Databook

Code:
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EWAD~C- - PHR

Air cooled screw chillers

ECOLOGICAL HFC 134a REFRIGERANT

EWAD~C-

UNIT WITH PARTIAL HEAT RECOVERY

C-SS (Standard Efficiency - Standard Noise) - Cooling Capacity from 632 to 1683 kW
C-SL (Standard Efficiency - Low Noise) - Cooling Capacity from 632 to 1683 kW
C-SR (Standard Efficiency - Reduced Noise) - Cooling Capacity from 603 to 11585 kW
C-XS (High Efficiency - Standard Noise) - Cooling Capacity from 745 to 1833 kW
C-XL (High Efficiency - Low Noise) - Cooling Capacity from 745 to 1833 kW
C-XR (High Efficiency - Reduced Noise) - Cooling Capacity from 7723 to 1783 kW
C-PS (Premium Efficiency - Standard Noise) - Cooling Capacity from 811 to 1371 kW
C-PL (Premium Efficiency - Low Noise) - Cooling Capacity from 811 to 1371 kW
C-PR (Premium Efficiency - Reduced Noise) - Cooling Capacity from 798 to 1337 kW

CE

DAIKIN

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

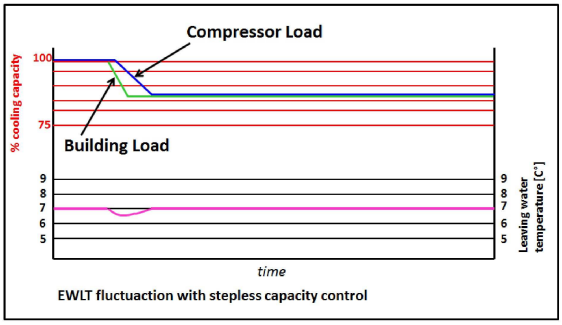
Very low sound levels both at full load and part load conditions are achieved by the latest compressor design and by a unique new fan that moves large volume of air at exceptionally low sound levels and by the virtually vibration-free operation.

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.

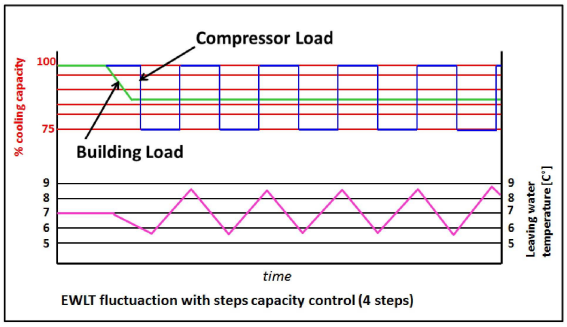
Infinite capacity control

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.



EWLT fluctuaction with stepless capacity 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.



EWLT fluctuaction with steps capacity control (4 steps)

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 environmental. 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 Efficieny

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 x EER100% + B x EER75% + C x EER50% + D x EER25%

	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.
-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) (±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 (ø 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

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

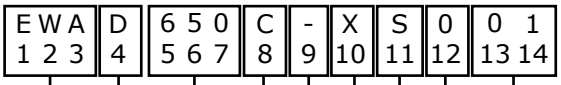
Container Kit

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 reliefe valve.

Transport kit



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	C15
Capacity - Cooling (1)	kW	632	731	816	896	949	1046	1134	1510
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	7.0
Unit power input - Cooling (1)	kW	227	271	309	329	363	390	417	570
EER (1)	---	2.78	2.70	2.64	2.73	2.62	2.68	2.72	2.65
ESEER	---	3.74	3.76	3.69	3.73	3.58	3.70	3.66	3.70
IPLV	---	4.08	3.98	3.95	4.01	3.93	3.97	3.93	4.01
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	10185
WEIGHT									
Unit Weight	kg	5630	5740	5760	6280	6560	7010	7280	10320
Operating Weight	kg	5910	5990	6010	6530	6810	7250	7520	10730
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	408
Nominal water flow rate - Cooling	l/s	30.2	34.9	38.9	42.8	45.3	49.9	54.1	72.1
Nominal Water pressure drop - Cooling	kPa	45	53	51	60	67	62	72	60
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	106885
Quantity	No.	10	10	10	12	12	14	16	20
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	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	75
Quantity	No.	2	2	2	2	2	2	2	3
SOUND LEVEL									
Sound Power - Cooling	dB(A)	100	100	100	101	101	102	102	103
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	260
N. of circuits	No.	2	2	2	2	2	2	2	3
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		C16	C17						
Capacity - Cooling (1)	kW	1594	1683						
Capacity control - Type	---	Stepless	Stepless						
Capacity control - Minimum capacity	%	7.0	7.0						
Unit power input - Cooling (1)	kW	599	640						
EER (1)	---	2.66	2.63						
ESEER	---	3.68	3.60						
IPLV	---	3.96	3.90						
CASING									
Colour	---	IW	IW						
Material (2)	---	GPSS	GPSS						
DIMENSIONS									
Height	mm	2540	2540						
Width	mm	2285	2285						
Length	mm	11085	11085						
WEIGHT									
Unit Weight	kg	10710	10770						
Operating Weight	kg	11110	11260						
WATER HEAT EXCHANGER									
Type (3)	---	S&T	S&T						
Water Volume	l	408	474						
Nominal water flow rate - Cooling	l/s	76.0	80.3						
Nominal Water pressure drop - Cooling	kPa	66	72						
Insulation material (4)		CC	CC						
AIR HEAT EXCHANGER									
Type (5)	---	HFP	HFP						
FAN									
Type (6)	---	DPT	DPT						
Drive (7)	---	DOL	DOL						
Diameter	mm	800	800						
Nominal air flow	l/s	117573	117573						
Quantity	No.	22	22						
Speed	rpm	900	900						
Motor input	kW	38.5	38.5						
COMPRESSOR									
Type	---	Asymm Single Screw	Asymm Single Screw						
Oil charge	l	75	75						
Quantity	No.	3	3						
SOUND LEVEL									
Sound Power - Cooling	dB(A)	103	103						
Sound Pressure - Cooling (8)	dB(A)	81	81						
REFRIGERANT CIRCUIT									
Refrigerant type	---	R134a	R134a						
Refrigerant charge	kg	261	261						
N. of circuits	No.	3	3						
PIPING CONNECTIONS									
Evaporator water inlet/outlet		219.1 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		650	740	830	910	970	C11	C12	C15
Capacity - Cooling (1)	kW	632	731	816	896	949	1046	1134	1510
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	7.0
Unit power input - Cooling (1)	kW	227	271	309	329	363	390	417	570
EER (1)	---	2.78	2.70	2.64	2.73	2.62	2.68	2.72	2.65
ESEER	---	3.74	3.76	3.69	3.73	3.58	3.70	3.66	3.70
IPLV	---	4.08	3.98	3.95	4.01	3.93	3.97	3.93	4.01
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	10185
WEIGHT									
Unit Weight	kg	5920	6030	6050	6570	6850	7300	7570	10770
Operating Weight	kg	6200	6280	6300	6820	7100	7540	7810	11170
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	408
Nominal water flow rate - Cooling	l/s	30.2	34.9	38.9	42.8	45.3	49.9	54.1	72.1
Nominal Water pressure drop - Cooling	kPa	45	53	51	60	67	62	72	60
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	106885
Quantity	No.	10	10	10	12	12	14	16	20
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	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	75
Quantity	No.	2	2	2	2	2	2	2	3
SOUND LEVEL									
Sound Power - Cooling	dB(A)	96	96	96	98	97	98	98	99
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	260
N. of circuits	No.	2	2	2	2	2	2	2	3
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		C16	C17						
Capacity - Cooling (1)	kW	1594	1683						
Capacity control - Type	---	Stepless	Stepless						
Capacity control - Minimum capacity	%	7.0	7.0						
Unit power input - Cooling (1)	kW	599	640						
EER (1)	---	2.66	2.63						
ESEER	---	3.68	3.60						
IPLV	---	3.96	3.90						
CASING									
Colour	---	IW	IW						
Material (2)	---	GPSS	GPSS						
DIMENSIONS									
Height	mm	2540	2540						
Width	mm	2285	2285						
Length	mm	11085	11085						
WEIGHT									
Unit Weight	kg	11150	11210						
Operating Weight	kg	11550	11700						
WATER HEAT EXCHANGER									
Type (3)	---	S&T	S&T						
Water Volume	l	408	474						
Nominal water flow rate - Cooling	l/s	76.0	80.3						
Nominal Water pressure drop - Cooling	kPa	66	72						
Insulation material (4)		CC	CC						
AIR HEAT EXCHANGER									
Type (5)	---	HFP	HFP						
FAN									
Type (6)	---	DPT	DPT						
Drive (7)	---	DOL	DOL						
Diameter	mm	800	800						
Nominal air flow	l/s	117573	117573						
Quantity	No.	22	22						
Speed	rpm	900	900						
Motor input	kW	38.5	38.5						
COMPRESSOR									
Type	---	Asymm Single Screw	Asymm Single Screw						
Oil charge	l	75	75						
Quantity	No.	3	3						
SOUND LEVEL									
Sound Power - Cooling	dB(A)	100	100						
Sound Pressure - Cooling (8)	dB(A)	77	77						
REFRIGERANT CIRCUIT									
Refrigerant type	---	R134a	R134a						
Refrigerant charge	kg	261	261						
N. of circuits	No.	3	3						
PIPING CONNECTIONS									
Evaporator water inlet/outlet		219.1 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		620	720	790	880	920	C10	C11	C13
Capacity - Cooling (1)	kW	603	699	769	857	900	997	1089	1338
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	7.0
Unit power input - Cooling (1)	kW	230	283	325	342	382	408	432	536
EER (1)	---	2.62	2.47	2.36	2.50	2.35	2.44	2.52	2.49
ESEER	---	3.86	3.75	3.60	3.78	3.77	3.75	3.74	3.68
IPLV	---	4.13	4.09	3.97	4.07	3.97	3.99	4.06	3.96
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	10185
WEIGHT									
Unit Weight	kg	5920	6030	6050	6570	6850	7300	7570	10750
Operating Weight	kg	6200	6280	6300	6820	7100	7540	7810	11170
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	421
Nominal water flow rate - Cooling	l/s	28.8	33.4	36.7	40.9	42.9	47.6	52.0	63.8
Nominal Water pressure drop - Cooling	kPa	41	48	46	55	61	57	67	43
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	82014
Quantity	No.	10	10	10	12	12	14	16	20
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	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	75
Quantity	No.	2	2	2	2	2	2	2	3
SOUND LEVEL									
Sound Power - Cooling	dB(A)	92	92	92	93	93	94	94	95
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	260
N. of circuits	No.	2	2	2	2	2	2	2	3
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		C14	C15	C16					
Capacity - Cooling (1)	kW	1436	1521	1585					
Capacity control - Type	---	Stepless	Stepless	Stepless					
Capacity control - Minimum capacity	%	7.0	7.0	7.0					
Unit power input - Cooling (1)	kW	598	625	670					
EER (1)	---	2.40	2.43	2.37					
ESEER	---	3.66	3.69	3.64					
IPLV	---	4.01	4.02	3.94					
CASING									
Colour	---	IW	IW	IW					
Material (2)	---	GPSS	GPSS	GPSS					
DIMENSIONS									
Height	mm	2540	2540	2540					
Width	mm	2285	2285	2285					
Length	mm	10185	11085	11085					
WEIGHT									
Unit Weight	kg	10770	11150	11210					
Operating Weight	kg	11170	11550	11700					
WATER HEAT EXCHANGER									
Type (3)	---	S&T	S&T	S&T					
Water Volume	l	408	408	474					
Nominal water flow rate - Cooling	l/s	68.5	72.6	75.6					
Nominal Water pressure drop - Cooling	kPa	55	61	66					
Insulation material (4)		CC	CC	CC					
AIR HEAT EXCHANGER									
Type (5)	---	HFP	HFP	HFP					
FAN									
Type (6)	---	DPT	DPT	DPT					
Drive (7)	---	DOL	DOL	DOL					
Diameter	mm	800	800	800					
Nominal air flow	l/s	82014	90216	90216					
Quantity	No.	20	22	22					
Speed	rpm	700	700	700					
Motor input	kW	15.7	17.3	17.3					
COMPRESSOR									
Type	---	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw					
Oil charge	l	75	75	75					
Quantity	No.	3	3	3					
SOUND LEVEL									
Sound Power - Cooling	dB(A)	95	95	95					
Sound Pressure - Cooling (8)	dB(A)	73	73	73					
REFRIGERANT CIRCUIT									
Refrigerant type	---	R134a	R134a	R134a					
Refrigerant charge	kg	260	261	261					
N. of circuits	No.	3	3	3					
PIPING CONNECTIONS									
Evaporator water inlet/outlet		219.1 mm	219.1 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-XS

MODEL		760	830	890	990	C10	C11	C12	C13
Capacity - Cooling (1)	kW	745	819	876	986	1057	1180	1262	1328
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	240	261	287	317	349	375	413	423
EER (1)	---	3.10	3.13	3.05	3.11	3.03	3.14	3.05	3.14
ESEER	---	3.83	3.93	3.81	3.91	3.85	3.94	3.83	4.07
IPLV	---	4.25	4.25	4.22	4.25	4.21	4.28	4.23	4.34
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	35.6	39.1	41.8	47.1	50.5	56.3	60.2	63.3
Nominal Water pressure drop - Cooling	kPa	79	55	63	59	67	44	50	66
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		C16	C17	C18	C19				
Capacity - Cooling (1)	kW	1573	1662	1744	1833				
Capacity control - Type	---	Stepless	Stepless	Stepless	Stepless				
Capacity control - Minimum capacity	%	7.0	7.0	7.0	7.0				
Unit power input - Cooling (1)	kW	520	551	580	609				
EER (1)	---	3.02	3.02	3.01	3.01				
ESEER	---	3.97	3.97	3.92	3.94				
IPLV	---	4.29	4.27	4.24	4.25				
CASING									
Colour	---	IW	IW	IW	IW				
Material (2)	---	GPSS	GPSS	GPSS	GPSS				
DIMENSIONS									
Height	mm	2540	2540	2540	2540				
Width	mm	2285	2285	2285	2285				
Length	mm	11985	12885	13785	14685				
WEIGHT									
Unit Weight	kg	11570	11900	12260	12600				
Operating Weight	kg	12430	12760	13140	13470				
WATER HEAT EXCHANGER									
Type (3)	---	S&T	S&T	S&T	S&T				
Water Volume	l	850	850	871	850				
Nominal water flow rate - Cooling	l/s	75.1	79.3	83.2	87.4				
Nominal Water pressure drop - Cooling	kPa	61	67	66	73				
Insulation material (4)		CC	CC	CC	CC				
AIR HEAT EXCHANGER									
Type (5)	---	HFP	HFP	HFP	HFP				
FAN									
Type (6)	---	DPT	DPT	DPT	DPT				
Drive (7)	---	DOL	DOL	DOL	DOL				
Diameter	mm	800	800	800	800				
Nominal air flow	l/s	128262	138950	149639	160327				
Quantity	No.	24	26	28	30				
Speed	rpm	900	900	900	900				
Motor input	kW	42.0	45.5	49.0	52.5				
COMPRESSOR									
Type	---	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw				
Oil charge	l	75	75	75	75				
Quantity	No.	3	3	3	3				
SOUND LEVEL									
Sound Power - Cooling	dB(A)	103	104	104	104				
Sound Pressure - Cooling (8)	dB(A)	81	81	81	81				
REFRIGERANT CIRCUIT									
Refrigerant type	---	R134a	R134a	R134a	R134a				
Refrigerant charge	kg	297	312	328	343				
N. of circuits	No.	3	3	3	3				
PIPING CONNECTIONS									
Evaporator water inlet/outlet		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		760	830	890	990	C10	C11	C12	C13
Capacity - Cooling (1)	kW	745	819	876	986	1057	1180	1262	1328
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	240	261	287	317	349	375	413	423
EER (1)	---	3.10	3.13	3.05	3.11	3.03	3.14	3.05	3.14
ESEER	---	3.83	3.93	3.81	3.91	3.85	3.94	3.83	4.07
IPLV	---	4.25	4.25	4.22	4.25	4.21	4.28	4.23	4.34
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	35.6	39.1	41.8	47.1	50.5	56.3	60.2	63.3
Nominal Water pressure drop - Cooling	kPa	79	55	63	59	67	44	50	66
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		C16	C17	C18	C19				
Capacity - Cooling (1)	kW	1573	1662	1744	1833				
Capacity control - Type	---	Stepless	Stepless	Stepless	Stepless				
Capacity control - Minimum capacity	%	7.0	7.0	7.0	7.0				
Unit power input - Cooling (1)	kW	520	551	580	609				
EER (1)	---	3.02	3.02	3.01	3.01				
ESEER	---	3.97	3.97	3.92	3.94				
IPLV	---	4.29	4.27	4.24	4.25				
CASING									
Colour	---	IW	IW	IW	IW				
Material (2)	---	GPSS	GPSS	GPSS	GPSS				
DIMENSIONS									
Height	mm	2540	2540	2540	2540				
Width	mm	2285	2285	2285	2285				
Length	mm	11985	12885	13785	14685				
WEIGHT									
Unit Weight	kg	12010	12350	12700	13040				
Operating Weight	kg	12870	13200	13580	13910				
WATER HEAT EXCHANGER									
Type (3)	---	S&T	S&T	S&T	S&T				
Water Volume	l	850	850	871	850				
Nominal water flow rate - Cooling	l/s	75.1	79.3	83.2	87.4				
Nominal Water pressure drop - Cooling	kPa	61	67	66	73				
Insulation material (4)		CC	CC	CC	CC				
AIR HEAT EXCHANGER									
Type (5)	---	HFP	HFP	HFP	HFP				
FAN									
Type (6)	---	DPT	DPT	DPT	DPT				
Drive (7)	---	DOL	DOL	DOL	DOL				
Diameter	mm	800	800	800	800				
Nominal air flow	l/s	128262	138950	149639	160327				
Quantity	No.	24	26	28	30				
Speed	rpm	900	900	900	900				
Motor input	kW	42.0	45.5	49.0	52.5				
COMPRESSOR									
Type	---	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw				
Oil charge	l	75	75	75	75				
Quantity	No.	3	3	3	3				
SOUND LEVEL									
Sound Power - Cooling	dB(A)	100	100	100	100				
Sound Pressure - Cooling (8)	dB(A)	77	77	78	78				
REFRIGERANT CIRCUIT									
Refrigerant type	---	R134a	R134a	R134a	R134a				
Refrigerant charge	kg	297	312	328	343				
N. of circuits	No.	3	3	3	3				
PIPING CONNECTIONS									
Evaporator water inlet/outlet		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		740	810	870	970	C10	C11	C12	C13
Capacity - Cooling (1)	kW	723	798	851	957	1021	1149	1225	1277
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	242	262	291	320	355	377	419	428
EER (1)	---	2.98	3.04	2.93	2.99	2.88	3.04	2.93	2.98
ESEER	---	4.07	4.14	4.00	4.12	4.04	4.15	4.02	4.10
IPLV	---	4.31	4.35	4.29	4.38	4.26	4.40	4.30	4.35
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	34.5	38.1	40.6	45.7	48.7	54.8	58.5	60.9
Nominal Water pressure drop - Cooling	kPa	75	53	59	56	63	42	47	62
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		C16	C17	C18	C19				
Capacity - Cooling (1)	kW	1522	1610	1693	1783				
Capacity control - Type	---	Stepless	Stepless	Stepless	Stepless				
Capacity control - Minimum capacity	%	7.0	7.0	7.0	7.0				
Unit power input - Cooling (1)	kW	529	560	586	617				
EER (1)	---	2.88	2.88	2.89	2.89				
ESEER	---	4.04	3.99	4.00	3.99				
IPLV	---	4.36	4.34	4.34	4.31				
CASING									
Colour	---	IW	IW	IW	IW				
Material (2)	---	GPSS	GPSS	GPSS	GPSS				
DIMENSIONS									
Height	mm	2540	2540	2540	2540				
Width	mm	2285	2285	2285	2285				
Length	mm	11985	12885	13785	14685				
WEIGHT									
Unit Weight	kg	12010	12350	12700	13040				
Operating Weight	kg	12870	13200	13580	13910				
WATER HEAT EXCHANGER									
Type (3)	---	S&T	S&T	S&T	S&T				
Water Volume	l	850	850	871	850				
Nominal water flow rate - Cooling	l/s	72.6	76.8	80.8	85.1				
Nominal Water pressure drop - Cooling	kPa	57	63	63	69				
Insulation material (4)		CC	CC	CC	CC				
AIR HEAT EXCHANGER									
Type (5)	---	HFP	HFP	HFP	HFP				
FAN									
Type (6)	---	DPT	DPT	DPT	DPT				
Drive (7)	---	DOL	DOL	DOL	DOL				
Diameter	mm	800	800	800	800				
Nominal air flow	l/s	98417	106619	114820	123021				
Quantity	No.	24	26	28	30				
Speed	rpm	700	700	700	700				
Motor input	kW	18.8	20.4	22.0	23.5				
COMPRESSOR									
Type	---	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw	Asymm Single Screw				
Oil charge	l	75	75	75	75				
Quantity	No.	3	3	3	3				
SOUND LEVEL									
Sound Power - Cooling	dB(A)	95	96	96	96				
Sound Pressure - Cooling (8)	dB(A)	73	73	73	73				
REFRIGERANT CIRCUIT									
Refrigerant type	---	R134a	R134a	R134a	R134a				
Refrigerant charge	kg	297	312	328	343				
N. of circuits	No.	3	3	3	3				
PIPING CONNECTIONS									
Evaporator water inlet/outlet		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		820	890	980	C11	C12	C13	C14
Capacity - Cooling (1)	kW	811	879	962	1060	1142	1262	1371
Capacity control - Type	---	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
Unit power input - Cooling (1)	kW	233	256	283	311	340	375	409
EER (1)	---	3.49	3.43	3.41	3.41	3.36	3.36	3.36
ESEER	---	4.23	4.27	4.20	4.31	4.18	4.23	4.09
IPLV	---	4.51	4.43	4.46	4.44	4.48	4.41	4.48
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	8885	8885	9785	9785	11085	11985
WEIGHT								
Unit Weight	kg	7530	7530	7660	8290	8550	9390	9730
Operating Weight	kg	8130	8130	8700	9330	9590	10380	10720
WATER HEAT EXCHANGER								
Type (3)	---	S&T	S&T	S&T	S&T	S&T	S&T	S&T
Water Volume	l	599	599	1043	1027	1027	995	979
Nominal water flow rate - Cooling	l/s	38.7	41.9	45.9	50.6	54.5	60.2	65.4
Nominal Water pressure drop - Cooling	kPa	56	65	30	59	68	59	68
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	96196	96196	106885	106885	117573	128262
Quantity	No.	18	18	18	20	20	22	24
Speed	rpm	900	900	900	900	900	900	900
Motor input	kW	31.5	31.5	31.5	35.0	35.0	38.5	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	38	38	38	44	50	50	50
Quantity	No.	2	2	2	2	2	2	2
SOUND LEVEL								
Sound Power - Cooling	dB(A)	101	101	101	102	102	103	103
Sound Pressure - Cooling (8)	dB(A)	80	80	80	80	81	80	81
REFRIGERANT CIRCUIT								
Refrigerant type	---	R134a	R134a	R134a	R134a	R134a	R134a	R134a
Refrigerant charge	kg	204	202	204	220	220	252	254
N. of circuits	No.	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

