C16	72.7	74.8	77.6	76.8	72.7	68.2	58.6	49.5	77.8	100.2

EWAD C-PR

MODEL	Sound pressure level at 1 m from the unit (rif. 2×10^{-5} Pa)									Power
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	dB(A)	dB(A)
810	67.8	61.0	68.1	73.3	60.7	57.1	48.8	36.2	71.2	92.7
880	67.8	61.0	68.1	73.3	60.7	57.1	48.8	36.2	71.2	92.7
960	67.8	61.0	68.1	73.3	60.7	57.1	48.8	36.2	71.2	92.7
C10	68.3	61.5	68.6	73.8	61.2	57.6	49.3	36.7	71.7	93.4
C11	68.6	61.8	68.9	74.1	61.5	57.9	49.6	37.0	72.0	93.8
C13	68.6	61.8	68.9	74.1	61.5	57.9	49.6	37.0	72.0	94.1
C14	68.6	61.8	68.9	74.1	61.5	57.9	49.6	37.0	72.0	94.4
C15	68.9	62.1	69.2	74.4	61.8	58.2	49.9	37.3	72.3	94.7
C16	69.2	62.4	69.5	74.7	62.1	58.5	50.2	37.6	72.6	95.0

Fluid: Water

Note: The values are according to ISO 3744 and are referred to: evaporator 12/7° C, air ambient 35°C, full load operation



Water content in cooling circuit

The cooled water distribution circuits should have minimum water content to avoid excessive compressors start and stop.

In fact, each time the compressor starts up, an excessive quantity of oil goes from the compressor sump and simultaneously there is a rise in the temperature of the compressor motor’s stator due to the inrush current during the start-up.

To prevent damage to the compressors, It has been envisaged the application of a device to limit frequent stops and restarts.

During the span of one hour there will be no more than 6 starts of the compressor. The plant side should therefore ensure that the overall water content allows a more constant functioning of the unit and consequently greater environmental comfort.

The minimum water content per unit should be calculated using this simplified formula:

For 2 compressors unit
 $M \text{ (liters)} = (0.1595 \times \Delta T(^{\circ}\text{C}) + 3.0825) \times P(\text{kW})$

For 3 compressors unit
 $M \text{ (liters)} = (0.0443 \times \Delta T(^{\circ}\text{C}) + 1.6202) \times P(\text{kW})$

where:

- M minimum water content per unit expressed in litres
- P Cooling Capacity of the unit expressed in kW
- ΔT evaporator entering / leaving water temperature difference expressed in °C

This formula is valid for:

- standard microprocessor parameters

For more accurate determination of quantity of water, it is advisable to contact the designer of the plant.

Water charge, flow and quality

Items (1) (6)		Cooling Water			Cooled Water		Heated water (2)			Tendency if out of criteria		
		Circulating System		Once Flow	Circulating water	Supply water (4)	Low temperature		High temperature			
		Circulating water	Supply water (4)	Flowing water	[Below 20°C]	Supply water (4)	Circulating water [20°C ~ 60°C]	Supply water (4)	Circulating water [60°C ~ 80°C]		Supply water (4)	
Items to be controlled:	pH	6.5 ~ 8.2	6.0 ~ 8.0	6.0 ~ 8.0	6.8 ~ 8.0	6.0 ~ 8.0	7.0 ~ 8.0	7.0 ~ 8.0	7.0 ~ 8.0	7.0 ~ 8.0	Corrosion + Scale	
	Electrical conductivity	[mS/m] at 25°C	Below 80	Below 30	Below 40	Below 80	Below 80	Below 30	Below 30	Below 30	Below 30	Corrosion + Scale
		[µS/cm] at 25°C	(Below 800)	(Below 300)	(Below 400)	(Below 800)	(Below 800)	(Below 300)	(Below 300)	(Below 300)	(Below 300)	Corrosion + Scale
	Chloride ion	Below 200	Below 50	Below 50	Below 200	Below 50	Below 50	Below 50	Below 30	Below 30	Corrosion	
	Sulfate ion	Below 200	Below 50	Below 50	Below 200	Below 50	Below 50	Below 50	Below 30	Below 30	Corrosion	
	M-alkalinity (pH4.8)	Below 100	Below 50	Below 50	Below 100	Below 50	Below 50	Below 50	Below 50	Below 50	Scale	
	Total hardness	Below 200	Below 70	Below 70	Below 200	Below 70	Below 70	Below 70	Below 70	Below 70	Scale	
	Calcium hardness	Below 150	Below 50	Below 50	Below 50	Below 50	Below 50	Below 50	Below 50	Below 50	Scale	
	Silica ion	Below 50	Below 30	Below 30	Below 30	Below 30	Below 30	Below 30	Below 30	Below 30	Scale	
	Oxygen	Below 1.0	Below 1.0	Below 1.0	Below 1.0	Below 1.0	Below 1.0	Below 1.0	Below 1.0	Below 1.0	Corrosion	
	Particulate size	Below 0.5	Below 0.5	Below 0.5	Below 0.5	Below 0.6	Below 0.6	Below 0.5	Below 0.5	Below 0.6	Erosion	
	Total dissolved solids	Below 1000	Below 1000	Below 1000	Below 1000	Below 1001	Below 1001	Below 1000	Below 1000	Below 1001	Erosion	
	Ethylene, Propylene Glycol (weight conc.)	Below 60%	Below 60%	---	Below 60%	Below 60%	Below 60%	Below 60%	Below 60%	Below 60%	-	
	Nitrate ion	Below 100	Below 100	Below 100	Below 100	Below 101	Below 101	Below 100	Below 100	Below 101	Corrosion	
	TOC Total organic carbon	Below 1.0	Below 1.0	Below 1.0	Below 1.0	Below 1.0	Below 1.0	Below 1.0	Below 1.0	Below 1.0	Scale	
	Iron	Below 1.0	Below 0.3	Below 1.0	Below 1.0	Below 0.3	Below 0.3	Below 1.0	Below 1.0	Below 0.3	Corrosion + Scale	
	Copper	Below 0.3	Below 0.1	Below 1.0	Below 1.0	Below 1.0	Below 1.0	Below 1.0	Below 1.0	Below 0.1	Corrosion	
Sulfite ion	Not detectable	Not detectable	Not detectable	Not detectable	Not detectable	Not detectable	Not detectable	Not detectable	Not detectable	Corrosion		
Ammonium ion	Below 1.0	Below 0.1	Below 1.0	Below 1.0	Below 0.1	Below 0.1	Below 0.1	Below 0.1	Below 0.1	Corrosion		
Remaining chloride	Below 0.3	Below 0.3	Below 0.3	Below 0.3	Below 0.3	Below 0.3	Below 0.25	Below 0.1	Below 0.3	Corrosion		
Free carbide	Below 4.0	Below 4.0	Below 4.0	Below 4.0	Below 4.0	Below 4.0	Below 0.4	Below 0.4	Below 4.0	Corrosion		
Stability index	6.0 ~ 7.0	---	---	---	---	---	---	---	---	Corrosion + Scale		

1 Names, definitions and units are according to JIS K 0101. Units and figures between brackets are old units published as reference only.

2 In case of using heated water (more than 40°C), corrosion is generally noticeable.

3 In the cooling water using hermetic cooling tower, close circuit water is according to heated water standard, and scattered water is according to cooling water standard.

4 Supply water is considered drink water, industrial water and ground water except for genuine water, neutral water and soft water.

5 The above mentioned items are representable items in corrosion and scale cases.

6 The limits above have to be considered as a general prescription and can not totally assure the absence of corrosion and erosion.

Some particular combinations of elements or the presence of components not listed in the table or factors not considered may trigger corrosion phenomena.

EWAD C-SS

		650						740					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	673	643	630	610	573	547	752	732	722	707	675	650
	PI kW	185	199	205	214	230	240	215	234	242	254	277	292
	qw l/s	32.1	30.6	30.0	29.1	27.3	26.1	35.8	34.9	34.4	33.7	32.1	31.0
	dpw kPa	50	46	44	42	37	34	55	52	51	49	45	42
7	CC kW	713	682	668	647	608	582	792	770	761	744	710	684
	PI kW	191	205	211	221	238	248	221	241	249	262	285	301
	qw l/s	34.0	32.5	31.9	30.9	29.0	27.8	37.8	36.8	36.3	35.5	33.9	32.7
	dpw kPa	55	51	49	47	42	39	61	58	56	54	50	47
9	CC kW	753	721	708	685	644	617	833	810	800	782	746	719
	PI kW	197	212	218	228	245	256	228	248	257	270	294	309
	qw l/s	36.0	34.4	33.8	32.7	30.8	29.5	39.8	38.7	38.2	37.3	35.6	34.3
	dpw kPa	61	57	55	52	46	43	66	63	62	59	54	51
11	CC kW	794	761	746	724	681	653	874	850	839	820	782	743
	PI kW	203	218	225	235	253	264	235	256	264	278	302	312
	qw l/s	38.0	36.4	35.7	34.6	32.6	31.2	41.8	40.6	40.1	39.2	37.4	35.5
	dpw kPa	68	62	60	57	51	47	73	69	67	65	59	54
13	CC kW	836	801	786	762	719	689	917	892	880	860	819	764
	PI kW	209	225	232	242	260	272	243	264	273	286	312	312
	qw l/s	40.0	38.3	37.6	36.5	34.4	33.0	43.9	42.7	42.1	41.1	39.2	36.5
	dpw kPa	74	69	66	63	56	52	79	75	74	71	65	57
15	CC kW	879	842	827	802	756	726	961	933	921	899	856	786
	PI kW	215	232	239	249	268	280	250	272	281	295	321	312
	qw l/s	42.1	40.3	39.6	38.4	36.2	34.8	46.0	44.7	44.1	43.1	41.0	37.6
	dpw kPa	81	75	73	69	62	58	86	82	80	77	70	60

		830						910					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	847	822	811	791	749	718	922	898	886	867	827	797
	PI kW	245	267	276	290	315	332	261	284	293	308	336	354
	qw l/s	40.4	39.2	38.6	37.7	35.7	34.2	43.9	42.8	42.2	41.3	39.4	38.0
	dpw kPa	54	52	50	48	44	40	63	60	59	57	52	49
7	CC kW	892	866	853	832	788	756	971	944	932	912	870	838
	PI kW	253	275	285	299	326	343	269	292	302	318	346	364
	qw l/s	42.6	41.3	40.7	39.7	37.6	36.1	46.3	45.1	44.5	43.5	41.5	40.0
	dpw kPa	60	57	55	53	48	44	70	66	65	62	57	54
9	CC kW	938	909	896	873	827	770	1020	992	980	958	913	875
	PI kW	262	284	294	309	336	340	277	301	311	327	356	373
	qw l/s	44.8	43.4	42.8	41.7	39.5	36.8	48.7	47.4	46.8	45.7	43.6	41.8
	dpw kPa	65	62	60	58	52	46	76	73	71	68	62	58
11	CC kW	984	954	939	915	867	778	1071	1041	1027	1004	957	901
	PI kW	270	294	303	319	347	332	285	310	321	337	367	373
	qw l/s	47.0	45.6	44.9	43.8	41.4	37.2	51.2	49.8	49.1	48.0	45.7	43.1
	dpw kPa	71	68	66	63	57	47	83	79	77	74	68	61
13	CC kW	1031	999	983	958	901	782	1122	1091	1076	1052	1002	929
	PI kW	279	303	313	329	356	321	294	320	330	347	378	374
	qw l/s	49.3	47.8	47.0	45.8	43.1	37.4	53.7	52.2	51.5	50.3	47.9	44.4
	dpw kPa	78	73	71	68	61	47	91	86	84	81	74	65
15	CC kW	1079	1044	1028	1001	909	796	1175	1141	1126	1100	1041	955
	PI kW	289	313	324	340	348	316	303	329	341	358	386	374
	qw l/s	51.7	50.0	49.2	47.9	43.5	38.1	56.2	54.6	53.9	52.6	49.8	45.7
	dpw kPa	85	80	77	74	62	49	99	94	91	88	79	68

EWAD C-SS

			970						C11					
Twout	Ta		25	30	32	35	40	43	25	30	32	35	40	43
5	CC	kW	982	955	942	920	875	841	1076	1048	1034	1012	965	930
	PI	kW	287	312	323	340	371	391	309	337	348	366	399	421
	qw	l/s	46.8	45.5	44.9	43.9	41.7	40.1	51.3	49.9	49.3	48.2	46.0	44.3
	dpw	kPa	71	67	66	63	58	54	65	62	61	59	54	50
7	CC	kW	1033	1004	990	967	919	883	1133	1102	1088	1064	1014	977
	PI	kW	296	322	333	350	382	403	319	347	359	377	411	433
	qw	l/s	49.3	47.9	47.3	46.1	43.8	42.1	54.0	52.6	51.9	50.8	48.4	46.6
	dpw	kPa	78	74	72	69	63	59	72	68	67	64	59	55
9	CC	kW	1085	1054	1039	1014	963	916	1190	1158	1143	1117	1064	1020
	PI	kW	305	332	343	361	394	410	328	357	369	389	423	443
	qw	l/s	51.8	50.3	49.6	48.4	46.0	43.7	56.9	55.3	54.6	53.4	50.8	48.7
	dpw	kPa	85	81	79	75	69	63	79	75	73	70	64	60
11	CC	kW	1138	1104	1089	1062	1008	926	1249	1215	1199	1171	1115	1047
	PI	kW	315	342	354	372	406	401	338	368	381	400	436	441
	qw	l/s	54.4	52.8	52.0	50.8	48.2	44.2	59.7	58.1	57.3	56.0	53.3	50.0
	dpw	kPa	93	88	86	82	75	64	86	82	80	77	70	63
13	CC	kW	1191	1156	1139	1111	1054	939	1309	1272	1255	1226	1167	1079
	PI	kW	324	353	365	384	418	393	349	379	392	412	449	442
	qw	l/s	57.0	55.3	54.5	53.1	50.4	44.9	62.6	60.9	60.0	58.7	55.8	51.6
	dpw	kPa	101	96	93	89	81	66	94	89	87	83	76	66
15	CC	kW	1246	1208	1190	1160	1088	949	1370	1331	1313	1282	1209	1110
	PI	kW	335	364	376	396	425	383	359	391	404	425	456	442
	qw	l/s	59.6	57.8	57.0	55.5	52.1	45.4	65.6	63.7	62.8	61.4	57.9	53.1
	dpw	kPa	110	104	101	96	86	67	102	97	94	90	81	70

			C12						C13					
Twout	Ta		25	30	32	35	40	43	25	30	32	35	40	43
5	CC	kW	1160	1131	1118	1095	1048	1013	1329	1294	1278	1250	1194	1152
	PI	kW	331	360	372	392	427	450	361	393	407	428	466	491
	qw	l/s	55.3	53.9	53.3	52.2	50.0	48.3	63.4	61.7	60.9	59.6	56.9	54.9
	dpw	kPa	75	72	70	68	62	59	55	52	51	49	45	42
7	CC	kW	1221	1190	1176	1152	1102	1065	1403	1365	1348	1319	1260	1216
	PI	kW	340	370	383	403	439	463	371	405	419	441	480	505
	qw	l/s	58.2	56.8	56.1	55.0	52.6	50.8	66.9	65.1	64.3	62.9	60.1	58.0
	dpw	kPa	82	79	77	74	68	64	60	57	56	54	50	47
9	CC	kW	1283	1250	1235	1210	1157	1118	1477	1438	1420	1390	1327	1281
	PI	kW	350	381	394	414	451	476	382	417	432	454	494	520
	qw	l/s	61.3	59.7	59.0	57.8	55.3	53.4	70.5	68.7	67.8	66.4	63.4	61.2
	dpw	kPa	90	86	84	81	75	70	66	63	62	59	55	51
11	CC	kW	1346	1311	1295	1268	1213	1172	1552	1511	1492	1460	1395	1346
	PI	kW	360	392	405	426	464	489	394	429	444	467	509	536
	qw	l/s	64.3	62.7	61.9	60.6	58.0	56.0	74.2	72.2	71.3	69.8	66.7	64.4
	dpw	kPa	98	94	92	88	81	77	73	69	68	65	60	56
13	CC	kW	1410	1374	1357	1328	1270	1227	1629	1585	1565	1531	1462	1391
	PI	kW	370	403	417	438	477	503	406	442	457	481	524	540
	qw	l/s	67.5	65.7	64.9	63.5	60.7	58.7	77.9	75.8	74.9	73.2	69.9	66.5
	dpw	kPa	107	102	100	96	89	83	79	75	74	71	65	60
15	CC	kW	1476	1437	1419	1389	1327	1268	1708	1661	1639	1603	1530	1433
	PI	kW	381	415	429	451	491	510	418	455	471	495	539	542
	qw	l/s	70.7	68.8	67.9	66.5	63.5	60.7	81.8	79.5	78.5	76.7	73.3	68.6
	dpw	kPa	116	111	108	104	96	88	86	82	80	77	71	63

EWAD C-SS

		H14						C15					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	1432	1393	1376	1344	1279	1233	1558	1515	1495	1461	1390	1337
	PI kW	386	422	437	460	502	530	452	492	508	535	582	614
	qw l/s	68.3	66.4	65.6	64.1	61.0	58.7	74.3	72.2	71.2	69.6	66.2	63.7
	dpw kPa	59	56	55	53	48	45	63	60	59	56	52	48
7	CC kW	1509	1468	1449	1418	1350	1299	1642	1596	1575	1538	1463	1407
	PI kW	397	434	450	474	517	546	466	507	524	551	600	632
	qw l/s	72.0	70.0	69.2	67.6	64.4	62.0	78.3	76.1	75.1	73.4	69.8	67.1
	dpw kPa	65	62	61	58	53	50	70	66	65	62	57	53
9	CC kW	1587	1543	1524	1490	1420	1368	1728	1679	1656	1617	1537	1473
	PI kW	409	447	463	488	533	562	481	523	541	568	619	649
	qw l/s	75.8	73.7	72.8	71.1	67.8	65.4	82.5	80.2	79.1	77.2	73.4	70.3
	dpw kPa	72	68	66	64	59	55	77	73	71	68	62	57
11	CC kW	1667	1620	1599	1563	1490	1437	1816	1763	1739	1697	1612	1503
	PI kW	421	460	477	502	548	579	496	539	557	586	638	642
	qw l/s	79.7	77.5	76.4	74.7	71.2	68.7	86.8	84.3	83.1	81.1	77.1	71.8
	dpw kPa	78	74	73	70	64	60	84	80	78	74	68	60
13	CC kW	1748	1699	1676	1638	1560	1460	1905	1849	1823	1778	1688	1542
	PI kW	434	474	491	517	564	572	512	556	575	604	657	640
	qw l/s	83.6	81.3	80.2	78.3	74.6	69.8	91.1	88.4	87.2	85.1	80.8	73.8
	dpw kPa	85	81	79	76	70	62	92	87	85	81	74	63
15	CC kW	1832	1779	1754	1713	1631	1480	1996	1936	1908	1861	1746	1580
	PI kW	447	488	505	532	581	561	528	574	593	623	667	635
	qw l/s	87.7	85.2	84.0	82.0	78.1	70.9	95.6	92.7	91.4	89.1	83.6	75.6
	dpw kPa	93	88	86	82	75	63	100	94	92	88	78	65

		C16						C17					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	1641	1596	1575	1541	1468	1415	1737	1690	1668	1630	1552	1494
	PI kW	475	517	535	562	613	646	507	552	571	601	655	691
	qw l/s	78.2	76.1	75.1	73.4	70.0	67.4	82.8	80.5	79.5	77.7	74.0	71.2
	dpw kPa	70	66	65	62	57	53	76	73	71	68	62	58
7	CC kW	1729	1681	1659	1622	1545	1489	1828	1777	1754	1714	1631	1570
	PI kW	489	533	551	579	631	665	522	568	588	619	675	712
	qw l/s	82.5	80.2	79.2	77.4	73.7	71.0	87.2	84.8	83.7	81.8	77.8	74.9
	dpw kPa	77	73	71	68	63	59	84	80	78	75	68	64
9	CC kW	1819	1768	1745	1705	1624	1558	1920	1867	1842	1799	1711	1635
	PI kW	504	549	568	597	650	682	538	586	606	638	695	727
	qw l/s	86.9	84.4	83.3	81.4	77.5	74.4	91.7	89.1	88.0	85.9	81.7	78.1
	dpw kPa	84	80	78	75	68	64	92	87	85	82	75	69
11	CC kW	1911	1857	1832	1789	1703	1590	2014	1957	1931	1885	1792	1674
	PI kW	520	566	585	615	669	673	555	604	624	657	716	723
	qw l/s	91.3	88.8	87.6	85.5	81.4	76.0	96.3	93.6	92.3	90.1	85.7	80.0
	dpw kPa	92	87	85	82	75	66	100	95	93	89	81	72
13	CC kW	2005	1947	1920	1875	1784	1632	2110	2050	2021	1973	1875	1711
	PI kW	536	583	603	634	690	670	572	622	643	677	737	716
	qw l/s	95.9	93.1	91.9	89.7	85.3	78.1	101.0	98.1	96.7	94.4	89.7	81.8
	dpw kPa	100	95	93	89	81	69	109	103	101	97	88	75
15	CC kW	2100	2039	2011	1963	1845	1672	2208	2143	2113	2062	1937	1744
	PI kW	552	601	621	653	699	664	589	641	663	697	748	708
	qw l/s	100.5	97.6	96.3	94.0	88.3	80.1	105.7	102.6	101.2	98.7	92.7	83.5
	dpw kPa	109	104	101	97	87	72	118	112	109	105	94	77

EWAD C-SS

		C18						C19					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	1833	1783	1759	1717	1628	1563	1900	1851	1827	1787	1702	1638
	PI kW	542	591	612	645	705	744	555	607	628	663	726	767
	qw l/s	87.4	85.0	83.8	81.8	77.6	74.5	90.6	88.2	87.1	85.2	81.1	78.1
	dpw kPa	37	35	34	33	30	28	40	38	37	35	32	30
7	CC kW	1925	1871	1846	1802	1710	1642	1996	1943	1918	1875	1787	1720
	PI kW	559	609	631	665	726	767	571	624	646	682	746	789
	qw l/s	91.9	89.3	88.1	86.0	81.6	78.3	95.2	92.7	91.5	89.5	85.2	82.1
	dpw kPa	41	38	38	36	33	30	43	41	40	39	35	33
9	CC kW	2019	1961	1934	1887	1791	1676	2093	2037	2010	1965	1871	1790
	PI kW	575	628	650	685	748	763	588	642	665	701	768	804
	qw l/s	96.4	93.7	92.4	90.1	85.6	80.1	100.0	97.3	96.0	93.8	89.4	85.5
	dpw kPa	44	42	41	39	36	32	47	45	44	42	39	36
11	CC kW	2114	2053	2024	1974	1873	1694	2192	2132	2104	2056	1957	1830
	PI kW	593	647	669	705	770	744	605	661	684	722	789	797
	qw l/s	101.0	98.1	96.7	94.4	89.5	81.0	104.8	101.9	100.6	98.3	93.6	87.5
	dpw kPa	48	46	44	42	39	32	51	49	48	46	42	37
13	CC kW	2211	2145	2114	2062	1948	1712	2293	2229	2199	2148	2044	1867
	PI kW	611	666	690	727	790	724	622	680	704	742	812	787
	qw l/s	105.8	102.6	101.1	98.6	93.2	81.9	109.7	106.6	105.2	102.8	97.8	89.3
	dpw kPa	52	49	48	46	42	33	56	53	52	50	45	38
15	CC kW	2309	2239	2206	2150	1981	1729	2395	2327	2295	2241	2117	1886
	PI kW	630	687	711	749	783	704	641	700	725	764	827	768
	qw l/s	110.5	107.2	105.6	102.9	94.8	82.8	114.7	111.4	109.9	107.3	101.3	90.3
	dpw kPa	56	53	52	50	43	34	60	57	56	54	48	39