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
Capacity - Cooling (1)	kW	811	879	962	1060	1142	1262	1371
Capacity control - Type	---	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
Unit power input - Cooling (1)	kW	233	256	283	311	340	375	409
EER (1)	---	3.49	3.43	3.41	3.41	3.36	3.36	3.36
ESEER	---	4.23	4.27	4.20	4.31	4.18	4.23	4.09
IPLV	---	4.51	4.43	4.46	4.44	4.48	4.41	4.48
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	8885	8885	9785	9785	11085	11985
WEIGHT								
Unit Weight	kg	7820	7820	7950	8580	8840	10380	10720
Operating Weight	kg	8420	8420	8990	9620	9880	10670	11010
WATER HEAT EXCHANGER								
Type (3)	---	S&T	S&T	S&T	S&T	S&T	S&T	S&T
Water Volume	l	599	599	1043	1027	1027	995	979
Nominal water flow rate - Cooling	l/s	38.7	41.9	45.9	50.6	54.5	60.2	65.4
Nominal Water pressure drop - Cooling	kPa	56	65	30	59	68	59	68
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	96196	96196	106885	106885	117573	128262
Quantity	No.	18	18	18	20	20	22	24
Speed	rpm	900	900	900	900	900	900	900
Motor input	kW	31.5	31.5	31.5	35.0	35.0	38.5	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	38	38	38	44	50	50	50
Quantity	No.	2	2	2	2	2	2	2
SOUND LEVEL								
Sound Power - Cooling	dB(A)	98	98	98	99	100	99	100
Sound Pressure - Cooling (8)	dB(A)	77	77	77	77	77	77	77
REFRIGERANT CIRCUIT								
Refrigerant type	---	R134a	R134a	R134a	R134a	R134a	R134a	R134a
Refrigerant charge	kg	204	202	204	220	220	252	254
N. of circuits	No.	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

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
Capacity - Cooling (1)	kW	798	863	942	1037	1114	1231	1337
Capacity control - Type	---	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
Unit power input - Cooling (1)	kW	226	253	281	309	341	376	409
EER (1)	---	3.53	3.42	3.35	3.36	3.27	3.28	3.27
ESEER	---	4.38	4.34	4.29	4.36	4.26	4.29	4.28
IPLV	---	4.75	4.61	4.61	4.60	4.55	4.54	4.55
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	8885	8885	9785	9785	11085	11985
WEIGHT								
Unit Weight	kg	7820	7820	7950	8580	8840	10380	10720
Operating Weight	kg	8420	8420	8990	9620	9880	10670	11010
WATER HEAT EXCHANGER								
Type (3)	---	S&T	S&T	S&T	S&T	S&T	S&T	S&T
Water Volume	l	599	599	1043	1027	1027	995	979
Nominal water flow rate - Cooling	l/s	38.1	41.2	44.9	49.5	53.1	58.7	63.8
Nominal Water pressure drop - Cooling	kPa	55	63	29	57	65	56	65
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	73813	73813	73813	82014	82014	90216	98417
Quantity	No.	18	18	18	20	20	22	24
Speed	rpm	700	700	700	700	700	700	700
Motor input	kW	14.1	14.1	14.1	15.7	15.7	17.3	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
Oil charge	l	38	38	38	44	50	50	50
Quantity	No.	2	2	2	2	2	2	2
SOUND LEVEL								
Sound Power - Cooling	dB(A)	93	93	93	93	94	94	94
Sound Pressure - Cooling (8)	dB(A)	71	71	71	72	72	72	72
REFRIGERANT CIRCUIT								
Refrigerant type	---	R134a	R134a	R134a	R134a	R134a	R134a	R134a
Refrigerant charge	kg	204	202	204	220	220	252	254
N. of circuits	No.	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

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	C15
Capacity - Cooling	kW	640	738	824	904	958	1055	1143	1524
Unit power input - Cooling	kW	224	266	304	323	356	384	410	561
Heat recovery capacity	**kW**	**132**	**138**	**159**	**166**	**195**	**210**	**220**	**304**
HEAT RECOVERY EXCHANGER									
Type		PHE	PHE	PHE	PHE	PHE	PHE	PHE	PHE
Water temperature in	°C	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
Water temperature out	°C	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
Nominal water flow rate	l/s	6.4	6.7	7.6	8.0	9.4	10.1	10.6	14.7
Nominal Water pressure drop	kPa	44	63	65	67	67	71	57	70
EVAPORATOR									
Nominal water flow rate	l/s	30.5	35.2	39.3	43.2	45.7	50.3	54.5	72.7
Nominal Water pressure drop	kPa	46	53	52	61	68	63	73	61

MODEL		C16	C17
Capacity - Cooling	kW	1608	1699
Unit power input - Cooling	kW	589	629
Heat recovery capacity	**kW**	**319**	**333**
HEAT RECOVERY EXCHANGER			
Type		PHE	PHE
Water temperature in	°C	40.0	40.0
Water temperature out	°C	45.0	45.0
Nominal water flow rate	l/s	15.5	16.0
Nominal Water pressure drop	kPa	70	62
EVAPORATOR			
Nominal water flow rate	l/s	76.7	81.1
Nominal Water pressure drop	kPa	67	74

EWAD C-SL

MODEL		650	740	830	910	970	C11	C12	C15
Capacity - Cooling	kW	640	738	824	904	958	1055	1143	1524
Unit power input - Cooling	kW	224	266	304	323	356	384	410	561
Heat recovery capacity	**kW**	**132**	**138**	**159**	**166**	**195**	**210**	**220**	**304**
HEAT RECOVERY EXCHANGER									
Type		PHE	PHE	PHE	PHE	PHE	PHE	PHE	PHE
Water temperature in	°C	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
Water temperature out	°C	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
Nominal water flow rate	l/s	6.4	6.7	7.6	8.0	9.4	10.1	10.6	14.7
Nominal Water pressure drop	kPa	44	63	65	67	67	71	57	70
EVAPORATOR									
Nominal water flow rate	l/s	30.5	35.2	39.3	43.2	45.7	50.3	54.5	72.7
Nominal Water pressure drop	kPa	46	53	52	61	68	63	73	61

MODEL		C16	C17
Capacity - Cooling	kW	1608	1699
Unit power input - Cooling	kW	589	629
Heat recovery capacity	**kW**	**319**	**333**
HEAT RECOVERY EXCHANGER			
Type		PHE	PHE
Water temperature in	°C	40.0	40.0
Water temperature out	°C	45.0	45.0
Nominal water flow rate	l/s	15.5	16.0
Nominal Water pressure drop	kPa	70	62
EVAPORATOR			
Nominal water flow rate	l/s	76.7	81.1
Nominal Water pressure drop	kPa	67	74

EWAD C-SR

MODEL		620	720	790	880	920	C10	C11	C13
Capacity - Cooling	kW	611	707	779	867	911	1009	1101	1353
Unit power input - Cooling	kW	227	278	320	336	375	401	424	527
Heat recovery capacity	**kW**	**152**	**162**	**184**	**194**	**227**	**246**	**259**	**295**
HEAT RECOVERY EXCHANGER									
Type		PHE	PHE	PHE	PHE	PHE	PHE	PHE	PHE
Water temperature in	°C	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
Water temperature out	°C	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
Nominal water flow rate	l/s	7.4	7.8	9.0	9.4	11.0	11.8	12.4	14.3
Nominal Water pressure drop	kPa	59	86	87	92	92	97	79	81
EVAPORATOR									
Nominal water flow rate	l/s	29.2	33.7	37.2	41.3	43.5	48.1	52.5	64.6
Nominal Water pressure drop	kPa	42	49	47	57	62	58	68	44

MODEL		C14	C15	C16
Capacity - Cooling	kW	1454	1539	1605
Unit power input - Cooling	kW	587	614	658
Heat recovery capacity	**kW**	**355**	**373**	**386**
HEAT RECOVERY EXCHANGER				
Type		PHE	PHE	PHE
Water temperature in	°C	40.0	40.0	40.0
Water temperature out	°C	45.0	45.0	45.0
Nominal water flow rate	l/s	17.2	18.0	18.6
Nominal Water pressure drop	kPa	95	94	84
EVAPORATOR				
Nominal water flow rate	l/s	69.4	73.4	76.6
Nominal Water pressure drop	kPa	56	62	68

EWAD C-XS

MODEL		760	830	890	990	C10	C11	C12	C13
Capacity - Cooling	kW	751	825	883	994	1066	1188	1271	1339
Unit power input - Cooling	kW	236	257	282	312	343	369	407	417
Heat recovery capacity	**kW**	**112**	**108**	**124**	**143**	**170**	**175**	**207**	**226**
HEAT RECOVERY EXCHANGER									
Type		PHE	PHE	PHE	PHE	PHE	PHE	PHE	PHE
Water temperature in	°C	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
Water temperature out	°C	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
Nominal water flow rate	l/s	5.4	5.2	6.0	6.9	8.2	8.4	10.0	11.0
Nominal Water pressure drop	kPa	32	39	39	51	51	51	51	61
EVAPORATOR									
Nominal water flow rate	l/s	35.8	39.3	42.1	47.4	50.9	56.7	60.6	63.9
Nominal Water pressure drop	kPa	80	56	63	60	68	45	51	67

MODEL		C16	C17	C18	C19
Capacity - Cooling	kW	1585	1674	1756	1846
Unit power input - Cooling	kW	512	542	571	600
Heat recovery capacity	**kW**	**251**	**266**	**279**	**294**
HEAT RECOVERY EXCHANGER					
Type		PHE	PHE	PHE	PHE
Water temperature in	°C	40.0	40.0	40.0	40.0
Water temperature out	°C	45.0	45.0	45.0	45.0
Nominal water flow rate	l/s	12.0	12.7	13.4	14.1
Nominal Water pressure drop	kPa	50	50	49	45
EVAPORATOR					
Nominal water flow rate	l/s	75.6	79.8	83.8	88.1
Nominal Water pressure drop	kPa	61	68	67	74

EWAD C-XL

MODEL		760	830	890	990	C10	C11	C12	C13
Capacity - Cooling	kW	751	825	883	994	1066	1188	1271	1339
Unit power input - Cooling	kW	236	257	282	312	343	369	407	417
Heat recovery capacity	**kW**	**112**	**108**	**124**	**143**	**170**	**175**	**207**	**226**
HEAT RECOVERY EXCHANGER									
Type		PHE	PHE	PHE	PHE	PHE	PHE	PHE	PHE
Water temperature in	°C	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
Water temperature out	°C	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
Nominal water flow rate	l/s	5.4	5.2	6.0	6.9	8.2	8.4	10.0	11.0
Nominal Water pressure drop	kPa	32	39	39	51	51	51	51	61
EVAPORATOR									
Nominal water flow rate	l/s	35.8	39.3	42.1	47.4	50.9	56.7	60.6	63.9
Nominal Water pressure drop	kPa	80	56	63	60	68	45	51	67

MODEL		C16	C17	C18	C19
Capacity - Cooling	kW	1585	1674	1756	1846
Unit power input - Cooling	kW	512	542	571	600
Heat recovery capacity	**kW**	**251**	**266**	**279**	**294**
HEAT RECOVERY EXCHANGER					
Type		PHE	PHE	PHE	PHE
Water temperature in	°C	40.0	40.0	40.0	40.0
Water temperature out	°C	45.0	45.0	45.0	45.0
Nominal water flow rate	l/s	12.0	12.7	13.4	14.1
Nominal Water pressure drop	kPa	50	50	49	45
EVAPORATOR					
Nominal water flow rate	l/s	75.6	79.8	83.8	88.1
Nominal Water pressure drop	kPa	61	68	67	74

EWAD C-XR

MODEL		740	810	870	970	C10	C11	C12	C13
Capacity - Cooling	kW	730	805	859	966	1031	1159	1237	1290
Unit power input - Cooling	kW	238	258	286	314	349	371	412	421
Heat recovery capacity	**kW**	**132**	**127**	**146**	**168**	**200**	**207**	**245**	**264**
HEAT RECOVERY EXCHANGER									
Type		PHE	PHE	PHE	PHE	PHE	PHE	PHE	PHE
Water temperature in	°C	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
Water temperature out	°C	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
Nominal water flow rate	l/s	6.4	6.1	7.0	8.1	9.6	10.0	11.8	12.8
Nominal Water pressure drop	kPa	44	54	54	71	71	71	71	82
EVAPORATOR									
Nominal water flow rate	l/s	34.8	38.4	41.0	46.1	49.2	55.3	59.0	61.5
Nominal Water pressure drop	kPa	76	54	60	57	64	43	48	63

MODEL		C16	C17	C18	C19
Capacity - Cooling	kW	1536	1625	1708	1798
Unit power input - Cooling	kW	520	550	576	607
Heat recovery capacity	**kW**	**296**	**314**	**329**	**348**
HEAT RECOVERY EXCHANGER					
Type		PHE	PHE	PHE	PHE
Water temperature in	°C	40.0	40.0	40.0	40.0
Water temperature out	°C	45.0	45.0	45.0	45.0
Nominal water flow rate	l/s	14.4	15.2	15.9	16.8
Nominal Water pressure drop	kPa	69	69	68	64
EVAPORATOR					
Nominal water flow rate	l/s	73.3	77.5	81.5	85.8
Nominal Water pressure drop	kPa	58	64	64	70

EWAD C-PS

MODEL		820	890	980	C11	C12	C13	C14
Capacity - Cooling	kW	816	885	969	1067	1150	1270	1381
Unit power input - Cooling	kW	229	253	278	306	335	369	402
Heat recovery capacity	**kW**	**77.7**	**85.5**	**102**	**121**	**141**	**168**	**182**
HEAT RECOVERY EXCHANGER								
Type		PHE	PHE	PHE	PHE	PHE	PHE	PHE
Water temperature in	°C	40.0	40.0	40.0	40.0	40.0	40.0	40.0
Water temperature out	°C	45.0	45.0	45.0	45.0	45.0	45.0	45.0
Nominal water flow rate	l/s	3.8	4.1	5.0	5.9	6.8	8.1	8.8
Nominal Water pressure drop	kPa	15	25	27	35	35	42	39
EVAPORATOR								
Nominal water flow rate	l/s	38.9	42.2	46.2	50.9	54.9	60.6	65.9
Nominal Water pressure drop	kPa	57	66	30	60	69	60	69

EWAD C-PL

MODEL		820	890	980	C11	C12	C13	C14
Capacity - Cooling	kW	816	885	969	1067	1150	1270	1381
Unit power input - Cooling	kW	229	253	278	306	335	369	402
Heat recovery capacity	**kW**	**77.7**	**85.5**	**102**	**121**	**141**	**168**	**182**
HEAT RECOVERY EXCHANGER								
Type		PHE	PHE	PHE	PHE	PHE	PHE	PHE
Water temperature in	°C	40.0	40.0	40.0	40.0	40.0	40.0	40.0
Water temperature out	°C	45.0	45.0	45.0	45.0	45.0	45.0	45.0
Nominal water flow rate	l/s	3.8	4.1	5.0	5.9	6.8	8.1	8.8
Nominal Water pressure drop	kPa	15	25	27	35	35	42	39
EVAPORATOR								
Nominal water flow rate	l/s	38.9	42.2	46.2	50.9	54.9	60.6	65.9
Nominal Water pressure drop	kPa	57	66	30	60	69	60	69

EWAD C-PR

MODEL		810	880	960	C10	C11	C13	C14
Capacity - Cooling	kW	804	869	949	1045	1123	1241	1348
Unit power input - Cooling	kW	222	248	277	304	336	370	403
Heat recovery capacity	**kW**	**93.1**	**102**	**121**	**144**	**167**	**199**	**216**
HEAT RECOVERY EXCHANGER								
Type		PHE	PHE	PHE	PHE	PHE	PHE	PHE
Water temperature in	°C	40.0	40.0	40.0	40.0	40.0	40.0	40.0
Water temperature out	°C	45.0	45.0	45.0	45.0	45.0	45.0	45.0
Nominal water flow rate	l/s	4.4	5.0	5.8	6.9	8.0	9.6	10.4
Nominal Water pressure drop	kPa	22	36	37	49	49	59	55
EVAPORATOR								
Nominal water flow rate	l/s	38.4	41.5	45.3	49.9	53.6	59.2	64.3
Nominal Water pressure drop	kPa	55	64	29	58	66	57	66

EWAD C-SS

MODEL		650	740	830	910	970	C11	C12	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	604	649	649	915	962	1017	1021	1312
Nominal running current cooling	A	366	432	492	524	577	624	667	909
Maximum running current	A	476	545	589	656	715	787	859	1144
Maximum current for wires sizing	A	520	596	644	717	781	860	939	1251
FANS									
Nominal running current cooling	A	40	40	40	48	48	56	64	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	218 218	231 274	274 274	274 333	333 333	333 398	398 398	398 333 333
Starting method	---	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ

EWAD C-SS

MODEL		C16	C17						
POWER SUPPLY									
Phases	Nr	3	3						
Frequency	Hz	50	50						
Voltage	V	400	400						
Voltage tolerance Minimum	%	-10%	-10%						
Voltage tolerance Maximum	%	+10%	+10%						
UNIT									
Maximum starting current	A	1363	1367						
Nominal running current cooling	A	959	1023						
Maximum running current	A	1217	1281						
Maximum current for wires sizing	A	1330	1400						
FANS									
Nominal running current cooling	A	88	88						
COMPRESSORS									
Phases	Nr	3	3						
Voltage	V	400	400						
Voltage tolerance Minimum	%	-10%	-10%						
Voltage tolerance Maximum	%	+10%	+10%						
Maximum running current	A	398 398 333	398 398 398						
Starting method	---	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-SL

MODEL		650	740	830	910	970	C11	C12	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	604	649	649	915	962	1017	1021	1312
Nominal running current cooling	A	366	432	492	524	577	624	667	909
Maximum running current	A	476	545	589	656	715	787	859	1144
Maximum current for wires sizing	A	520	596	644	717	781	860	939	1251
FANS									
Nominal running current cooling	A	40	40	40	48	48	56	64	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	218 218	231 274	274 274	274 333	333 333	333 398	398 398	398 333 333
Starting method	---	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ

EWAD C-SL

MODEL		C16	C17						
POWER SUPPLY									
Phases	Nr	3	3						
Frequency	Hz	50	50						
Voltage	V	400	400						
Voltage tolerance Minimum	%	-10%	-10%						
Voltage tolerance Maximum	%	+10%	+10%						
UNIT									
Maximum starting current	A	1363	1367						
Nominal running current cooling	A	959	1023						
Maximum running current	A	1217	1281						
Maximum current for wires sizing	A	1330	1400						
FANS									
Nominal running current cooling	A	88	88						
COMPRESSORS									
Phases	Nr	3	3						
Voltage	V	400	400						
Voltage tolerance Minimum	%	-10%	-10%						
Voltage tolerance Maximum	%	+10%	+10%						
Maximum running current	A	398 398 333	398 398 398						
Starting method	---	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	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	597	642	642	906	953	1007	1010	1241
Nominal running current cooling	A	371	450	518	548	609	654	694	857
Maximum running current	A	462	531	575	639	698	767	837	1052
Maximum current for wires sizing	A	506	582	630	700	765	841	916	1152
FANS									
Nominal running current cooling	A	26	26	26	31	31	36	42	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	218 218	231 274	274 274	274 333	333 333	333 398	398 398	333 333 333
Starting method	---	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ

EWAD C-SR

MODEL		C14	C15	C16
POWER SUPPLY				
Phases	Nr	3	3	3
Frequency	Hz	50	50	50
Voltage	V	400	400	400
Voltage tolerance Minimum	%	-10%	-10%	-10%
Voltage tolerance Maximum	%	+10%	+10%	+10%
UNIT				
Maximum starting current	A	1292	1344	1346
Nominal running current cooling	A	954	1002	1075
Maximum running current	A	1116	1186	1250
Maximum current for wires sizing	A	1223	1299	1369
FANS				
Nominal running current cooling	A	52	57	57
COMPRESSORS				
Phases	Nr	3	3	3
Voltage	V	400	400	400
Voltage tolerance Minimum	%	-10%	-10%	-10%
Voltage tolerance Maximum	%	+10%	+10%	+10%
Maximum running current	A	398 333 333	398 398 333	398 398 398
Starting method	---	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-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
Maximum 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	231 274	274 274	274 333	333 333	333 398	398 398	398 398
Starting method	---	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ

EWAD C-XS

MODEL		C16	C17	C18	C19				
POWER SUPPLY									
Phases	Nr	3	3	3	3				
Frequency	Hz	50	50	50	50				
Voltage	V	400	400	400	400				
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%				
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%				
UNIT									
Maximum starting current	A	1268	1328	1387	1387				
Nominal running current cooling	A	835	885	934	984				
Maximum running current	A	1096	1168	1241	1313				
Maximum current for wires sizing	A	1196	1275	1354	1432				
FANS									
Nominal running current cooling	A	96	104	112	120				
COMPRESSORS									
Phases	Nr	3	3	3	3				
Voltage	V	400	400	400	400				
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%				
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%				
Maximum running current	A	333 333 333	333 333 398	398 398 333	398 398 398				
Starting method	---	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-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
Maximum 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	231 274	274 274	274 333	333 333	333 398	398 398	398 398
Starting method	---	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ

EWAD C-XL

MODEL		C16	C17	C18	C19
POWER SUPPLY					
Phases	Nr	3	3	3	3
Frequency	Hz	50	50	50	50
Voltage	V	400	400	400	400
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%
UNIT					
Maximum starting current	A	1268	1328	1387	1387
Nominal running current cooling	A	835	885	934	984
Maximum running current	A	1096	1168	1241	1313
Maximum current for wires sizing	A	1196	1275	1354	1432
FANS					
Nominal running current cooling	A	96	104	112	120
COMPRESSORS					
Phases	Nr	3	3	3	3
Voltage	V	400	400	400	400
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%
Maximum running current	A	333 333 333	333 333 398	398 398 333	398 398 398
Starting method	---	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-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
Maximum 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	231 274	274 274	274 333	333 333	333 398	398 398	398 398
Starting method	---	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ

EWAD C-XR

MODEL		C16	C17	C18	C19				
POWER SUPPLY									
Phases	Nr	3	3	3	3				
Frequency	Hz	50	50	50	50				
Voltage	V	400	400	400	400				
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%				
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%				
UNIT									
Maximum starting current	A	1246	1303	1359	1359				
Nominal running current cooling	A	854	903	951	1000				
Maximum running current	A	1063	1132	1201	1271				
Maximum current for wires sizing	A	1163	1238	1314	1390				
FANS									
Nominal running current cooling	A	62	68	73	78				
COMPRESSORS									
Phases	Nr	3	3	3	3				
Voltage	V	400	400	400	400				
Voltage tolerance Minimum	%	-10%	-10%	-10%	-10%				
Voltage tolerance Maximum	%	+10%	+10%	+10%	+10%				
Maximum running current	A	333 333 333	333 333 398	398 398 333	398 398 398				
Starting method	---	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-PS

MODEL		820	890	980	C11	C12	C13	C14
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	630	665	665	702	978	1037	1037
Nominal running current cooling	A	386	424	465	511	555	614	671
Maximum running current	A	534	577	621	670	747	819	891
Maximum current for wires sizing	A	580	628	676	729	813	892	971
FANS								
Nominal running current cooling	A	72	72	72	80	80	88	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	231 231	231 274	274 274	274 316	333 333	333 398	398 398
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-PL

MODEL		820	890	980	C11	C12	C13	C14
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	630	665	665	702	978	1037	1037
Nominal running current cooling	A	386	424	465	511	555	614	671
Maximum running current	A	534	577	621	670	747	819	891
Maximum current for wires sizing	A	580	628	676	729	813	892	971
FANS								
Nominal running current cooling	A	72	72	72	80	80	88	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	231 231	231 274	274 274	274 316	333 333	333 398	398 398
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-PR

MODEL		810	880	960	C10	C11	C13	C14
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	618	653	653	917	964	1020	1020
Nominal running current cooling	A	375	416	461	506	555	614	671
Maximum running current	A	509	552	596	660	719	788	858
Maximum current for wires sizing	A	555	603	651	721	785	861	937
FANS								
Nominal running current cooling	A	47	47	47	52	52	57	62
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	231 231	231 274	274 274	274 333	333 333	333 398	398 398
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-SS

	Sound pressure level at 1 m from the unit (rif. 2 x 10-5 Pa)								Power
MODEL	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**
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**

EWAD C-SL

	Sound pressure level at 1 m from the unit (rif. 2 x 10-5 Pa)								Power
MODEL	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**
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**

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

	Sound pressure level at 1 m from the unit (rif. 2 x 10-5 Pa)								Power
MODEL	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
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

EWAD C-XS

	Sound pressure level at 1 m from the unit (rif. 2 x 10-5 Pa)								Power
MODEL	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
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

EWAD C-XL

	Sound pressure level at 1 m from the unit (rif. 2 x 10-5 Pa)								Power
MODEL	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
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

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

	Sound pressure level at 1 m from the unit (rif. 2 x 10-5 Pa)								Power
MODEL	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
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

EWAD C-PS

	Sound pressure level at 1 m from the unit (rif. 2 x 10-5 Pa)								Power
MODEL	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

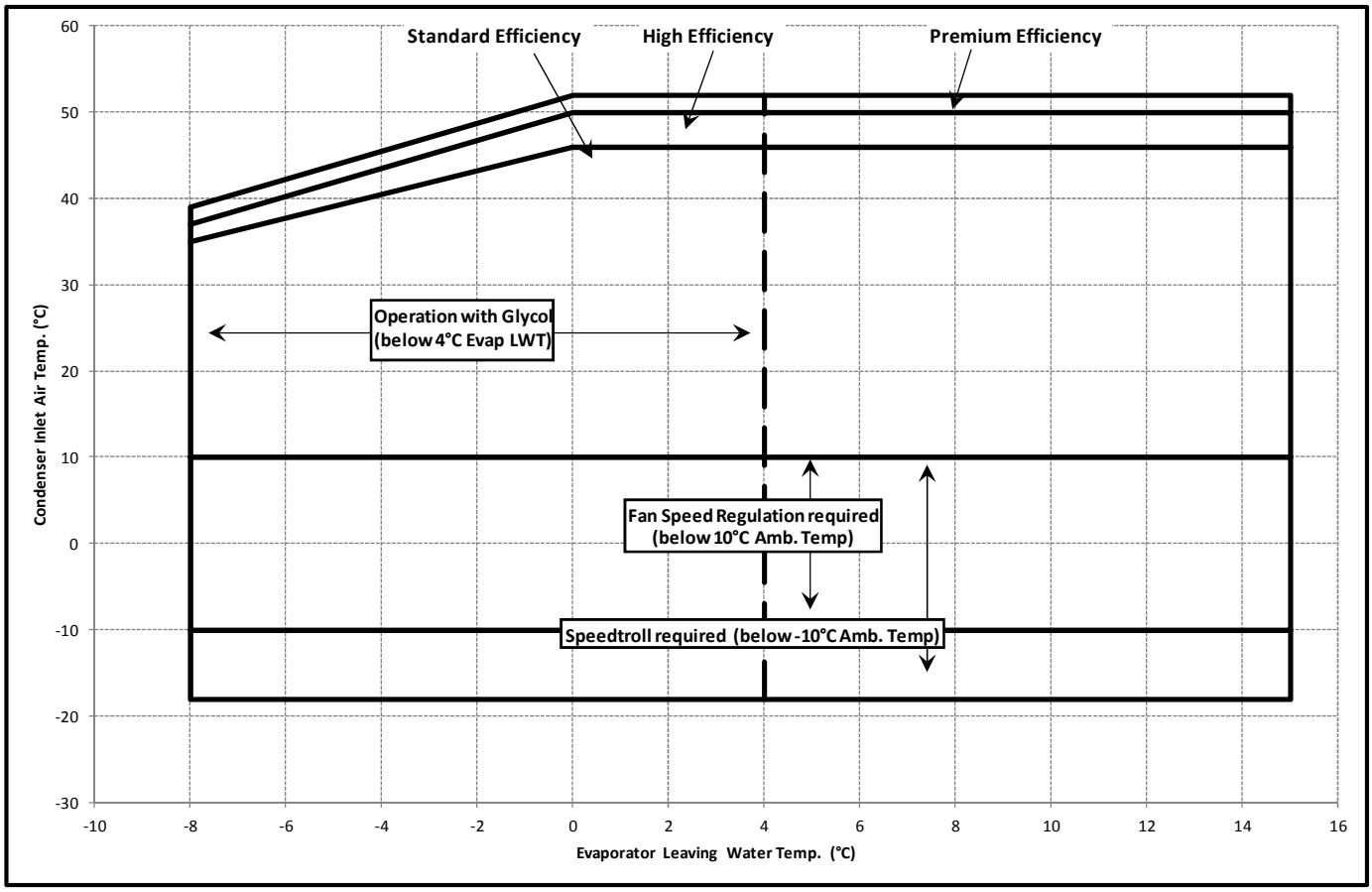
EWAD C-PL

	Sound pressure level at 1 m from the unit (rif. 2 x 10-5 Pa)								Power
MODEL	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

EWAD C-PR

	Sound pressure level at 1 m from the unit (rif. 2 x 10-5 Pa)								Power
MODEL	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

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 (liters) = (0.1595 x ΔT(°C) + 3.0825) x P(kW)

For 3 compressors unit
M (liters) = (0.0443 x ΔT(°C) + 1.6202) x P(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.

Items (1) (6)			Cooling Water			Cooled Water		Heated water (2)				Tendency if out of criteria
			Circulating System		Once Flow			Low temperature		High temperature		
			Circulating water	Supply water (4)	Flowing water	Circulating water [Below 20℃]	Supply water (4)	Circulating water [20℃ ~ 60℃]	Supply water (4)	Circulating water [60℃ ~ 80℃]	Supply water (4)	
Items to be controlled:	pH	at 25℃	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℃	Below 80	Below 30	Below 40	Below 80	Below 80	Below 30	Below 30	Below 30	Below 30	Corrosion + Scale
		(μS/cm) at 25℃	(Below 800)	(Below 300)	(Below 400)	(Below 800)	(Below 800)	(Below 300)	(Below 300)	(Below 300)	(Below 300)	Corrosion + Scale
	Chloride ion	[$mgCl^{2-}$/l]	Below 200	Below 50	Below 50	Below 200	Below 50	Below 50	Below 50	Below 30	Below 30	Corrosion
	Sulfate ion	[$mgSO^{2-}_4$/l]	Below 200	Below 50	Below 50	Below 200	Below 50	Below 50	Below 50	Below 30	Below 30	Corrosion
	M-alkalinity (pH4.8)	[$mgCaCO_3$/l]	Below 100	Below 50	Below 50	Below 100	Below 50	Below 50	Below 50	Below 50	Below 50	Scale
	Total hardness	[$mgCaCO_3$/l]	Below 200	Below 70	Below 70	Below 200	Below 70	Below 70	Below 70	Below 70	Below 70	Scale
	Calcium harness	[$mgCaCO_3$/l]	Below 150	Below 50	Below 50	Below 50	Below 50	Below 50	Below 50	Below 50	Below 50	Scale
	Silca ion	[$mgSiO_2$/l]	Below 50	Below 30	Below 30	Below 30	Below 30	Below 30	Below 30	Below 30	Below 30	Scale
	Oxygen	(mg O2 /l)	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
	Particole size	(mm)	Below 0.5	Below 0.5	Below 0.5	Below 0.5	Below 0.6	Below 0.5	Below 0.6	Below 0.5	Below 0.6	Erosion
	Total dissolved solids	(mg / l)	Below 1000	Below 1000	Below 1000	Below 1000	Below 1001	Below 1000	Below 1001	Below 1000	Below 1001	Erosion
	Ethykene, Propylene Glycol (weight conc.)		Below 60%	Below 60%	---	Below 60%	Below 60%	Below 60%	Below 60%	Below 60%	Below 60%	--
Items to be referred to:	Nitrate ion	(mg NO3- /l)	Below 100	Below 100	Below 100	Below 100	Below 101	Below 100	Below 101	Below 100	Below 101	Corrosion
	TOC Total organic carbon	(mg /l)	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	[mgFe/l]	Below 1.0	Below 0.3	Below 1.0	Below 1.0	Below 0.3	Below 1.0	Below 0.3	Below 1.0	Below 0.3	Corrosion + Scale
	Copper	[mgCu/l]	Below 0.3	Below 0.1	Below 1.0	Below 1.0	Below 1.0	Below 1.0	Below 0.1	Below 1.0	Below 0.1	Corrosion
	Sulfite ion	[mgS^{2-}/l]	Not detectable	Not detectable	Not detectable	Not detectable	Not detectable	Not detectable	Not detectable	Not detectable	Not detectable	Corrosion
	Ammonium ion	[$mgNH^{+}_4$/l]	Below 1.0	Below 0.1	Below 1.0	Below 1.0	Below 0.1	Below 0.3	Below 0.1	Below 0.1	Below 0.1	Corrosion
	Remaining chloride	[mgCL/l]	Below 0.3	Below 0.3	Below 0.3	Below 0.3	Below 0.3	Below 0.25	Below 0.3	Below 0.1	Below 0.3	Corrosion
	Free carbide	[$mgCO_2$/l]	Below 4.0	Below 4.0	Below 4.0	Below 4.0	Below 4.0	Below 0.4	Below 4.0	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℃), co rrosion is generally noticeable.
Especially when the iron materials is in direct contact with water without any protection shields, it is desireable to give the valid measure for corrosion. E.g. chemical measure
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 con not totallu assure the absence of corrossion 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**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	661	630	596	556	529	500	744	722	695	659	632	593
	PI	kW	191	205	220	237	247	258	222	242	263	287	302	313
	qw	l/s	31.5	30.0	28.4	26.5	25.2	23.8	35.5	34.4	33.1	31.4	30.1	28.2
	dpw	kPa	48	44	40	35	32	29	54	51	48	43	40	36
7	CC	kW	701	668	632	591	563	533	784	761	731	693	665	613
	PI	kW	197	211	227	245	255	267	229	249	271	295	311	313
	qw	l/s	33.5	31.9	30.2	28.2	26.9	25.4	37.4	36.3	34.9	33.1	31.7	29.3
	dpw	kPa	54	49	45	40	36	33	59	56	53	48	44	38
9	CC	kW	741	708	669	626	598	567	824	800	768	728	699	633
	PI	kW	203	218	234	252	264	275	236	257	279	304	320	312
	qw	l/s	35.4	33.8	32.0	29.9	28.6	27.1	39.4	38.2	36.7	34.8	33.4	30.2
	dpw	kPa	59	55	50	44	40	37	65	62	58	52	48	41
11	CC	kW	781	746	708	663	633	601	865	839	806	764	725	647
	PI	kW	209	225	242	260	272	284	243	264	287	313	325	309
	qw	l/s	37.3	35.7	33.8	31.7	30.2	28.7	41.4	40.1	38.5	36.5	34.6	30.9
	dpw	kPa	66	60	55	49	45	41	71	67	63	57	52	42
13	CC	kW	823	786	746	700	668	635	908	880	845	800	746	648
	PI	kW	215	232	249	268	280	293	251	273	296	322	324	310
	qw	l/s	39.4	37.6	35.7	33.5	32.0	30.4	43.4	42.1	40.4	38.3	35.7	31.0
	dpw	kPa	72	66	60	54	50	45	78	74	68	62	55	42
15	CC	kW	865	827	784	736	705	662	950	921	883	836	769	656
	PI	kW	222	239	257	276	289	298	259	281	305	332	325	301
	qw	l/s	41.4	39.6	37.5	35.3	33.7	31.7	45.5	44.1	42.3	40.0	36.8	31.4
	dpw	kPa	79	73	66	59	55	49	*85*	80	74	67	58	43

			830						910					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	838	811	775	729	695	621	913	886	852	807	774	720
	PI	kW	254	276	300	326	344	337	270	293	319	348	366	376
	qw	l/s	39.9	38.6	36.9	34.7	33.1	29.6	43.5	42.2	40.6	38.5	36.9	34.3
	dpw	kPa	53	50	46	41	38	31	62	59	55	50	46	41
7	CC	kW	882	853	816	767	732	630	961	932	896	849	815	745
	PI	kW	262	285	309	337	355	328	278	302	329	358	377	375
	qw	l/s	42.1	40.7	38.9	36.6	34.9	30.0	45.8	44.5	42.8	40.5	38.9	35.6
	dpw	kPa	59	55	51	46	42	32	68	65	60	55	51	43
9	CC	kW	927	896	856	805	751	640	1010	980	941	892	856	772
	PI	kW	271	294	320	348	355	320	286	311	339	369	388	376
	qw	l/s	44.3	42.8	40.9	38.5	35.9	30.6	48.2	46.8	45.0	42.6	40.9	36.9
	dpw	kPa	64	60	56	50	44	33	75	71	66	60	56	46
11	CC	kW	973	939	897	844	760	648	1059	1027	987	935	880	782
	PI	kW	279	303	330	359	347	310	295	321	349	380	388	367
	qw	l/s	46.5	44.9	42.9	40.3	36.3	31.0	50.6	49.1	47.2	44.7	42.1	37.4
	dpw	kPa	70	66	61	54	45	34	82	77	72	65	58	47
13	CC	kW	1019	983	939	883	772	639	1110	1076	1033	978	907	784
	PI	kW	289	313	340	370	339	316	304	330	359	391	389	369
	qw	l/s	48.7	47.0	44.9	42.2	36.9	30.6	53.1	51.5	49.4	46.8	43.4	37.5
	dpw	kPa	76	71	66	59	46	33	89	84	78	71	62	48
15	CC	kW	1066	1028	980	891	781	652	1162	1126	1080	1020	934	792
	PI	kW	298	324	351	363	330	309	313	341	370	401	389	357
	qw	l/s	51.0	49.2	46.9	42.7	37.4	31.2	55.6	53.9	51.7	48.8	44.7	37.9
	dpw	kPa	83	77	71	60	47	34	97	91	85	76	65	49