		C20											
Twout	Ta	25	30	32	35	40	43						
5	CC kW	1952	1900	1875	1832	1743	1675						
	PI kW	581	635	659	696	764	809						
	qw l/s	93.0	90.5	89.4	87.3	83.0	79.8						
	dpw kPa	41	39	39	37	34	31						
7	CC kW	2049	1993	1967	1922	1827	1757						
	PI kW	597	654	678	716	785	831						
	qw l/s	97.8	95.1	93.9	91.7	87.2	83.8						
	dpw kPa	45	43	42	40	37	34						
9	CC kW	2148	2089	2061	2013	1913	1820						
	PI kW	615	673	697	736	807	844						
	qw l/s	102.6	99.8	98.4	96.1	91.4	86.9						
	dpw kPa	49	47	46	44	40	37						
11	CC kW	2249	2185	2156	2105	2000	1841						
	PI kW	633	692	717	757	830	823						
	qw l/s	107.5	104.5	103.0	100.6	95.6	88.0						
	dpw kPa	54	51	50	48	43	37						
13	CC kW	2351	2284	2252	2198	2087	1855						
	PI kW	651	712	738	779	854	798						
	qw l/s	112.5	109.2	107.7	105.1	99.8	88.7						
	dpw kPa	58	55	54	52	47	38						
15	CC kW	2455	2383	2349	2292	2153	1875						
	PI kW	670	733	760	802	866	776						
	qw l/s	117.5	114.1	112.5	109.7	103.1	89.8						
	dpw kPa	63	60	58	56	50	39						

Fluid: Water

Ta: Condenser inlet air temperature; Twout: Evaporator leaving water temperature (Δt 5°C)

CC: Cooling capacity; PI: Power input; qw: Fluid flow rate; dpw: Fluid pressure drop

* For working condition where dpw value is "Italic-Red Color" please contact factory

EWAD C-SL

		650						740					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	673	643	630	610	573	547	752	732	722	707	675	650
	PI kW	185	199	205	214	230	240	215	234	242	254	277	292
	qw l/s	32.1	30.6	30.0	29.1	27.3	26.1	35.8	34.9	34.4	33.7	32.1	31.0
	dpw kPa	50	46	44	42	37	34	55	52	51	49	45	42
7	CC kW	713	682	668	647	608	582	792	770	761	744	710	684
	PI kW	191	205	211	221	238	248	221	241	249	262	285	301
	qw l/s	34.0	32.5	31.9	30.9	29.0	27.8	37.8	36.8	36.3	35.5	33.9	32.7
	dpw kPa	55	51	49	47	42	39	61	58	56	54	50	47
9	CC kW	753	721	708	685	644	617	833	810	800	782	746	719
	PI kW	197	212	218	228	245	256	228	248	257	270	294	309
	qw l/s	36.0	34.4	33.8	32.7	30.8	29.5	39.8	38.7	38.2	37.3	35.6	34.3
	dpw kPa	61	57	55	52	46	43	66	63	62	59	54	51
11	CC kW	794	761	746	724	681	653	874	850	839	820	782	743
	PI kW	203	218	225	235	253	264	235	256	264	278	302	312
	qw l/s	38.0	36.4	35.7	34.6	32.6	31.2	41.8	40.6	40.1	39.2	37.4	35.5
	dpw kPa	68	62	60	57	51	47	73	69	67	65	59	54
13	CC kW	836	801	786	762	719	689	917	892	880	860	819	764
	PI kW	209	225	232	242	260	272	243	264	273	286	312	312
	qw l/s	40.0	38.3	37.6	36.5	34.4	33.0	43.9	42.7	42.1	41.1	39.2	36.5
	dpw kPa	74	69	66	63	56	52	79	75	74	71	65	57
15	CC kW	879	842	827	802	756	726	961	933	921	899	856	786
	PI kW	215	232	239	249	268	280	250	272	281	295	321	312
	qw l/s	42.1	40.3	39.6	38.4	36.2	34.8	46.0	44.7	44.1	43.1	41.0	37.6
	dpw kPa	81	75	73	69	62	58	86	82	80	77	70	60

		830						910					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	847	822	811	791	749	718	922	898	886	867	827	797
	PI kW	245	267	276	290	315	332	261	284	293	308	336	354
	qw l/s	40.4	39.2	38.6	37.7	35.7	34.2	43.9	42.8	42.2	41.3	39.4	38.0
	dpw kPa	54	52	50	48	44	40	63	60	59	57	52	49
7	CC kW	892	866	853	832	788	756	971	944	932	912	870	838
	PI kW	253	275	285	299	326	343	269	292	302	318	346	364
	qw l/s	42.6	41.3	40.7	39.7	37.6	36.1	46.3	45.1	44.5	43.5	41.5	40.0
	dpw kPa	60	57	55	53	48	44	70	66	65	62	57	54
9	CC kW	938	909	896	873	827	770	1020	992	980	958	913	875
	PI kW	262	284	294	309	336	340	277	301	311	327	356	373
	qw l/s	44.8	43.4	42.8	41.7	39.5	36.8	48.7	47.4	46.8	45.7	43.6	41.8
	dpw kPa	65	62	60	58	52	46	76	73	71	68	62	58
11	CC kW	984	954	939	915	867	778	1071	1041	1027	1004	957	901
	PI kW	270	294	303	319	347	332	285	310	321	337	367	373
	qw l/s	47.0	45.6	44.9	43.8	41.4	37.2	51.2	49.8	49.1	48.0	45.7	43.1
	dpw kPa	71	68	66	63	57	47	83	79	77	74	68	61
13	CC kW	1031	999	983	958	901	782	1122	1091	1076	1052	1002	929
	PI kW	279	303	313	329	356	321	294	320	330	347	378	374
	qw l/s	49.3	47.8	47.0	45.8	43.1	37.4	53.7	52.2	51.5	50.3	47.9	44.4
	dpw kPa	78	73	71	68	61	47	91	86	84	81	74	65
15	CC kW	1079	1044	1028	1001	909	796	1175	1141	1126	1100	1041	955
	PI kW	289	313	324	340	348	316	303	329	341	358	386	374
	qw l/s	51.7	50.0	49.2	47.9	43.5	38.1	56.2	54.6	53.9	52.6	49.8	45.7
	dpw kPa	85	80	77	74	62	49	99	94	91	88	79	68

EWAD C-SL

		970						C11					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	982	955	942	920	875	841	1076	1048	1034	1012	965	930
	PI kW	287	312	323	340	371	391	309	337	348	366	399	421
	qw l/s	46.8	45.5	44.9	43.9	41.7	40.1	51.3	49.9	49.3	48.2	46.0	44.3
	dpw kPa	71	67	66	63	58	54	65	62	61	59	54	50
7	CC kW	1033	1004	990	967	919	883	1133	1102	1088	1064	1014	977
	PI kW	296	322	333	350	382	403	319	347	359	377	411	433
	qw l/s	49.3	47.9	47.3	46.1	43.8	42.1	54.0	52.6	51.9	50.8	48.4	46.6
	dpw kPa	78	74	72	69	63	59	72	68	67	64	59	55
9	CC kW	1085	1054	1039	1014	963	916	1190	1158	1143	1117	1064	1020
	PI kW	305	332	343	361	394	410	328	357	369	389	423	443
	qw l/s	51.8	50.3	49.6	48.4	46.0	43.7	56.9	55.3	54.6	53.4	50.8	48.7
	dpw kPa	85	81	79	75	69	63	79	75	73	70	64	60
11	CC kW	1138	1104	1089	1062	1008	926	1249	1215	1199	1171	1115	1047
	PI kW	315	342	354	372	406	401	338	368	381	400	436	441
	qw l/s	54.4	52.8	52.0	50.8	48.2	44.2	59.7	58.1	57.3	56.0	53.3	50.0
	dpw kPa	93	88	86	82	75	64	86	82	80	77	70	63
13	CC kW	1191	1156	1139	1111	1054	939	1309	1272	1255	1226	1167	1079
	PI kW	324	353	365	384	418	393	349	379	392	412	449	442
	qw l/s	57.0	55.3	54.5	53.1	50.4	44.9	62.6	60.9	60.0	58.7	55.8	51.6
	dpw kPa	101	96	93	89	81	66	94	89	87	83	76	66
15	CC kW	1246	1208	1190	1160	1088	949	1370	1331	1313	1282	1209	1110
	PI kW	335	364	376	396	425	383	359	391	404	425	456	442
	qw l/s	59.6	57.8	57.0	55.5	52.1	45.4	65.6	63.7	62.8	61.4	57.9	53.1
	dpw kPa	110	104	101	96	86	67	102	97	94	90	81	70

		C12						C13					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	1160	1131	1118	1095	1048	1013	1329	1294	1278	1250	1194	1152
	PI kW	331	360	372	392	427	450	361	393	407	428	466	491
	qw l/s	55.3	53.9	53.3	52.2	50.0	48.3	63.4	61.7	60.9	59.6	56.9	54.9
	dpw kPa	75	72	70	68	62	59	55	52	51	49	45	42
7	CC kW	1221	1190	1176	1152	1102	1065	1403	1365	1348	1319	1260	1216
	PI kW	340	370	383	403	439	463	371	405	419	441	480	505
	qw l/s	58.2	56.8	56.1	55.0	52.6	50.8	66.9	65.1	64.3	62.9	60.1	58.0
	dpw kPa	82	79	77	74	68	64	60	57	56	54	50	47
9	CC kW	1283	1250	1235	1210	1157	1118	1477	1438	1420	1390	1327	1281
	PI kW	350	381	394	414	451	476	382	417	432	454	494	520
	qw l/s	61.3	59.7	59.0	57.8	55.3	53.4	70.5	68.7	67.8	66.4	63.4	61.2
	dpw kPa	90	86	84	81	75	70	66	63	62	59	55	51
11	CC kW	1346	1311	1295	1268	1213	1172	1552	1511	1492	1460	1395	1346
	PI kW	360	392	405	426	464	489	394	429	444	467	509	536
	qw l/s	64.3	62.7	61.9	60.6	58.0	56.0	74.2	72.2	71.3	69.8	66.7	64.4
	dpw kPa	98	94	92	88	81	77	73	69	68	65	60	56
13	CC kW	1410	1374	1357	1328	1270	1227	1629	1585	1565	1531	1462	1391
	PI kW	370	403	417	438	477	503	406	442	457	481	524	540
	qw l/s	67.5	65.7	64.9	63.5	60.7	58.7	77.9	75.8	74.9	73.2	69.9	66.5
	dpw kPa	107	102	100	96	89	83	79	75	74	71	65	60
15	CC kW	1476	1437	1419	1389	1327	1268	1708	1661	1639	1603	1530	1433
	PI kW	381	415	429	451	491	510	418	455	471	495	539	542
	qw l/s	70.7	68.8	67.9	66.5	63.5	60.7	81.8	79.5	78.5	76.7	73.3	68.6
	dpw kPa	116	111	108	104	96	88	86	82	80	77	71	63

EWAD C-SL

		H14						C15					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	1432	1393	1376	1344	1279	1233	1558	1515	1495	1461	1390	1337
	PI kW	386	422	437	460	502	530	452	492	508	535	582	614
	qw l/s	68.3	66.4	65.6	64.1	61.0	58.7	74.3	72.2	71.2	69.6	66.2	63.7
	dpw kPa	59	56	55	53	48	45	63	60	59	56	52	48
7	CC kW	1509	1468	1449	1418	1350	1299	1642	1596	1575	1538	1463	1407
	PI kW	397	434	450	474	517	546	466	507	524	551	600	632
	qw l/s	72.0	70.0	69.2	67.6	64.4	62.0	78.3	76.1	75.1	73.4	69.8	67.1
	dpw kPa	65	62	61	58	53	50	70	66	65	62	57	53
9	CC kW	1587	1543	1524	1490	1420	1368	1728	1679	1656	1617	1537	1473
	PI kW	409	447	463	488	533	562	481	523	541	568	619	649
	qw l/s	75.8	73.7	72.8	71.1	67.8	65.4	82.5	80.2	79.1	77.2	73.4	70.3
	dpw kPa	72	68	66	64	59	55	77	73	71	68	62	57
11	CC kW	1667	1620	1599	1563	1490	1437	1816	1763	1739	1697	1612	1503
	PI kW	421	460	477	502	548	579	496	539	557	586	638	642
	qw l/s	79.7	77.5	76.4	74.7	71.2	68.7	86.8	84.3	83.1	81.1	77.1	71.8
	dpw kPa	78	74	73	70	64	60	84	80	78	74	68	60
13	CC kW	1748	1699	1676	1638	1560	1460	1905	1849	1823	1778	1688	1542
	PI kW	434	474	491	517	564	572	512	556	575	604	657	640
	qw l/s	83.6	81.3	80.2	78.3	74.6	69.8	91.1	88.4	87.2	85.1	80.8	73.8
	dpw kPa	85	81	79	76	70	62	92	87	85	81	74	63
15	CC kW	1832	1779	1754	1713	1631	1480	1996	1936	1908	1861	1746	1580
	PI kW	447	488	505	532	581	561	528	574	593	623	667	635
	qw l/s	87.7	85.2	84.0	82.0	78.1	70.9	95.6	92.7	91.4	89.1	83.6	75.6
	dpw kPa	93	88	86	82	75	63	100	94	92	88	78	65

		C16						C17					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	1641	1596	1575	1541	1468	1415	1737	1690	1668	1630	1552	1494
	PI kW	475	517	535	562	613	646	507	552	571	601	655	691
	qw l/s	78.2	76.1	75.1	73.4	70.0	67.4	82.8	80.5	79.5	77.7	74.0	71.2
	dpw kPa	70	66	65	62	57	53	76	73	71	68	62	58
7	CC kW	1729	1681	1659	1622	1545	1489	1828	1777	1754	1714	1631	1570
	PI kW	489	533	551	579	631	665	522	568	588	619	675	712
	qw l/s	82.5	80.2	79.2	77.4	73.7	71.0	87.2	84.8	83.7	81.8	77.8	74.9
	dpw kPa	77	73	71	68	63	59	84	80	78	75	68	64
9	CC kW	1819	1768	1745	1705	1624	1558	1920	1867	1842	1799	1711	1635
	PI kW	504	549	568	597	650	682	538	586	606	638	695	727
	qw l/s	86.9	84.4	83.3	81.4	77.5	74.4	91.7	89.1	88.0	85.9	81.7	78.1
	dpw kPa	84	80	78	75	68	64	92	87	85	82	75	69
11	CC kW	1911	1857	1832	1789	1703	1590	2014	1957	1931	1885	1792	1674
	PI kW	520	566	585	615	669	673	555	604	624	657	716	723
	qw l/s	91.3	88.8	87.6	85.5	81.4	76.0	96.3	93.6	92.3	90.1	85.7	80.0
	dpw kPa	92	87	85	82	75	66	100	95	93	89	81	72
13	CC kW	2005	1947	1920	1875	1784	1632	2110	2050	2021	1973	1875	1711
	PI kW	536	583	603	634	690	670	572	622	643	677	737	716
	qw l/s	95.9	93.1	91.9	89.7	85.3	78.1	101.0	98.1	96.7	94.4	89.7	81.8
	dpw kPa	100	95	93	89	81	69	109	103	101	97	88	75
15	CC kW	2100	2039	2011	1963	1845	1672	2208	2143	2113	2062	1937	1744
	PI kW	552	601	621	653	699	664	589	641	663	697	748	708
	qw l/s	100.5	97.6	96.3	94.0	88.3	80.1	105.7	102.6	101.2	98.7	92.7	83.5
	dpw kPa	109	104	101	97	87	72	118	112	109	105	94	77

EWAD C-SL

		C18						C19					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	1833	1783	1759	1717	1628	1563	1900	1851	1827	1787	1702	1638
	PI kW	542	591	612	645	705	744	555	607	628	663	726	767
	qw l/s	87.4	85.0	83.8	81.8	77.6	74.5	90.6	88.2	87.1	85.2	81.1	78.1
	dpw kPa	37	35	34	33	30	28	40	38	37	35	32	30
7	CC kW	1925	1871	1846	1802	1710	1642	1996	1943	1918	1875	1787	1720
	PI kW	559	609	631	665	726	767	571	624	646	682	746	789
	qw l/s	91.9	89.3	88.1	86.0	81.6	78.3	95.2	92.7	91.5	89.5	85.2	82.1
	dpw kPa	41	38	38	36	33	30	43	41	40	39	35	33
9	CC kW	2019	1961	1934	1887	1791	1676	2093	2037	2010	1965	1871	1790
	PI kW	575	628	650	685	748	763	588	642	665	701	768	804
	qw l/s	96.4	93.7	92.4	90.1	85.6	80.1	100.0	97.3	96.0	93.8	89.4	85.5
	dpw kPa	44	42	41	39	36	32	47	45	44	42	39	36
11	CC kW	2114	2053	2024	1974	1873	1694	2192	2132	2104	2056	1957	1830
	PI kW	593	647	669	705	770	744	605	661	684	722	789	797
	qw l/s	101.0	98.1	96.7	94.4	89.5	81.0	104.8	101.9	100.6	98.3	93.6	87.5
	dpw kPa	48	46	44	42	39	32	51	49	48	46	42	37
13	CC kW	2211	2145	2114	2062	1948	1712	2293	2229	2199	2148	2044	1867
	PI kW	611	666	690	727	790	724	622	680	704	742	812	787
	qw l/s	105.8	102.6	101.1	98.6	93.2	81.9	109.7	106.6	105.2	102.8	97.8	89.3
	dpw kPa	52	49	48	46	42	33	56	53	52	50	45	38
15	CC kW	2309	2239	2206	2150	1981	1729	2395	2327	2295	2241	2117	1886
	PI kW	630	687	711	749	783	704	641	700	725	764	827	768
	qw l/s	110.5	107.2	105.6	102.9	94.8	82.8	114.7	111.4	109.9	107.3	101.3	90.3
	dpw kPa	56	53	52	50	43	34	60	57	56	54	48	39

		C20					
Twout	Ta	25	30	32	35	40	43
5	CC kW	1952	1900	1875	1832	1743	1675
	PI kW	581	635	659	696	764	809
	qw l/s	93.0	90.5	89.4	87.3	83.0	79.8
	dpw kPa	41	39	39	37	34	31
7	CC kW	2049	1993	1967	1922	1827	1757
	PI kW	597	654	678	716	785	831
	qw l/s	97.8	95.1	93.9	91.7	87.2	83.8
	dpw kPa	45	43	42	40	37	34
9	CC kW	2148	2089	2061	2013	1913	1820
	PI kW	615	673	697	736	807	844
	qw l/s	102.6	99.8	98.4	96.1	91.4	86.9
	dpw kPa	49	47	46	44	40	37
11	CC kW	2249	2185	2156	2105	2000	1841
	PI kW	633	692	717	757	830	823
	qw l/s	107.5	104.5	103.0	100.6	95.6	88.0
	dpw kPa	54	51	50	48	43	37
13	CC kW	2351	2284	2252	2198	2087	1855
	PI kW	651	712	738	779	854	798
	qw l/s	112.5	109.2	107.7	105.1	99.8	88.7
	dpw kPa	58	55	54	52	47	38
15	CC kW	2455	2383	2349	2292	2153	1875
	PI kW	670	733	760	802	866	776
	qw l/s	117.5	114.1	112.5	109.7	103.1	89.8
	dpw kPa	63	60	58	56	50	39

Fluid: Water

Ta: Condenser inlet air temperature; Twout: Evaporator leaving water temperature (Δt 5°C)

CC: Cooling capacity; PI: Power input; qw: Fluid flow rate; dpw: Fluid pressure drop

* For working condition where dpw value is "Italic-Red Color" please contact factory

EWAD C-SR

		620						720					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	651	620	606	585	544	516	735	712	700	681	641	590
	PI kW	186	200	206	216	232	243	222	242	250	264	289	286
	qw l/s	31.0	29.5	28.9	27.9	25.9	24.6	35.0	33.9	33.4	32.5	30.5	28.1
	dpw kPa	47	43	41	39	34	31	53	50	48	46	41	36
7	CC kW	689	656	642	619	577	548	773	748	736	715	669	610
	PI kW	192	207	214	223	241	252	229	250	259	273	296	287
	qw l/s	32.9	31.3	30.6	29.5	27.5	26.2	36.9	35.7	35.1	34.1	31.9	29.1
	dpw kPa	52	48	46	43	38	35	58	55	53	50	45	38
9	CC kW	728	693	678	654	610	581	812	785	772	750	687	620
	PI kW	199	215	221	231	249	261	237	259	268	282	295	282
	qw l/s	34.8	33.1	32.4	31.2	29.1	27.7	38.8	37.5	36.9	35.8	32.8	29.6
	dpw kPa	58	53	51	48	42	38	63	60	58	55	47	39
11	CC kW	766	730	715	690	644	613	852	822	808	785	709	619
	PI kW	206	222	229	240	258	270	246	268	277	292	297	282
	qw l/s	36.6	34.9	34.2	33.0	30.8	29.3	40.7	39.3	38.6	37.5	33.9	29.6
	dpw kPa	63	58	56	52	46	42	69	65	63	60	50	39
13	CC kW	805	768	751	726	678	632	892	860	845	820	730	627
	PI kW	214	230	237	248	267	271	255	277	287	302	297	274
	qw l/s	38.5	36.7	35.9	34.7	32.4	30.2	42.7	41.1	40.4	39.2	34.9	30.0
	dpw kPa	69	64	61	57	51	45	75	71	68	65	52	40
15	CC kW	845	806	789	762	712	638	932	898	882	851	734	636
	PI kW	221	238	245	257	277	263	264	287	297	310	288	267
	qw l/s	40.5	38.6	37.7	36.5	34.1	30.5	44.6	43.0	42.2	40.7	35.1	30.4
	dpw kPa	76	69	67	63	56	46	82	76	74	69	53	41

		790						880					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	823	792	777	752	696	602	902	873	859	834	785	718
	PI kW	255	278	288	303	329	299	268	293	303	320	349	344
	qw l/s	39.2	37.8	37.1	35.8	33.2	28.7	43.0	41.6	40.9	39.8	37.4	34.2
	dpw kPa	52	48	47	44	38	29	61	57	56	53	47	40
7	CC kW	865	832	816	789	702	607	948	917	902	876	812	738
	PI kW	265	289	299	314	319	288	278	303	314	331	353	342
	qw l/s	41.3	39.7	38.9	37.6	33.5	29.0	45.2	43.7	43.0	41.8	38.8	35.2
	dpw kPa	57	53	51	48	39	30	67	63	61	58	50	42
9	CC kW	908	872	855	826	709	601	995	961	945	918	837	748
	PI kW	275	299	310	326	310	296	288	314	325	342	354	334
	qw l/s	43.3	41.6	40.8	39.5	33.9	28.7	47.5	45.9	45.1	43.8	40.0	35.7
	dpw kPa	62	57	55	52	40	29	73	68	66	63	53	44
11	CC kW	950	912	894	863	718	611	1043	1006	989	960	862	747
	PI kW	285	310	321	338	303	288	298	325	336	354	355	334
	qw l/s	45.4	43.6	42.7	41.3	34.3	29.2	49.8	48.1	47.3	45.9	41.2	35.7
	dpw kPa	67	62	60	57	41	30	79	74	72	68	56	44
13	CC kW	993	952	932	886	725	618	1091	1052	1033	1002	879	757
	PI kW	296	322	333	342	293	278	308	336	348	366	351	324
	qw l/s	47.5	45.5	44.6	42.4	34.7	29.6	52.2	50.3	49.4	48.0	42.0	36.2
	dpw kPa	73	67	65	59	41	31	86	81	78	74	58	45
15	CC kW	1037	992	971	893	724	627	1140	1098	1078	1031	879	766
	PI kW	307	334	345	333	302	269	319	348	360	369	351	314
	qw l/s	49.6	47.5	46.5	42.8	34.7	30.0	54.6	52.6	51.6	49.4	42.1	36.7
	dpw kPa	79	73	70	60	41	32	93	87	84	78	58	46

EWAD C-SR

		920						C10					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	958	924	908	880	823	722	1052	1017	1001	972	914	833
	PI kW	299	326	338	356	390	363	319	349	361	381	417	407
	qw l/s	45.6	44.0	43.3	41.9	39.2	34.4	50.1	48.5	47.7	46.3	43.6	39.7
	dpw kPa	68	64	62	58	52	41	63	59	57	55	49	41
7	CC kW	1005	969	952	922	840	729	1105	1068	1050	1020	943	856
	PI kW	310	338	350	369	388	350	331	361	374	394	419	405
	qw l/s	48.0	46.2	45.4	44.0	40.1	34.8	52.7	51.0	50.1	48.7	45.0	40.8
	dpw kPa	74	69	67	63	54	42	69	65	63	60	52	43
9	CC kW	1054	1015	996	964	849	738	1160	1120	1101	1068	971	857
	PI kW	321	350	362	382	378	340	342	373	386	407	420	407
	qw l/s	50.3	48.5	47.6	46.1	40.5	35.2	55.4	53.5	52.6	51.0	46.4	40.9
	dpw kPa	81	75	73	69	55	43	75	71	68	65	55	44
11	CC kW	1103	1061	1041	1007	861	731	1215	1172	1152	1117	1000	866
	PI kW	332	362	375	395	370	349	354	386	400	421	421	394
	qw l/s	52.7	50.7	49.7	48.1	41.2	34.9	58.1	56.0	55.0	53.4	47.8	41.4
	dpw kPa	88	82	79	75	56	42	82	77	74	70	58	44
13	CC kW	1152	1107	1086	1050	871	740	1271	1225	1203	1166	1017	877
	PI kW	344	375	388	409	359	337	367	400	414	436	415	382
	qw l/s	55.1	53.0	51.9	50.2	41.7	35.4	60.8	58.6	57.5	55.8	48.6	41.9
	dpw kPa	95	88	85	80	57	43	89	83	80	76	59	46
15	CC kW	1202	1154	1131	1065	864	752	1328	1278	1255	1200	1016	887
	PI kW	357	389	402	405	367	328	380	414	428	440	414	371
	qw l/s	57.6	55.2	54.1	51.0	41.4	36.0	63.6	61.2	60.1	57.4	48.7	42.5
	dpw kPa	103	95	92	83	57	44	96	90	87	80	59	47

		C11						C12					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	1138	1104	1087	1059	1001	959	1301	1259	1240	1206	1137	1071
	PI kW	338	369	382	403	441	467	370	404	418	441	482	498
	qw l/s	54.2	52.6	51.8	50.5	47.7	45.7	62.0	60.0	59.1	57.5	54.2	51.0
	dpw kPa	72	68	67	64	57	53	53	50	48	46	41	37
7	CC kW	1196	1159	1142	1112	1051	978	1371	1327	1306	1270	1197	1107
	PI kW	349	381	395	416	456	464	383	418	433	456	498	499
	qw l/s	57.0	55.3	54.5	53.1	50.1	46.7	65.4	63.3	62.3	60.6	57.1	52.8
	dpw kPa	79	75	73	69	63	55	58	55	53	50	45	39
9	CC kW	1255	1216	1197	1165	1100	990	1442	1396	1373	1335	1250	1130
	PI kW	361	394	408	430	470	452	396	433	448	472	511	492
	qw l/s	59.9	58.1	57.2	55.6	52.5	47.3	68.9	66.7	65.6	63.8	59.7	54.0
	dpw kPa	86	82	79	76	68	56	63	60	58	55	49	41
11	CC kW	1315	1273	1253	1219	1150	1005	1514	1464	1440	1400	1288	1139
	PI kW	373	407	422	444	486	442	410	447	463	488	512	477
	qw l/s	62.9	60.8	59.9	58.3	55.0	48.0	72.4	70.0	68.8	66.9	61.5	54.5
	dpw kPa	94	89	86	82	74	58	69	65	63	60	52	42
13	CC kW	1376	1331	1310	1274	1163	1016	1586	1532	1507	1465	1328	1145
	PI kW	386	421	436	459	477	430	424	463	479	505	515	476
	qw l/s	65.8	63.7	62.7	60.9	55.6	48.6	75.9	73.3	72.1	70.1	63.6	54.8
	dpw kPa	102	96	94	89	76	59	75	71	69	65	55	42
15	CC kW	1438	1390	1367	1329	1172	1006	1659	1602	1575	1530	1342	1158
	PI kW	399	435	450	474	464	439	439	479	495	522	503	463
	qw l/s	68.8	66.5	65.4	63.6	56.1	48.2	79.4	76.7	75.4	73.3	64.2	55.5
	dpw kPa	111	104	101	96	77	58	82	77	75	71	56	43

EWAD C-SR

			H14						C13					
Twout	Ta		25	30	32	35	40	43	25	30	32	35	40	43
5	CC	kW	1360	1314	1292	1254	1179	1090	1399	1356	1336	1300	1227	1153
	PI	kW	399	437	453	478	524	532	420	459	475	501	548	563
	qw	l/s	64.8	62.6	61.6	59.8	56.2	52.0	66.7	64.6	63.7	62.0	58.5	55.0
	dpw	kPa	57	53	52	49	44	38	47	44	43	41	37	33
7	CC	kW	1431	1383	1360	1321	1238	1105	1473	1427	1405	1367	1289	1199
	PI	kW	413	452	469	495	541	518	435	474	491	518	566	570
	qw	l/s	68.3	66.0	64.9	63.0	59.1	52.7	70.3	68.1	67.0	65.2	61.5	57.2
	dpw	kPa	62	59	57	54	48	39	52	49	47	45	41	36
9	CC	kW	1503	1452	1427	1386	1285	1116	1549	1499	1475	1435	1338	1231
	PI	kW	427	468	485	512	552	500	450	491	508	535	575	569
	qw	l/s	71.8	69.3	68.2	66.2	61.4	53.3	74.0	71.6	70.4	68.5	63.9	58.8
	dpw	kPa	68	64	62	59	52	40	57	53	52	49	44	37
11	CC	kW	1576	1520	1494	1451	1300	1130	1626	1572	1546	1503	1387	1237
	PI	kW	442	484	501	529	538	485	465	507	525	553	582	564
	qw	l/s	75.3	72.7	71.4	69.3	62.1	54.0	77.7	75.1	73.9	71.9	66.3	59.1
	dpw	kPa	74	70	68	64	53	41	62	58	56	54	46	38
13	CC	kW	1650	1590	1562	1516	1319	1125	1704	1646	1619	1573	1437	1256
	PI	kW	458	500	519	547	527	495	482	525	543	572	591	552
	qw	l/s	78.9	76.1	74.7	72.5	63.1	53.8	81.5	78.7	77.4	75.2	68.8	60.1
	dpw	kPa	81	76	73	70	54	41	67	63	61	58	50	39
15	CC	kW	1725	1661	1631	1581	1334	1141	1783	1721	1692	1643	1464	1271
	PI	kW	474	518	536	566	513	480	498	543	562	592	585	536
	qw	l/s	82.6	79.5	78.1	75.7	63.9	54.6	85.3	82.4	81.0	78.6	70.1	60.8
	dpw	kPa	88	82	79	75	55	42	73	69	67	63	51	40

			C14						C15					
Twout	Ta		25	30	32	35	40	43	25	30	32	35	40	43
5	CC	kW	1521	1469	1444	1401	1313	1187	1604	1550	1525	1481	1392	1261
	PI	kW	468	510	528	557	609	590	489	534	553	583	638	617
	qw	l/s	72.5	70.0	68.8	66.8	62.6	56.6	76.4	73.9	72.7	70.6	66.4	60.1
	dpw	kPa	61	57	55	52	47	39	67	63	61	58	52	43
7	CC	kW	1600	1544	1517	1471	1358	1218	1688	1630	1603	1556	1441	1293
	PI	kW	485	529	547	577	617	585	506	553	572	603	645	607
	qw	l/s	76.4	73.7	72.4	70.2	64.8	58.1	80.5	77.8	76.5	74.2	68.7	61.7
	dpw	kPa	67	62	60	57	50	41	73	69	67	63	55	45
9	CC	kW	1681	1620	1591	1542	1389	1232	1773	1711	1681	1631	1471	1327
	PI	kW	503	548	567	597	611	569	524	572	592	624	635	601
	qw	l/s	80.3	77.4	76.0	73.6	66.4	58.8	84.7	81.7	80.3	77.9	70.3	63.4
	dpw	kPa	73	68	66	62	52	42	80	75	73	69	57	48
11	CC	kW	1763	1697	1666	1614	1423	1229	1859	1792	1761	1708	1511	1345
	PI	kW	521	568	587	619	606	574	543	592	613	646	631	620
	qw	l/s	84.3	81.1	79.6	77.1	68.0	58.7	88.9	85.7	84.2	81.6	72.2	64.3
	dpw	kPa	80	74	72	68	54	42	87	82	79	75	60	49
13	CC	kW	1846	1775	1742	1686	1448	1245	1947	1875	1841	1785	1548	1374
	PI	kW	540	588	608	640	597	557	563	613	635	668	625	610
	qw	l/s	88.3	84.9	83.3	80.7	69.3	59.6	93.1	89.7	88.1	85.4	74.0	65.8
	dpw	kPa	86	81	78	73	56	43	95	89	86	81	63	51
15	CC	kW	1930	1854	1818	1728	1454	1260	2035	1958	1922	1830	1562	1387
	PI	kW	560	609	630	643	593	539	583	635	657	670	639	589
	qw	l/s	92.4	88.7	87.0	82.7	69.6	60.3	97.4	93.8	92.0	87.6	74.8	66.4
	dpw	kPa	94	87	84	77	56	44	103	96	93	85	64	52

EWAD C-SR

		C16						C17					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	1679	1622	1595	1548	1452	1311	1786	1722	1690	1636	1510	1308
	PI kW	524	572	592	625	684	662	567	620	643	679	734	667
	qw l/s	80.0	77.3	76.0	73.8	69.2	62.5	85.1	82.1	80.6	78.0	72.0	62.3
	dpw kPa	73	69	67	63	56	47	35	33	32	30	26	20
7	CC kW	1764	1703	1673	1623	1495	1331	1872	1804	1771	1714	1532	1329
	PI kW	542	592	613	647	689	647	587	642	665	702	719	648
	qw l/s	84.2	81.2	79.8	77.4	71.3	63.5	89.3	86.1	84.5	81.8	73.1	63.4
	dpw kPa	80	75	73	69	60	48	39	36	35	33	27	21
9	CC kW	1850	1784	1752	1699	1532	1351	1960	1886	1851	1791	1548	1314
	PI kW	561	613	635	669	685	631	607	664	688	727	698	662
	qw l/s	88.4	85.2	83.7	81.1	73.2	64.5	93.6	90.1	88.4	85.5	73.9	62.8
	dpw kPa	87	82	79	75	62	50	42	39	38	36	27	20
11	CC kW	1937	1866	1833	1775	1565	1348	2048	1969	1931	1868	1569	1336
	PI kW	581	634	657	692	678	636	629	687	712	752	680	645
	qw l/s	92.6	89.2	87.6	84.9	74.8	64.4	97.9	94.1	92.3	89.3	75.0	63.9
	dpw kPa	95	89	86	81	65	50	45	42	41	38	28	21
13	CC kW	2026	1949	1913	1853	1583	1365	2137	2052	2012	1926	1592	1353
	PI kW	602	657	680	716	661	617	651	712	737	766	664	622
	qw l/s	96.9	93.2	91.5	88.6	75.7	65.3	102.2	98.2	96.2	92.1	76.2	64.7
	dpw kPa	103	96	93	88	66	51	49	46	44	41	29	22
15	CC kW	2115	2033	1994	1898	1587	1374	2227	2136	2093	1950	1577	1375
	PI kW	624	680	704	719	670	609	675	737	763	753	674	603
	qw l/s	101.2	97.3	95.5	90.9	76.0	65.8	106.6	102.2	100.2	93.3	75.5	65.8
	dpw kPa	112	104	100	92	67	51	53	49	47	42	28	22

		C18						C19					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	1857	1795	1765	1713	1606	1433	1904	1839	1807	1752	1637	1421
	PI kW	578	633	657	695	764	726	607	667	693	734	808	737
	qw l/s	88.5	85.6	84.1	81.7	76.5	68.3	90.8	87.6	86.1	83.5	78.0	67.7
	dpw kPa	38	36	35	33	29	24	40	37	36	34	30	23
7	CC kW	1947	1881	1849	1795	1648	1456	1996	1926	1891	1833	1662	1445
	PI kW	597	654	679	718	762	707	628	689	716	758	794	716
	qw l/s	92.9	89.7	88.2	85.6	78.6	69.5	95.2	91.9	90.2	87.5	79.3	68.9
	dpw kPa	41	39	38	36	31	25	43	41	39	37	31	24
9	CC kW	2038	1968	1934	1876	1687	1452	2089	2013	1977	1915	1682	1431
	PI kW	617	676	701	742	754	707	649	712	740	783	771	726
	qw l/s	97.3	94.0	92.3	89.6	80.6	69.3	99.8	96.1	94.4	91.4	80.3	68.3
	dpw kPa	45	42	41	39	32	24	47	44	43	40	32	24
11	CC kW	2131	2055	2019	1957	1715	1475	2183	2101	2062	1997	1706	1456
	PI kW	638	699	725	766	741	689	671	737	765	809	752	708
	qw l/s	101.9	98.2	96.5	93.6	82.0	70.5	104.3	100.4	98.6	95.4	81.5	69.6
	dpw kPa	49	46	44	42	33	25	51	48	46	43	33	25
13	CC kW	2225	2143	2105	2040	1733	1494	2277	2190	2149	2079	1724	1477
	PI kW	660	722	749	792	720	667	694	762	790	836	728	685
	qw l/s	106.4	102.5	100.7	97.6	82.9	71.5	108.9	104.8	102.8	99.5	82.5	70.6
	dpw kPa	53	49	48	45	34	26	55	51	50	47	33	25
15	CC kW	2320	2232	2191	2094	1731	1505	2373	2279	2235	2120	1711	1501
	PI kW	683	747	774	798	720	658	718	788	817	835	737	665
	qw l/s	111.0	106.9	104.9	100.3	82.9	72.1	113.6	109.1	107.0	101.5	81.9	71.9
	dpw kPa	57	53	51	47	34	26	59	55	53	48	33	26

Fluid: Water

Ta: Condenser inlet air temperature; Twout: Evaporator leaving water temperature (Δt 5°C)

CC: Cooling capacity; PI: Power input; qw: Fluid flow rate; dpw: Fluid pressure drop

* For working condition where dpw value is "Italic-Red Color" please contact factory

EWAD C-XS

			760					830						
Twout	Ta		25	30	32	35	40	43	25	30	32	35	40	43
5	CC	kW	756	736	728	715	687	667	829	807	798	784	755	735
	PI	kW	192	209	216	226	245	257	208	227	235	246	267	280
	qw	l/s	36.0	35.1	34.7	34.1	32.8	31.8	39.5	38.5	38.0	37.4	36.0	35.0
	dpw	kPa	80	77	75	73	68	64	57	54	53	51	48	46
7	CC	kW	799	779	770	756	727	706	877	855	845	830	800	777
	PI	kW	197	215	222	233	252	265	214	233	241	253	274	288
	qw	l/s	38.1	37.2	36.8	36.1	34.7	33.7	41.8	40.8	40.3	39.6	38.2	37.1
	dpw	kPa	89	85	83	81	75	71	63	60	59	57	53	50
9	CC	kW	843	822	813	798	768	746	923	901	892	877	845	822
	PI	kW	203	221	228	239	259	272	220	240	248	260	282	295
	qw	l/s	40.2	39.3	38.8	38.1	36.7	35.6	44.1	43.0	42.6	41.9	40.4	39.2
	dpw	kPa	98	94	92	89	83	79	69	66	65	63	59	56
11	CC	kW	887	865	856	840	809	786	970	948	938	922	891	867
	PI	kW	208	227	234	246	266	280	225	246	254	267	289	304
	qw	l/s	42.4	41.4	40.9	40.2	38.7	37.6	46.4	45.3	44.8	44.1	42.6	41.4
	dpw	kPa	108	103	101	98	91	87	75	72	71	69	65	62
13	CC	kW	931	909	899	883	850	826	1018	995	985	968	935	911
	PI	kW	214	233	241	253	274	287	231	252	261	274	297	312
	qw	l/s	44.5	43.5	43.0	42.2	40.7	39.5	48.7	47.6	47.1	46.3	44.7	43.6
	dpw	kPa	118	113	111	107	100	95	82	79	78	75	71	67
15	CC	kW	977	953	943	926	892	867	1064	1041	1031	1014	980	955
	PI	kW	220	239	247	260	281	295	237	259	267	281	304	320
	qw	l/s	46.8	45.6	45.1	44.3	42.7	41.5	50.9	49.8	49.4	48.6	46.9	45.7
	dpw	kPa	129	123	121	117	109	104	89	86	84	82	77	73

			890					990						
Twout	Ta		25	30	32	35	40	43	25	30	32	35	40	43
5	CC	kW	889	866	856	840	808	785	1001	974	963	945	908	881
	PI	kW	229	249	257	270	293	308	253	275	284	298	323	339
	qw	l/s	42.4	41.3	40.8	40.1	38.5	37.4	47.7	46.4	45.9	45.0	43.3	42.0
	dpw	kPa	64	61	60	58	54	51	61	58	57	55	51	48
7	CC	kW	940	916	906	889	855	829	1060	1033	1021	1001	962	933
	PI	kW	235	256	265	278	301	316	260	283	293	307	332	349
	qw	l/s	44.9	43.7	43.2	42.4	40.8	39.6	50.6	49.3	48.7	47.8	45.9	44.5
	dpw	kPa	71	68	66	64	60	57	68	64	63	61	57	54
9	CC	kW	986	964	955	939	902	876	1121	1092	1079	1059	1017	987
	PI	kW	241	263	272	286	310	325	268	292	301	316	342	359
	qw	l/s	47.1	46.0	45.6	44.8	43.1	41.8	53.5	52.1	51.6	50.6	48.6	47.1
	dpw	kPa	77	74	73	71	66	63	75	71	70	68	63	59
11	CC	kW	1032	1010	1000	983	950	923	1182	1152	1139	1117	1074	1042
	PI	kW	247	270	279	293	318	334	276	300	310	325	352	369
	qw	l/s	49.3	48.3	47.8	47.0	45.4	44.1	56.5	55.1	54.4	53.4	51.3	49.8
	dpw	kPa	84	81	80	77	73	69	82	79	77	74	69	66
13	CC	kW	1079	1056	1046	1028	993	968	1245	1214	1200	1177	1131	1098
	PI	kW	254	276	286	300	326	343	283	309	319	335	362	380
	qw	l/s	51.6	50.5	50.0	49.2	47.5	46.3	59.5	58.1	57.4	56.3	54.1	52.5
	dpw	kPa	91	88	86	84	79	75	90	86	85	82	76	72
15	CC	kW	1127	1103	1092	1074	1037	1010	1308	1275	1261	1237	1189	1155
	PI	kW	260	283	293	308	334	351	292	318	328	344	373	391
	qw	l/s	54.0	52.8	52.3	51.4	49.7	48.4	62.6	61.0	60.4	59.2	56.9	55.3
	dpw	kPa	99	95	93	91	85	81	99	95	93	90	83	79

EWAD C-XS

			C10						C11					
Twout	Ta		25	30	32	35	40	43	25	30	32	35	40	43
5	CC	kW	1076	1047	1035	1014	973	942	1194	1164	1151	1130	1088	1058
	PI	kW	278	302	312	328	355	373	299	326	337	354	383	402
	qw	l/s	51.3	49.9	49.3	48.3	46.4	44.9	56.9	55.5	54.9	53.9	51.9	50.4
	dpw	kPa	69	66	65	62	58	54	45	43	42	41	38	36
7	CC	kW	1139	1109	1096	1074	1029	997	1263	1231	1218	1196	1152	1120
	PI	kW	286	312	322	338	366	384	307	335	346	364	394	413
	qw	l/s	54.4	52.9	52.3	51.2	49.1	47.6	60.3	58.7	58.1	57.1	55.0	53.4
	dpw	kPa	77	73	72	69	64	60	50	48	47	45	42	40
9	CC	kW	1202	1171	1158	1135	1088	1053	1333	1300	1286	1264	1217	1184
	PI	kW	295	321	331	348	377	396	316	344	356	374	405	425
	qw	l/s	57.4	55.9	55.3	54.2	51.9	50.3	63.7	62.1	61.4	60.3	58.1	56.5
	dpw	kPa	85	81	79	76	71	67	55	53	52	50	47	44
11	CC	kW	1266	1234	1219	1195	1147	1111	1405	1370	1356	1332	1284	1248
	PI	kW	303	330	341	358	388	407	324	354	365	384	416	436
	qw	l/s	60.5	59.0	58.3	57.1	54.8	53.1	67.1	65.5	64.8	63.7	61.4	59.7
	dpw	kPa	93	89	87	84	78	74	61	58	57	55	51	49
13	CC	kW	1330	1296	1281	1256	1205	1168	1478	1442	1427	1401	1350	1314
	PI	kW	312	340	351	368	399	419	333	363	375	394	427	448
	qw	l/s	63.6	62.0	61.3	60.1	57.7	55.9	70.7	69.0	68.3	67.0	64.6	62.8
	dpw	kPa	102	97	95	92	85	81	66	64	62	60	56	54
15	CC	kW	1395	1360	1344	1318	1264	1226	1552	1515	1499	1472	1419	1380
	PI	kW	321	349	361	379	411	431	342	373	386	405	438	460
	qw	l/s	66.8	65.1	64.3	63.1	60.5	58.7	74.3	72.5	71.8	70.5	67.9	66.1
	dpw	kPa	111	106	104	100	93	88	73	70	68	66	62	59

			C12						C13					
Twout	Ta		25	30	32	35	40	43	25	30	32	35	40	43
5	CC	kW	1280	1248	1234	1211	1165	1130	1352	1314	1298	1271	1218	1179
	PI	kW	329	359	371	389	422	443	337	367	379	398	430	451
	qw	l/s	61.0	59.5	58.8	57.7	55.5	53.9	64.4	62.6	61.9	60.6	58.0	56.2
	dpw	kPa	51	49	48	46	43	41	68	64	63	61	56	53
7	CC	kW	1353	1319	1304	1280	1231	1195	1433	1394	1377	1349	1292	1250
	PI	kW	338	369	381	400	434	456	348	378	391	410	444	465
	qw	l/s	64.5	62.9	62.2	61.1	58.7	57.0	68.4	66.5	65.7	64.4	61.6	59.6
	dpw	kPa	56	54	53	51	48	45	75	72	70	68	62	59
9	CC	kW	1425	1391	1375	1350	1299	1261	1518	1476	1458	1428	1368	1324
	PI	kW	348	379	392	411	446	468	359	390	403	423	457	479
	qw	l/s	68.1	66.4	65.7	64.5	62.0	60.2	72.5	70.5	69.6	68.2	65.3	63.2
	dpw	kPa	62	59	58	56	53	50	84	80	78	75	69	65
11	CC	kW	1500	1463	1447	1421	1367	1327	1605	1561	1541	1509	1445	1398
	PI	kW	357	389	402	423	458	481	370	403	416	436	471	494
	qw	l/s	71.7	70.0	69.2	67.9	65.3	63.5	76.7	74.6	73.7	72.1	69.1	66.8
	dpw	kPa	68	65	64	62	58	55	93	88	86	83	77	72
13	CC	kW	1576	1538	1521	1493	1436	1395	1694	1648	1627	1592	1524	1475
	PI	kW	367	400	414	434	471	495	382	415	429	450	486	509
	qw	l/s	75.4	73.6	72.8	71.4	68.7	66.7	81.0	78.8	77.8	76.2	72.9	70.5
	dpw	kPa	75	71	70	68	63	60	102	97	95	91	84	80
15	CC	kW	1655	1614	1596	1566	1506	1463	1784	1735	1713	1677	1605	1553
	PI	kW	378	411	425	446	484	508	394	428	442	464	501	525
	qw	l/s	79.2	77.3	76.4	75.0	72.1	70.0	85.4	83.1	82.0	80.3	76.8	74.3
	dpw	kPa	82	78	76	74	69	65	112	107	104	100	93	87