EWAD C-SS

			970						C11					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	972	942	904	853	816	742	1066	1034	994	942	903	839
	PI	kW	297	323	352	384	405	406	320	348	379	414	436	446
	qw	l/s	46.3	44.9	43.1	40.7	38.9	35.3	50.8	49.3	47.4	44.9	43.1	40.0
	dpw	kPa	70	66	61	55	51	43	64	61	57	51	48	42
7	CC	kW	1022	990	949	896	857	753	1121	1088	1046	990	950	868
	PI	kW	306	333	363	396	417	396	330	359	390	426	449	445
	qw	l/s	48.8	47.3	45.3	42.7	40.9	35.9	53.5	51.9	49.9	47.2	45.3	41.4
	dpw	kPa	76	72	67	60	56	44	71	67	62	56	52	44
9	CC	kW	1073	1039	995	939	898	766	1178	1143	1098	1039	994	894
	PI	kW	316	343	374	408	430	387	340	369	402	438	461	443
	qw	l/s	51.3	49.6	47.5	44.8	42.9	36.6	56.3	54.6	52.4	49.6	47.5	42.7
	dpw	kPa	83	79	73	66	61	46	77	73	68	62	57	47
11	CC	kW	1125	1089	1042	983	905	776	1236	1199	1151	1089	1024	906
	PI	kW	325	354	385	420	419	376	350	381	414	451	461	433
	qw	l/s	53.8	52.0	49.8	47.0	43.3	37.1	59.1	57.3	55.0	52.0	49.0	43.3
	dpw	kPa	91	86	79	71	62	47	84	80	74	67	60	48
13	CC	kW	1178	1139	1090	1027	919	767	1295	1255	1204	1139	1054	908
	PI	kW	336	365	397	433	411	384	361	392	427	465	460	434
	qw	l/s	56.4	54.5	52.1	49.1	44.0	36.7	62.0	60.0	57.6	54.5	50.4	43.4
	dpw	kPa	99	93	86	77	63	46	92	87	81	73	63	48
15	CC	kW	1232	1190	1138	1067	931	778	1356	1313	1259	1184	1085	917
	PI	kW	346	376	409	443	401	373	372	404	439	475	461	420
	qw	l/s	59.0	57.0	54.5	51.1	44.6	37.3	64.9	62.8	60.3	56.7	51.9	43.9
	dpw	kPa	107	101	93	83	65	47	100	94	87	78	67	49

			C12						C15					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	1149	1118	1078	1026	986	941	1542	1495	1435	1356	1298	1201
	PI	kW	342	372	405	442	466	493	467	508	553	603	636	650
	qw	l/s	54.8	53.3	51.4	48.9	47.0	44.8	73.5	71.2	68.4	64.6	61.8	57.2
	dpw	kPa	74	70	66	60	56	51	62	59	55	49	46	40
7	CC	kW	1209	1176	1134	1078	1037	990	1625	1575	1510	1427	1366	1235
	PI	kW	352	383	417	454	479	506	482	524	570	622	655	644
	qw	l/s	57.7	56.1	54.1	51.4	49.5	47.2	77.5	75.1	72.1	68.1	65.2	58.9
	dpw	kPa	81	77	72	66	61	56	68	65	60	54	50	42
9	CC	kW	1270	1235	1190	1132	1089	1022	1709	1656	1587	1499	1435	1270
	PI	kW	362	394	429	467	493	510	497	541	588	640	675	639
	qw	l/s	60.7	59.0	56.8	54.1	52.0	48.8	81.6	79.1	75.8	71.6	68.5	60.6
	dpw	kPa	88	84	79	72	67	60	75	71	66	59	55	44
11	CC	kW	1333	1295	1248	1186	1142	1036	1796	1739	1665	1572	1472	1290
	PI	kW	372	405	441	480	506	499	513	557	606	660	673	625
	qw	l/s	63.7	61.9	59.6	56.7	54.6	49.5	85.8	83.1	79.6	75.1	70.4	61.7
	dpw	kPa	97	92	86	78	73	61	82	78	72	65	57	45
13	CC	kW	1396	1357	1306	1242	1195	1045	1884	1823	1745	1646	1507	1286
	PI	kW	383	417	453	494	521	484	529	575	625	680	667	630
	qw	l/s	66.8	64.9	62.5	59.4	57.2	50.0	90.1	87.2	83.5	78.8	72.1	61.5
	dpw	kPa	105	100	93	85	79	62	*90*	85	78	70	60	45
15	CC	kW	1461	1419	1366	1298	1242	1058	1974	1908	1825	1713	1545	1305
	PI	kW	394	429	466	508	532	471	546	593	644	696	663	613
	qw	l/s	70.0	67.9	65.4	62.1	59.5	50.6	94.5	91.4	87.4	82.0	74.0	62.5
	dpw	kPa	*114*	*108*	101	92	85	64	*98*	*92*	85	76	63	46

EWAD C-SS

			C16						C17					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	1624	1575	1514	1433	1374	1272	1719	1668	1602	1514	1450	1337
	PI	kW	491	535	582	634	669	681	524	571	622	679	717	728
	qw	l/s	77.4	75.1	72.2	68.3	65.5	60.6	81.9	79.5	76.3	72.2	69.1	63.7
	dpw	kPa	68	65	60	55	51	44	75	71	66	60	55	48
7	CC	kW	1711	1659	1594	1508	1446	1308	1809	1754	1683	1591	1524	1374
	PI	kW	506	551	599	653	689	674	540	588	640	699	738	722
	qw	l/s	81.6	79.2	76.0	72.0	69.0	62.4	86.3	83.7	80.3	75.9	72.7	65.6
	dpw	kPa	75	71	66	60	56	46	82	78	72	65	60	50
9	CC	kW	1800	1745	1675	1585	1520	1348	1900	1842	1767	1669	1599	1409
	PI	kW	522	568	617	673	709	669	557	606	660	720	759	715
	qw	l/s	85.9	83.3	80.0	75.7	72.6	64.4	90.7	88.0	84.4	79.7	76.4	67.3
	dpw	kPa	82	78	72	66	61	49	90	85	79	71	66	53
11	CC	kW	1890	1832	1757	1663	1559	1385	1993	1931	1851	1748	1634	1425
	PI	kW	538	585	636	693	706	662	574	624	680	741	753	694
	qw	l/s	90.4	87.6	84.0	79.5	74.5	66.2	95.3	92.3	88.5	83.6	78.1	68.1
	dpw	kPa	*90*	85	79	72	64	52	98	93	86	78	69	54
13	CC	kW	1983	1920	1841	1741	1596	1396	2088	2021	1936	1829	1672	1421
	PI	kW	554	603	655	713	698	676	591	643	700	763	747	698
	qw	l/s	94.9	91.9	88.1	83.3	76.4	66.8	99.9	96.7	92.6	87.5	80.0	68.0
	dpw	kPa	*98*	*93*	*86*	78	67	52	107	101	93	84	72	54
15	CC	kW	2077	2011	1927	1815	1637	1434	2184	2113	2023	1897	1710	1441
	PI	kW	572	621	675	732	692	668	610	663	721	779	740	678
	qw	l/s	99.4	96.3	92.2	86.9	78.4	68.7	104.5	101.2	96.9	90.8	81.9	69.0
	dpw	kPa	*107*	*101*	*94*	84	70	55	*116*	109	101	90	75	55

Fluid: Water
Heat Recovery OFF
Ta: Condenser inlet air temperature; Twout: Evaporator leaving water temperature (Δt 5.0°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 contac factory*

EWAD C-SL

			650						740					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	661	630	596	556	529	500	744	722	695	659	632	593
	PI	kW	191	205	220	237	247	258	222	242	263	287	302	313
	qw	l/s	31.5	30.0	28.4	26.5	25.2	23.8	35.5	34.4	33.1	31.4	30.1	28.2
	dpw	kPa	48	44	40	35	32	29	54	51	48	43	40	36
7	CC	kW	701	668	632	591	563	533	784	761	731	693	665	613
	PI	kW	197	211	227	245	255	267	229	249	271	295	311	313
	qw	l/s	33.5	31.9	30.2	28.2	26.9	25.4	37.4	36.3	34.9	33.1	31.7	29.3
	dpw	kPa	54	49	45	40	36	33	59	56	53	48	44	38
9	CC	kW	741	708	669	626	598	567	824	800	768	728	699	633
	PI	kW	203	218	234	252	264	275	236	257	279	304	320	312
	qw	l/s	35.4	33.8	32.0	29.9	28.6	27.1	39.4	38.2	36.7	34.8	33.4	30.2
	dpw	kPa	59	55	50	44	40	37	65	62	58	52	48	41
11	CC	kW	781	746	708	663	633	601	865	839	806	764	725	647
	PI	kW	209	225	242	260	272	284	243	264	287	313	325	309
	qw	l/s	37.3	35.7	33.8	31.7	30.2	28.7	41.4	40.1	38.5	36.5	34.6	30.9
	dpw	kPa	66	60	55	49	45	41	71	67	63	57	52	42
13	CC	kW	823	786	746	700	668	635	908	880	845	800	746	648
	PI	kW	215	232	249	268	280	293	251	273	296	322	324	310
	qw	l/s	39.4	37.6	35.7	33.5	32.0	30.4	43.4	42.1	40.4	38.3	35.7	31.0
	dpw	kPa	72	66	60	54	50	45	78	74	68	62	55	42
15	CC	kW	865	827	784	736	705	662	950	921	883	836	769	656
	PI	kW	222	239	257	276	289	298	259	281	305	332	325	301
	qw	l/s	41.4	39.6	37.5	35.3	33.7	31.7	45.5	44.1	42.3	40.0	36.8	31.4
	dpw	kPa	79	73	66	59	55	49	*85*	80	74	67	58	43

			830						910					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	838	811	775	729	695	621	913	886	852	807	774	720
	PI	kW	254	276	300	326	344	337	270	293	319	348	366	376
	qw	l/s	39.9	38.6	36.9	34.7	33.1	29.6	43.5	42.2	40.6	38.5	36.9	34.3
	dpw	kPa	53	50	46	41	38	31	62	59	55	50	46	41
7	CC	kW	882	853	816	767	732	630	961	932	896	849	815	745
	PI	kW	262	285	309	337	355	328	278	302	329	358	377	375
	qw	l/s	42.1	40.7	38.9	36.6	34.9	30.0	45.8	44.5	42.8	40.5	38.9	35.6
	dpw	kPa	59	55	51	46	42	32	68	65	60	55	51	43
9	CC	kW	927	896	856	805	751	640	1010	980	941	892	856	772
	PI	kW	271	294	320	348	355	320	286	311	339	369	388	376
	qw	l/s	44.3	42.8	40.9	38.5	35.9	30.6	48.2	46.8	45.0	42.6	40.9	36.9
	dpw	kPa	64	60	56	50	44	33	75	71	66	60	56	46
11	CC	kW	973	939	897	844	760	648	1059	1027	987	935	880	782
	PI	kW	279	303	330	359	347	310	295	321	349	380	388	367
	qw	l/s	46.5	44.9	42.9	40.3	36.3	31.0	50.6	49.1	47.2	44.7	42.1	37.4
	dpw	kPa	70	66	61	54	45	34	82	77	72	65	58	47
13	CC	kW	1019	983	939	883	772	639	1110	1076	1033	978	907	784
	PI	kW	289	313	340	370	339	316	304	330	359	391	389	369
	qw	l/s	48.7	47.0	44.9	42.2	36.9	30.6	53.1	51.5	49.4	46.8	43.4	37.5
	dpw	kPa	76	71	66	59	46	33	89	84	78	71	62	48
15	CC	kW	1066	1028	980	891	781	652	1162	1126	1080	1020	934	792
	PI	kW	298	324	351	363	330	309	313	341	370	401	389	357
	qw	l/s	51.0	49.2	46.9	42.7	37.4	31.2	55.6	53.9	51.7	48.8	44.7	37.9
	dpw	kPa	83	77	71	60	47	34	97	91	85	76	65	49

EWAD C-SL

			970						C11					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	972	942	904	853	816	742	1066	1034	994	942	903	839
	PI	kW	297	323	352	384	405	406	320	348	379	414	436	446
	qw	l/s	46.3	44.9	43.1	40.7	38.9	35.3	50.8	49.3	47.4	44.9	43.1	40.0
	dpw	kPa	70	66	61	55	51	43	64	61	57	51	48	42
7	CC	kW	1022	990	949	896	857	753	1121	1088	1046	990	950	868
	PI	kW	306	333	363	396	417	396	330	359	390	426	449	445
	qw	l/s	48.8	47.3	45.3	42.7	40.9	35.9	53.5	51.9	49.9	47.2	45.3	41.4
	dpw	kPa	76	72	67	60	56	44	71	67	62	56	52	44
9	CC	kW	1073	1039	995	939	898	766	1178	1143	1098	1039	994	894
	PI	kW	316	343	374	408	430	387	340	369	402	438	461	443
	qw	l/s	51.3	49.6	47.5	44.8	42.9	36.6	56.3	54.6	52.4	49.6	47.5	42.7
	dpw	kPa	83	79	73	66	61	46	77	73	68	62	57	47
11	CC	kW	1125	1089	1042	983	905	776	1236	1199	1151	1089	1024	906
	PI	kW	325	354	385	420	419	376	350	381	414	451	461	433
	qw	l/s	53.8	52.0	49.8	47.0	43.3	37.1	59.1	57.3	55.0	52.0	49.0	43.3
	dpw	kPa	91	86	79	71	62	47	84	80	74	67	60	48
13	CC	kW	1178	1139	1090	1027	919	767	1295	1255	1204	1139	1054	908
	PI	kW	336	365	397	433	411	384	361	392	427	465	460	434
	qw	l/s	56.4	54.5	52.1	49.1	44.0	36.7	62.0	60.0	57.6	54.5	50.4	43.4
	dpw	kPa	99	93	86	77	63	46	92	87	81	73	63	48
15	CC	kW	1232	1190	1138	1067	931	778	1356	1313	1259	1184	1085	917
	PI	kW	346	376	409	443	401	373	372	404	439	475	461	420
	qw	l/s	59.0	57.0	54.5	51.1	44.6	37.3	64.9	62.8	60.3	56.7	51.9	43.9
	dpw	kPa	107	101	93	83	65	47	100	94	87	78	67	49

			C12						C15					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	1149	1118	1078	1026	986	941	1542	1495	1435	1356	1298	1201
	PI	kW	342	372	405	442	466	493	467	508	553	603	636	650
	qw	l/s	54.8	53.3	51.4	48.9	47.0	44.8	73.5	71.2	68.4	64.6	61.8	57.2
	dpw	kPa	74	70	66	60	56	51	62	59	55	49	46	40
7	CC	kW	1209	1176	1134	1078	1037	990	1625	1575	1510	1427	1366	1235
	PI	kW	352	383	417	454	479	506	482	524	570	622	655	644
	qw	l/s	57.7	56.1	54.1	51.4	49.5	47.2	77.5	75.1	72.1	68.1	65.2	58.9
	dpw	kPa	81	77	72	66	61	56	68	65	60	54	50	42
9	CC	kW	1270	1235	1190	1132	1089	1022	1709	1656	1587	1499	1435	1270
	PI	kW	362	394	429	467	493	510	497	541	588	640	675	639
	qw	l/s	60.7	59.0	56.8	54.1	52.0	48.8	81.6	79.1	75.8	71.6	68.5	60.6
	dpw	kPa	88	84	79	72	67	60	75	71	66	59	55	44
11	CC	kW	1333	1295	1248	1186	1142	1036	1796	1739	1665	1572	1472	1290
	PI	kW	372	405	441	480	506	499	513	557	606	660	673	625
	qw	l/s	63.7	61.9	59.6	56.7	54.6	49.5	85.8	83.1	79.6	75.1	70.4	61.7
	dpw	kPa	97	92	86	78	73	61	82	78	72	65	57	45
13	CC	kW	1396	1357	1306	1242	1195	1045	1884	1823	1745	1646	1507	1286
	PI	kW	383	417	453	494	521	484	529	575	625	680	667	630
	qw	l/s	66.8	64.9	62.5	59.4	57.2	50.0	90.1	87.2	83.5	78.8	72.1	61.5
	dpw	kPa	105	100	93	85	79	62	*90*	85	78	70	60	45
15	CC	kW	1461	1419	1366	1298	1242	1058	1974	1908	1825	1713	1545	1305
	PI	kW	394	429	466	508	532	471	546	593	644	696	663	613
	qw	l/s	70.0	67.9	65.4	62.1	59.5	50.6	94.5	91.4	87.4	82.0	74.0	62.5
	dpw	kPa	*114*	*108*	101	92	85	64	*98*	*92*	85	76	63	46

EWAD C-SL

			C16						C17					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	1624	1575	1514	1433	1374	1272	1719	1668	1602	1514	1450	1337
	PI	kW	491	535	582	634	669	681	524	571	622	679	717	728
	qw	l/s	77.4	75.1	72.2	68.3	65.5	60.6	81.9	79.5	76.3	72.2	69.1	63.7
	dpw	kPa	68	65	60	55	51	44	75	71	66	60	55	48
7	CC	kW	1711	1659	1594	1508	1446	1308	1809	1754	1683	1591	1524	1374
	PI	kW	506	551	599	653	689	674	540	588	640	699	738	722
	qw	l/s	81.6	79.2	76.0	72.0	69.0	62.4	86.3	83.7	80.3	75.9	72.7	65.6
	dpw	kPa	75	71	66	60	56	46	82	78	72	65	60	50
9	CC	kW	1800	1745	1675	1585	1520	1348	1900	1842	1767	1669	1599	1409
	PI	kW	522	568	617	673	709	669	557	606	660	720	759	715
	qw	l/s	85.9	83.3	80.0	75.7	72.6	64.4	90.7	88.0	84.4	79.7	76.4	67.3
	dpw	kPa	82	78	72	66	61	49	90	85	79	71	66	53
11	CC	kW	1890	1832	1757	1663	1559	1385	1993	1931	1851	1748	1634	1425
	PI	kW	538	585	636	693	706	662	574	624	680	741	753	694
	qw	l/s	90.4	87.6	84.0	79.5	74.5	66.2	95.3	92.3	88.5	83.6	78.1	68.1
	dpw	kPa	*90*	85	79	72	64	52	98	93	86	78	69	54
13	CC	kW	1983	1920	1841	1741	1596	1396	2088	2021	1936	1829	1672	1421
	PI	kW	554	603	655	713	698	676	591	643	700	763	747	698
	qw	l/s	94.9	91.9	88.1	83.3	76.4	66.8	99.9	96.7	92.6	87.5	80.0	68.0
	dpw	kPa	*98*	*93*	*86*	78	67	52	107	101	93	84	72	54
15	CC	kW	2077	2011	1927	1815	1637	1434	2184	2113	2023	1897	1710	1441
	PI	kW	572	621	675	732	692	668	610	663	721	779	740	678
	qw	l/s	99.4	96.3	92.2	86.9	78.4	68.7	104.5	101.2	96.9	90.8	81.9	69.0
	dpw	kPa	*107*	*101*	*94*	84	70	55	*116*	109	101	90	75	55

Fluid: Water
Heat Recovery OFF
Ta: Condenser inlet air temperature; Twout: Evaporator leaving water temperature (Δt 5.0°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 contac factory*

EWAD C-SR

			620						720					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	639	606	569	526	497	466	727	700	666	622	573	491
	PI	kW	191	206	222	239	250	261	229	250	273	299	300	288
	qw	l/s	30.5	28.9	27.1	25.1	23.7	22.2	34.6	33.4	31.7	29.6	27.3	23.4
	dpw	kPa	45	41	37	32	29	26	52	48	44	39	34	26
7	CC	kW	676	642	603	558	528	496	764	736	699	651	592	499
	PI	kW	198	214	230	248	259	271	237	259	283	308	300	280
	qw	l/s	32.3	30.6	28.8	26.6	25.2	23.6	36.5	35.1	33.4	31.1	28.2	23.8
	dpw	kPa	50	46	41	36	32	29	57	53	48	43	36	26
9	CC	kW	714	678	637	591	560	511	802	772	733	672	605	506
	PI	kW	205	221	238	257	268	270	246	268	292	309	296	270
	qw	l/s	34.1	32.4	30.4	28.2	26.7	24.4	38.3	36.9	35.0	32.1	28.9	24.2
	dpw	kPa	56	51	45	40	36	30	62	58	53	45	37	27
11	CC	kW	752	715	672	624	592	518	841	808	767	691	604	517
	PI	kW	213	229	247	266	278	263	254	277	302	309	296	264
	qw	l/s	36.0	34.2	32.1	29.8	28.3	24.8	40.2	38.6	36.7	33.0	28.9	24.7
	dpw	kPa	61	56	50	44	40	31	68	63	57	48	37	28
13	CC	kW	791	751	708	657	617	524	880	845	801	712	614	517
	PI	kW	220	237	256	275	284	253	264	287	313	310	288	262
	qw	l/s	37.8	35.9	33.8	31.4	29.5	25.0	42.1	40.4	38.3	34.1	29.4	24.7
	dpw	kPa	67	61	55	48	43	32	73	68	62	50	38	28
15	CC	kW	830	789	743	690	624	534	920	882	834	722	621	526
	PI	kW	228	245	264	285	276	246	273	297	322	304	279	253
	qw	l/s	39.7	37.7	35.5	33.1	29.9	25.6	44.0	42.2	39.9	34.6	29.7	25.2
	dpw	kPa	73	67	60	53	44	33	80	74	67	52	39	29