EWAD C-XS

		H14						H15					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	1422	1382	1365	1337	1279	1236	1536	1493	1474	1442	1376	1328
	PI kW	363	396	409	430	467	491	388	424	438	461	502	529
	qw l/s	67.8	65.9	65.1	63.7	61.0	58.9	73.2	71.2	70.2	68.7	65.6	63.3
	dpw kPa	78	74	73	70	65	61	85	81	79	76	70	66
7	CC kW	1505	1464	1445	1415	1353	1308	1626	1580	1559	1525	1455	1404
	PI kW	374	408	421	443	481	505	400	437	452	475	517	545
	qw l/s	71.8	69.8	69.0	67.5	64.6	62.4	77.6	75.4	74.4	72.8	69.4	67.0
	dpw kPa	87	82	81	77	72	67	95	90	88	84	77	73
9	CC kW	1590	1547	1527	1495	1429	1382	1714	1667	1647	1610	1536	1482
	PI kW	385	420	434	456	495	521	412	450	466	490	533	561
	qw l/s	75.9	73.9	72.9	71.4	68.3	66.0	81.9	79.6	78.6	76.9	73.3	70.8
	dpw kPa	96	91	89	86	79	74	104	99	97	93	85	80
11	CC kW	1676	1630	1610	1576	1507	1457	1804	1754	1731	1694	1618	1561
	PI kW	397	433	448	470	511	536	424	463	479	505	550	578
	qw l/s	80.1	77.9	76.9	75.3	72.0	69.6	86.2	83.8	82.8	81.0	77.3	74.6
	dpw kPa	105	100	98	94	87	82	114	109	106	102	94	88
13	CC kW	1762	1714	1693	1657	1585	1533	1896	1842	1818	1778	1698	1641
	PI kW	409	446	461	484	526	552	437	477	494	520	566	596
	qw l/s	84.3	82.0	81.0	79.3	75.8	73.3	90.7	88.1	87.0	85.1	81.2	78.5
	dpw kPa	115	110	107	103	95	90	125	119	116	111	103	97
15	CC kW	1850	1799	1776	1738	1664	1609	1990	1932	1907	1864	1779	1719
	PI kW	421	459	475	499	542	569	450	491	509	535	583	613
	qw l/s	88.6	86.1	85.0	83.2	79.6	77.1	95.3	92.5	91.3	89.2	85.2	82.3
	dpw kPa	126	120	117	113	104	98	137	130	127	121	112	105

		C16						C17					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	1599	1559	1541	1511	1451	1406	1686	1645	1627	1597	1535	1490
	PI kW	414	451	466	489	531	558	439	478	494	519	563	592
	qw l/s	76.2	74.3	73.4	72.0	69.2	67.0	80.4	78.4	77.5	76.1	73.2	71.0
	dpw kPa	62	59	58	56	52	49	68	65	64	62	58	55
7	CC kW	1686	1645	1626	1596	1533	1486	1778	1735	1716	1685	1621	1573
	PI kW	426	464	479	503	546	574	451	491	508	533	579	608
	qw l/s	80.4	78.5	77.6	76.1	73.1	70.9	84.8	82.8	81.9	80.4	77.3	75.0
	dpw kPa	69	66	64	62	58	55	75	72	71	68	64	60
9	CC kW	1776	1732	1713	1681	1615	1568	1872	1827	1807	1774	1707	1658
	PI kW	438	477	493	518	562	590	463	505	522	548	595	625
	qw l/s	84.8	82.7	81.8	80.3	77.1	74.9	89.4	87.2	86.3	84.7	81.5	79.2
	dpw kPa	75	72	71	68	64	60	83	79	78	75	70	67
11	CC kW	1868	1822	1801	1767	1698	1648	1969	1921	1900	1865	1794	1742
	PI kW	450	490	507	532	577	607	476	518	536	563	611	642
	qw l/s	89.3	87.1	86.1	84.5	81.2	78.8	94.1	91.8	90.8	89.1	85.8	83.3
	dpw kPa	83	79	77	75	70	66	91	87	85	82	77	73
13	CC kW	1962	1914	1892	1856	1783	1730	2067	2017	1995	1958	1883	1828
	PI kW	463	504	521	547	593	623	489	533	551	578	627	659
	qw l/s	93.9	91.5	90.5	88.8	85.3	82.7	98.9	96.5	95.4	93.7	90.1	87.5
	dpw kPa	90	86	85	82	76	72	99	95	93	90	84	80
15	CC kW	2059	2007	1984	1946	1869	1813	2168	2116	2092	2052	1973	1916
	PI kW	476	518	536	562	610	641	503	548	566	594	645	677
	qw l/s	98.6	96.1	95.0	93.2	89.5	86.8	103.8	101.3	100.1	98.3	94.5	91.7
	dpw kPa	99	94	92	89	83	78	108	104	102	98	91	87

EWAD C-XS

		C18						C19					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	1768	1724	1706	1675	1612	1565	1857	1812	1792	1761	1696	1649
	PI kW	462	503	520	546	593	623	485	529	547	574	624	656
	qw l/s	84.3	82.2	81.3	79.8	76.8	74.6	88.5	86.3	85.4	83.9	80.9	78.6
	dpw kPa	68	65	64	62	58	55	74	71	70	67	63	60
7	CC kW	1866	1820	1801	1768	1702	1653	1959	1912	1892	1858	1790	1740
	PI kW	474	517	534	561	609	640	498	543	562	590	640	673
	qw l/s	89.0	86.9	85.9	84.4	81.2	78.8	93.5	91.2	90.2	88.6	85.4	83.0
	dpw kPa	75	72	70	68	64	60	82	78	77	74	70	66
9	CC kW	1967	1919	1898	1863	1793	1742	2065	2015	1993	1958	1886	1833
	PI kW	487	531	549	577	626	658	512	558	577	606	657	691
	qw l/s	93.9	91.6	90.6	89.0	85.6	83.2	98.6	96.2	95.2	93.5	90.1	87.5
	dpw kPa	83	79	77	75	70	66	90	86	85	82	77	73
11	CC kW	2070	2020	1998	1961	1887	1832	2173	2121	2098	2060	1984	1928
	PI kW	501	546	564	592	643	675	526	573	592	622	675	709
	qw l/s	99.0	96.5	95.5	93.7	90.2	87.6	103.8	101.4	100.3	98.5	94.8	92.2
	dpw kPa	91	87	85	82	77	73	99	95	93	90	84	80
13	CC kW	2176	2123	2100	2061	1982	1925	2283	2229	2205	2165	2084	2025
	PI kW	515	561	580	609	660	694	540	589	608	639	693	728
	qw l/s	104.1	101.6	100.5	98.6	94.8	92.1	109.2	106.6	105.5	103.6	99.7	96.9
	dpw kPa	99	95	93	90	84	80	108	104	102	98	92	87
15	CC kW	2285	2229	2204	2163	2080	2020	2397	2339	2314	2271	2186	2125
	PI kW	530	577	596	626	679	713	555	605	625	656	712	748
	qw l/s	109.4	106.7	105.5	103.5	99.6	96.7	114.8	112.0	110.8	108.7	104.7	101.7
	dpw kPa	108	104	102	98	92	87	118	113	111	107	100	95

		C20						C21					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	1901	1857	1839	1808	1743	1694	1955	1910	1891	1858	1790	1738
	PI kW	504	550	569	599	653	688	526	575	596	627	685	723
	qw l/s	90.6	88.5	87.6	86.2	83.1	80.7	93.2	91.0	90.1	88.6	85.3	82.8
	dpw kPa	39	37	37	35	33	32	41	39	38	37	35	33
7	CC kW	1999	1953	1933	1901	1833	1783	2055	2008	1987	1953	1882	1828
	PI kW	516	564	584	614	669	705	539	590	610	643	702	741
	qw l/s	95.4	93.2	92.2	90.7	87.5	85.1	98.0	95.8	94.8	93.2	89.8	87.2
	dpw kPa	43	41	40	39	36	35	45	43	42	41	38	36
9	CC kW	2098	2051	2030	1996	1925	1872	2157	2108	2086	2049	1974	1918
	PI kW	529	578	598	629	686	722	552	604	626	659	719	759
	qw l/s	100.2	97.9	96.9	95.3	91.9	89.4	103.0	100.6	99.6	97.9	94.3	91.6
	dpw kPa	47	45	44	43	40	38	49	47	46	45	42	40
11	CC kW	2200	2151	2129	2092	2018	1963	2261	2209	2186	2148	2069	2010
	PI kW	542	593	613	645	703	740	566	619	641	676	737	778
	qw l/s	105.2	102.8	101.8	100.0	96.4	93.8	108.1	105.6	104.5	102.7	98.9	96.1
	dpw kPa	51	49	48	46	43	41	53	51	50	49	45	43
13	CC kW	2304	2252	2229	2191	2113	2055	2367	2313	2289	2248	2165	2104
	PI kW	556	607	629	661	720	759	580	635	657	693	756	797
	qw l/s	110.2	107.8	106.7	104.8	101.1	98.3	113.2	110.6	109.5	107.5	103.6	100.6
	dpw kPa	55	53	52	50	47	45	58	56	55	53	49	47
15	CC kW	2411	2356	2332	2291	2209	2149	2476	2419	2393	2350	2263	2199
	PI kW	570	623	644	678	738	778	595	651	674	710	775	817
	qw l/s	115.4	112.8	111.6	109.7	105.8	102.9	118.5	115.8	114.6	112.5	108.3	105.3
	dpw kPa	60	58	56	55	51	49	63	60	59	57	53	51

EWAD C-XS

		C22						
Twout	Ta	25	30	32	35	40	43	
5	CC kW	2013	1966	1946	1912	1840	1786	
	PI kW	549	601	622	656	718	758	
	qw l/s	95.9	93.7	92.7	91.1	87.7	85.1	
	dpw kPa	43	41	41	39	37	35	
7	CC kW	2115	2066	2044	2008	1933	1876	
	PI kW	562	616	638	672	735	777	
	qw l/s	100.9	98.6	97.5	95.8	92.2	89.5	
	dpw kPa	47	45	44	43	40	38	
9	CC kW	2219	2168	2145	2106	2027	1968	
	PI kW	576	631	654	689	754	796	
	qw l/s	106.0	103.5	102.4	100.6	96.8	94.0	
	dpw kPa	51	49	48	47	44	41	
11	CC kW	2325	2271	2247	2207	2123	2061	
	PI kW	590	647	670	706	772	816	
	qw l/s	111.1	108.6	107.4	105.5	101.5	98.5	
	dpw kPa	56	54	53	51	48	45	
13	CC kW	2434	2377	2352	2309	2221	2156	
	PI kW	605	663	687	724	792	836	
	qw l/s	116.4	113.7	112.5	110.4	106.2	103.1	
	dpw kPa	61	58	57	55	52	49	
15	CC kW	2545	2485	2458	2412	2320	2252	
	PI kW	620	680	704	743	812	857	
	qw l/s	121.8	119.0	117.7	115.5	111.1	107.8	
	dpw kPa	66	63	62	60	56	53	

Fluid: Water

Ta: Condenser inlet air temperature; Twout: Evaporator leaving water temperature (Δt 5°C)

CC: Cooling capacity; PI: Power input; qw: Fluid flow rate; dpw: Fluid pressure drop

* For working condition where dpw value is "Italic-Red Color" please contact factory

EWAD C-XL

		760						830					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	756	736	728	715	687	667	829	807	798	784	755	735
	PI kW	192	209	216	226	245	257	208	227	235	246	267	280
	qw l/s	36.0	35.1	34.7	34.1	32.8	31.8	39.5	38.5	38.0	37.4	36.0	35.0
	dpw kPa	80	77	75	73	68	64	57	54	53	51	48	46
7	CC kW	799	779	770	756	727	706	877	855	845	830	800	777
	PI kW	197	215	222	233	252	265	214	233	241	253	274	288
	qw l/s	38.1	37.2	36.8	36.1	34.7	33.7	41.8	40.8	40.3	39.6	38.2	37.1
	dpw kPa	89	85	83	81	75	71	63	60	59	57	53	50
9	CC kW	843	822	813	798	768	746	923	901	892	877	845	822
	PI kW	203	221	228	239	259	272	220	240	248	260	282	295
	qw l/s	40.2	39.3	38.8	38.1	36.7	35.6	44.1	43.0	42.6	41.9	40.4	39.2
	dpw kPa	98	94	92	89	83	79	69	66	65	63	59	56
11	CC kW	887	865	856	840	809	786	970	948	938	922	891	867
	PI kW	208	227	234	246	266	280	225	246	254	267	289	304
	qw l/s	42.4	41.4	40.9	40.2	38.7	37.6	46.4	45.3	44.8	44.1	42.6	41.4
	dpw kPa	108	103	101	98	91	87	75	72	71	69	65	62
13	CC kW	931	909	899	883	850	826	1018	995	985	968	935	911
	PI kW	214	233	241	253	274	287	231	252	261	274	297	312
	qw l/s	44.5	43.5	43.0	42.2	40.7	39.5	48.7	47.6	47.1	46.3	44.7	43.6
	dpw kPa	118	113	111	107	100	95	82	79	78	75	71	67
15	CC kW	977	953	943	926	892	867	1064	1041	1031	1014	980	955
	PI kW	220	239	247	260	281	295	237	259	267	281	304	320
	qw l/s	46.8	45.6	45.1	44.3	42.7	41.5	50.9	49.8	49.4	48.6	46.9	45.7
	dpw kPa	129	123	121	117	109	104	89	86	84	82	77	73

		890						990					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	889	866	856	840	808	785	1001	974	963	945	908	881
	PI kW	229	249	257	270	293	308	253	275	284	298	323	339
	qw l/s	42.4	41.3	40.8	40.1	38.5	37.4	47.7	46.4	45.9	45.0	43.3	42.0
	dpw kPa	64	61	60	58	54	51	61	58	57	55	51	48
7	CC kW	940	916	906	889	855	829	1060	1033	1021	1001	962	933
	PI kW	235	256	265	278	301	316	260	283	293	307	332	349
	qw l/s	44.9	43.7	43.2	42.4	40.8	39.6	50.6	49.3	48.7	47.8	45.9	44.5
	dpw kPa	71	68	66	64	60	57	68	64	63	61	57	54
9	CC kW	986	964	955	939	902	876	1121	1092	1079	1059	1017	987
	PI kW	241	263	272	286	310	325	268	292	301	316	342	359
	qw l/s	47.1	46.0	45.6	44.8	43.1	41.8	53.5	52.1	51.6	50.6	48.6	47.1
	dpw kPa	77	74	73	71	66	63	75	71	70	68	63	59
11	CC kW	1032	1010	1000	983	950	923	1182	1152	1139	1117	1074	1042
	PI kW	247	270	279	293	318	334	276	300	310	325	352	369
	qw l/s	49.3	48.3	47.8	47.0	45.4	44.1	56.5	55.1	54.4	53.4	51.3	49.8
	dpw kPa	84	81	80	77	73	69	82	79	77	74	69	66
13	CC kW	1079	1056	1046	1028	993	968	1245	1214	1200	1177	1131	1098
	PI kW	254	276	286	300	326	343	283	309	319	335	362	380
	qw l/s	51.6	50.5	50.0	49.2	47.5	46.3	59.5	58.1	57.4	56.3	54.1	52.5
	dpw kPa	91	88	86	84	79	75	90	86	85	82	76	72
15	CC kW	1127	1103	1092	1074	1037	1010	1308	1275	1261	1237	1189	1155
	PI kW	260	283	293	308	334	351	292	318	328	344	373	391
	qw l/s	54.0	52.8	52.3	51.4	49.7	48.4	62.6	61.0	60.4	59.2	56.9	55.3
	dpw kPa	99	95	93	91	85	81	99	95	93	90	83	79

EWAD C-XL

		C10						C11					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	1076	1047	1035	1014	973	942	1194	1164	1151	1130	1088	1058
	PI kW	278	302	312	328	355	373	299	326	337	354	383	402
	qw l/s	51.3	49.9	49.3	48.3	46.4	44.9	56.9	55.5	54.9	53.9	51.9	50.4
	dpw kPa	69	66	65	62	58	54	45	43	42	41	38	36
7	CC kW	1139	1109	1096	1074	1029	997	1263	1231	1218	1196	1152	1120
	PI kW	286	312	322	338	366	384	307	335	346	364	394	413
	qw l/s	54.4	52.9	52.3	51.2	49.1	47.6	60.3	58.7	58.1	57.1	55.0	53.4
	dpw kPa	77	73	72	69	64	60	50	48	47	45	42	40
9	CC kW	1202	1171	1158	1135	1088	1053	1333	1300	1286	1264	1217	1184
	PI kW	295	321	331	348	377	396	316	344	356	374	405	425
	qw l/s	57.4	55.9	55.3	54.2	51.9	50.3	63.7	62.1	61.4	60.3	58.1	56.5
	dpw kPa	85	81	79	76	71	67	55	53	52	50	47	44
11	CC kW	1266	1234	1219	1195	1147	1111	1405	1370	1356	1332	1284	1248
	PI kW	303	330	341	358	388	407	324	354	365	384	416	436
	qw l/s	60.5	59.0	58.3	57.1	54.8	53.1	67.1	65.5	64.8	63.7	61.4	59.7
	dpw kPa	93	89	87	84	78	74	61	58	57	55	51	49
13	CC kW	1330	1296	1281	1256	1205	1168	1478	1442	1427	1401	1350	1314
	PI kW	312	340	351	368	399	419	333	363	375	394	427	448
	qw l/s	63.6	62.0	61.3	60.1	57.7	55.9	70.7	69.0	68.3	67.0	64.6	62.8
	dpw kPa	102	97	95	92	85	81	66	64	62	60	56	54
15	CC kW	1395	1360	1344	1318	1264	1226	1552	1515	1499	1472	1419	1380
	PI kW	321	349	361	379	411	431	342	373	386	405	438	460
	qw l/s	66.8	65.1	64.3	63.1	60.5	58.7	74.3	72.5	71.8	70.5	67.9	66.1
	dpw kPa	111	106	104	100	93	88	73	70	68	66	62	59

		C12						C13					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	1280	1248	1234	1211	1165	1130	1352	1314	1298	1271	1218	1179
	PI kW	329	359	371	389	422	443	337	367	379	398	430	451
	qw l/s	61.0	59.5	58.8	57.7	55.5	53.9	64.4	62.6	61.9	60.6	58.0	56.2
	dpw kPa	51	49	48	46	43	41	68	64	63	61	56	53
7	CC kW	1353	1319	1304	1280	1231	1195	1433	1394	1377	1349	1292	1250
	PI kW	338	369	381	400	434	456	348	378	391	410	444	465
	qw l/s	64.5	62.9	62.2	61.1	58.7	57.0	68.4	66.5	65.7	64.4	61.6	59.6
	dpw kPa	56	54	53	51	48	45	75	72	70	68	62	59
9	CC kW	1425	1391	1375	1350	1299	1261	1518	1476	1458	1428	1368	1324
	PI kW	348	379	392	411	446	468	359	390	403	423	457	479
	qw l/s	68.1	66.4	65.7	64.5	62.0	60.2	72.5	70.5	69.6	68.2	65.3	63.2
	dpw kPa	62	59	58	56	53	50	84	80	78	75	69	65
11	CC kW	1500	1463	1447	1421	1367	1327	1605	1561	1541	1509	1445	1398
	PI kW	357	389	402	423	458	481	370	403	416	436	471	494
	qw l/s	71.7	70.0	69.2	67.9	65.3	63.5	76.7	74.6	73.7	72.1	69.1	66.8
	dpw kPa	68	65	64	62	58	55	93	88	86	83	77	72
13	CC kW	1576	1538	1521	1493	1436	1395	1694	1648	1627	1592	1524	1475
	PI kW	367	400	414	434	471	495	382	415	429	450	486	509
	qw l/s	75.4	73.6	72.8	71.4	68.7	66.7	81.0	78.8	77.8	76.2	72.9	70.5
	dpw kPa	75	71	70	68	63	60	102	97	95	91	84	80
15	CC kW	1655	1614	1596	1566	1506	1463	1784	1735	1713	1677	1605	1553
	PI kW	378	411	425	446	484	508	394	428	442	464	501	525
	qw l/s	79.2	77.3	76.4	75.0	72.1	70.0	85.4	83.1	82.0	80.3	76.8	74.3
	dpw kPa	82	78	76	74	69	65	112	107	104	100	93	87

EWAD C-XL

		H14						H15					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	1422	1382	1365	1337	1279	1236	1536	1493	1474	1442	1376	1328
	PI kW	363	396	409	430	467	491	388	424	438	461	502	529
	qw l/s	67.8	65.9	65.1	63.7	61.0	58.9	73.2	71.2	70.2	68.7	65.6	63.3
	dpw kPa	78	74	73	70	65	61	85	81	79	76	70	66
7	CC kW	1505	1464	1445	1415	1353	1308	1626	1580	1559	1525	1455	1404
	PI kW	374	408	421	443	481	505	400	437	452	475	517	545
	qw l/s	71.8	69.8	69.0	67.5	64.6	62.4	77.6	75.4	74.4	72.8	69.4	67.0
	dpw kPa	87	82	81	77	72	67	95	90	88	84	77	73
9	CC kW	1590	1547	1527	1495	1429	1382	1714	1667	1647	1610	1536	1482
	PI kW	385	420	434	456	495	521	412	450	466	490	533	561
	qw l/s	75.9	73.9	72.9	71.4	68.3	66.0	81.9	79.6	78.6	76.9	73.3	70.8
	dpw kPa	96	91	89	86	79	74	104	99	97	93	85	80
11	CC kW	1676	1630	1610	1576	1507	1457	1804	1754	1731	1694	1618	1561
	PI kW	397	433	448	470	511	536	424	463	479	505	550	578
	qw l/s	80.1	77.9	76.9	75.3	72.0	69.6	86.2	83.8	82.8	81.0	77.3	74.6
	dpw kPa	105	100	98	94	87	82	114	109	106	102	94	88
13	CC kW	1762	1714	1693	1657	1585	1533	1896	1842	1818	1778	1698	1641
	PI kW	409	446	461	484	526	552	437	477	494	520	566	596
	qw l/s	84.3	82.0	81.0	79.3	75.8	73.3	90.7	88.1	87.0	85.1	81.2	78.5
	dpw kPa	115	110	107	103	95	90	125	119	116	111	103	97
15	CC kW	1850	1799	1776	1738	1664	1609	1990	1932	1907	1864	1779	1719
	PI kW	421	459	475	499	542	569	450	491	509	535	583	613
	qw l/s	88.6	86.1	85.0	83.2	79.6	77.1	95.3	92.5	91.3	89.2	85.2	82.3
	dpw kPa	126	120	117	113	104	98	137	130	127	121	112	105

		C16						C17					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	1599	1559	1541	1511	1451	1406	1686	1645	1627	1597	1535	1490
	PI kW	414	451	466	489	531	558	439	478	494	519	563	592
	qw l/s	76.2	74.3	73.4	72.0	69.2	67.0	80.4	78.4	77.5	76.1	73.2	71.0
	dpw kPa	62	59	58	56	52	49	68	65	64	62	58	55
7	CC kW	1686	1645	1626	1596	1533	1486	1778	1735	1716	1685	1621	1573
	PI kW	426	464	479	503	546	574	451	491	508	533	579	608
	qw l/s	80.4	78.5	77.6	76.1	73.1	70.9	84.8	82.8	81.9	80.4	77.3	75.0
	dpw kPa	69	66	64	62	58	55	75	72	71	68	64	60
9	CC kW	1776	1732	1713	1681	1615	1568	1872	1827	1807	1774	1707	1658
	PI kW	438	477	493	518	562	590	463	505	522	548	595	625
	qw l/s	84.8	82.7	81.8	80.3	77.1	74.9	89.4	87.2	86.3	84.7	81.5	79.2
	dpw kPa	75	72	71	68	64	60	83	79	78	75	70	67
11	CC kW	1868	1822	1801	1767	1698	1648	1969	1921	1900	1865	1794	1742
	PI kW	450	490	507	532	577	607	476	518	536	563	611	642
	qw l/s	89.3	87.1	86.1	84.5	81.2	78.8	94.1	91.8	90.8	89.1	85.8	83.3
	dpw kPa	83	79	77	75	70	66	91	87	85	82	77	73
13	CC kW	1962	1914	1892	1856	1783	1730	2067	2017	1995	1958	1883	1828
	PI kW	463	504	521	547	593	623	489	533	551	578	627	659
	qw l/s	93.9	91.5	90.5	88.8	85.3	82.7	98.9	96.5	95.4	93.7	90.1	87.5
	dpw kPa	90	86	85	82	76	72	99	95	93	90	84	80
15	CC kW	2059	2007	1984	1946	1869	1813	2168	2116	2092	2052	1973	1916
	PI kW	476	518	536	562	610	641	503	548	566	594	645	677
	qw l/s	98.6	96.1	95.0	93.2	89.5	86.8	103.8	101.3	100.1	98.3	94.5	91.7
	dpw kPa	99	94	92	89	83	78	108	104	102	98	91	87

EWAD C-XL

		C18						C19					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	1768	1724	1706	1675	1612	1565	1857	1812	1792	1761	1696	1649
	PI kW	462	503	520	546	593	623	485	529	547	574	624	656
	qw l/s	84.3	82.2	81.3	79.8	76.8	74.6	88.5	86.3	85.4	83.9	80.9	78.6
	dpw kPa	68	65	64	62	58	55	74	71	70	67	63	60
7	CC kW	1866	1820	1801	1768	1702	1653	1959	1912	1892	1858	1790	1740
	PI kW	474	517	534	561	609	640	498	543	562	590	640	673
	qw l/s	89.0	86.9	85.9	84.4	81.2	78.8	93.5	91.2	90.2	88.6	85.4	83.0
	dpw kPa	75	72	70	68	64	60	82	78	77	74	70	66
9	CC kW	1967	1919	1898	1863	1793	1742	2065	2015	1993	1958	1886	1833
	PI kW	487	531	549	577	626	658	512	558	577	606	657	691
	qw l/s	93.9	91.6	90.6	89.0	85.6	83.2	98.6	96.2	95.2	93.5	90.1	87.5
	dpw kPa	83	79	77	75	70	66	90	86	85	82	77	73
11	CC kW	2070	2020	1998	1961	1887	1832	2173	2121	2098	2060	1984	1928
	PI kW	501	546	564	592	643	675	526	573	592	622	675	709
	qw l/s	99.0	96.5	95.5	93.7	90.2	87.6	103.8	101.4	100.3	98.5	94.8	92.2
	dpw kPa	91	87	85	82	77	73	99	95	93	90	84	80
13	CC kW	2176	2123	2100	2061	1982	1925	2283	2229	2205	2165	2084	2025
	PI kW	515	561	580	609	660	694	540	589	608	639	693	728
	qw l/s	104.1	101.6	100.5	98.6	94.8	92.1	109.2	106.6	105.5	103.6	99.7	96.9
	dpw kPa	99	95	93	90	84	80	108	104	102	98	92	87
15	CC kW	2285	2229	2204	2163	2080	2020	2397	2339	2314	2271	2186	2125
	PI kW	530	577	596	626	679	713	555	605	625	656	712	748
	qw l/s	109.4	106.7	105.5	103.5	99.6	96.7	114.8	112.0	110.8	108.7	104.7	101.7
	dpw kPa	108	104	102	98	92	87	118	113	111	107	100	95

		C20						C21					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	1901	1857	1839	1808	1743	1694	1955	1910	1891	1858	1790	1738
	PI kW	504	550	569	599	653	688	526	575	596	627	685	723
	qw l/s	90.6	88.5	87.6	86.2	83.1	80.7	93.2	91.0	90.1	88.6	85.3	82.8
	dpw kPa	39	37	37	35	33	32	41	39	38	37	35	33
7	CC kW	1999	1953	1933	1901	1833	1783	2055	2008	1987	1953	1882	1828
	PI kW	516	564	584	614	669	705	539	590	610	643	702	741
	qw l/s	95.4	93.2	92.2	90.7	87.5	85.1	98.0	95.8	94.8	93.2	89.8	87.2
	dpw kPa	43	41	40	39	36	35	45	43	42	41	38	36
9	CC kW	2098	2051	2030	1996	1925	1872	2157	2108	2086	2049	1974	1918
	PI kW	529	578	598	629	686	722	552	604	626	659	719	759
	qw l/s	100.2	97.9	96.9	95.3	91.9	89.4	103.0	100.6	99.6	97.9	94.3	91.6
	dpw kPa	47	45	44	43	40	38	49	47	46	45	42	40
11	CC kW	2200	2151	2129	2092	2018	1963	2261	2209	2186	2148	2069	2010
	PI kW	542	593	613	645	703	740	566	619	641	676	737	778
	qw l/s	105.2	102.8	101.8	100.0	96.4	93.8	108.1	105.6	104.5	102.7	98.9	96.1
	dpw kPa	51	49	48	46	43	41	53	51	50	49	45	43
13	CC kW	2304	2252	2229	2191	2113	2055	2367	2313	2289	2248	2165	2104
	PI kW	556	607	629	661	720	759	580	635	657	693	756	797
	qw l/s	110.2	107.8	106.7	104.8	101.1	98.3	113.2	110.6	109.5	107.5	103.6	100.6
	dpw kPa	55	53	52	50	47	45	58	56	55	53	49	47
15	CC kW	2411	2356	2332	2291	2209	2149	2476	2419	2393	2350	2263	2199
	PI kW	570	623	644	678	738	778	595	651	674	710	775	817
	qw l/s	115.4	112.8	111.6	109.7	105.8	102.9	118.5	115.8	114.6	112.5	108.3	105.3
	dpw kPa	60	58	56	55	51	49	63	60	59	57	53	51

EWAD C-XL

		C22						
Twout	Ta	25	30	32	35	40	43	
5	CC kW	2013	1966	1946	1912	1840	1786	
	PI kW	549	601	622	656	718	758	
	qw l/s	95.9	93.7	92.7	91.1	87.7	85.1	
	dpw kPa	43	41	41	39	37	35	
7	CC kW	2115	2066	2044	2008	1933	1876	
	PI kW	562	616	638	672	735	777	
	qw l/s	100.9	98.6	97.5	95.8	92.2	89.5	
	dpw kPa	47	45	44	43	40	38	
9	CC kW	2219	2168	2145	2106	2027	1968	
	PI kW	576	631	654	689	754	796	
	qw l/s	106.0	103.5	102.4	100.6	96.8	94.0	
	dpw kPa	51	49	48	47	44	41	
11	CC kW	2325	2271	2247	2207	2123	2061	
	PI kW	590	647	670	706	772	816	
	qw l/s	111.1	108.6	107.4	105.5	101.5	98.5	
	dpw kPa	56	54	53	51	48	45	
13	CC kW	2434	2377	2352	2309	2221	2156	
	PI kW	605	663	687	724	792	836	
	qw l/s	116.4	113.7	112.5	110.4	106.2	103.1	
	dpw kPa	61	58	57	55	52	49	
15	CC kW	2545	2485	2458	2412	2320	2252	
	PI kW	620	680	704	743	812	857	
	qw l/s	121.8	119.0	117.7	115.5	111.1	107.8	
	dpw kPa	66	63	62	60	56	53	

Fluid: Water

Ta: Condenser inlet air temperature; Twout: Evaporator leaving water temperature (Δt 5°C)

CC: Cooling capacity; PI: Power input; qw: Fluid flow rate; dpw: Fluid pressure drop

* For working condition where dpw value is "Italic-Red Color" please contact factory

EWAD C-XR

		740						810					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	742	722	712	697	664	640	816	793	783	767	734	709
	PI kW	191	209	216	227	247	260	207	226	234	246	267	281
	qw l/s	35.4	34.4	34.0	33.2	31.7	30.5	38.9	37.8	37.3	36.6	35.0	33.8
	dpw kPa	78	74	72	70	64	60	55	52	51	49	45	43
7	CC kW	784	763	753	736	702	677	862	839	829	811	775	749
	PI kW	198	216	223	234	255	268	214	233	241	253	276	290
	qw l/s	37.4	36.4	35.9	35.1	33.5	32.3	41.1	40.0	39.5	38.7	37.0	35.8
	dpw kPa	86	82	80	77	71	66	61	58	57	54	50	47
9	CC kW	827	804	794	776	740	714	908	885	875	856	818	790
	PI kW	204	223	230	242	263	277	220	241	249	262	284	299
	qw l/s	39.5	38.4	37.9	37.1	35.3	34.1	43.4	42.3	41.8	40.9	39.1	37.7
	dpw kPa	95	90	88	85	78	73	67	64	62	60	55	52
11	CC kW	870	846	835	816	779	751	954	930	919	900	861	832
	PI kW	211	230	238	250	272	286	227	248	256	270	293	308
	qw l/s	41.6	40.4	39.9	39.0	37.2	35.9	45.6	44.4	43.9	43.0	41.2	39.8
	dpw kPa	104	99	97	93	85	80	73	70	68	66	61	57
13	CC kW	912	888	876	857	817	789	1001	976	964	944	905	869
	PI kW	218	237	245	258	280	295	234	255	264	278	302	315
	qw l/s	43.6	42.5	41.9	41.0	39.1	37.7	47.9	46.7	46.1	45.2	43.3	41.6
	dpw kPa	114	108	106	102	93	88	80	76	75	72	66	62
15	CC kW	956	930	918	897	856	796	1046	1021	1009	989	947	894
	PI kW	225	245	253	266	289	289	241	263	272	286	311	316
	qw l/s	45.8	44.5	43.9	42.9	41.0	38.1	50.1	48.9	48.3	47.3	45.3	42.8
	dpw kPa	124	118	115	110	102	89	86	83	81	78	72	65

		870						970					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	874	850	839	820	782	754	983	954	942	921	877	846
	PI kW	230	250	259	272	296	312	252	275	285	299	325	342
	qw l/s	41.7	40.5	40.0	39.1	37.3	36.0	46.8	45.5	44.9	43.9	41.8	40.3
	dpw kPa	62	59	58	55	51	48	59	56	55	52	48	45
7	CC kW	924	898	886	866	825	796	1041	1010	997	974	928	894
	PI kW	237	259	267	281	306	322	261	285	294	309	336	353
	qw l/s	44.1	42.8	42.3	41.3	39.4	38.0	49.6	48.2	47.6	46.5	44.3	42.7
	dpw kPa	69	65	64	61	56	53	65	62	60	58	53	50
9	CC kW	971	947	935	913	870	838	1099	1068	1053	1029	979	944
	PI kW	245	267	276	290	316	332	270	294	304	320	347	365
	qw l/s	46.3	45.2	44.6	43.6	41.5	40.0	52.5	51.0	50.3	49.1	46.8	45.1
	dpw kPa	75	72	70	67	62	58	72	69	67	64	59	55
11	CC kW	1015	990	978	959	915	882	1159	1125	1110	1084	1032	984
	PI kW	252	275	285	300	326	343	279	304	314	330	359	372
	qw l/s	48.5	47.3	46.8	45.8	43.7	42.1	55.4	53.8	53.0	51.8	49.3	47.0
	dpw kPa	82	78	76	74	68	63	79	75	74	71	65	59
13	CC kW	1061	1034	1022	1001	959	914	1219	1184	1168	1140	1085	1014
	PI kW	259	283	293	308	336	349	289	314	325	341	370	372
	qw l/s	50.8	49.5	48.9	47.9	45.9	43.7	58.3	56.6	55.9	54.5	51.9	48.5
	dpw kPa	89	85	83	80	74	68	87	83	81	77	71	63
15	CC kW	1107	1079	1066	1044	999	922	1279	1242	1225	1197	1139	1046
	PI kW	267	291	301	317	346	341	298	325	336	353	383	374
	qw l/s	53.0	51.7	51.0	50.0	47.8	44.1	61.3	59.5	58.7	57.3	54.5	50.1
	dpw kPa	96	91	89	86	80	69	95	90	88	84	77	66

EWAD C-XR

			C10						C11					
Twout	Ta		25	30	32	35	40	43	25	30	32	35	40	43
5	CC	kW	1055	1024	1009	985	935	899	1175	1143	1129	1105	1056	1020
	PI	kW	280	305	316	332	361	380	298	325	336	354	385	405
	qw	l/s	50.3	48.8	48.1	46.9	44.6	42.8	56.0	54.5	53.8	52.7	50.3	48.6
	dpw	kPa	67	63	62	59	54	50	44	42	41	39	36	34
7	CC	kW	1116	1083	1067	1041	988	949	1242	1208	1193	1168	1116	1078
	PI	kW	290	316	327	344	374	393	307	335	347	365	397	418
	qw	l/s	53.3	51.7	50.9	49.7	47.1	45.3	59.3	57.6	56.9	55.7	53.3	51.4
	dpw	kPa	74	70	68	65	60	55	48	46	45	43	40	38
9	CC	kW	1177	1142	1126	1098	1041	1001	1310	1275	1259	1232	1178	1138
	PI	kW	300	327	338	355	386	406	317	346	358	377	409	431
	qw	l/s	56.2	54.6	53.8	52.4	49.7	47.8	62.6	60.9	60.1	58.8	56.2	54.3
	dpw	kPa	82	77	75	72	66	61	53	51	50	48	44	41
11	CC	kW	1238	1201	1184	1155	1096	1032	1380	1342	1326	1297	1240	1198
	PI	kW	311	338	350	368	399	410	327	357	369	389	422	444
	qw	l/s	59.2	57.4	56.6	55.2	52.4	49.3	65.9	64.2	63.4	62.0	59.3	57.3
	dpw	kPa	90	85	83	79	72	65	59	56	55	52	48	45
13	CC	kW	1300	1261	1243	1212	1150	1042	1451	1411	1393	1363	1303	1247
	PI	kW	321	350	361	380	413	400	338	368	381	401	435	452
	qw	l/s	62.2	60.3	59.5	58.0	55.0	49.8	69.4	67.5	66.6	65.2	62.3	59.6
	dpw	kPa	98	93	90	86	79	66	64	61	60	57	53	49
15	CC	kW	1362	1321	1302	1269	1205	1055	1522	1481	1462	1430	1366	1282
	PI	kW	332	361	373	392	426	392	349	380	393	413	449	452
	qw	l/s	65.2	63.2	62.3	60.8	57.7	50.5	72.9	70.9	70.0	68.5	65.4	61.4
	dpw	kPa	107	101	98	94	85	67	70	67	65	63	58	51

			C12						C13					
Twout	Ta		25	30	32	35	40	43	25	30	32	35	40	43
5	CC	kW	1259	1224	1209	1181	1126	1085	1319	1279	1260	1229	1167	1121
	PI	kW	330	360	373	392	427	450	339	369	381	400	435	457
	qw	l/s	60.0	58.4	57.6	56.3	53.7	51.7	62.9	60.9	60.1	58.6	55.6	53.4
	dpw	kPa	49	47	46	44	40	38	65	62	60	57	52	49
7	CC	kW	1329	1292	1276	1247	1188	1145	1398	1355	1336	1302	1235	1186
	PI	kW	341	372	385	405	441	464	351	382	395	415	450	473
	qw	l/s	63.4	61.7	60.9	59.5	56.7	54.6	66.7	64.7	63.7	62.1	58.9	56.6
	dpw	kPa	55	52	51	49	45	42	73	69	67	64	58	54
9	CC	kW	1400	1362	1344	1313	1251	1206	1479	1433	1412	1376	1304	1253
	PI	kW	352	384	397	418	455	479	364	396	409	429	466	489
	qw	l/s	66.9	65.0	64.2	62.7	59.8	57.6	70.6	68.4	67.4	65.7	62.3	59.8
	dpw	kPa	60	57	56	54	49	46	80	76	74	71	64	60
11	CC	kW	1472	1431	1412	1381	1315	1268	1562	1512	1489	1451	1375	1303
	PI	kW	364	397	410	431	469	494	377	410	424	445	482	498
	qw	l/s	70.4	68.4	67.5	66.0	62.9	60.6	74.7	72.3	71.2	69.4	65.7	62.3
	dpw	kPa	66	63	61	59	54	50	89	84	81	78	71	64
13	CC	kW	1546	1502	1482	1448	1380	1305	1647	1593	1569	1527	1446	1315
	PI	kW	376	409	423	445	484	498	392	425	439	461	499	487
	qw	l/s	73.9	71.9	70.9	69.3	66.0	62.5	78.8	76.2	75.0	73.1	69.2	62.9
	dpw	kPa	72	68	67	64	59	53	98	92	90	85	77	65
15	CC	kW	1621	1574	1553	1516	1444	1316	1732	1675	1649	1605	1519	1321
	PI	kW	388	423	437	459	499	485	406	441	455	477	516	472
	qw	l/s	77.6	75.4	74.3	72.6	69.1	63.0	82.9	80.2	79.0	76.9	72.7	63.2
	dpw	kPa	78	74	73	70	64	54	107	101	98	94	85	66

EWAD C-XR

		H14						H15					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	1392	1348	1328	1294	1225	1174	1502	1453	1430	1391	1312	1255
	PI kW	369	402	416	438	478	503	397	434	450	474	518	547
	qw l/s	66.3	64.2	63.3	61.7	58.4	56.0	71.6	69.2	68.1	66.3	62.5	59.8
	dpw kPa	75	71	69	66	60	55	82	77	75	71	64	59
7	CC kW	1472	1425	1403	1367	1293	1223	1587	1534	1509	1468	1384	1290
	PI kW	382	417	431	454	494	511	412	450	466	491	536	547
	qw l/s	70.2	68.0	66.9	65.2	61.7	58.4	75.7	73.2	72.0	70.0	66.0	61.5
	dpw kPa	83	78	76	73	66	60	91	85	83	79	71	62
9	CC kW	1553	1504	1480	1441	1362	1263	1673	1617	1591	1546	1456	1304
	PI kW	396	432	446	470	511	512	426	466	483	508	554	533
	qw l/s	74.2	71.8	70.7	68.8	65.1	60.3	79.9	77.2	76.0	73.8	69.5	62.3
	dpw kPa	92	87	84	80	72	63	100	94	91	86	78	64
11	CC kW	1635	1582	1558	1516	1428	1297	1757	1699	1671	1625	1520	1323
	PI kW	410	447	462	486	527	510	441	482	500	526	570	521
	qw l/s	78.2	75.6	74.5	72.5	68.2	62.0	84.0	81.2	79.9	77.7	72.7	63.2
	dpw kPa	101	95	92	88	79	66	109	103	100	95	84	65
13	CC kW	1717	1662	1635	1591	1470	1310	1843	1780	1751	1702	1534	1338
	PI kW	424	462	478	503	528	497	457	499	517	545	556	506
	qw l/s	82.1	79.5	78.2	76.1	70.3	62.7	88.2	85.2	83.8	81.4	73.4	64.0
	dpw kPa	110	104	101	96	83	68	119	112	108	103	85	67
15	CC kW	1800	1740	1713	1667	1516	1318	1931	1863	1831	1779	1554	1348
	PI kW	439	478	495	520	531	481	473	517	535	563	545	488
	qw l/s	86.2	83.3	82.0	79.8	72.6	63.1	92.4	89.2	87.7	85.2	74.4	64.5
	dpw kPa	120	113	110	105	88	69	129	121	118	112	88	68

		C16						C17					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	1570	1525	1504	1469	1397	1344	1657	1611	1590	1555	1482	1428
	PI kW	417	455	471	495	539	568	441	481	498	524	571	602
	qw l/s	74.8	72.7	71.7	70.0	66.6	64.1	79.0	76.8	75.8	74.1	70.6	68.1
	dpw kPa	60	57	56	53	49	46	66	63	62	59	54	51
7	CC kW	1654	1608	1587	1550	1473	1418	1746	1698	1676	1639	1561	1505
	PI kW	431	470	486	512	557	586	455	497	514	541	589	621
	qw l/s	78.9	76.7	75.7	74.0	70.3	67.6	83.3	81.0	80.0	78.2	74.5	71.8
	dpw kPa	66	63	62	59	54	50	73	69	68	65	60	56
9	CC kW	1741	1692	1669	1630	1551	1492	1837	1786	1763	1723	1642	1582
	PI kW	445	485	502	528	575	605	470	512	530	558	608	640
	qw l/s	83.1	80.8	79.7	77.9	74.1	71.3	87.7	85.3	84.2	82.3	78.4	75.6
	dpw kPa	73	69	67	65	59	55	80	76	74	71	66	61
11	CC kW	1829	1777	1752	1711	1628	1548	1929	1876	1851	1809	1723	1649
	PI kW	460	501	518	545	593	616	485	529	547	576	627	654
	qw l/s	87.4	84.9	83.8	81.8	77.8	74.0	92.2	89.7	88.5	86.4	82.4	78.8
	dpw kPa	80	76	74	71	65	59	88	83	81	78	72	66
13	CC kW	1920	1863	1837	1793	1705	1563	2024	1967	1940	1895	1805	1687
	PI kW	475	517	535	563	612	602	501	546	565	594	646	652
	qw l/s	91.8	89.1	87.9	85.8	81.6	74.8	96.8	94.1	92.8	90.7	86.3	80.7
	dpw kPa	87	82	80	77	70	60	96	91	89	85	78	69
15	CC kW	2012	1951	1924	1877	1783	1571	2121	2060	2031	1983	1888	1703
	PI kW	491	534	553	581	632	583	517	563	583	613	667	637
	qw l/s	96.3	93.4	92.1	89.8	85.4	75.2	101.5	98.6	97.2	95.0	90.4	81.5
	dpw kPa	95	90	87	84	76	61	104	99	96	92	85	70

EWAD C-XR

			C18					C19						
Twout	Ta		25	30	32	35	40	43	25	30	32	35	40	43
5	CC	kW	1738	1691	1670	1633	1558	1502	1827	1779	1757	1720	1644	1587
	PI	kW	462	504	522	549	598	631	486	531	549	578	631	665
	qw	l/s	82.8	80.6	79.6	77.8	74.3	71.6	87.1	84.8	83.8	82.0	78.3	75.6
	dpw	kPa	66	63	61	59	54	51	72	69	67	65	60	56
7	CC	kW	1833	1783	1761	1722	1642	1584	1927	1876	1853	1813	1732	1672
	PI	kW	477	520	538	566	617	650	502	547	567	596	650	685
	qw	l/s	87.5	85.1	84.0	82.2	78.4	75.6	91.9	89.5	88.4	86.5	82.6	79.8
	dpw	kPa	73	69	68	65	60	56	79	76	74	71	66	62
9	CC	kW	1930	1878	1853	1812	1728	1667	2029	1975	1950	1908	1821	1758
	PI	kW	492	537	555	584	637	671	517	565	584	615	670	706
	qw	l/s	92.2	89.7	88.5	86.5	82.5	79.6	96.9	94.3	93.1	91.1	87.0	84.0
	dpw	kPa	80	76	74	71	65	61	87	83	81	78	72	67
11	CC	kW	2030	1974	1948	1904	1815	1747	2134	2076	2049	2004	1913	1846
	PI	kW	508	554	573	603	656	690	534	582	603	634	691	727
	qw	l/s	97.0	94.3	93.1	91.0	86.7	83.5	102.0	99.2	97.9	95.8	91.4	88.2
	dpw	kPa	88	83	81	78	72	67	96	91	89	85	79	74
13	CC	kW	2132	2072	2044	1997	1903	1812	2240	2179	2150	2102	2006	1936
	PI	kW	525	572	591	622	677	700	551	601	622	654	712	750
	qw	l/s	102.0	99.1	97.8	95.5	91.0	86.7	107.2	104.2	102.9	100.6	95.9	92.6
	dpw	kPa	96	91	89	85	78	71	105	99	97	93	86	80
15	CC	kW	2236	2172	2142	2092	1992	1835	2350	2284	2254	2203	2100	1966
	PI	kW	542	590	610	642	698	689	569	620	641	674	734	742
	qw	l/s	107.1	104.0	102.6	100.2	95.4	87.8	112.5	109.3	107.9	105.4	100.5	94.1
	dpw	kPa	104	99	97	93	85	73	114	108	106	102	93	83