			790						880					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	812	777	733	676	585	478	891	859	816	761	696	592
	PI	kW	264	288	314	342	314	297	278	303	331	362	359	342
	qw	l/s	38.7	37.1	34.9	32.2	27.9	22.8	42.5	40.9	38.9	36.3	33.2	28.2
	dpw	kPa	50	47	42	36	28	19	59	56	51	45	38	29
7	CC	kW	853	816	769	687	595	489	937	902	857	793	719	602
	PI	kW	274	299	325	337	306	289	288	314	342	370	358	331
	qw	l/s	40.7	38.9	36.7	32.8	28.4	23.3	44.7	43.0	40.9	37.8	34.3	28.7
	dpw	kPa	55	51	46	37	29	20	65	61	55	48	40	29
9	CC	kW	894	855	805	696	604	498	983	945	897	815	729	612
	PI	kW	284	310	337	328	297	280	298	325	354	368	350	322
	qw	l/s	42.7	40.8	38.4	33.2	28.9	23.8	46.9	45.1	42.9	38.9	34.8	29.2
	dpw	kPa	60	55	50	38	30	21	71	66	60	51	42	30
11	CC	kW	936	894	841	702	595	505	1029	989	938	841	730	615
	PI	kW	295	321	350	317	303	269	308	336	366	370	350	321
	qw	l/s	44.7	42.7	40.2	33.6	28.5	24.1	49.2	47.3	44.8	40.2	34.9	29.4
	dpw	kPa	65	60	54	39	29	22	77	72	66	54	42	31
13	CC	kW	978	932	868	711	604	517	1076	1033	979	861	741	626
	PI	kW	306	333	357	308	293	262	319	348	379	368	341	311
	qw	l/s	46.8	44.6	41.5	34.0	28.9	24.8	51.5	49.4	46.9	41.2	35.4	29.9
	dpw	kPa	71	65	57	40	30	23	84	78	71	56	43	32
15	CC	kW	1020	971	876	704	615	523	1124	1078	1013	869	752	633
	PI	kW	318	345	348	315	285	251	330	360	386	357	331	299
	qw	l/s	48.8	46.5	41.9	33.7	29.5	25.1	53.8	51.6	48.5	41.6	36.0	30.3
	dpw	kPa	76	70	58	39	31	23	91	84	75	57	44	32

EWAD C-SR

			920						C10					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	945	908	859	796	701	575	1039	1001	951	887	810	684
	PI	kW	309	338	369	404	380	360	331	361	395	432	427	402
	qw	l/s	45.1	43.3	40.9	38.0	33.4	27.4	49.5	47.7	45.3	42.3	38.6	32.6
	dpw	kPa	66	62	56	49	39	27	61	57	52	46	39	29
7	CC	kW	992	952	900	822	710	586	1092	1050	997	920	836	697
	PI	kW	320	350	382	409	368	348	342	374	408	439	426	390
	qw	l/s	47.3	45.4	42.9	39.2	33.9	27.9	52.1	50.1	47.6	43.9	39.9	33.2
	dpw	kPa	72	67	61	52	40	28	67	63	57	49	42	30
9	CC	kW	1039	996	941	829	720	597	1145	1101	1044	946	846	711
	PI	kW	332	362	396	396	357	338	354	386	422	437	414	381
	qw	l/s	49.6	47.6	44.9	39.6	34.4	28.5	54.7	52.6	49.9	45.2	40.4	34.0
	dpw	kPa	79	73	66	52	41	29	73	68	62	52	43	31
11	CC	kW	1087	1041	982	842	713	609	1199	1152	1091	975	846	712
	PI	kW	344	375	409	388	367	328	367	400	436	439	414	377
	qw	l/s	52.0	49.7	46.9	40.3	34.1	29.1	57.3	55.0	52.2	46.6	40.4	34.0
	dpw	kPa	86	79	71	54	40	30	80	74	67	55	43	31
13	CC	kW	1135	1086	1023	853	724	620	1254	1203	1139	996	858	721
	PI	kW	356	388	424	377	356	317	380	414	451	434	402	363
	qw	l/s	54.3	51.9	49.0	40.8	34.6	29.7	60.0	57.5	54.5	47.6	41.1	34.5
	dpw	kPa	93	85	77	55	41	31	87	80	73	57	44	32
15	CC	kW	1184	1131	1050	862	738	627	1309	1255	1175	996	870	735
	PI	kW	369	402	428	365	347	304	393	428	458	434	391	353
	qw	l/s	56.7	54.1	50.3	41.2	35.3	30.0	62.7	60.1	56.3	47.7	41.7	35.2
	dpw	kPa	100	92	80	56	43	32	94	87	77	57	45	33

			C11						C13					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	1125	1087	1038	974	927	799	1383	1336	1273	1192	1117	991
	PI	kW	350	382	418	458	484	446	435	475	519	568	586	563
	qw	l/s	53.6	51.8	49.5	46.4	44.2	38.1	65.9	63.7	60.7	56.8	53.2	47.2
	dpw	kPa	71	67	61	55	50	38	46	43	40	35	31	25
7	CC	kW	1182	1142	1089	1021	952	813	1456	1405	1338	1253	1162	997
	PI	kW	362	395	432	473	485	435	450	491	536	587	593	558
	qw	l/s	56.4	54.5	52.0	48.7	45.4	38.8	69.5	67.0	63.8	59.8	55.4	47.6
	dpw	kPa	78	73	67	60	53	40	51	47	43	39	34	26
9	CC	kW	1240	1197	1141	1070	966	801	1530	1475	1404	1303	1204	1016
	PI	kW	374	408	446	488	474	445	466	508	554	598	599	544
	qw	l/s	59.2	57.2	54.5	51.1	46.1	38.2	73.1	70.4	67.1	62.2	57.5	48.5
	dpw	kPa	85	79	73	65	54	39	55	52	47	41	36	27
11	CC	kW	1299	1253	1194	1118	982	816	1606	1546	1471	1351	1216	1031
	PI	kW	386	422	460	503	464	434	482	525	573	606	581	527
	qw	l/s	62.1	59.9	57.1	53.5	46.9	39.0	76.7	73.9	70.3	64.6	58.1	49.3
	dpw	kPa	92	86	79	70	56	40	*60*	56	52	44	37	27
13	CC	kW	1359	1310	1247	1138	995	829	1682	1619	1538	1401	1227	1026
	PI	kW	399	436	475	499	452	420	499	543	592	614	579	529
	qw	l/s	65.0	62.7	59.6	54.4	47.6	39.7	80.5	77.4	73.6	67.0	58.7	49.1
	dpw	kPa	100	94	86	73	57	41	*66*	*61*	56	47	37	27
15	CC	kW	1420	1367	1300	1149	1005	838	1760	1692	1606	1434	1245	1041
	PI	kW	413	450	491	485	437	403	516	562	612	612	563	512
	qw	l/s	68.0	65.4	62.2	55.0	48.1	40.1	84.2	81.0	76.9	68.6	59.6	49.8
	dpw	kPa	*108*	101	92	74	58	42	*71*	*67*	*61*	49	38	28

EWAD C-SR

			C14						C15					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	1502	1444	1368	1272	1152	971	1584	1525	1448	1351	1225	1057
	PI	kW	484	528	577	631	619	587	506	553	604	661	644	627
	qw	l/s	71.6	68.8	65.2	60.6	54.9	46.3	75.5	72.7	69.0	64.4	58.4	50.4
	dpw	kPa	59	55	50	44	37	27	65	61	56	49	41	32
7	CC	kW	1579	1517	1436	1321	1183	989	1666	1603	1521	1403	1257	1092
	PI	kW	502	547	598	643	612	571	524	572	625	673	635	622
	qw	l/s	75.4	72.4	68.5	63.0	56.4	47.2	79.5	76.5	72.6	66.9	60.0	52.1
	dpw	kPa	65	60	55	47	39	28	72	67	61	53	43	33
9	CC	kW	1658	1591	1505	1356	1201	1007	1750	1681	1594	1441	1293	1111
	PI	kW	520	567	619	640	597	554	543	592	646	668	629	605
	qw	l/s	79.2	76.0	71.9	64.8	57.4	48.1	83.6	80.3	76.1	68.8	61.7	53.1
	dpw	kPa	71	66	60	50	40	29	78	73	66	55	45	35
11	CC	kW	1738	1666	1575	1388	1198	1011	1834	1761	1668	1476	1309	1126
	PI	kW	539	587	640	633	603	544	562	613	669	659	649	584
	qw	l/s	83.1	79.6	75.3	66.4	57.3	48.3	87.7	84.2	79.7	70.5	62.6	53.8
	dpw	kPa	78	72	65	52	40	29	85	79	72	58	47	35
13	CC	kW	1820	1742	1645	1420	1215	1028	1920	1841	1743	1514	1341	1144
	PI	kW	559	608	663	628	585	526	582	635	692	653	638	565
	qw	l/s	87.0	83.3	78.7	67.9	58.1	49.2	91.8	88.1	83.4	72.4	64.2	54.7
	dpw	kPa	84	78	70	54	41	30	*93*	*86*	78	60	49	37
15	CC	kW	1901	1818	1695	1438	1233	1047	2007	1922	1800	1549	1360	1163
	PI	kW	579	630	672	612	567	510	603	657	703	645	621	549
	qw	l/s	91.0	87.0	81.2	68.9	59.0	50.1	96.1	92.0	86.2	74.1	65.1	55.7
	dpw	kPa	*91*	84	74	55	42	31	*101*	*93*	83	63	50	38

			C16					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	1658	1595	1512	1406	1271	1061
	PI	kW	542	592	648	710	692	646
	qw	l/s	79.0	76.0	72.1	67.0	60.6	50.6
	dpw	kPa	72	67	61	53	44	32
7	CC	kW	1741	1673	1585	1455	1296	1084
	PI	kW	562	613	670	719	679	630
	qw	l/s	83.1	79.8	75.6	69.4	61.8	51.7
	dpw	kPa	78	73	66	57	46	33
9	CC	kW	1826	1752	1659	1492	1321	1092
	PI	kW	581	635	693	715	666	623
	qw	l/s	87.2	83.7	79.2	71.3	63.1	52.2
	dpw	kPa	85	79	72	59	48	34
11	CC	kW	1911	1833	1733	1527	1315	1107
	PI	kW	602	657	717	708	669	599
	qw	l/s	91.3	87.6	82.8	73.0	62.9	52.9
	dpw	kPa	93	86	78	62	47	35
13	CC	kW	1997	1913	1808	1553	1335	1130
	PI	kW	623	680	742	696	650	583
	qw	l/s	95.5	91.5	86.5	74.3	63.9	54.1
	dpw	kPa	101	93	84	64	49	36
15	CC	kW	2084	1994	1859	1575	1350	1146
	PI	kW	646	704	750	680	626	561
	qw	l/s	99.8	95.5	89.0	75.4	64.7	54.9
	dpw	kPa	109	100	88	66	50	37

Fluid: Water
Heat Recovery OFF
Ta: Condenser inlet air temperature; Twout: Evaporator leaving water temperature (Δt 5.0°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 contac factory*

EWAD C-XS

			760						830					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	748	728	705	674	652	625	820	798	773	742	719	691
	PI	kW	198	216	234	253	266	279	216	235	254	275	289	304
	qw	l/s	35.7	34.7	33.6	32.1	31.1	29.8	39.1	38.0	36.9	35.4	34.3	32.9
	dpw	kPa	79	75	71	66	62	57	55	53	50	46	44	41
7	CC	kW	791	770	745	714	690	662	868	845	819	785	761	732
	PI	kW	204	222	240	260	273	287	222	241	261	283	297	312
	qw	l/s	37.8	36.8	35.6	34.0	32.9	31.6	41.4	40.3	39.1	37.5	36.3	34.9
	dpw	kPa	88	83	79	73	68	64	62	59	55	51	49	45
9	CC	kW	835	813	787	754	729	700	914	892	865	830	804	774
	PI	kW	210	228	247	268	281	295	228	248	268	291	305	321
	qw	l/s	39.9	38.8	37.6	36.0	34.8	33.4	43.7	42.6	41.3	39.6	38.4	36.9
	dpw	kPa	97	92	87	80	76	70	68	65	61	57	54	50
11	CC	kW	878	856	829	794	769	739	961	938	910	875	848	817
	PI	kW	216	234	254	275	289	303	234	254	276	299	314	329
	qw	l/s	42.0	40.9	39.6	38.0	36.7	35.3	46.0	44.8	43.5	41.8	40.5	39.0
	dpw	kPa	106	101	95	88	83	78	74	71	67	63	59	55
13	CC	kW	922	899	871	835	809	778	1009	985	956	919	893	860
	PI	kW	222	241	261	283	297	312	240	261	283	307	322	338
	qw	l/s	44.1	43.0	41.7	39.9	38.7	37.2	48.3	47.1	45.7	44.0	42.7	41.2
	dpw	kPa	116	111	104	97	91	85	81	78	74	69	65	61
15	CC	kW	968	943	913	876	849	817	1055	1031	1002	964	936	904
	PI	kW	228	247	268	290	305	320	246	267	290	314	330	347
	qw	l/s	46.3	45.1	43.7	41.9	40.6	39.1	50.5	49.4	48.0	46.1	44.8	43.3
	dpw	kPa	126	121	114	106	100	93	88	84	80	75	71	67

			890						990					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	880	856	828	793	767	736	990	963	931	890	860	825
	PI	kW	237	257	279	303	318	335	262	284	308	334	350	368
	qw	l/s	41.9	40.8	39.5	37.8	36.6	35.1	47.2	45.9	44.4	42.4	41.0	39.3
	dpw	kPa	63	60	56	52	49	46	60	57	53	49	46	43
7	CC	kW	931	906	876	838	810	778	1050	1021	986	943	911	875
	PI	kW	244	265	287	311	327	344	269	293	317	343	360	379
	qw	l/s	44.4	43.2	41.8	40.0	38.7	37.1	50.1	48.7	47.1	45.0	43.5	41.7
	dpw	kPa	70	66	63	58	54	51	66	63	59	55	51	48
9	CC	kW	977	955	925	885	855	822	1109	1079	1044	998	964	926
	PI	kW	250	272	295	320	336	353	277	301	326	353	371	389
	qw	l/s	46.7	45.6	44.2	42.3	40.9	39.2	53.0	51.6	49.8	47.6	46.0	44.2
	dpw	kPa	76	73	69	64	60	56	73	70	66	61	57	53
11	CC	kW	1023	1000	971	933	902	866	1171	1139	1101	1054	1018	978
	PI	kW	256	279	303	329	345	363	285	310	336	363	381	400
	qw	l/s	48.9	47.8	46.4	44.6	43.1	41.4	56.0	54.4	52.6	50.4	48.7	46.7
	dpw	kPa	83	80	75	70	66	61	81	77	73	67	63	59
13	CC	kW	1070	1046	1015	977	948	912	1233	1200	1160	1110	1073	1031
	PI	kW	263	286	310	337	355	373	294	319	345	374	392	412
	qw	l/s	51.2	50.0	48.6	46.7	45.4	43.6	59.0	57.4	55.5	53.1	51.3	49.3
	dpw	kPa	90	86	82	76	72	68	89	85	80	74	69	64
15	CC	kW	1118	1092	1060	1020	990	956	1295	1261	1219	1167	1129	1085
	PI	kW	269	293	318	346	364	383	302	328	355	385	403	423
	qw	l/s	53.5	52.3	50.8	48.8	47.4	45.8	62.0	60.4	58.4	55.9	54.0	52.0
	dpw	kPa	97	93	89	83	78	74	97	93	87	81	76	71

EWAD C-XS

			C10						C11					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	1065	1035	999	953	918	878	1182	1151	1115	1068	1034	994
	PI	kW	288	312	339	367	386	406	310	337	365	396	416	437
	qw	l/s	50.8	49.3	47.6	45.4	43.8	41.9	56.3	54.9	53.1	50.9	49.3	47.4
	dpw	kPa	68	65	61	56	52	48	44	42	40	37	35	32
7	CC	kW	1128	1096	1057	1008	972	930	1251	1218	1180	1131	1095	1053
	PI	kW	296	322	349	378	397	417	318	346	375	407	427	449
	qw	l/s	53.8	52.3	50.5	48.1	46.4	44.4	59.7	58.1	56.3	54.0	52.3	50.3
	dpw	kPa	76	72	67	62	58	53	49	47	44	41	39	36
9	CC	kW	1190	1158	1118	1065	1027	983	1320	1286	1246	1195	1158	1114
	PI	kW	305	331	359	389	409	429	327	356	386	418	439	461
	qw	l/s	56.8	55.3	53.4	50.9	49.0	47.0	63.1	61.4	59.5	57.1	55.3	53.2
	dpw	kPa	83	79	74	68	64	59	54	52	49	45	43	40
11	CC	kW	1253	1219	1177	1124	1083	1037	1391	1356	1314	1261	1221	1176
	PI	kW	314	341	370	401	421	442	336	365	396	429	451	473
	qw	l/s	59.9	58.3	56.3	53.7	51.8	49.6	66.5	64.8	62.8	60.3	58.4	56.2
	dpw	kPa	92	87	82	75	70	65	60	57	54	50	47	44
13	CC	kW	1317	1281	1237	1181	1140	1093	1464	1427	1382	1326	1286	1239
	PI	kW	323	351	380	412	433	455	345	375	407	441	463	486
	qw	l/s	63.0	61.3	59.2	56.5	54.6	52.3	70.0	68.3	66.1	63.5	61.5	59.3
	dpw	kPa	100	95	90	82	77	72	65	62	59	55	52	48
15	CC	kW	1382	1344	1298	1239	1197	1149	1538	1499	1452	1393	1351	1303
	PI	kW	332	361	391	424	445	468	355	386	418	453	475	499
	qw	l/s	66.2	64.3	62.1	59.3	57.3	55.0	73.6	71.8	69.5	66.7	64.7	62.4
	dpw	kPa	109	104	98	90	84	78	71	68	64	60	57	53

			C12						C13					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	1268	1234	1194	1142	1104	1058	1337	1298	1251	1192	1149	1099
	PI	kW	341	371	402	436	458	482	349	379	410	444	466	490
	qw	l/s	60.4	58.8	56.9	54.4	52.6	50.4	63.7	61.9	59.6	56.8	54.8	52.4
	dpw	kPa	50	48	45	42	39	36	66	63	59	54	51	47
7	CC	kW	1340	1304	1262	1208	1167	1120	1418	1377	1328	1264	1219	1166
	PI	kW	350	381	413	448	471	495	360	391	423	458	480	504
	qw	l/s	63.9	62.2	60.2	57.6	55.7	53.4	67.7	65.7	63.3	60.3	58.1	55.6
	dpw	kPa	56	53	50	46	43	40	74	70	66	60	56	52
9	CC	kW	1412	1375	1331	1274	1232	1183	1502	1458	1405	1339	1290	1235
	PI	kW	360	392	425	461	484	509	371	403	436	472	495	519
	qw	l/s	67.4	65.7	63.6	60.8	58.8	56.5	71.7	69.6	67.1	63.9	61.6	59.0
	dpw	kPa	61	58	55	51	48	44	82	78	73	67	62	58
11	CC	kW	1486	1447	1401	1342	1297	1247	1588	1541	1485	1415	1364	1306
	PI	kW	370	402	437	474	497	523	383	416	450	486	510	535
	qw	l/s	71.0	69.2	67.0	64.1	62.0	59.6	75.9	73.7	71.0	67.6	65.2	62.4
	dpw	kPa	67	64	60	56	53	49	91	86	81	74	69	64
13	CC	kW	1562	1521	1472	1409	1364	1311	1676	1627	1567	1492	1438	1378
	PI	kW	380	414	449	487	511	537	395	429	464	501	525	551
	qw	l/s	74.7	72.8	70.4	67.4	65.2	62.7	80.2	77.8	74.9	71.4	68.8	65.9
	dpw	kPa	73	70	66	61	58	54	100	95	89	81	76	70
15	CC	kW	1639	1596	1544	1478	1431	1376	1765	1713	1650	1571	1514	1451
	PI	kW	391	425	461	500	525	552	408	442	478	517	541	567
	qw	l/s	78.5	76.4	73.9	70.8	68.5	65.9	84.5	82.0	79.0	75.2	72.5	69.5
	dpw	kPa	80	76	72	67	63	59	110	104	98	89	84	77