			C20					C21						
Twout	Ta		25	30	32	35	40	43	25	30	32	35	40	43
5	CC	kW	1871	1824	1802	1765	1686	1627	1923	1874	1851	1812	1728	1666
	PI	kW	507	555	575	606	664	701	532	583	604	638	701	742
	qw	l/s	89.2	86.9	85.9	84.1	80.4	77.6	91.7	89.3	88.2	86.3	82.4	79.4
	dpw	kPa	38	36	35	34	31	29	40	38	37	36	33	31
7	CC	kW	1966	1916	1893	1854	1772	1711	2020	1968	1943	1902	1814	1749
	PI	kW	521	571	591	624	683	722	547	600	622	657	721	763
	qw	l/s	93.8	91.4	90.3	88.5	84.6	81.6	96.4	93.9	92.7	90.7	86.6	83.5
	dpw	kPa	41	39	39	37	34	32	43	41	40	39	36	34
9	CC	kW	2063	2010	1986	1944	1858	1795	2119	2063	2037	1993	1901	1833
	PI	kW	537	587	609	642	703	743	563	617	640	676	742	785
	qw	l/s	98.5	96.0	94.8	92.8	88.7	85.7	101.2	98.5	97.3	95.2	90.8	87.6
	dpw	kPa	45	43	42	41	37	35	47	45	44	42	39	37
11	CC	kW	2162	2106	2080	2035	1945	1861	2219	2160	2133	2086	1989	1883
	PI	kW	553	605	626	661	723	753	580	636	659	696	763	785
	qw	l/s	103.3	100.7	99.4	97.3	93.0	88.9	106.1	103.3	101.9	99.7	95.1	90.0
	dpw	kPa	49	47	46	44	41	38	52	49	48	46	42	38
13	CC	kW	2262	2203	2175	2128	2033	1923	2322	2259	2230	2180	2078	1922
	PI	kW	569	622	645	680	744	759	597	654	678	716	785	777
	qw	l/s	108.2	105.4	104.1	101.8	97.2	92.0	111.1	108.1	106.7	104.3	99.4	92.0
	dpw	kPa	53	51	50	48	44	40	56	53	52	50	46	40
15	CC	kW	2365	2302	2272	2223	2122	1965	2426	2359	2328	2275	2167	1955
	PI	kW	586	641	664	700	765	755	615	674	698	737	808	765
	qw	l/s	113.2	110.2	108.8	106.4	101.6	94.1	116.1	112.9	111.4	108.9	103.8	93.6
	dpw	kPa	58	55	54	52	48	42	61	58	56	54	50	41

EWAD C-XR

		C22						
Twout	Ta	25	30	32	35	40	43	
5	CC kW	1979	1927	1903	1861	1773	1707	
	PI kW	557	612	635	671	738	783	
	qw l/s	94.3	91.9	90.7	88.7	84.5	81.3	
	dpw kPa	42	40	39	37	34	32	
7	CC kW	2078	2023	1997	1952	1859	1790	
	PI kW	574	630	653	691	760	805	
	qw l/s	99.1	96.5	95.3	93.1	88.7	85.4	
	dpw kPa	46	44	43	41	37	35	
9	CC kW	2178	2120	2092	2045	1947	1875	
	PI kW	591	648	672	711	781	828	
	qw l/s	104.0	101.2	99.9	97.7	93.0	89.5	
	dpw kPa	50	47	46	44	41	38	
11	CC kW	2281	2218	2189	2139	2036	1904	
	PI kW	608	667	692	732	804	816	
	qw l/s	109.0	106.0	104.6	102.2	97.3	91.0	
	dpw kPa	54	52	50	48	44	39	
13	CC kW	2385	2318	2287	2234	2125	1925	
	PI kW	626	687	713	753	827	796	
	qw l/s	114.1	110.9	109.4	106.9	101.7	92.1	
	dpw kPa	59	56	54	52	48	40	
15	CC kW	2491	2420	2387	2330	2216	1948	
	PI kW	645	707	734	775	851	776	
	qw l/s	119.2	115.8	114.3	111.6	106.1	93.2	
	dpw kPa	64	60	59	56	52	41	

Fluid: Water

Ta: Condenser inlet air temperature; Twout: Evaporator leaving water temperature (Δt 5°C)

CC: Cooling capacity; PI: Power input; qw: Fluid flow rate; dpw: Fluid pressure drop

* For working condition where dpw value is "Italic-Red Color" please contact factory

EWAD C-PS

		820						890					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	817	794	785	772	748	731	886	862	852	838	810	791
	PI kW	186	203	210	220	238	249	205	224	231	242	262	274
	qw l/s	38.9	37.8	37.4	36.8	35.7	34.8	42.2	41.1	40.6	39.9	38.6	37.7
	dpw kPa	57	54	53	51	49	47	66	63	61	60	56	54
7	CC kW	868	844	835	821	795	777	940	915	905	890	861	840
	PI kW	190	208	215	226	244	255	210	229	237	249	269	281
	qw l/s	41.4	40.3	39.8	39.2	37.9	37.1	44.8	43.7	43.2	42.5	41.1	40.1
	dpw kPa	64	60	59	58	54	52	73	70	69	67	63	60
9	CC kW	920	896	886	871	844	825	996	970	960	943	913	891
	PI kW	195	213	220	231	250	261	215	235	243	255	276	288
	qw l/s	44.0	42.8	42.3	41.6	40.3	39.4	47.5	46.3	45.8	45.1	43.6	42.6
	dpw kPa	71	67	66	64	61	58	82	78	76	74	70	67
11	CC kW	975	949	939	924	895	875	1053	1026	1015	998	966	943
	PI kW	199	218	226	237	256	268	221	241	249	262	283	296
	qw l/s	46.6	45.4	44.9	44.2	42.8	41.8	50.3	49.0	48.5	47.7	46.2	45.1
	dpw kPa	79	75	73	71	67	65	90	86	85	82	77	74
13	CC kW	1030	1004	994	978	947	926	1111	1084	1072	1055	1021	997
	PI kW	204	224	231	243	262	274	226	247	256	268	290	303
	qw l/s	49.3	48.0	47.5	46.8	45.3	44.3	53.1	51.8	51.3	50.5	48.8	47.7
	dpw kPa	87	83	81	79	75	72	100	95	93	91	86	82
15	CC kW	1087	1060	1049	1032	1001	979	1171	1142	1131	1112	1077	1052
	PI kW	210	229	237	249	269	281	232	254	262	275	297	311
	qw l/s	52.0	50.8	50.2	49.4	47.9	46.8	56.0	54.7	54.1	53.3	51.5	50.3
	dpw kPa	96	92	90	87	83	79	109	105	103	100	94	90

		980						C11					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	971	944	934	917	885	862	1070	1040	1029	1010	975	950
	PI kW	226	246	254	267	288	302	248	271	280	294	317	332
	qw l/s	46.3	45.0	44.5	43.7	42.2	41.1	51.0	49.6	49.0	48.1	46.5	45.3
	dpw kPa	31	29	28	28	26	25	60	57	56	54	51	49
7	CC kW	1032	1004	993	975	941	916	1136	1106	1093	1074	1037	1010
	PI kW	232	253	261	274	296	310	255	278	288	302	326	341
	qw l/s	49.2	47.9	47.4	46.5	44.9	43.7	54.2	52.7	52.2	51.2	49.5	48.2
	dpw kPa	34	32	32	31	29	28	67	64	63	61	57	54
9	CC kW	1095	1066	1054	1035	999	973	1205	1173	1160	1140	1100	1072
	PI kW	238	260	268	282	304	318	262	286	295	310	335	351
	qw l/s	52.3	50.9	50.3	49.4	47.7	46.4	57.6	56.0	55.4	54.4	52.5	51.2
	dpw kPa	38	36	36	34	32	31	75	71	70	68	64	61
11	CC kW	1161	1130	1117	1097	1058	1031	1276	1243	1229	1207	1165	1135
	PI kW	245	267	276	289	313	327	269	294	304	318	344	360
	qw l/s	55.5	54.0	53.4	52.4	50.6	49.3	61.0	59.4	58.8	57.7	55.7	54.2
	dpw kPa	42	40	40	38	36	34	83	79	78	75	71	67
13	CC kW	1229	1197	1183	1162	1120	1091	1348	1314	1300	1277	1232	1200
	PI kW	252	275	284	298	321	336	277	302	312	327	354	370
	qw l/s	58.8	57.2	56.6	55.6	53.6	52.2	64.5	62.9	62.2	61.1	58.9	57.4
	dpw kPa	47	45	44	42	40	38	92	88	86	83	78	75
15	CC kW	1299	1265	1251	1228	1184	1153	1423	1387	1372	1347	1301	1267
	PI kW	260	283	292	306	330	346	284	310	321	336	363	380
	qw l/s	62.2	60.6	59.9	58.8	56.7	55.2	68.1	66.4	65.7	64.5	62.3	60.7
	dpw kPa	52	50	49	47	44	42	101	97	95	92	86	82

EWAD C-PS

		C12						C13					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	1155	1123	1111	1090	1051	1022	1275	1240	1226	1203	1159	1127
	PI kW	271	296	306	321	347	364	299	326	337	353	382	400
	qw l/s	55.0	53.5	52.9	52.0	50.1	48.7	60.8	59.1	58.4	57.4	55.3	53.7
	dpw kPa	69	66	65	62	58	56	60	57	56	54	50	48
7	CC kW	1225	1193	1179	1158	1116	1085	1354	1318	1303	1279	1232	1198
	PI kW	279	304	314	330	357	374	307	335	346	363	393	412
	qw l/s	58.5	56.9	56.3	55.2	53.2	51.8	64.6	62.9	62.2	61.0	58.8	57.2
	dpw kPa	77	74	72	70	65	62	67	64	62	60	56	54
9	CC kW	1298	1264	1250	1227	1183	1151	1436	1398	1382	1357	1307	1271
	PI kW	287	313	323	339	367	384	316	345	356	374	404	423
	qw l/s	62.0	60.4	59.7	58.6	56.5	55.0	68.6	66.8	66.0	64.8	62.4	60.7
	dpw kPa	86	82	80	78	73	69	74	71	69	67	63	60
11	CC kW	1374	1338	1323	1299	1252	1218	1521	1481	1464	1437	1384	1346
	PI kW	295	322	332	349	377	395	325	355	367	384	415	435
	qw l/s	65.7	64.0	63.3	62.1	59.8	58.2	72.7	70.8	70.0	68.7	66.1	64.3
	dpw kPa	95	91	89	86	80	77	83	79	77	75	70	66
13	CC kW	1450	1413	1398	1373	1322	1286	1607	1565	1548	1519	1463	1422
	PI kW	303	331	342	359	388	406	335	365	377	396	427	448
	qw l/s	69.4	67.6	66.9	65.7	63.3	61.5	76.9	74.9	74.0	72.7	70.0	68.0
	dpw kPa	105	100	98	95	89	85	91	87	85	83	77	73
15	CC kW	1528	1490	1473	1446	1394	1357	1695	1651	1633	1602	1543	1501
	PI kW	312	340	352	369	399	418	345	376	388	407	440	460
	qw l/s	73.1	71.3	70.5	69.2	66.8	65.0	81.1	79.1	78.2	76.7	73.9	71.9
	dpw kPa	115	110	108	105	98	93	101	96	94	91	85	81

		C14						C15					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	1386	1348	1333	1308	1261	1226	1472	1433	1417	1391	1340	1302
	PI kW	326	355	367	385	416	437	347	380	393	413	448	470
	qw l/s	66.0	64.3	63.5	62.4	60.1	58.4	70.2	68.3	67.5	66.3	63.9	62.1
	dpw kPa	70	66	65	63	59	56	80	76	75	72	68	64
7	CC kW	1471	1432	1416	1390	1339	1302	1560	1519	1502	1474	1420	1380
	PI kW	335	365	377	396	428	449	357	390	404	424	460	483
	qw l/s	70.2	68.3	67.5	66.3	63.9	62.1	74.4	72.5	71.7	70.3	67.7	65.8
	dpw kPa	77	74	72	70	66	62	89	85	83	81	75	72
9	CC kW	1559	1518	1501	1473	1420	1382	1648	1606	1588	1559	1502	1460
	PI kW	344	376	388	407	440	461	366	401	415	436	473	496
	qw l/s	74.4	72.5	71.7	70.4	67.8	66.0	78.7	76.7	75.8	74.5	71.7	69.7
	dpw kPa	86	82	80	78	73	69	99	94	92	89	83	79
11	CC kW	1649	1606	1588	1559	1502	1462	1737	1694	1675	1645	1585	1542
	PI kW	354	386	399	419	453	474	376	411	426	447	486	510
	qw l/s	78.8	76.8	75.9	74.5	71.8	69.9	83.0	81.0	80.1	78.6	75.8	73.7
	dpw kPa	96	91	89	86	81	77	109	104	102	98	92	88
13	CC kW	1741	1697	1678	1648	1587	1544	1828	1783	1763	1732	1669	1624
	PI kW	364	397	410	431	465	487	386	422	437	459	499	524
	qw l/s	83.3	81.2	80.3	78.8	75.9	73.9	87.4	85.3	84.4	82.8	79.9	77.7
	dpw kPa	105	101	99	95	89	85	119	114	112	108	101	96
15	CC kW	1834	1788	1769	1737	1674	1629	1921	1873	1853	1819	1754	1707
	PI kW	375	408	422	443	479	501	396	434	449	472	512	538
	qw l/s	87.8	85.6	84.7	83.1	80.1	78.0	92.0	89.7	88.7	87.1	84.0	81.7
	dpw kPa	116	111	109	105	98	94	130	125	122	118	111	105

EWAD C-PS

		C16						
Twout	Ta	25	30	32	35	40	43	
5	CC kW	1562	1520	1503	1475	1418	1377	
	PI kW	370	405	419	441	479	504	
	qw l/s	74.5	72.5	71.6	70.3	67.6	65.6	
	dpw kPa	88	84	82	79	74	70	
7	CC kW	1654	1611	1592	1562	1502	1458	
	PI kW	379	416	430	453	492	518	
	qw l/s	78.9	76.9	76.0	74.5	71.7	69.6	
	dpw kPa	97	93	91	88	82	78	
9	CC kW	1744	1700	1681	1651	1588	1541	
	PI kW	389	427	442	465	506	532	
	qw l/s	83.3	81.2	80.3	78.8	75.8	73.6	
	dpw kPa	107	103	101	97	91	86	
11	CC kW	1837	1790	1770	1738	1674	1627	
	PI kW	399	438	453	477	520	547	
	qw l/s	87.8	85.6	84.6	83.1	80.0	77.8	
	dpw kPa	118	113	110	107	100	95	
13	CC kW	1933	1883	1862	1827	1759	1710	
	PI kW	410	449	465	490	533	561	
	qw l/s	92.5	90.1	89.1	87.4	84.1	81.8	
	dpw kPa	129	124	121	117	109	104	
15	CC kW	2031	1978	1955	1918	1846	1795	
	PI kW	421	461	478	503	548	576	
	qw l/s	97.2	94.7	93.6	91.8	88.4	85.9	
	dpw kPa	142	135	132	128	119	113	

Fluid: Water

Ta: Condenser inlet air temperature; Twout: Evaporator leaving water temperature (Δt 5°C)

CC: Cooling capacity; PI: Power input; qw: Fluid flow rate; dpw: Fluid pressure drop

* For working condition where dpw value is "Italic-Red Color" please contact factory

EWAD C-PL

		820						890					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	817	794	785	772	748	731	886	862	852	838	810	791
	PI kW	186	203	210	220	238	249	205	224	231	242	262	274
	qw l/s	38.9	37.8	37.4	36.8	35.7	34.8	42.2	41.1	40.6	39.9	38.6	37.7
	dpw kPa	57	54	53	51	49	47	66	63	61	60	56	54
7	CC kW	868	844	835	821	795	777	940	915	905	890	861	840
	PI kW	190	208	215	226	244	255	210	229	237	249	269	281
	qw l/s	41.4	40.3	39.8	39.2	37.9	37.1	44.8	43.7	43.2	42.5	41.1	40.1
	dpw kPa	64	60	59	58	54	52	73	70	69	67	63	60
9	CC kW	920	896	886	871	844	825	996	970	960	943	913	891
	PI kW	195	213	220	231	250	261	215	235	243	255	276	288
	qw l/s	44.0	42.8	42.3	41.6	40.3	39.4	47.5	46.3	45.8	45.1	43.6	42.6
	dpw kPa	71	67	66	64	61	58	82	78	76	74	70	67
11	CC kW	975	949	939	924	895	875	1053	1026	1015	998	966	943
	PI kW	199	218	226	237	256	268	221	241	249	262	283	296
	qw l/s	46.6	45.4	44.9	44.2	42.8	41.8	50.3	49.0	48.5	47.7	46.2	45.1
	dpw kPa	79	75	73	71	67	65	90	86	85	82	77	74
13	CC kW	1030	1004	994	978	947	926	1111	1084	1072	1055	1021	997
	PI kW	204	224	231	243	262	274	226	247	256	268	290	303
	qw l/s	49.3	48.0	47.5	46.8	45.3	44.3	53.1	51.8	51.3	50.5	48.8	47.7
	dpw kPa	87	83	81	79	75	72	100	95	93	91	86	82
15	CC kW	1087	1060	1049	1032	1001	979	1171	1142	1131	1112	1077	1052
	PI kW	210	229	237	249	269	281	232	254	262	275	297	311
	qw l/s	52.0	50.8	50.2	49.4	47.9	46.8	56.0	54.7	54.1	53.3	51.5	50.3
	dpw kPa	96	92	90	87	83	79	109	105	103	100	94	90

		980						C11					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	971	944	934	917	885	862	1070	1040	1029	1010	975	950
	PI kW	226	246	254	267	288	302	248	271	280	294	317	332
	qw l/s	46.3	45.0	44.5	43.7	42.2	41.1	51.0	49.6	49.0	48.1	46.5	45.3
	dpw kPa	31	29	28	28	26	25	60	57	56	54	51	49
7	CC kW	1032	1004	993	975	941	916	1136	1106	1093	1074	1037	1010
	PI kW	232	253	261	274	296	310	255	278	288	302	326	341
	qw l/s	49.2	47.9	47.4	46.5	44.9	43.7	54.2	52.7	52.2	51.2	49.5	48.2
	dpw kPa	34	32	32	31	29	28	67	64	63	61	57	54
9	CC kW	1095	1066	1054	1035	999	973	1205	1173	1160	1140	1100	1072
	PI kW	238	260	268	282	304	318	262	286	295	310	335	351
	qw l/s	52.3	50.9	50.3	49.4	47.7	46.4	57.6	56.0	55.4	54.4	52.5	51.2
	dpw kPa	38	36	36	34	32	31	75	71	70	68	64	61
11	CC kW	1161	1130	1117	1097	1058	1031	1276	1243	1229	1207	1165	1135
	PI kW	245	267	276	289	313	327	269	294	304	318	344	360
	qw l/s	55.5	54.0	53.4	52.4	50.6	49.3	61.0	59.4	58.8	57.7	55.7	54.2
	dpw kPa	42	40	40	38	36	34	83	79	78	75	71	67
13	CC kW	1229	1197	1183	1162	1120	1091	1348	1314	1300	1277	1232	1200
	PI kW	252	275	284	298	321	336	277	302	312	327	354	370
	qw l/s	58.8	57.2	56.6	55.6	53.6	52.2	64.5	62.9	62.2	61.1	58.9	57.4
	dpw kPa	47	45	44	42	40	38	92	88	86	83	78	75
15	CC kW	1299	1265	1251	1228	1184	1153	1423	1387	1372	1347	1301	1267
	PI kW	260	283	292	306	330	346	284	310	321	336	363	380
	qw l/s	62.2	60.6	59.9	58.8	56.7	55.2	68.1	66.4	65.7	64.5	62.3	60.7
	dpw kPa	52	50	49	47	44	42	101	97	95	92	86	82

EWAD C-PL

		C12						C13					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	1155	1123	1111	1090	1051	1022	1275	1240	1226	1203	1159	1127
	PI kW	271	296	306	321	347	364	299	326	337	353	382	400
	qw l/s	55.0	53.5	52.9	52.0	50.1	48.7	60.8	59.1	58.4	57.4	55.3	53.7
	dpw kPa	69	66	65	62	58	56	60	57	56	54	50	48
7	CC kW	1225	1193	1179	1158	1116	1085	1354	1318	1303	1279	1232	1198
	PI kW	279	304	314	330	357	374	307	335	346	363	393	412
	qw l/s	58.5	56.9	56.3	55.2	53.2	51.8	64.6	62.9	62.2	61.0	58.8	57.2
	dpw kPa	77	74	72	70	65	62	67	64	62	60	56	54
9	CC kW	1298	1264	1250	1227	1183	1151	1436	1398	1382	1357	1307	1271
	PI kW	287	313	323	339	367	384	316	345	356	374	404	423
	qw l/s	62.0	60.4	59.7	58.6	56.5	55.0	68.6	66.8	66.0	64.8	62.4	60.7
	dpw kPa	86	82	80	78	73	69	74	71	69	67	63	60
11	CC kW	1374	1338	1323	1299	1252	1218	1521	1481	1464	1437	1384	1346
	PI kW	295	322	332	349	377	395	325	355	367	384	415	435
	qw l/s	65.7	64.0	63.3	62.1	59.8	58.2	72.7	70.8	70.0	68.7	66.1	64.3
	dpw kPa	95	91	89	86	80	77	83	79	77	75	70	66
13	CC kW	1450	1413	1398	1373	1322	1286	1607	1565	1548	1519	1463	1422
	PI kW	303	331	342	359	388	406	335	365	377	396	427	448
	qw l/s	69.4	67.6	66.9	65.7	63.3	61.5	76.9	74.9	74.0	72.7	70.0	68.0
	dpw kPa	105	100	98	95	89	85	91	87	85	83	77	73
15	CC kW	1528	1490	1473	1446	1394	1357	1695	1651	1633	1602	1543	1501
	PI kW	312	340	352	369	399	418	345	376	388	407	440	460
	qw l/s	73.1	71.3	70.5	69.2	66.8	65.0	81.1	79.1	78.2	76.7	73.9	71.9
	dpw kPa	115	110	108	105	98	93	101	96	94	91	85	81

		C14						C15					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	1386	1348	1333	1308	1261	1226	1472	1433	1417	1391	1340	1302
	PI kW	326	355	367	385	416	437	347	380	393	413	448	470
	qw l/s	66.0	64.3	63.5	62.4	60.1	58.4	70.2	68.3	67.5	66.3	63.9	62.1
	dpw kPa	70	66	65	63	59	56	80	76	75	72	68	64
7	CC kW	1471	1432	1416	1390	1339	1302	1560	1519	1502	1474	1420	1380
	PI kW	335	365	377	396	428	449	357	390	404	424	460	483
	qw l/s	70.2	68.3	67.5	66.3	63.9	62.1	74.4	72.5	71.7	70.3	67.7	65.8
	dpw kPa	77	74	72	70	66	62	89	85	83	81	75	72
9	CC kW	1559	1518	1501	1473	1420	1382	1648	1606	1588	1559	1502	1460
	PI kW	344	376	388	407	440	461	366	401	415	436	473	496
	qw l/s	74.4	72.5	71.7	70.4	67.8	66.0	78.7	76.7	75.8	74.5	71.7	69.7
	dpw kPa	86	82	80	78	73	69	99	94	92	89	83	79
11	CC kW	1649	1606	1588	1559	1502	1462	1737	1694	1675	1645	1585	1542
	PI kW	354	386	399	419	453	474	376	411	426	447	486	510
	qw l/s	78.8	76.8	75.9	74.5	71.8	69.9	83.0	81.0	80.1	78.6	75.8	73.7
	dpw kPa	96	91	89	86	81	77	109	104	102	98	92	88
13	CC kW	1741	1697	1678	1648	1587	1544	1828	1783	1763	1732	1669	1624
	PI kW	364	397	410	431	465	487	386	422	437	459	499	524
	qw l/s	83.3	81.2	80.3	78.8	75.9	73.9	87.4	85.3	84.4	82.8	79.9	77.7
	dpw kPa	105	101	99	95	89	85	119	114	112	108	101	96
15	CC kW	1834	1788	1769	1737	1674	1629	1921	1873	1853	1819	1754	1707
	PI kW	375	408	422	443	479	501	396	434	449	472	512	538
	qw l/s	87.8	85.6	84.7	83.1	80.1	78.0	92.0	89.7	88.7	87.1	84.0	81.7
	dpw kPa	116	111	109	105	98	94	130	125	122	118	111	105