EWAD C-XS

			C16						C17					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	1583	1541	1489	1422	1373	1315	1670	1627	1574	1506	1456	1396
	PI	kW	429	466	506	549	577	607	454	494	536	582	612	645
	qw	l/s	75.4	73.4	71.0	67.8	65.4	62.7	79.6	77.5	75.0	71.8	69.4	66.6
	dpw	kPa	61	58	55	50	47	44	67	64	60	56	53	49
7	CC	kW	1670	1626	1573	1502	1450	1390	1761	1716	1662	1590	1537	1475
	PI	kW	441	479	520	564	593	624	467	508	551	598	629	662
	qw	l/s	79.7	77.6	75.1	71.7	69.2	66.3	84.0	81.9	79.3	75.8	73.3	70.4
	dpw	kPa	67	64	61	56	52	48	74	71	67	62	58	54
9	CC	kW	1759	1713	1657	1584	1530	1467	1855	1807	1749	1675	1620	1555
	PI	kW	453	493	535	581	610	642	479	522	566	615	646	680
	qw	l/s	84.0	81.8	79.1	75.7	73.1	70.0	88.6	86.3	83.5	80.0	77.3	74.3
	dpw	kPa	74	71	67	61	58	53	81	78	73	68	64	59
11	CC	kW	1850	1801	1742	1665	1610	1545	1950	1900	1839	1760	1703	1637
	PI	kW	466	507	550	597	627	659	493	536	581	631	664	698
	qw	l/s	88.4	86.1	83.2	79.6	76.9	73.9	93.2	90.8	87.9	84.1	81.4	78.2
	dpw	kPa	81	77	73	67	63	59	89	85	80	74	70	65
13	CC	kW	1944	1892	1828	1748	1690	1623	2048	1995	1930	1847	1788	1719
	PI	kW	479	521	565	613	644	677	506	551	597	648	682	717
	qw	l/s	93.0	90.5	87.5	83.6	80.8	77.7	98.0	95.4	92.3	88.4	85.5	82.2
	dpw	kPa	89	85	80	73	69	64	98	93	88	81	76	71
15	CC	kW	2039	1984	1917	1832	1771	1702	2148	2092	2023	1936	1874	1802
	PI	kW	493	536	581	630	662	696	521	566	614	666	700	736
	qw	l/s	97.6	95.0	91.8	87.7	84.8	81.5	102.8	100.1	96.9	92.7	89.7	86.3
	dpw	kPa	97	92	87	80	75	70	106	102	96	88	83	78

			C18						C19					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	1751	1706	1652	1581	1529	1468	1839	1792	1737	1665	1612	1549
	PI	kW	478	520	564	613	645	679	503	547	594	645	678	714
	qw	l/s	83.4	81.3	78.7	75.4	72.9	70.0	87.6	85.4	82.8	79.4	76.8	73.8
	dpw	kPa	67	64	60	56	52	49	73	70	66	61	58	54
7	CC	kW	1848	1801	1744	1670	1615	1551	1941	1892	1833	1757	1701	1636
	PI	kW	491	534	580	630	662	697	516	562	609	662	696	733
	qw	l/s	88.2	85.9	83.2	79.7	77.0	74.0	92.6	90.2	87.4	83.8	81.2	78.0
	dpw	kPa	74	70	66	61	58	54	80	77	73	67	64	59
9	CC	kW	1948	1898	1837	1760	1703	1636	2045	1993	1931	1851	1793	1724
	PI	kW	505	549	596	647	680	716	530	577	626	680	715	752
	qw	l/s	93.0	90.6	87.7	84.0	81.3	78.1	97.7	95.2	92.2	88.4	85.6	82.3
	dpw	kPa	81	77	73	68	64	59	89	85	80	74	70	65
11	CC	kW	2051	1998	1933	1851	1791	1722	2152	2098	2032	1948	1886	1814
	PI	kW	519	564	612	664	698	735	544	592	643	698	734	772
	qw	l/s	98.0	95.5	92.4	88.5	85.6	82.3	102.9	100.3	97.1	93.1	90.1	86.7
	dpw	kPa	89	85	80	74	70	65	97	93	88	81	77	72
13	CC	kW	2156	2100	2032	1945	1882	1810	2262	2205	2135	2046	1981	1907
	PI	kW	533	580	629	682	717	754	559	608	660	716	753	792
	qw	l/s	103.1	100.5	97.2	93.0	90.0	86.6	108.2	105.5	102.1	97.9	94.8	91.2
	dpw	kPa	98	93	88	81	76	71	106	102	96	89	84	78
15	CC	kW	2263	2204	2132	2041	1975	1899	2375	2314	2240	2146	2078	2001
	PI	kW	548	596	646	701	737	774	575	625	678	736	773	813
	qw	l/s	108.4	105.5	102.1	97.7	94.5	90.9	113.7	110.8	107.2	102.7	99.5	95.8
	dpw	kPa	107	102	96	88	83	78	116	111	105	97	91	85

Fluid: Water
Heat Recovery OFF
Ta: Condenser inlet air temperature; Twout: Evaporator leaving water temperature (Δt 5.0°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 contac factory*

EWAD C-XL

			760						830					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	748	728	705	674	652	625	820	798	773	742	719	691
	PI	kW	198	216	234	253	266	279	216	235	254	275	289	304
	qw	l/s	35.7	34.7	33.6	32.1	31.1	29.8	39.1	38.0	36.9	35.4	34.3	32.9
	dpw	kPa	79	75	71	66	62	57	55	53	50	46	44	41
7	CC	kW	791	770	745	714	690	662	868	845	819	785	761	732
	PI	kW	204	222	240	260	273	287	222	241	261	283	297	312
	qw	l/s	37.8	36.8	35.6	34.0	32.9	31.6	41.4	40.3	39.1	37.5	36.3	34.9
	dpw	kPa	88	83	79	73	68	64	62	59	55	51	49	45
9	CC	kW	835	813	787	754	729	700	914	892	865	830	804	774
	PI	kW	210	228	247	268	281	295	228	248	268	291	305	321
	qw	l/s	39.9	38.8	37.6	36.0	34.8	33.4	43.7	42.6	41.3	39.6	38.4	36.9
	dpw	kPa	97	92	87	80	76	70	68	65	61	57	54	50
11	CC	kW	878	856	829	794	769	739	961	938	910	875	848	817
	PI	kW	216	234	254	275	289	303	234	254	276	299	314	329
	qw	l/s	42.0	40.9	39.6	38.0	36.7	35.3	46.0	44.8	43.5	41.8	40.5	39.0
	dpw	kPa	106	101	95	88	83	78	74	71	67	63	59	55
13	CC	kW	922	899	871	835	809	778	1009	985	956	919	893	860
	PI	kW	222	241	261	283	297	312	240	261	283	307	322	338
	qw	l/s	44.1	43.0	41.7	39.9	38.7	37.2	48.3	47.1	45.7	44.0	42.7	41.2
	dpw	kPa	116	111	104	97	91	85	81	78	74	69	65	61
15	CC	kW	968	943	913	876	849	817	1055	1031	1002	964	936	904
	PI	kW	228	247	268	290	305	320	246	267	290	314	330	347
	qw	l/s	46.3	45.1	43.7	41.9	40.6	39.1	50.5	49.4	48.0	46.1	44.8	43.3
	dpw	kPa	126	121	114	106	100	93	88	84	80	75	71	67

			890						990					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	880	856	828	793	767	736	990	963	931	890	860	825
	PI	kW	237	257	279	303	318	335	262	284	308	334	350	368
	qw	l/s	41.9	40.8	39.5	37.8	36.6	35.1	47.2	45.9	44.4	42.4	41.0	39.3
	dpw	kPa	63	60	56	52	49	46	60	57	53	49	46	43
7	CC	kW	931	906	876	838	810	778	1050	1021	986	943	911	875
	PI	kW	244	265	287	311	327	344	269	293	317	343	360	379
	qw	l/s	44.4	43.2	41.8	40.0	38.7	37.1	50.1	48.7	47.1	45.0	43.5	41.7
	dpw	kPa	70	66	63	58	54	51	66	63	59	55	51	48
9	CC	kW	977	955	925	885	855	822	1109	1079	1044	998	964	926
	PI	kW	250	272	295	320	336	353	277	301	326	353	371	389
	qw	l/s	46.7	45.6	44.2	42.3	40.9	39.2	53.0	51.6	49.8	47.6	46.0	44.2
	dpw	kPa	76	73	69	64	60	56	73	70	66	61	57	53
11	CC	kW	1023	1000	971	933	902	866	1171	1139	1101	1054	1018	978
	PI	kW	256	279	303	329	345	363	285	310	336	363	381	400
	qw	l/s	48.9	47.8	46.4	44.6	43.1	41.4	56.0	54.4	52.6	50.4	48.7	46.7
	dpw	kPa	83	80	75	70	66	61	81	77	73	67	63	59
13	CC	kW	1070	1046	1015	977	948	912	1233	1200	1160	1110	1073	1031
	PI	kW	263	286	310	337	355	373	294	319	345	374	392	412
	qw	l/s	51.2	50.0	48.6	46.7	45.4	43.6	59.0	57.4	55.5	53.1	51.3	49.3
	dpw	kPa	90	86	82	76	72	68	89	85	80	74	69	64
15	CC	kW	1118	1092	1060	1020	990	956	1295	1261	1219	1167	1129	1085
	PI	kW	269	293	318	346	364	383	302	328	355	385	403	423
	qw	l/s	53.5	52.3	50.8	48.8	47.4	45.8	62.0	60.4	58.4	55.9	54.0	52.0
	dpw	kPa	97	93	89	83	78	74	97	93	87	81	76	71

EWAD C-XL

			C10						C11					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	1065	1035	999	953	918	878	1182	1151	1115	1068	1034	994
	PI	kW	288	312	339	367	386	406	310	337	365	396	416	437
	qw	l/s	50.8	49.3	47.6	45.4	43.8	41.9	56.3	54.9	53.1	50.9	49.3	47.4
	dpw	kPa	68	65	61	56	52	48	44	42	40	37	35	32
7	CC	kW	1128	1096	1057	1008	972	930	1251	1218	1180	1131	1095	1053
	PI	kW	296	322	349	378	397	417	318	346	375	407	427	449
	qw	l/s	53.8	52.3	50.5	48.1	46.4	44.4	59.7	58.1	56.3	54.0	52.3	50.3
	dpw	kPa	76	72	67	62	58	53	49	47	44	41	39	36
9	CC	kW	1190	1158	1118	1065	1027	983	1320	1286	1246	1195	1158	1114
	PI	kW	305	331	359	389	409	429	327	356	386	418	439	461
	qw	l/s	56.8	55.3	53.4	50.9	49.0	47.0	63.1	61.4	59.5	57.1	55.3	53.2
	dpw	kPa	83	79	74	68	64	59	54	52	49	45	43	40
11	CC	kW	1253	1219	1177	1124	1083	1037	1391	1356	1314	1261	1221	1176
	PI	kW	314	341	370	401	421	442	336	365	396	429	451	473
	qw	l/s	59.9	58.3	56.3	53.7	51.8	49.6	66.5	64.8	62.8	60.3	58.4	56.2
	dpw	kPa	92	87	82	75	70	65	60	57	54	50	47	44
13	CC	kW	1317	1281	1237	1181	1140	1093	1464	1427	1382	1326	1286	1239
	PI	kW	323	351	380	412	433	455	345	375	407	441	463	486
	qw	l/s	63.0	61.3	59.2	56.5	54.6	52.3	70.0	68.3	66.1	63.5	61.5	59.3
	dpw	kPa	100	95	90	82	77	72	65	62	59	55	52	48
15	CC	kW	1382	1344	1298	1239	1197	1149	1538	1499	1452	1393	1351	1303
	PI	kW	332	361	391	424	445	468	355	386	418	453	475	499
	qw	l/s	66.2	64.3	62.1	59.3	57.3	55.0	73.6	71.8	69.5	66.7	64.7	62.4
	dpw	kPa	109	104	98	90	84	78	71	68	64	60	57	53

			C12						C13					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	1268	1234	1194	1142	1104	1058	1337	1298	1251	1192	1149	1099
	PI	kW	341	371	402	436	458	482	349	379	410	444	466	490
	qw	l/s	60.4	58.8	56.9	54.4	52.6	50.4	63.7	61.9	59.6	56.8	54.8	52.4
	dpw	kPa	50	48	45	42	39	36	66	63	59	54	51	47
7	CC	kW	1340	1304	1262	1208	1167	1120	1418	1377	1328	1264	1219	1166
	PI	kW	350	381	413	448	471	495	360	391	423	458	480	504
	qw	l/s	63.9	62.2	60.2	57.6	55.7	53.4	67.7	65.7	63.3	60.3	58.1	55.6
	dpw	kPa	56	53	50	46	43	40	74	70	66	60	56	52
9	CC	kW	1412	1375	1331	1274	1232	1183	1502	1458	1405	1339	1290	1235
	PI	kW	360	392	425	461	484	509	371	403	436	472	495	519
	qw	l/s	67.4	65.7	63.6	60.8	58.8	56.5	71.7	69.6	67.1	63.9	61.6	59.0
	dpw	kPa	61	58	55	51	48	44	82	78	73	67	62	58
11	CC	kW	1486	1447	1401	1342	1297	1247	1588	1541	1485	1415	1364	1306
	PI	kW	370	402	437	474	497	523	383	416	450	486	510	535
	qw	l/s	71.0	69.2	67.0	64.1	62.0	59.6	75.9	73.7	71.0	67.6	65.2	62.4
	dpw	kPa	67	64	60	56	53	49	91	86	81	74	69	64
13	CC	kW	1562	1521	1472	1409	1364	1311	1676	1627	1567	1492	1438	1378
	PI	kW	380	414	449	487	511	537	395	429	464	501	525	551
	qw	l/s	74.7	72.8	70.4	67.4	65.2	62.7	80.2	77.8	74.9	71.4	68.8	65.9
	dpw	kPa	73	70	66	61	58	54	100	95	89	81	76	70
15	CC	kW	1639	1596	1544	1478	1431	1376	1765	1713	1650	1571	1514	1451
	PI	kW	391	425	461	500	525	552	408	442	478	517	541	567
	qw	l/s	78.5	76.4	73.9	70.8	68.5	65.9	84.5	82.0	79.0	75.2	72.5	69.5
	dpw	kPa	80	76	72	67	63	59	110	104	98	89	84	77

EWAD C-XL

			C16						C17					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	1583	1541	1489	1422	1373	1315	1670	1627	1574	1506	1456	1396
	PI	kW	429	466	506	549	577	607	454	494	536	582	612	645
	qw	l/s	75.4	73.4	71.0	67.8	65.4	62.7	79.6	77.5	75.0	71.8	69.4	66.6
	dpw	kPa	61	58	55	50	47	44	67	64	60	56	53	49
7	CC	kW	1670	1626	1573	1502	1450	1390	1761	1716	1662	1590	1537	1475
	PI	kW	441	479	520	564	593	624	467	508	551	598	629	662
	qw	l/s	79.7	77.6	75.1	71.7	69.2	66.3	84.0	81.9	79.3	75.8	73.3	70.4
	dpw	kPa	67	64	61	56	52	48	74	71	67	62	58	54
9	CC	kW	1759	1713	1657	1584	1530	1467	1855	1807	1749	1675	1620	1555
	PI	kW	453	493	535	581	610	642	479	522	566	615	646	680
	qw	l/s	84.0	81.8	79.1	75.7	73.1	70.0	88.6	86.3	83.5	80.0	77.3	74.3
	dpw	kPa	74	71	67	61	58	53	81	78	73	68	64	59
11	CC	kW	1850	1801	1742	1665	1610	1545	1950	1900	1839	1760	1703	1637
	PI	kW	466	507	550	597	627	659	493	536	581	631	664	698
	qw	l/s	88.4	86.1	83.2	79.6	76.9	73.9	93.2	90.8	87.9	84.1	81.4	78.2
	dpw	kPa	81	77	73	67	63	59	89	85	80	74	70	65
13	CC	kW	1944	1892	1828	1748	1690	1623	2048	1995	1930	1847	1788	1719
	PI	kW	479	521	565	613	644	677	506	551	597	648	682	717
	qw	l/s	93.0	90.5	87.5	83.6	80.8	77.7	98.0	95.4	92.3	88.4	85.5	82.2
	dpw	kPa	89	85	80	73	69	64	98	93	88	81	76	71
15	CC	kW	2039	1984	1917	1832	1771	1702	2148	2092	2023	1936	1874	1802
	PI	kW	493	536	581	630	662	696	521	566	614	666	700	736
	qw	l/s	97.6	95.0	91.8	87.7	84.8	81.5	102.8	100.1	96.9	92.7	89.7	86.3
	dpw	kPa	97	92	87	80	75	70	106	102	96	88	83	78

			C18						C19					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	1751	1706	1652	1581	1529	1468	1839	1792	1737	1665	1612	1549
	PI	kW	478	520	564	613	645	679	503	547	594	645	678	714
	qw	l/s	83.4	81.3	78.7	75.4	72.9	70.0	87.6	85.4	82.8	79.4	76.8	73.8
	dpw	kPa	67	64	60	56	52	49	73	70	66	61	58	54
7	CC	kW	1848	1801	1744	1670	1615	1551	1941	1892	1833	1757	1701	1636
	PI	kW	491	534	580	630	662	697	516	562	609	662	696	733
	qw	l/s	88.2	85.9	83.2	79.7	77.0	74.0	92.6	90.2	87.4	83.8	81.2	78.0
	dpw	kPa	74	70	66	61	58	54	80	77	73	67	64	59
9	CC	kW	1948	1898	1837	1760	1703	1636	2045	1993	1931	1851	1793	1724
	PI	kW	505	549	596	647	680	716	530	577	626	680	715	752
	qw	l/s	93.0	90.6	87.7	84.0	81.3	78.1	97.7	95.2	92.2	88.4	85.6	82.3
	dpw	kPa	81	77	73	68	64	59	89	85	80	74	70	65
11	CC	kW	2051	1998	1933	1851	1791	1722	2152	2098	2032	1948	1886	1814
	PI	kW	519	564	612	664	698	735	544	592	643	698	734	772
	qw	l/s	98.0	95.5	92.4	88.5	85.6	82.3	102.9	100.3	97.1	93.1	90.1	86.7
	dpw	kPa	89	85	80	74	70	65	97	93	88	81	77	72
13	CC	kW	2156	2100	2032	1945	1882	1810	2262	2205	2135	2046	1981	1907
	PI	kW	533	580	629	682	717	754	559	608	660	716	753	792
	qw	l/s	103.1	100.5	97.2	93.0	90.0	86.6	108.2	105.5	102.1	97.9	94.8	91.2
	dpw	kPa	98	93	88	81	76	71	106	102	96	89	84	78
15	CC	kW	2263	2204	2132	2041	1975	1899	2375	2314	2240	2146	2078	2001
	PI	kW	548	596	646	701	737	774	575	625	678	736	773	813
	qw	l/s	108.4	105.5	102.1	97.7	94.5	90.9	113.7	110.8	107.2	102.7	99.5	95.8
	dpw	kPa	107	102	96	88	83	78	116	111	105	97	91	85

Fluid: Water
Heat Recovery OFF
Ta: Condenser inlet air temperature; Twout: Evaporator leaving water temperature (Δt 5.0°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 contac factory*