EWAD C-PL

		C16						
Twout	Ta	25	30	32	35	40	43	
5	CC kW	1562	1520	1503	1475	1418	1377	
	PI kW	370	405	419	441	479	504	
	qw l/s	74.5	72.5	71.6	70.3	67.6	65.6	
	dpw kPa	88	84	82	79	74	70	
7	CC kW	1654	1611	1592	1562	1502	1458	
	PI kW	379	416	430	453	492	518	
	qw l/s	78.9	76.9	76.0	74.5	71.7	69.6	
	dpw kPa	97	93	91	88	82	78	
9	CC kW	1744	1700	1681	1651	1588	1541	
	PI kW	389	427	442	465	506	532	
	qw l/s	83.3	81.2	80.3	78.8	75.8	73.6	
	dpw kPa	107	103	101	97	91	86	
11	CC kW	1837	1790	1770	1738	1674	1627	
	PI kW	399	438	453	477	520	547	
	qw l/s	87.8	85.6	84.6	83.1	80.0	77.8	
	dpw kPa	118	113	110	107	100	95	
13	CC kW	1933	1883	1862	1827	1759	1710	
	PI kW	410	449	465	490	533	561	
	qw l/s	92.5	90.1	89.1	87.4	84.1	81.8	
	dpw kPa	129	124	121	117	109	104	
15	CC kW	2031	1978	1955	1918	1846	1795	
	PI kW	421	461	478	503	548	576	
	qw l/s	97.2	94.7	93.6	91.8	88.4	85.9	
	dpw kPa	142	135	132	128	119	113	

Fluid: Water

Ta: Condenser inlet air temperature; Twout: Evaporator leaving water temperature (Δt 5°C)

CC: Cooling capacity; PI: Power input; qw: Fluid flow rate; dpw: Fluid pressure drop

* For working condition where dpw value is "Italic-Red Color" please contact factory

EWAD C-PR

		810						880					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	806	784	775	762	735	715	873	850	840	824	794	771
	PI kW	178	195	202	213	231	242	199	218	226	237	258	271
	qw l/s	38.4	37.4	37.0	36.3	35.0	34.1	41.6	40.5	40.0	39.3	37.8	36.8
	dpw kPa	56	53	52	50	47	45	64	61	60	58	54	51
7	CC kW	856	833	824	809	781	761	926	902	892	875	842	819
	PI kW	183	201	208	219	237	249	205	225	233	244	265	279
	qw l/s	40.8	39.7	39.3	38.6	37.3	36.3	44.2	43.0	42.5	41.7	40.2	39.1
	dpw kPa	62	59	58	56	53	50	71	68	67	65	60	57
9	CC kW	907	883	874	858	828	807	981	955	944	927	893	867
	PI kW	189	207	214	225	244	256	211	231	240	252	273	287
	qw l/s	43.3	42.2	41.7	41.0	39.5	38.5	46.8	45.6	45.1	44.3	42.6	41.4
	dpw kPa	69	66	64	62	58	56	79	76	74	72	67	64
11	CC kW	961	936	925	909	877	854	1037	1010	999	980	944	917
	PI kW	194	213	220	232	251	264	218	239	247	259	281	295
	qw l/s	45.9	44.7	44.2	43.4	41.9	40.8	49.5	48.3	47.7	46.8	45.1	43.8
	dpw kPa	77	73	72	69	65	62	88	84	82	79	74	70
13	CC kW	1015	989	979	961	927	903	1094	1066	1054	1034	996	968
	PI kW	200	219	227	239	259	271	225	246	254	267	290	304
	qw l/s	48.6	47.3	46.8	46.0	44.4	43.2	52.3	51.0	50.4	49.5	47.6	46.3
	dpw kPa	85	81	79	77	72	69	97	92	91	88	82	78
15	CC kW	1070	1044	1032	1014	979	953	1152	1123	1110	1090	1049	1020
	PI kW	206	226	234	246	266	279	232	253	262	275	298	313
	qw l/s	51.2	50.0	49.4	48.5	46.9	45.6	55.1	53.8	53.1	52.2	50.2	48.8
	dpw kPa	93	89	87	85	79	76	106	102	100	96	90	85

		960						C10					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	956	929	918	900	864	838	1053	1024	1012	992	952	923
	PI kW	222	243	251	264	286	301	244	267	276	290	315	331
	qw l/s	45.6	44.3	43.8	42.9	41.2	39.9	50.2	48.8	48.2	47.3	45.4	44.0
	dpw kPa	30	28	28	27	25	23	59	56	55	53	49	46
7	CC kW	1015	987	975	956	917	889	1118	1087	1074	1053	1010	979
	PI kW	230	251	259	272	295	310	252	275	285	299	325	341
	qw l/s	48.4	47.1	46.5	45.6	43.8	42.4	53.3	51.9	51.3	50.2	48.2	46.7
	dpw kPa	33	32	31	30	28	26	65	62	61	59	54	52
9	CC kW	1076	1047	1034	1013	972	942	1185	1153	1139	1116	1071	1038
	PI kW	237	259	268	281	305	320	260	284	294	309	335	351
	qw l/s	51.4	50.0	49.4	48.4	46.4	45.0	56.6	55.0	54.4	53.3	51.1	49.6
	dpw kPa	37	35	34	33	31	29	73	69	68	65	61	57
11	CC kW	1140	1109	1095	1073	1028	997	1254	1220	1205	1181	1132	1098
	PI kW	245	267	276	290	314	330	269	293	303	319	345	362
	qw l/s	54.5	53.0	52.3	51.3	49.2	47.6	59.9	58.3	57.6	56.4	54.1	52.5
	dpw kPa	41	39	38	37	34	32	81	77	75	72	67	63
13	CC kW	1206	1172	1158	1134	1086	1053	1324	1289	1273	1247	1196	1159
	PI kW	254	276	286	300	325	340	277	303	313	329	356	374
	qw l/s	57.7	56.1	55.4	54.2	52.0	50.4	63.4	61.6	60.9	59.7	57.2	55.4
	dpw kPa	45	43	42	41	38	36	89	85	83	80	74	70
15	CC kW	1274	1238	1223	1197	1146	1110	1396	1359	1342	1315	1261	1222
	PI kW	263	286	295	310	335	351	287	313	323	339	367	385
	qw l/s	61.0	59.3	58.5	57.3	54.9	53.2	66.9	65.0	64.2	62.9	60.3	58.5
	dpw kPa	50	48	47	45	41	39	98	93	91	88	82	77

EWAD C-PR

		C11						C13					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	1135	1103	1090	1067	1022	989	1255	1219	1204	1179	1128	1091
	PI kW	269	294	304	320	347	365	297	324	335	352	382	402
	qw l/s	54.1	52.6	51.9	50.9	48.7	47.1	59.8	58.1	57.4	56.2	53.8	52.0
	dpw kPa	67	64	62	60	56	52	58	55	54	52	48	45
7	CC kW	1204	1170	1156	1132	1083	1048	1331	1294	1278	1251	1197	1157
	PI kW	278	304	314	330	358	376	307	335	346	364	395	414
	qw l/s	57.4	55.8	55.1	54.0	51.7	50.0	63.5	61.7	61.0	59.7	57.1	55.2
	dpw kPa	75	71	70	67	62	58	65	62	60	58	53	50
9	CC kW	1274	1239	1224	1198	1147	1109	1411	1371	1354	1325	1267	1226
	PI kW	287	314	324	341	370	388	317	346	358	376	407	428
	qw l/s	60.9	59.2	58.4	57.2	54.8	53.0	67.4	65.5	64.6	63.3	60.5	58.5
	dpw kPa	83	79	77	74	69	65	72	68	67	64	59	56
11	CC kW	1348	1310	1293	1266	1211	1172	1493	1451	1432	1401	1339	1295
	PI kW	297	324	335	352	382	401	328	357	370	388	421	441
	qw l/s	64.4	62.6	61.8	60.5	57.9	56.0	71.4	69.3	68.4	67.0	64.0	61.9
	dpw kPa	92	87	85	82	76	72	80	76	74	71	66	62
13	CC kW	1422	1383	1365	1336	1277	1235	1576	1532	1512	1479	1413	1366
	PI kW	307	335	346	363	394	413	339	370	382	401	434	456
	qw l/s	68.0	66.1	65.3	63.9	61.1	59.1	75.4	73.3	72.3	70.8	67.6	65.4
	dpw kPa	101	96	94	91	84	79	88	84	82	79	72	68
15	CC kW	1497	1456	1437	1406	1345	1301	1661	1614	1593	1558	1489	1439
	PI kW	317	346	357	375	407	426	351	382	395	414	449	470
	qw l/s	71.7	69.7	68.8	67.3	64.4	62.3	79.5	77.3	76.3	74.6	71.3	68.9
	dpw kPa	111	106	103	100	92	86	97	92	90	86	80	75

		C14						C15					
Twout	Ta	25	30	32	35	40	43	25	30	32	35	40	43
5	CC kW	1363	1324	1308	1281	1226	1186	1447	1407	1389	1360	1300	1256
	PI kW	323	353	365	384	417	438	345	378	391	412	449	472
	qw l/s	64.9	63.1	62.3	61.0	58.4	56.5	69.0	67.0	66.2	64.8	62.0	59.9
	dpw kPa	67	64	63	60	56	53	78	74	72	70	64	60
7	CC kW	1445	1405	1388	1359	1300	1258	1532	1489	1470	1439	1375	1329
	PI kW	334	365	377	396	430	452	356	390	403	425	463	487
	qw l/s	68.9	67.0	66.2	64.8	62.0	60.0	73.1	71.1	70.2	68.7	65.6	63.4
	dpw kPa	75	71	70	67	62	59	86	82	80	77	71	67
9	CC kW	1530	1488	1469	1438	1377	1332	1618	1574	1554	1520	1452	1403
	PI kW	345	377	389	409	444	466	368	402	416	438	477	502
	qw l/s	73.1	71.1	70.2	68.7	65.8	63.6	77.3	75.1	74.2	72.6	69.4	67.0
	dpw kPa	83	79	78	75	69	65	95	91	89	85	79	74
11	CC kW	1618	1573	1553	1520	1454	1407	1705	1658	1637	1602	1531	1479
	PI kW	357	389	402	422	458	481	379	415	430	452	492	518
	qw l/s	77.3	75.2	74.2	72.6	69.5	67.2	81.5	79.3	78.3	76.6	73.2	70.7
	dpw kPa	92	88	86	83	76	72	105	100	98	94	87	81
13	CC kW	1707	1660	1639	1604	1533	1483	1793	1744	1722	1685	1610	1557
	PI kW	369	402	416	436	473	496	391	428	443	466	508	534
	qw l/s	81.7	79.4	78.4	76.7	73.4	71.0	85.8	83.4	82.4	80.6	77.0	74.5
	dpw kPa	102	97	95	91	84	79	115	109	107	103	95	89
15	CC kW	1798	1748	1726	1689	1615	1562	1882	1830	1806	1767	1690	1602
	PI kW	381	415	429	451	488	512	404	441	457	481	523	536
	qw l/s	86.1	83.7	82.6	80.8	77.3	74.8	90.1	87.6	86.5	84.6	80.9	76.7
	dpw kPa	112	106	104	100	92	87	126	120	117	112	104	94

EWAD C-PR

		C16						
Twout	Ta	25	30	32	35	40	43	
5	CC kW	1534	1490	1471	1438	1372	1323	
	PI kW	370	406	420	443	484	511	
	qw l/s	73.1	71.0	70.1	68.6	65.4	63.1	
	dpw kPa	85	81	79	76	70	65	
7	CC kW	1624	1577	1556	1521	1450	1399	
	PI kW	382	419	434	457	499	526	
	qw l/s	77.5	75.2	74.2	72.6	69.2	66.7	
	dpw kPa	94	89	87	84	77	72	
9	CC kW	1711	1664	1643	1606	1530	1476	
	PI kW	394	432	448	472	515	543	
	qw l/s	81.7	79.5	78.5	76.7	73.1	70.5	
	dpw kPa	104	99	96	93	85	80	
11	CC kW	1801	1750	1727	1689	1612	1554	
	PI kW	406	445	462	487	531	560	
	qw l/s	86.1	83.7	82.6	80.8	77.1	74.3	
	dpw kPa	114	108	106	102	93	87	
13	CC kW	1892	1838	1814	1773	1692	1634	
	PI kW	419	459	476	502	548	577	
	qw l/s	90.5	87.9	86.8	84.8	81.0	78.2	
	dpw kPa	125	118	116	111	102	96	
15	CC kW	1986	1928	1902	1858	1772	1648	
	PI kW	432	474	491	517	564	565	
	qw l/s	95.1	92.3	91.0	89.0	84.9	78.9	
	dpw kPa	136	129	126	121	111	97	

Fluid: Water

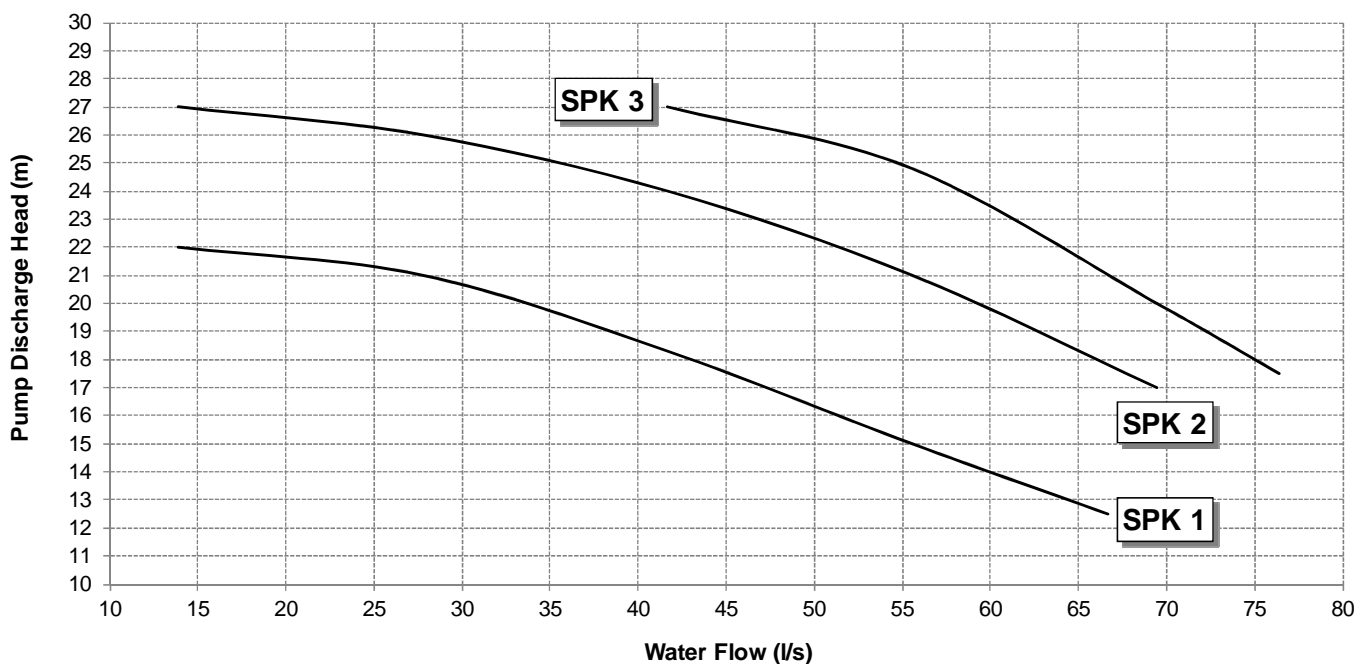
Ta: Condenser inlet air temperature; Twout: Evaporator leaving water temperature (Δt 5°C)

CC: Cooling capacity; PI: Power input; qw: Fluid flow rate; dpw: Fluid pressure drop

* For working condition where dpw value is "Italic-Red Color" please contact factory

Discharge Head

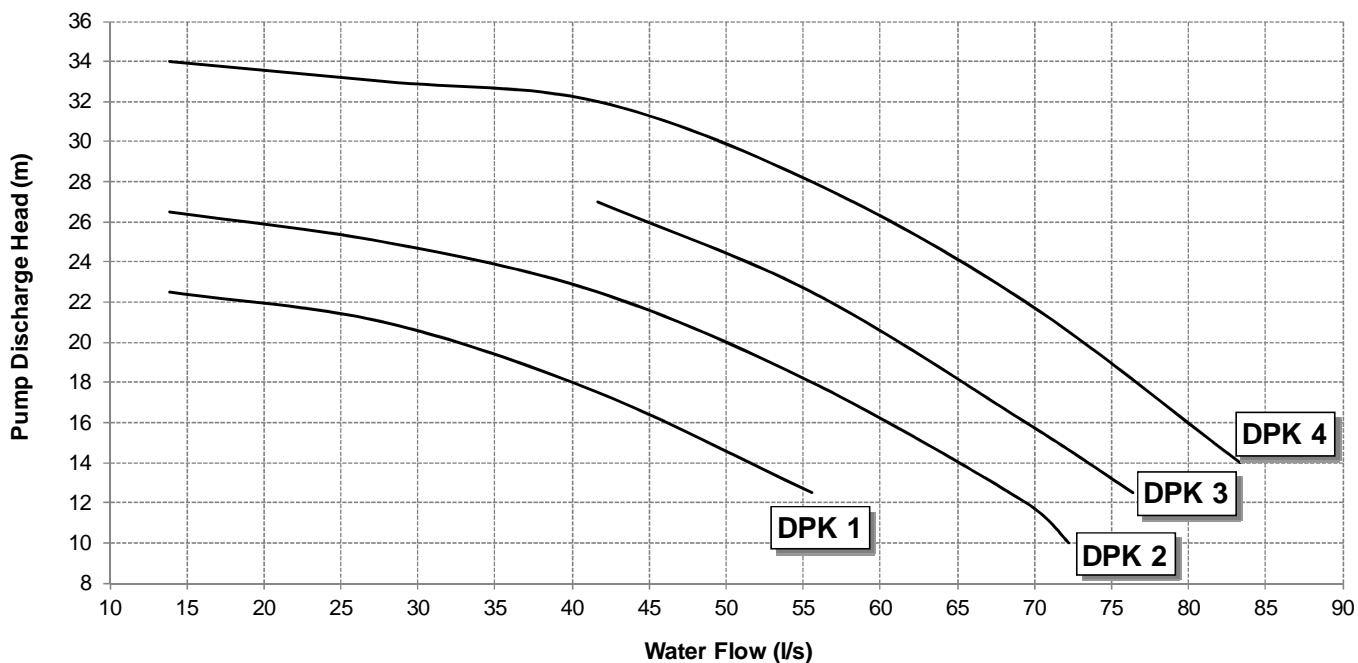
Single Pump (2 poles) - Discharge Head



Notes

- the above curves are referred to the discharge head of the pump only
- when selecting the pump you have to consider the installation and evaporator pressure drops
- when using mixture of water and glycol please contact the factory as above specification can change

Twin Pump (2 poles) - Discharge Head



Notes

- the above curves are referred to the discharge head of the pump only
- when selecting the pump you have to consider the installation and evaporator pressure drops
- when using mixture of water and glycol please contact the factory as above specification can change

Water pump kit combination matrix

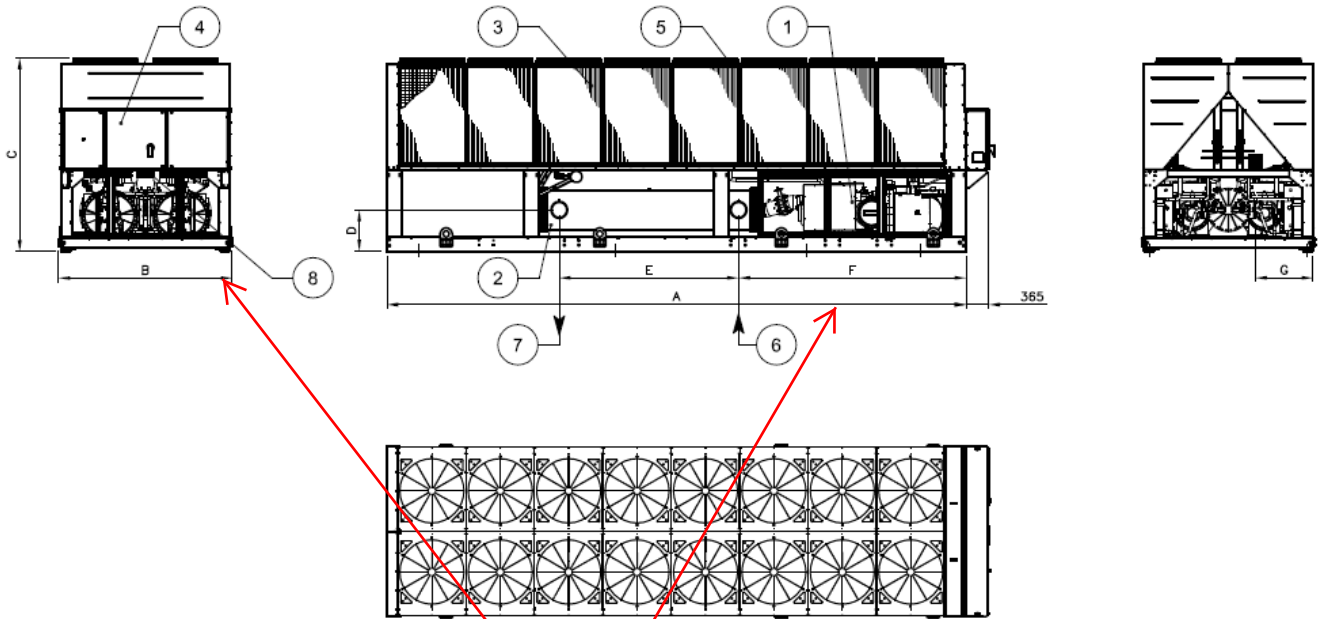
				Single Pump			Double Pump			
				SPK 1	SPK 2	SPK 3	DPK 1	DPK 2	DPK 3	DPK 4
EWAD-C-SS EWAD-C-SL	650	EWAD-C-SR	620	X	X		X	X		
	740		720	X	X		X	X		
	830		790	X	X		X	X		
	910		880	X	X		X	X		
	970		920	X	X	X	X	X		
	C11		C10	X	X	X	X	X		
	C12		C11	X	X	X	X	X	X	X
	C13		C12		X	X			X	X
	H14		H14			X				X
EWAD-C-XS EWAD-C-XL	760	EWAD-C-XR	740	X	X		X	X		
	830		810	X	X		X	X		
	890		870	X	X		X	X		
	990		970	X	X	X	X	X	X	X
	C10		C10	X	X	X	X	X	X	X
	C11		C11	X	X	X		X	X	X
	C12		C12	X	X	X		X	X	X
	C13		C13	X	X	X		X	X	X
	H14		H14			X				X
	H15		H15			X				X
EWAD-C-PS EWAD-C-PL	820	EWAD-C-PR	810	X	X		X	X		
	890		880	X	X		X	X		
	980		960	X	X	X	X	X		
	C11		C10	X	X	X	X	X	X	X
	C12		C11	X	X	X		X	X	X
	C13		C13	X	X	X		X	X	X
	C14		C14		X	X		X	X	X
	C15		C15			X				X
	C16		C16							