EWAD C-XR

			740						810					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	734	712	685	649	623	592	807	783	755	718	691	659
	PI	kW	198	216	235	255	269	283	214	234	254	277	291	307
	qw	l/s	35.0	34.0	32.6	30.9	29.7	28.2	38.5	37.3	36.0	34.2	32.9	31.4
	dpw	kPa	76	72	67	61	57	52	54	51	48	44	41	37
7	CC	kW	776	753	723	686	658	626	853	829	798	759	730	697
	PI	kW	205	223	242	264	277	292	221	241	262	285	300	316
	qw	l/s	37.0	35.9	34.5	32.7	31.4	29.9	40.7	39.5	38.1	36.2	34.8	33.3
	dpw	kPa	85	80	75	68	63	58	60	57	53	48	45	41
9	CC	kW	818	794	763	723	694	644	899	875	842	800	770	721
	PI	kW	212	230	250	272	286	292	228	249	270	294	309	317
	qw	l/s	39.1	37.9	36.4	34.5	33.1	30.7	43.0	41.8	40.2	38.2	36.8	34.4
	dpw	kPa	93	88	82	75	69	61	66	62	58	53	50	44
11	CC	kW	861	835	802	761	730	652	945	919	886	843	811	745
	PI	kW	219	238	258	281	295	285	235	256	279	303	319	317
	qw	l/s	41.1	39.9	38.4	36.4	34.9	31.1	45.2	43.9	42.4	40.3	38.8	35.6
	dpw	kPa	102	97	90	82	76	62	72	68	64	58	55	47
13	CC	kW	903	876	842	799	767	656	992	964	929	886	852	770
	PI	kW	226	245	267	290	305	276	242	264	287	313	329	318
	qw	l/s	43.2	41.9	40.3	38.2	36.7	31.4	47.4	46.1	44.5	42.4	40.8	36.8
	dpw	kPa	112	106	98	90	83	63	78	75	70	64	60	50
15	CC	kW	946	918	882	837	780	664	1036	1009	973	927	875	780
	PI	kW	233	253	275	299	302	269	250	272	296	322	328	311
	qw	l/s	45.3	43.9	42.2	40.1	37.3	31.8	49.6	48.3	46.6	44.4	41.9	37.4
	dpw	kPa	122	115	107	97	86	64	85	81	76	70	63	51

			870						970					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	865	839	806	764	733	697	972	942	905	857	822	782
	PI	kW	238	259	282	307	323	341	261	285	309	336	354	373
	qw	l/s	41.2	40.0	38.4	36.4	34.9	33.2	46.3	44.9	43.1	40.8	39.2	37.3
	dpw	kPa	61	58	54	49	45	41	58	55	51	46	43	39
7	CC	kW	914	886	851	806	774	736	1029	997	957	906	869	811
	PI	kW	246	267	291	317	334	352	270	294	320	347	366	375
	qw	l/s	43.6	42.3	40.6	38.5	36.9	35.1	49.1	47.6	45.7	43.2	41.5	38.7
	dpw	kPa	67	64	59	54	50	46	64	60	56	51	47	42
9	CC	kW	961	935	897	849	815	747	1087	1053	1010	956	917	838
	PI	kW	254	276	300	327	344	346	280	304	330	359	377	375
	qw	l/s	45.9	44.6	42.8	40.5	38.9	35.7	51.9	50.3	48.3	45.7	43.8	40.0
	dpw	kPa	74	70	65	59	55	47	71	67	62	56	52	44
11	CC	kW	1006	978	944	893	857	756	1146	1110	1065	1008	963	865
	PI	kW	261	285	310	337	355	337	289	314	341	371	388	374
	qw	l/s	48.1	46.8	45.1	42.7	41.0	36.1	54.8	53.0	50.9	48.2	46.0	41.3
	dpw	kPa	80	76	72	65	60	48	78	74	68	62	57	47
13	CC	kW	1051	1022	985	938	900	767	1206	1168	1120	1060	990	878
	PI	kW	269	293	319	348	366	329	299	325	353	383	387	366
	qw	l/s	50.3	48.9	47.1	44.9	43.0	36.7	57.7	55.9	53.6	50.7	47.4	42.0
	dpw	kPa	87	83	77	71	66	49	86	81	75	68	60	48
15	CC	kW	1097	1066	1027	978	903	775	1265	1225	1175	1112	1023	879
	PI	kW	276	301	328	358	356	319	309	336	364	395	388	366
	qw	l/s	52.5	51.0	49.2	46.8	43.2	37.1	60.6	58.7	56.3	53.3	49.0	42.1
	dpw	kPa	94	89	84	77	66	50	93	88	82	74	64	48

EWAD C-XR

			C10						C11					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	1043	1009	967	911	871	826	1163	1129	1087	1033	993	946
	PI	kW	290	316	343	374	394	415	309	336	366	398	419	442
	qw	l/s	49.7	48.1	46.1	43.4	41.5	39.4	55.4	53.8	51.8	49.2	47.3	45.1
	dpw	kPa	66	62	57	51	47	43	43	41	38	35	32	30
7	CC	kW	1104	1067	1021	963	920	840	1229	1193	1149	1092	1050	1001
	PI	kW	300	327	355	386	407	408	318	347	377	411	432	455
	qw	l/s	52.7	50.9	48.7	45.9	43.9	40.1	58.6	56.9	54.8	52.1	50.1	47.8
	dpw	kPa	73	68	63	57	52	44	47	45	42	38	36	33
9	CC	kW	1164	1126	1077	1015	970	851	1297	1259	1212	1152	1108	1033
	PI	kW	311	338	367	399	420	398	329	358	389	424	446	455
	qw	l/s	55.6	53.8	51.4	48.5	46.3	40.6	61.9	60.1	57.9	55.0	52.9	49.3
	dpw	kPa	80	75	70	63	58	46	52	50	46	42	39	35
11	CC	kW	1225	1184	1134	1068	1014	858	1365	1326	1276	1212	1167	1067
	PI	kW	321	350	380	413	431	385	339	369	402	437	459	454
	qw	l/s	58.5	56.6	54.2	51.0	48.5	41.0	65.3	63.4	61.0	58.0	55.8	51.0
	dpw	kPa	88	83	76	69	63	46	58	55	51	46	43	37
13	CC	kW	1285	1243	1189	1122	1019	868	1436	1393	1341	1274	1222	1103
	PI	kW	332	361	393	427	418	373	350	381	414	450	472	455
	qw	l/s	61.5	59.5	56.9	53.7	48.8	41.5	68.7	66.6	64.1	61.0	58.5	52.7
	dpw	kPa	96	90	83	75	63	47	63	60	56	51	47	39
15	CC	kW	1347	1302	1245	1174	1034	862	1507	1462	1406	1336	1259	1114
	PI	kW	344	373	406	441	410	382	361	393	427	464	472	443
	qw	l/s	64.5	62.3	59.6	56.2	49.5	41.2	72.1	70.0	67.3	64.0	60.3	53.3
	dpw	kPa	105	98	91	82	65	47	69	65	61	55	50	40

			C12						C13					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	1246	1209	1161	1099	1054	1001	1304	1260	1206	1137	1087	1030
	PI	kW	342	373	406	442	465	490	351	381	414	449	472	497
	qw	l/s	59.4	57.6	55.3	52.4	50.2	47.7	62.1	60.1	57.5	54.2	51.8	49.1
	dpw	kPa	49	46	43	39	36	33	64	60	56	50	46	42
7	CC	kW	1315	1276	1225	1160	1113	1058	1382	1336	1277	1203	1150	1054
	PI	kW	353	385	419	456	480	506	363	395	428	465	488	494
	qw	l/s	62.8	60.9	58.5	55.3	53.1	50.5	65.9	63.7	60.9	57.4	54.9	50.3
	dpw	kPa	54	51	47	43	40	36	71	67	62	55	51	44
9	CC	kW	1386	1344	1290	1222	1172	1067	1461	1412	1350	1271	1215	1068
	PI	kW	365	397	432	471	495	493	377	409	444	481	505	481
	qw	l/s	66.2	64.2	61.6	58.4	56.0	50.9	69.8	67.4	64.4	60.7	58.0	51.0
	dpw	kPa	59	56	52	47	44	37	79	74	68	61	56	45
11	CC	kW	1457	1412	1357	1284	1233	1078	1543	1489	1423	1340	1272	1086
	PI	kW	377	410	446	485	511	480	390	424	459	498	519	471
	qw	l/s	69.6	67.5	64.8	61.4	58.9	51.5	73.8	71.2	68.0	64.0	60.8	51.9
	dpw	kPa	65	61	57	52	48	38	87	81	75	67	61	46
13	CC	kW	1529	1482	1422	1348	1286	1094	1627	1569	1497	1409	1286	1100
	PI	kW	389	423	460	501	524	468	405	439	476	515	508	458
	qw	l/s	73.2	70.9	68.0	64.5	61.5	52.3	77.8	75.0	71.6	67.4	61.5	52.6
	dpw	kPa	71	67	62	56	52	39	96	90	82	74	63	47
15	CC	kW	1603	1553	1489	1411	1298	1105	1710	1649	1573	1480	1305	1085
	PI	kW	402	437	475	516	512	454	420	455	492	533	498	464
	qw	l/s	76.8	74.3	71.3	67.5	62.2	52.9	81.9	79.0	75.3	70.8	62.5	52.0
	dpw	kPa	77	73	67	61	53	39	105	98	90	81	64	46

EWAD C-XR

			C16						C17					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	1553	1504	1443	1363	1305	1238	1639	1590	1528	1447	1387	1318
	PI	kW	432	471	512	558	588	620	457	498	542	591	624	658
	qw	l/s	74.0	71.7	68.8	65.0	62.2	59.0	78.1	75.8	72.8	69.0	66.1	62.8
	dpw	kPa	59	56	52	47	43	39	65	62	57	52	48	44
7	CC	kW	1637	1587	1522	1437	1376	1259	1728	1676	1610	1524	1462	1359
	PI	kW	446	486	529	576	607	611	472	514	560	610	643	659
	qw	l/s	78.1	75.7	72.6	68.6	65.6	60.1	82.4	80.0	76.8	72.7	69.8	64.8
	dpw	kPa	65	62	57	51	48	41	72	68	63	57	53	47
9	CC	kW	1722	1669	1601	1513	1448	1275	1817	1763	1693	1603	1538	1380
	PI	kW	461	502	546	595	626	595	487	530	577	629	663	646
	qw	l/s	82.3	79.7	76.5	72.2	69.2	60.9	86.8	84.2	80.9	76.6	73.4	65.9
	dpw	kPa	71	67	63	57	52	42	79	74	69	63	58	48
11	CC	kW	1810	1752	1680	1589	1522	1285	1909	1851	1777	1683	1615	1393
	PI	kW	476	518	564	614	646	575	502	547	596	649	683	626
	qw	l/s	86.5	83.8	80.3	75.9	72.7	61.4	91.3	88.5	84.9	80.4	77.2	66.6
	dpw	kPa	78	74	68	62	57	42	86	81	76	69	64	49
13	CC	kW	1898	1837	1760	1664	1530	1311	2003	1940	1862	1763	1648	1418
	PI	kW	492	535	582	633	628	565	519	565	614	669	679	614
	qw	l/s	90.8	87.9	84.2	79.6	73.2	62.7	95.8	92.8	89.1	84.3	78.9	67.8
	dpw	kPa	85	80	74	67	58	44	94	89	82	75	66	50
15	CC	kW	1989	1924	1842	1740	1552	1291	2098	2031	1948	1844	1677	1411
	PI	kW	508	553	601	653	617	571	535	583	634	690	670	612
	qw	l/s	95.2	92.1	88.2	83.3	74.3	61.8	100.4	97.2	93.3	88.3	80.3	67.5
	dpw	kPa	93	87	81	73	59	43	102	96	89	81	68	50

			C18						C19					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	1720	1670	1606	1522	1460	1389	1809	1757	1692	1607	1544	1470
	PI	kW	479	522	568	620	654	689	504	549	599	653	689	728
	qw	l/s	82.0	79.6	76.5	72.5	69.6	66.2	86.2	83.8	80.6	76.6	73.6	70.1
	dpw	kPa	65	61	57	52	48	44	71	67	63	57	53	49
7	CC	kW	1814	1761	1693	1604	1540	1452	1907	1853	1783	1693	1627	1551
	PI	kW	494	538	586	639	674	703	520	567	617	673	710	749
	qw	l/s	86.5	84.0	80.8	76.5	73.5	69.3	91.0	88.4	85.1	80.8	77.6	74.0
	dpw	kPa	71	68	63	57	53	48	78	74	69	63	59	54
9	CC	kW	1910	1853	1781	1688	1620	1486	2008	1950	1876	1780	1711	1593
	PI	kW	510	555	605	659	694	698	536	584	636	694	731	750
	qw	l/s	91.2	88.5	85.1	80.6	77.4	71.0	95.9	93.1	89.6	85.0	81.7	76.1
	dpw	kPa	78	74	69	63	58	50	86	81	76	69	64	56
11	CC	kW	2009	1948	1871	1773	1702	1503	2112	2049	1970	1869	1797	1613
	PI	kW	526	573	624	679	716	679	553	603	656	715	753	731
	qw	l/s	96.0	93.1	89.4	84.7	81.4	71.8	100.9	97.9	94.2	89.4	85.9	77.1
	dpw	kPa	86	81	76	69	64	51	94	89	83	75	70	58
13	CC	kW	2109	2044	1962	1859	1766	1517	2217	2150	2066	1960	1884	1626
	PI	kW	543	591	643	700	727	658	571	622	676	737	776	708
	qw	l/s	100.9	97.8	93.9	88.9	84.5	72.6	106.1	102.9	98.9	93.8	90.1	77.8
	dpw	kPa	94	89	82	75	68	52	103	97	90	82	77	59
15	CC	kW	2212	2142	2055	1946	1799	1525	2325	2254	2164	2052	1927	1644
	PI	kW	561	610	664	722	720	649	589	641	697	759	775	688
	qw	l/s	105.9	102.6	98.4	93.2	86.1	73.0	111.3	107.9	103.6	98.2	92.2	78.7
	dpw	kPa	102	97	90	81	71	52	112	106	98	89	80	60

Fluid: Water
Heat Recovery OFF
Ta: Condenser inlet air temperature; Twout: Evaporator leaving water temperature (Δt 5.0°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 contac factory*

EWAD C-PS

			820						890					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	807	785	763	737	717	695	876	852	827	798	776	750
	PI	kW	193	210	227	245	256	269	212	231	250	270	283	297
	qw	l/s	38.5	37.4	36.4	35.1	34.2	33.1	41.7	40.6	39.4	38.0	37.0	35.7
	dpw	kPa	56	53	50	47	45	43	65	61	58	55	52	49
7	CC	kW	858	835	811	784	764	740	930	905	879	847	824	797
	PI	kW	197	215	233	251	263	275	218	237	256	277	290	304
	qw	l/s	40.9	39.8	38.7	37.4	36.4	35.3	44.4	43.2	41.9	40.4	39.3	38.0
	dpw	kPa	62	59	56	53	50	48	72	69	65	61	58	55
9	CC	kW	910	886	861	832	811	786	985	960	932	899	875	846
	PI	kW	202	220	238	257	269	282	223	243	263	284	298	312
	qw	l/s	43.5	42.3	41.1	39.7	38.7	37.5	47.0	45.8	44.5	42.9	41.8	40.4
	dpw	kPa	69	66	63	59	56	53	80	76	72	68	65	61
11	CC	kW	965	939	913	882	859	834	1042	1015	986	951	926	897
	PI	kW	207	226	244	264	276	289	229	249	270	291	305	320
	qw	l/s	46.1	44.9	43.6	42.1	41.1	39.8	49.8	48.5	47.1	45.5	44.3	42.9
	dpw	kPa	77	73	70	66	63	59	89	85	80	75	72	68
13	CC	kW	1020	994	966	933	910	883	1100	1072	1042	1005	979	948
	PI	kW	212	231	251	270	283	296	235	256	277	299	313	328
	qw	l/s	48.8	47.5	46.2	44.6	43.5	42.2	52.6	51.3	49.9	48.1	46.8	45.4
	dpw	kPa	85	81	77	73	69	66	98	93	89	83	79	75
15	CC	kW	1076	1049	1020	986	962	933	1159	1131	1099	1060	1033	1001
	PI	kW	218	237	257	277	290	303	241	262	284	307	321	336
	qw	l/s	51.5	50.2	48.9	47.2	46.0	44.7	55.5	54.1	52.6	50.8	49.4	47.9
	dpw	kPa	94	90	85	80	77	73	108	103	98	92	87	83

			980						C11					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	960	934	905	870	845	815	1058	1029	997	958	930	897
	PI	kW	234	254	275	297	311	326	257	280	303	327	343	360
	qw	l/s	45.8	44.5	43.1	41.5	40.3	38.8	50.4	49.0	47.5	45.7	44.3	42.8
	dpw	kPa	30	28	27	25	24	22	59	56	53	49	47	44
7	CC	kW	1021	993	962	925	898	866	1124	1093	1060	1019	989	954
	PI	kW	240	261	283	305	320	335	264	288	311	336	352	369
	qw	l/s	48.7	47.4	45.9	44.1	42.8	41.3	53.6	52.2	50.6	48.6	47.2	45.5
	dpw	kPa	33	32	30	28	27	25	66	63	59	55	52	49
9	CC	kW	1083	1054	1021	982	953	920	1192	1160	1125	1081	1050	1013
	PI	kW	247	268	290	313	328	344	272	295	320	345	362	379
	qw	l/s	51.7	50.3	48.8	46.9	45.5	43.9	56.9	55.4	53.7	51.6	50.2	48.4
	dpw	kPa	37	36	34	31	30	28	73	70	66	62	58	55
11	CC	kW	1148	1117	1083	1040	1010	975	1263	1229	1191	1145	1112	1074
	PI	kW	254	276	299	322	337	353	279	304	329	355	372	389
	qw	l/s	54.9	53.4	51.7	49.7	48.3	46.6	60.4	58.8	56.9	54.7	53.2	51.3
	dpw	kPa	42	40	37	35	33	31	82	78	73	68	65	61
13	CC	kW	1216	1183	1146	1101	1069	1032	1335	1300	1260	1211	1176	1136
	PI	kW	261	284	307	331	347	363	287	312	338	365	382	400
	qw	l/s	58.2	56.6	54.8	52.7	51.1	49.4	63.8	62.2	60.3	58.0	56.3	54.4
	dpw	kPa	46	44	41	39	37	34	90	86	81	76	72	68
15	CC	kW	1286	1251	1211	1164	1130	1091	1409	1372	1330	1279	1242	1200
	PI	kW	269	292	316	341	356	373	295	321	347	375	392	411
	qw	l/s	61.6	59.9	58.0	55.7	54.1	52.2	67.4	65.7	63.7	61.2	59.5	57.5
	dpw	kPa	51	49	46	43	40	38	100	95	90	84	79	75

EWAD C-PS

			C12						C13					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	1142	1111	1075	1032	1000	963	1261	1226	1187	1139	1103	1061
	PI	kW	281	306	331	358	375	394	310	337	365	394	413	434
	qw	l/s	54.4	52.9	51.3	49.2	47.7	45.9	60.1	58.4	56.6	54.3	52.6	50.6
	dpw	kPa	68	65	61	57	53	50	59	56	53	49	46	43
7	CC	kW	1212	1179	1142	1096	1062	1023	1340	1303	1262	1210	1172	1128
	PI	kW	289	314	340	368	386	405	319	346	375	405	425	445
	qw	l/s	57.8	56.3	54.5	52.3	50.7	48.8	63.9	62.2	60.2	57.7	55.9	53.8
	dpw	kPa	76	72	68	63	60	56	66	62	59	55	52	48
9	CC	kW	1285	1250	1211	1162	1127	1085	1421	1382	1338	1283	1244	1198
	PI	kW	297	323	350	378	397	416	328	356	386	417	437	458
	qw	l/s	61.4	59.7	57.8	55.5	53.8	51.8	67.9	66.0	63.9	61.3	59.4	57.2
	dpw	kPa	84	80	76	70	66	62	73	69	65	61	57	54
11	CC	kW	1360	1323	1281	1230	1192	1149	1505	1464	1417	1359	1317	1269
	PI	kW	306	332	360	389	408	427	337	367	397	429	449	471
	qw	l/s	65.0	63.3	61.2	58.8	57.0	54.9	71.9	70.0	67.7	65.0	62.9	60.6
	dpw	kPa	93	89	84	78	74	69	81	77	73	67	64	60
13	CC	kW	1435	1398	1354	1299	1259	1214	1590	1548	1498	1436	1392	1342
	PI	kW	314	342	370	400	419	439	347	377	408	441	462	484
	qw	l/s	68.7	66.9	64.8	62.1	60.2	58.1	76.1	74.0	71.7	68.7	66.6	64.2
	dpw	kPa	103	98	93	86	81	76	90	85	80	75	71	66
15	CC	kW	1513	1473	1427	1370	1328	1281	1678	1633	1580	1516	1469	1416
	PI	kW	323	352	380	411	431	451	357	388	420	453	475	497
	qw	l/s	72.4	70.5	68.3	65.6	63.6	61.3	80.3	78.2	75.7	72.6	70.3	67.8
	dpw	kPa	113	108	102	95	90	84	99	94	89	82	78	73