Water pump kit technical information

		Pump Motor Power (kW)	Pump Motor Current (A)	Power supply (V-ph-Hz)	PN	Motor Protection	Insulation (Class)	Working Temp. (°C)
Single Pump	SPK 1	11.0	20.0	400V-3ph-50hz	16	IP55	class F	-20 +140
	SPK 2	15.0	26.5	400V-3ph-50hz	16	IP55	class F	-20 +140
	SPK 3	18.5	32.5	400V-3ph-50hz	16	IP55	class F	-20 +140
Double Pump	DPK 1	11.0	20.0	400V-3ph-50hz	16	IP55	class F	-20 +140
	DPK 2	15.0	26.5	400V-3ph-50hz	16	IP55	class F	-20 +140
	DPK 3	18.5	32.5	400V-3ph-50hz	16	IP55	class F	-20 +140
	DPK 4	22.0	39.0	400V-3ph-50hz	16	IP55	class F	-20 +140

Note
- when using mixture of water and glycol please contact the factory as above specification can change

EWAD-C- (2 circuits)



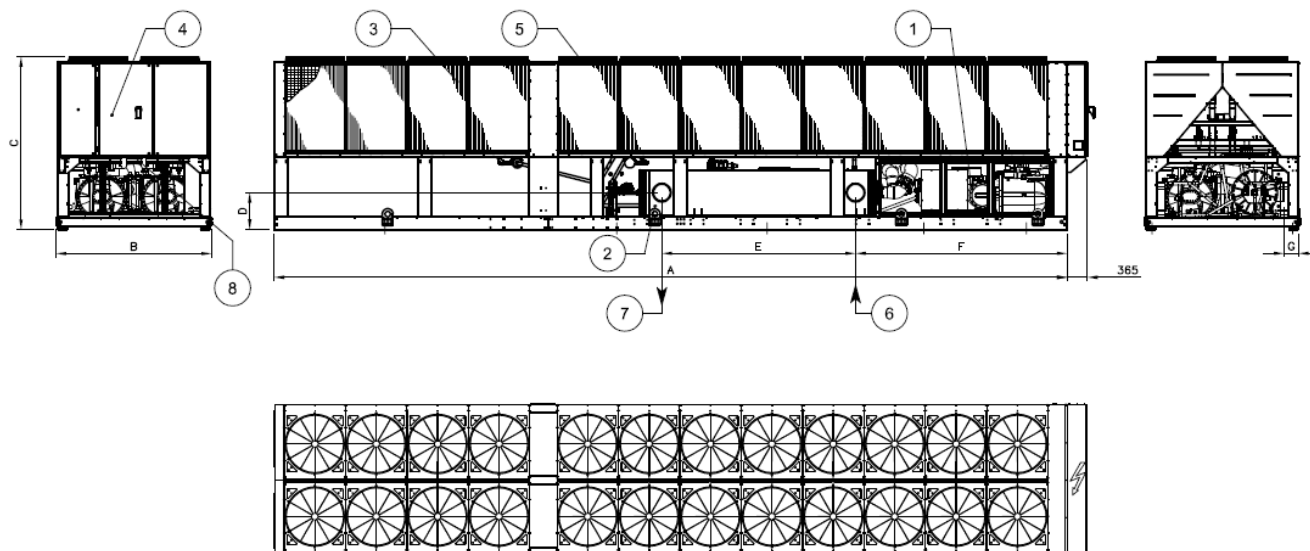
Drawing is for illustration only. Please refer to the table below for unit dimensions.

EWAD~C-		Dimensions (mm)							Fans
Size	Size	A	B	C	D	E	F	G	
EWAD650÷830C-SS/SL	EWAD620÷720C-SR	2285	6185	2540	450	2412	435	810	Nr 10
EWAD910÷970C-SS/SL	EWAD880÷920C-SR	2285	6185	2540	450	2412	435	810	Nr 12
EWADC11C-SS/SL	EWADC10C-SR	2285	7085	2540	1350	2412	435	810	Nr 14
EWADC12C-SS/SL	EWADC11C-SR	2285	7985	2540	2250	2412	435	810	Nr 16
EWADC13÷H14C-SS/SL	EWADC12÷H14C-SR	2285	8885	2540	3170	2360	540	760	Nr 18
EWAD760C-XS/XL	EWAD740C-XR	2285	6185	2540	470	2412	435	810	Nr 12
EWAD830÷890C-XS/XL	EWAD810÷870C-XR	2285	7085	2540	1370	2412	435	810	Nr 14
EWAD990÷C10C-XS/XL	EWAD970÷C10C-XR	2285	7985	2540	2270	2360	540	760	Nr 16
EWADC11÷C13C-XS/XL	EWADC11÷C13C-XR	2285	9785	2540	4070	2360	540	760	Nr 20
EWADH14÷H15C-XS/XL/XR		2285	9785	2540	2920	3440	540	685	Nr 20
EWAD820÷890C-PS/PL	EWAD810÷880C-PR	2285	8885	2540	2020	3510	540	760	Nr 18
EWAD980C-PS/PL	EWAD960C-PR	2285	8885	2540	2020	3440	540	685	Nr 18
EWADC11÷C12C-PS/PL	EWADC10÷C11C-PR	2285	9785	2540	2920	3440	540	685	Nr 20
EWADC13C-PS/PL	EWADC13C-PR	2285	11085	2540	4205	3440	540	685	Nr 22
EWADC14C-PS/PL	EWADC14C-PR	2285	11985	2540	5105	3440	540	685	Nr 24
EWADC15÷C16C-PS/PL/PR		2285	11985	2540	5130	3440	540	685	Nr 24

LEGEND

1. Compressor
2. Evaporator
3. Condenser coil
4. Electrical panel
5. Fan
6. Evaporator Water inlet
7. Evaporator Water outlet
8. Slot for power and control connection

EWAD-C- (3 circuits)



Drawing is for illustration only. Please refer to the table below for unit dimensions.

EWAD~C-		Dimensions (mm)							Fans
Size	Size	A	B	C	D	E	F	G	
EWADC14÷C15C-SS/SL	EWADC13÷C14C-SR	2285	10185	2540	4440	2360	540	285	Nr 20
EWADC16÷C17C-SS/SL	EWADC15÷C16C-SR	2285	11085	2540	5340	2360	540	285	Nr 22
EWADC18C-SS/SL	EWADC17C-SR	2285	11085	2540	4780	2840	540	210	Nr 22
EWADC19÷C20C-SS/SL	EWADC18÷C19C-SR	2285	11985	2540	5680	2840	540	210	Nr 24
EWADC14C-XS/XL	EWADC14C-XR	2285	11985	2540	5680	2910	540	285	Nr 24
EWADC15÷C16C-XS/XL	EWADC15÷C16C-XR	2285	11985	2540	5680	2840	540	210	Nr 24
EWADC17C-XS/XL	EWADC17C-XR	2285	12885	2540	6580	2840	540	210	Nr 26
EWADC18C-XS/XL	EWADC18C-XR	2285	13785	2540	7480	2840	540	210	Nr 28
EWADC19C- XS/XL	EWADC19C-XR	2285	14685	2540	8380	2840	540	210	Nr 30
EWADH14÷H15C-XS/XL/XR		2285	14685	2540	8380	2840	540	210	Nr 30

LEGEND

1. Compressor
2. Evaporator
3. Condenser coil
4. Electrical panel
5. Fan
6. Evaporator Water inlet
7. Evaporator Water outlet
8. Slot for power and control connection

Warning Installation and maintenance of the unit must be performed only by qualified personnel who have knowledge with local codes and regulations, and experience with this type of equipment. Must be avoided the unit installation in places that could be considered dangerous for all the maintenance operations.

Handling Care should be taken to avoid rough handling or shock due to dropping the unit. Do not push or pull the unit from anything other than the base frame. Never allow the unit to fall during unloading or moving as this may result in serious damage. To lift the unit, rings are provided in the base frame of the unit. Spreader bar and cables should be arranged to prevent damage to the condenser coil or unit cabinet.

Location The units are produced for outside installation on roofs, floors or below ground level on condition that the area is free from obstacles for the passage of the condenser air. The unit should be positioned on solid foundations and perfectly level; in the case of installation on roofs or floors, it may be advisable to arrange the use of suitable weight distribution beams. When the units are installed on the ground, a concrete base at least 250 mm wider and longer than the unit's footprint should be laid. Furthermore, this base should withstand the unit weight mentioned in the technical data table.

Space requirements The units are air-cooled, then it is important to respect the minimum distances which guarantee the best ventilation of the condenser coils. Limitations of space reducing the air flow could cause significant reductions in cooling capacity and an increase in electricity consumption.

To determinate unit placement, careful consideration must be given to assure a sufficient air flow across the condenser heat transfer surface. Two conditions must be avoided to achieve the best performance: warm air recirculation and coil starvation.

Both these conditions cause an increase of condensing pressures that results in reductions in unit efficiency and capacity.

Moreover the unique microprocessor has the ability to calculate the operating environment of the air cooled chiller and the capacity to optimize its performance staying on-line during abnormal conditions.

Each side of the unit must be accessible after installation for periodic service. Fig.1 shows you minimum recommended clearance requirements.

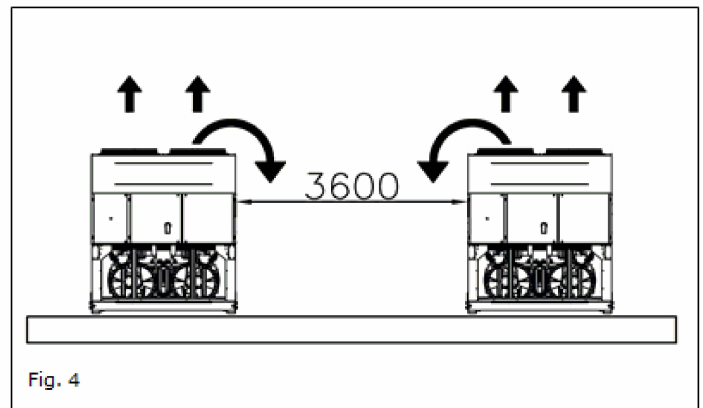
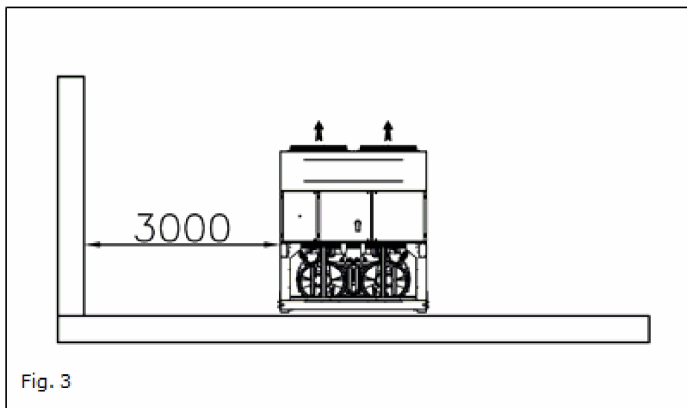
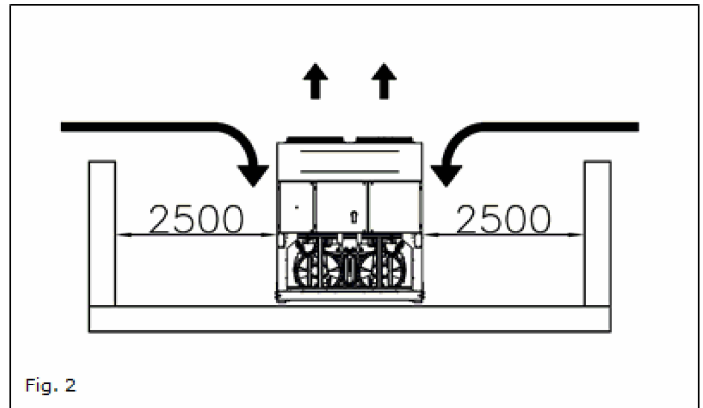
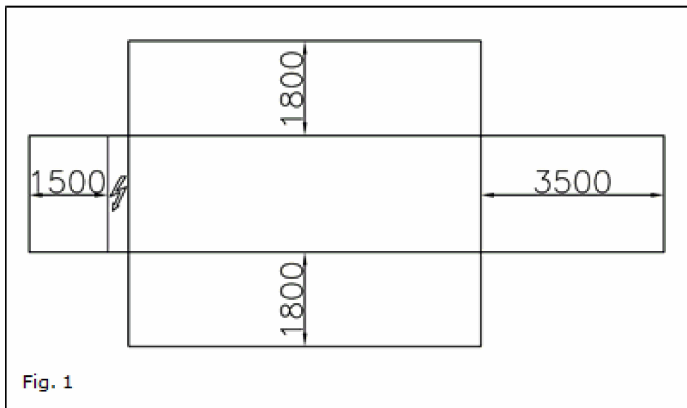
Vertical condenser air discharge must be unobstructed because the unit would have its capacity and efficiency significantly reduced.

If the units are positioned in places surrounded by walls or obstacles of the same height as the units, the units should be at least 2500 mm from obstacles (Fig.2). In the event the obstacles are higher than the units, the units should be at least 3000 mm from the obstacle (Fig.3). Units installed closer than the minimum recommended distance to a wall or other vertical riser may experience a combination of coil starvation and warm air recirculation, thus causing reduction in unit capacity and efficiency reductions. The microprocessor control is proactive in response "of design condition". In the case of single or compounded influences restricting airflow to the unit, the microprocessor will act to keep the compressor(s) running (at reduced capacity) rather than allowing a shut-off on high discharge pressure.

When two or more units are positioned side by side it is recommended that the condenser coils are at least 3600 mm distance from one another (Fig.4); strong wind could be the cause of air warm recirculation.

For other installation solutions, consult our technicians.

The above recommended information are representative of general installation. A specific evaluation should be done by contractor depending on the case.



Acoustic protection When noise level must meet special requirements, it is necessary to pay the maximum attention to ensure the perfect insulation of the unit from the support base by applying appropriate vibration-dampening devices on the unit, on the water pipes and on the electrical connections.

Storage The environment conditions have to be in the following limits:

Minimum ambient temperature:	-20°C
Maximum ambient temperature:	+57°C
Maximum R.H.:	95% not condensing

General The chiller will be designed and manufactured in accordance with the following European directives:

- Construction of pressure vessel 97/23/EC (PED)
- Machinery Directive 2006/42/EC
- Low Voltage 2006/95/EC
- Electromagnetic Compatibility 2004/108/EC
- Electrical & Safety codes EN 60204-1 / EN 60335-2-40
- Manufacturing Quality Standards UNI – EN ISO 9001:2004

To avoid any losses, the unit will be tested at full load in the factory (at the nominal working conditions and water temperatures). The chiller will be delivered to the job site completely assembled and charged with refrigerant and oil. The installation of the chiller must comply with the manufacturer's instructions for rigging and handling equipment.

The unit will be able to start up and operate (as standard) at full load with:

- outside air temperature from °C to °C
- evaporator leaving fluid temperature between °C and °C

Refrigerant Only HFC 134a can be used.

Performance Chiller shall supply the following performances:

- Number of chiller(s) : unit(s)
 - Cooling capacity for single chiller : kW
 - Power input for single chiller in cooling mode : kW
 - Heat exchanger entering water temperature in cooling mode : °C
 - Heat exchanger leaving water temperature in cooling mode : °C
 - Heat exchanger water flow : l/s
 - Nominal outside working ambient temperature in cooling mode : °C
- Operating voltage range should be 400V ±10%, 3ph, 50Hz, voltage unbalance maximum 3%, without neutral conductor and shall only have one power connection point.

Unit description Chiller shall include as standard not less than: two or three independent refrigerant circuits (depending on the size), semi-hermetic asymmetric type rotary single screw compressors, electronic expansion device (EEXV), refrigerant direct expansion 'shell&tube' heat exchanger, air-cooled condenser section, R-134a refrigerant, lubrication system, motor starting components, discharge line shut-off valve, control system and all components necessary for a safe and stable unit operation. The chiller will be factory assembled on a robust base frame made of galvanized steel, protected by an epoxy paint.

Sound level and vibrations Sound pressure level at 1 meter distance in free field, semispheric conditions, shall not exceeddB(A). The sound pressure levels must be rated in accordance to ISO 3744 (other types of rating can not be used). Vibration on the base frame should not exceed 2 mm/s.

Dimensions Unit dimensions shall not exceed following indications:

- Unit length mm
- Unit width mm
- Unit height mm

Compressors (Asymmetric) The unit shall be equipped with:

- Semi-hermetic, single-screw asymmetric type with one main helical rotor meshing with two diametrical opposed gaterotors. The gaterotors' contact elements shall be constructed of composite material designed for extended life. Electrical motor shall be 2-pole, semi-hermetic, squirrel-cage induction type and cooled by suction gas.
- The oil injection shall be used in order to get high EER (Energy Efficiency Ratio) also at high condensing pressure and low sound pressure levels in each load condition.
- The compressor shall be provided with a built in, high efficiency, mesh type oil separator and oil filter.
- Refrigerant system differential pressure shall provide oil injection on all moving compressor parts to correctly lubricate them. Electrical oil pump lubricating system is not allowed.
- Compressor cooling must be done by refrigerant liquid injection. An external dedicated heat exchanger and additional piping to carry the oil from compressor to heat exchanger and viceversa is not allowed.
- The compressor shall be direct electrical driven, without gear transmission between the screw and the electrical motor.
- The compressor casing shall be provided with ports to realize economized refrigerant cycles.
- The compressor must be protected by a temperature sensor for high discharge temperature and an electrical motor thermistor for high winding temperature.
- The compressor shall be equipped with an electric oil heater.
- The compressor shall be fully field serviceable. Compressor that must be removed and returned to the factory for service shall be unacceptable.

Evaporator The units shall be equipped with a direct expansion shell&tube evaporator with copper tubes rolled into steel tubesheets. The evaporator shall be single-pass on both the refrigerant and water sides for pure counter-flow heat exchange and low refrigerant pressure drops.

- The external shell shall be linked with an electrical heater to prevent freezing down to -28°C ambient temperature, controlled by a thermostat and shall be insulated with flexible, closed cell polyurethane insulation material (20-mm thick).
- The evaporator will have 2 or 3 circuits, one for each compressor and shall be single refrigerant pass.
- The water connections shall be VICTAULIC type connections as standard to ensure quick mechanical disconnection between the unit and the hydronic network.
- The evaporator will be manufactured in accordance to PED approval.

Condenser coil The unit shall be equipped with condenser coils constructed with internally finned seamless copper tubes and arranged in a staggered row pattern and mechanically expanded into lanced and rippled aluminium fins with full fin collars for higher efficiencies. The space between the fins is given by a collar that will increase the surface area in connection with the tubes, protecting them from ambient corrosion.

- The condenser coils will have an integral subcooler circuit that provides sufficient subcooling to effectively eliminate the possibility of liquid flashing and increase the unit's efficiency with 5% to 7% without increasing in energy consumption.
- The condenser coils shall be leak-tested and submitted to a pressure test with dry air.

Condenser fans The condenser fans used in conjunction with the condenser coils, shall be propeller type with glass reinforced resin blades for higher efficiencies and lower sound. Each fan shall be protected by a fan guard.

- The air discharge shall be vertical and each fan must be coupled to the electrical motor, supplied as standard to IP54 and capable to work to ambient temperatures of - 20°C to + 65°C.
- The condenser fans shall have as a standard a thermal protection by internal thermal motor protection and protected by circuit breaker installed inside the electrical panel as a standard.

Refrigerant circuit The unit shall have two or three refrigerant circuits (depending on the size).

- The circuit shall include as standard: electronic expansion device piloted by unit's microprocessor control, compressor discharge shut-off valve, liquid line shut-off valve, sight glass with moisture indicator, replaceable filter drier, charging valves, high pressure switch, high and low pressure transducers, oil pressure transducer and insulated suction line.

Condensation control The units will be provided with an automatic control for condensing pressure which ensures the working at low external temperatures down to - °C, to maintain condensing pressure.

- The compressor automatically unloads when abnormal high condensing pressure is detected. This to prevent the shutdown of the refrigerant circuit (shutdown of the unit) due to a high-pressure fault.

Low sound unit configurations (on request) The unit compressor shall be connected with unit's metal base frame by rubber antivibration supports to prevent the transmission of vibrations to all metal unit structure, in order to control the unit sound.

- The chiller shall be provided with an acoustical compressor enclosure. This enclosure shall be realized with a light, corrosion resisting aluminium structure and metal panels. The compressor sound-proof enclosure shall be internally fitted with flexible, multi-layer, high density materials.

Hydronic kit options (on request) The hydronic module shall be integrated in the chiller chassis without increasing its dimensions and includes the following elements: centrifugal pump with motor protected by a circuit breaker installed in control panel, water filling system with pressure gauge, safety valve, drain valve.

- The hydronic module shall be assembled and wired to the control panel.
- The water piping shall be protected against corrosion and freezing and insulated to prevent condensation.
- A choice of two pump types shall be available:
 - in-line single pump
 - in-line twin pumps.

Electrical control panel Power and control shall be located in the main panel that will be manufactured to ensure protection against all weather conditions.

- The electrical panel shall be IP54 and (when opening the doors) internally protected with plexiglas panel against possible accidental contact with electrical components (IP20).
- The main panel shall be fitted with a main switch interlocked door.
- The power section will include compressors and fans protection devices, compressors and fans starters and control circuit power supply.

- Controller** The controller will be installed as standard and it will be used to modify unit set-points and check control parameters.
- A built-in display will show chiller operating status plus temperatures and pressures of water, refrigerant and air, programmable values, set-points.
 - A sophisticated software with predictive logic, will select the most energy efficient combination of compressors, EEXV and condenser fans to keep stable operating conditions to maximise chiller energy efficiency and reliability.
 - The controller will be able to protect critical components based on external signs from its system (such as motor temperatures, refrigerant gas and oil pressures, correct phase sequence, pressure switches and evaporator). The input coming from the high pressure switch cuts all digital output from the controller in less than 50ms, this will be an additional security for the equipment.
 - Fast program cycle (200ms) for a precise monitoring of the system.
 - Floating point calculations supported for increased accuracy in P/T conversions.

Controller main features Controller shall be guaranteed following minimum functions:

- Management of the compressor stepless capacity and fans modulation.
- Chiller enabled to work in partial failure condition.
- Full routine operation at condition of:
 - high ambient temperature value
 - high thermal load
 - high evaporator entering water temperature (start-up)
- Display of evaporator entering/leaving water temperature.
- Display of Outdoor Ambient Temperature.
- Display of condensing-evaporating temperature and pressure, suction and discharge superheat for each circuit.
- Leaving water evaporator temperature regulation (temperature tolerance = 0,1°C).
- Compressor and evaporator pumps hours counter.
- Display of Status Safety Devices.
- Number of starts and compressor working hours.
- Optimized management of compressor load.
- Fan management according to condensing pressure.
- Re-start in case of power failure (automatic / manual).
- Soft Load (optimized management of the compressor load during the start-up).
- Start at high evaporator water temperature.
- Return Reset (Set Point Reset based on return water temperature).
- OAT (Outside Ambient temperature) Reset.
- Set point Reset (optional).
- Application and system upgrade with commercial SD cards.
- Ethernet port for remote or local servicing using standard web browsers.
- Two different sets of default parameters could be stored for easy restore.

High Level Communications Interface (on request) The chiller shall be able to communicate to BMS (Building Management System) based on the most common protocols as:

- ModbusRTU
- LonWorks, now also based on the international 8040 Standard Chiller Profile and LonMark Technology
- BacNet BTP certified over IP and MS/TP (class 4) (Native)
- Ethernet TCP/IP.



Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intention to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.



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