			C14					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	1371	1333	1290	1238	1200	1155
	PI	kW	338	367	397	430	451	473
	qw	l/s	65.3	63.5	61.5	59.0	57.2	55.0
	dpw	kPa	68	65	61	57	54	50
7	CC	kW	1455	1416	1371	1315	1275	1227
	PI	kW	347	377	409	442	463	486
	qw	l/s	69.4	67.5	65.4	62.8	60.8	58.6
	dpw	kPa	76	72	68	63	60	56
9	CC	kW	1542	1501	1453	1395	1352	1302
	PI	kW	357	388	420	454	476	499
	qw	l/s	73.6	71.7	69.4	66.6	64.6	62.2
	dpw	kPa	85	80	76	71	67	62
11	CC	kW	1632	1588	1538	1476	1431	1379
	PI	kW	367	399	432	467	489	513
	qw	l/s	78.0	75.9	73.5	70.5	68.4	65.9
	dpw	kPa	94	89	84	78	74	69
13	CC	kW	1723	1678	1625	1559	1512	1457
	PI	kW	377	410	444	480	503	527
	qw	l/s	82.4	80.3	77.7	74.6	72.3	69.7
	dpw	kPa	103	99	93	86	82	77
15	CC	kW	1816	1769	1713	1645	1595	1538
	PI	kW	388	422	457	494	517	541
	qw	l/s	87.0	84.7	82.0	78.7	76.3	73.6
	dpw	kPa	114	109	102	95	90	84

Fluid: Water
Heat Recovery OFF
Ta: Condenser inlet air temperature; Twout: Evaporator leaving water temperature (Δt 5.0°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 contac factory*

EWAD C-PL

			820						890					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	807	785	763	737	717	695	876	852	827	798	776	750
	PI	kW	193	210	227	245	256	269	212	231	250	270	283	297
	qw	l/s	38.5	37.4	36.4	35.1	34.2	33.1	41.7	40.6	39.4	38.0	37.0	35.7
	dpw	kPa	56	53	50	47	45	43	65	61	58	55	52	49
7	CC	kW	858	835	811	784	764	740	930	905	879	847	824	797
	PI	kW	197	215	233	251	263	275	218	237	256	277	290	304
	qw	l/s	40.9	39.8	38.7	37.4	36.4	35.3	44.4	43.2	41.9	40.4	39.3	38.0
	dpw	kPa	62	59	56	53	50	48	72	69	65	61	58	55
9	CC	kW	910	886	861	832	811	786	985	960	932	899	875	846
	PI	kW	202	220	238	257	269	282	223	243	263	284	298	312
	qw	l/s	43.5	42.3	41.1	39.7	38.7	37.5	47.0	45.8	44.5	42.9	41.8	40.4
	dpw	kPa	69	66	63	59	56	53	80	76	72	68	65	61
11	CC	kW	965	939	913	882	859	834	1042	1015	986	951	926	897
	PI	kW	207	226	244	264	276	289	229	249	270	291	305	320
	qw	l/s	46.1	44.9	43.6	42.1	41.1	39.8	49.8	48.5	47.1	45.5	44.3	42.9
	dpw	kPa	77	73	70	66	63	59	89	85	80	75	72	68
13	CC	kW	1020	994	966	933	910	883	1100	1072	1042	1005	979	948
	PI	kW	212	231	251	270	283	296	235	256	277	299	313	328
	qw	l/s	48.8	47.5	46.2	44.6	43.5	42.2	52.6	51.3	49.9	48.1	46.8	45.4
	dpw	kPa	85	81	77	73	69	66	98	93	89	83	79	75
15	CC	kW	1076	1049	1020	986	962	933	1159	1131	1099	1060	1033	1001
	PI	kW	218	237	257	277	290	303	241	262	284	307	321	336
	qw	l/s	51.5	50.2	48.9	47.2	46.0	44.7	55.5	54.1	52.6	50.8	49.4	47.9
	dpw	kPa	94	90	85	80	77	73	108	103	98	92	87	83

			980						C11					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	960	934	905	870	845	815	1058	1029	997	958	930	897
	PI	kW	234	254	275	297	311	326	257	280	303	327	343	360
	qw	l/s	45.8	44.5	43.1	41.5	40.3	38.8	50.4	49.0	47.5	45.7	44.3	42.8
	dpw	kPa	30	28	27	25	24	22	59	56	53	49	47	44
7	CC	kW	1021	993	962	925	898	866	1124	1093	1060	1019	989	954
	PI	kW	240	261	283	305	320	335	264	288	311	336	352	369
	qw	l/s	48.7	47.4	45.9	44.1	42.8	41.3	53.6	52.2	50.6	48.6	47.2	45.5
	dpw	kPa	33	32	30	28	27	25	66	63	59	55	52	49
9	CC	kW	1083	1054	1021	982	953	920	1192	1160	1125	1081	1050	1013
	PI	kW	247	268	290	313	328	344	272	295	320	345	362	379
	qw	l/s	51.7	50.3	48.8	46.9	45.5	43.9	56.9	55.4	53.7	51.6	50.2	48.4
	dpw	kPa	37	36	34	31	30	28	73	70	66	62	58	55
11	CC	kW	1148	1117	1083	1040	1010	975	1263	1229	1191	1145	1112	1074
	PI	kW	254	276	299	322	337	353	279	304	329	355	372	389
	qw	l/s	54.9	53.4	51.7	49.7	48.3	46.6	60.4	58.8	56.9	54.7	53.2	51.3
	dpw	kPa	42	40	37	35	33	31	82	78	73	68	65	61
13	CC	kW	1216	1183	1146	1101	1069	1032	1335	1300	1260	1211	1176	1136
	PI	kW	261	284	307	331	347	363	287	312	338	365	382	400
	qw	l/s	58.2	56.6	54.8	52.7	51.1	49.4	63.8	62.2	60.3	58.0	56.3	54.4
	dpw	kPa	46	44	41	39	37	34	90	86	81	76	72	68
15	CC	kW	1286	1251	1211	1164	1130	1091	1409	1372	1330	1279	1242	1200
	PI	kW	269	292	316	341	356	373	295	321	347	375	392	411
	qw	l/s	61.6	59.9	58.0	55.7	54.1	52.2	67.4	65.7	63.7	61.2	59.5	57.5
	dpw	kPa	51	49	46	43	40	38	100	95	90	84	79	75

EWAD C-PL

			C12						C13					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	1142	1111	1075	1032	1000	963	1261	1226	1187	1139	1103	1061
	PI	kW	281	306	331	358	375	394	310	337	365	394	413	434
	qw	l/s	54.4	52.9	51.3	49.2	47.7	45.9	60.1	58.4	56.6	54.3	52.6	50.6
	dpw	kPa	68	65	61	57	53	50	59	56	53	49	46	43
7	CC	kW	1212	1179	1142	1096	1062	1023	1340	1303	1262	1210	1172	1128
	PI	kW	289	314	340	368	386	405	319	346	375	405	425	445
	qw	l/s	57.8	56.3	54.5	52.3	50.7	48.8	63.9	62.2	60.2	57.7	55.9	53.8
	dpw	kPa	76	72	68	63	60	56	66	62	59	55	52	48
9	CC	kW	1285	1250	1211	1162	1127	1085	1421	1382	1338	1283	1244	1198
	PI	kW	297	323	350	378	397	416	328	356	386	417	437	458
	qw	l/s	61.4	59.7	57.8	55.5	53.8	51.8	67.9	66.0	63.9	61.3	59.4	57.2
	dpw	kPa	84	80	76	70	66	62	73	69	65	61	57	54
11	CC	kW	1360	1323	1281	1230	1192	1149	1505	1464	1417	1359	1317	1269
	PI	kW	306	332	360	389	408	427	337	367	397	429	449	471
	qw	l/s	65.0	63.3	61.2	58.8	57.0	54.9	71.9	70.0	67.7	65.0	62.9	60.6
	dpw	kPa	93	89	84	78	74	69	81	77	73	67	64	60
13	CC	kW	1435	1398	1354	1299	1259	1214	1590	1548	1498	1436	1392	1342
	PI	kW	314	342	370	400	419	439	347	377	408	441	462	484
	qw	l/s	68.7	66.9	64.8	62.1	60.2	58.1	76.1	74.0	71.7	68.7	66.6	64.2
	dpw	kPa	103	98	93	86	81	76	90	85	80	75	71	66
15	CC	kW	1513	1473	1427	1370	1328	1281	1678	1633	1580	1516	1469	1416
	PI	kW	323	352	380	411	431	451	357	388	420	453	475	497
	qw	l/s	72.4	70.5	68.3	65.6	63.6	61.3	80.3	78.2	75.7	72.6	70.3	67.8
	dpw	kPa	113	108	102	95	90	84	99	94	89	82	78	73

			C14					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	1371	1333	1290	1238	1200	1155
	PI	kW	338	367	397	430	451	473
	qw	l/s	65.3	63.5	61.5	59.0	57.2	55.0
	dpw	kPa	68	65	61	57	54	50
7	CC	kW	1455	1416	1371	1315	1275	1227
	PI	kW	347	377	409	442	463	486
	qw	l/s	69.4	67.5	65.4	62.8	60.8	58.6
	dpw	kPa	76	72	68	63	60	56
9	CC	kW	1542	1501	1453	1395	1352	1302
	PI	kW	357	388	420	454	476	499
	qw	l/s	73.6	71.7	69.4	66.6	64.6	62.2
	dpw	kPa	85	80	76	71	67	62
11	CC	kW	1632	1588	1538	1476	1431	1379
	PI	kW	367	399	432	467	489	513
	qw	l/s	78.0	75.9	73.5	70.5	68.4	65.9
	dpw	kPa	94	89	84	78	74	69
13	CC	kW	1723	1678	1625	1559	1512	1457
	PI	kW	377	410	444	480	503	527
	qw	l/s	82.4	80.3	77.7	74.6	72.3	69.7
	dpw	kPa	103	99	93	86	82	77
15	CC	kW	1816	1769	1713	1645	1595	1538
	PI	kW	388	422	457	494	517	541
	qw	l/s	87.0	84.7	82.0	78.7	76.3	73.6
	dpw	kPa	114	109	102	95	90	84

Fluid: Water
Heat Recovery OFF
Ta: Condenser inlet air temperature; Twout: Evaporator leaving water temperature (Δt 5.0°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 contac factory*

EWAD C-PR

			810						880					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	797	775	752	722	701	675	864	840	813	779	754	725
	PI	kW	185	202	220	238	250	263	207	226	245	266	280	294
	qw	l/s	38.0	37.0	35.8	34.4	33.4	32.2	41.2	40.0	38.8	37.1	36.0	34.6
	dpw	kPa	54	52	49	46	43	40	63	60	56	52	49	46
7	CC	kW	846	824	798	768	745	719	916	892	863	827	801	771
	PI	kW	190	208	226	245	257	270	213	233	253	274	288	303
	qw	l/s	40.4	39.3	38.1	36.6	35.6	34.3	43.7	42.5	41.2	39.5	38.2	36.8
	dpw	kPa	61	58	55	51	48	45	70	67	63	58	55	51
9	CC	kW	898	874	847	814	790	763	970	944	914	876	849	817
	PI	kW	196	214	233	252	265	278	220	240	260	282	296	311
	qw	l/s	42.9	41.7	40.4	38.9	37.7	36.4	46.3	45.1	43.7	41.8	40.5	39.0
	dpw	kPa	68	64	61	57	54	50	78	74	70	65	61	57
11	CC	kW	951	925	897	862	837	808	1026	999	966	926	898	864
	PI	kW	202	220	239	259	272	286	226	247	268	291	305	320
	qw	l/s	45.4	44.2	42.9	41.2	40.0	38.6	49.0	47.7	46.2	44.3	42.9	41.3
	dpw	kPa	75	72	68	63	60	56	86	82	77	72	68	63
13	CC	kW	1005	979	948	911	885	854	1083	1054	1020	978	947	913
	PI	kW	208	227	246	267	280	294	233	254	276	299	314	330
	qw	l/s	48.1	46.8	45.4	43.6	42.3	40.9	51.8	50.4	48.8	46.8	45.3	43.7
	dpw	kPa	83	79	75	70	66	62	95	91	85	79	75	70
15	CC	kW	1060	1032	1001	962	934	902	1141	1110	1074	1030	999	962
	PI	kW	214	234	254	275	288	302	240	262	284	308	323	339
	qw	l/s	50.7	49.4	47.9	46.1	44.7	43.2	54.6	53.1	51.4	49.3	47.8	46.1
	dpw	kPa	92	87	83	77	73	68	104	100	94	87	82	77

			960						C10					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	945	918	887	847	818	784	1042	1012	977	933	901	863
	PI	kW	231	251	273	296	311	327	253	276	300	325	342	359
	qw	l/s	45.1	43.8	42.3	40.4	39.0	37.4	49.6	48.2	46.6	44.5	42.9	41.1
	dpw	kPa	29	28	26	24	22	21	57	55	51	47	44	41
7	CC	kW	1004	975	942	899	868	832	1106	1074	1037	990	956	917
	PI	kW	238	259	281	305	321	337	261	285	309	335	352	370
	qw	l/s	47.9	46.5	44.9	42.9	41.4	39.7	52.8	51.3	49.5	47.2	45.6	43.7
	dpw	kPa	33	31	29	27	25	23	64	61	57	53	49	46
9	CC	kW	1065	1034	998	953	920	882	1172	1139	1099	1049	1013	972
	PI	kW	246	268	290	315	331	347	270	294	319	346	363	381
	qw	l/s	50.9	49.4	47.7	45.5	43.9	42.1	56.0	54.4	52.5	50.1	48.4	46.4
	dpw	kPa	36	34	32	30	28	26	71	68	63	58	55	51
11	CC	kW	1128	1095	1056	1008	973	933	1241	1205	1163	1110	1072	1029
	PI	kW	254	276	300	325	341	358	278	303	329	357	374	393
	qw	l/s	53.9	52.3	50.5	48.2	46.5	44.6	59.3	57.6	55.6	53.1	51.2	49.2
	dpw	kPa	40	38	36	33	31	29	79	75	70	65	61	56
13	CC	kW	1193	1158	1116	1064	1028	986	1311	1273	1228	1172	1132	1075
	PI	kW	263	286	309	335	351	369	288	313	340	368	386	400
	qw	l/s	57.1	55.4	53.4	50.9	49.2	47.2	62.7	60.9	58.7	56.1	54.1	51.4
	dpw	kPa	45	42	39	36	34	32	87	83	78	71	67	61
15	CC	kW	1260	1223	1178	1123	1084	1033	1382	1342	1294	1235	1193	1108
	PI	kW	272	295	320	346	362	378	297	323	350	379	398	400
	qw	l/s	60.3	58.5	56.4	53.8	51.9	49.4	66.2	64.2	62.0	59.1	57.1	53.0
	dpw	kPa	49	47	44	40	37	34	96	91	86	79	74	65

EWAD C-PR

			C11						C13					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	1123	1090	1050	1000	964	921	1241	1204	1160	1104	1064	1016
	PI	kW	279	304	330	359	377	397	308	335	364	395	415	437
	qw	l/s	53.5	51.9	50.1	47.7	45.9	43.9	59.1	57.4	55.3	52.6	50.7	48.4
	dpw	kPa	66	62	58	54	50	46	57	54	50	46	43	40
7	CC	kW	1191	1156	1114	1060	1022	977	1317	1278	1231	1171	1128	1078
	PI	kW	288	314	341	370	389	409	318	346	376	408	428	450
	qw	l/s	56.8	55.1	53.1	50.6	48.7	46.6	62.8	61.0	58.7	55.9	53.8	51.4
	dpw	kPa	73	70	65	60	56	51	64	60	56	51	48	44
9	CC	kW	1261	1224	1179	1123	1081	1034	1395	1354	1303	1240	1194	1142
	PI	kW	298	324	352	382	401	422	328	358	388	421	442	464
	qw	l/s	60.2	58.4	56.3	53.6	51.6	49.4	66.6	64.6	62.2	59.2	57.0	54.5
	dpw	kPa	81	77	72	66	62	57	71	67	62	57	53	49
11	CC	kW	1333	1293	1245	1185	1143	1093	1477	1432	1378	1311	1262	1207
	PI	kW	308	335	363	394	414	435	340	370	401	434	456	479
	qw	l/s	63.7	61.8	59.5	56.7	54.6	52.3	70.6	68.4	65.9	62.6	60.3	57.7
	dpw	kPa	90	85	80	73	68	63	78	74	69	63	59	54
13	CC	kW	1407	1365	1314	1250	1205	1130	1559	1512	1454	1383	1332	1244
	PI	kW	318	346	375	407	427	438	351	382	414	448	471	481
	qw	l/s	67.3	65.3	62.9	59.8	57.6	54.0	74.6	72.3	69.6	66.1	63.7	59.5
	dpw	kPa	99	94	88	80	75	67	86	82	76	70	65	58
15	CC	kW	1481	1437	1384	1316	1268	1139	1643	1593	1532	1456	1403	1254
	PI	kW	329	357	388	420	440	427	363	395	428	463	486	468
	qw	l/s	70.9	68.8	66.2	63.0	60.7	54.5	78.7	76.3	73.4	69.7	67.2	60.1
	dpw	kPa	109	103	97	88	83	68	95	90	84	77	72	58

			C14					
Twout		**Ta**	**25**	**30**	**35**	**40**	**43**	**46**
5	CC	kW	1348	1308	1260	1200	1156	1105
	PI	kW	335	365	396	431	453	476
	qw	l/s	64.2	62.3	60.1	57.2	55.1	52.7
	dpw	kPa	66	63	59	54	50	46
7	CC	kW	1429	1388	1337	1273	1226	1172
	PI	kW	346	377	409	444	467	491
	qw	l/s	68.2	66.2	63.8	60.7	58.5	55.9
	dpw	kPa	74	70	65	60	56	52
9	CC	kW	1514	1469	1415	1347	1298	1241
	PI	kW	358	389	423	459	482	506
	qw	l/s	72.3	70.2	67.6	64.4	62.0	59.3
	dpw	kPa	82	78	73	66	62	57
11	CC	kW	1601	1553	1495	1423	1372	1312
	PI	kW	370	402	436	473	497	522
	qw	l/s	76.5	74.2	71.5	68.0	65.6	62.7
	dpw	kPa	91	86	80	73	69	63
13	CC	kW	1689	1639	1577	1501	1446	1356
	PI	kW	382	416	451	488	512	526
	qw	l/s	80.8	78.4	75.5	71.8	69.2	64.9
	dpw	kPa	100	95	88	81	76	67
15	CC	kW	1779	1726	1661	1580	1522	1368
	PI	kW	395	429	465	504	529	513
	qw	l/s	85.1	82.6	79.5	75.6	72.9	65.5
	dpw	kPa	110	104	97	89	83	68

Fluid: Water
Heat Recovery OFF
Ta: Condenser inlet air temperature; Twout: Evaporator leaving water temperature (Δt 5.0°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 contac factory*

EWAD C-SS

			650				740				830			
Twout		**Twr**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**
5	CC	kW	603	603	603	603	701	701	701	701	783	783	783	783
	PI	kW	217	217	217	217	259	259	259	259	295	295	295	295
	qw	l/s	28.7	28.7	28.7	28.7	33.4	33.4	33.4	33.4	37.3	37.3	37.3	37.3
	dpw	kPa	41	41	41	41	49	49	49	49	47	47	47	47
	HRC	**kW**	**125**	**88.9**	**43.9**	**19.6**	**132**	**100**	**65.1**	**24.3**	**153**	**120**	**85.6**	**43.8**
	qwr	l/s	6.0	4.4	2.2	1.0	6.3	4.8	3.2	1.1	7.4	5.8	4.2	2.2
	dpwr	kPa	40	20	10	10	58	35	17	10	60	37	19	10
7	CC	kW	640	640	640	640	738	738	738	738	824	824	824	824
	PI	kW	224	224	224	224	266	266	266	266	304	304	304	304
	qw	l/s	30.5	30.5	30.5	30.5	35.2	35.2	35.2	35.2	39.3	39.3	39.3	39.3
	dpw	kPa	46	46	46	46	53	53	53	53	52	52	52	52
	HRC	**kW**	**132**	**95.5**	**53.7**	**20.7**	**138**	**106**	**71.9**	**31.7**	**159**	**127**	**92.9**	**54**
	qwr	l/s	6.4	4.6	2.6	1.0	6.7	5.2	3.5	1.6	7.6	6.2	4.6	2.6
	dpwr	kPa	44	23	10	10	63	39	20	10	65	41	22	10
9	CC	kW	677	677	677	677	775	775	775	775	865	865	865	865
	PI	kW	231	231	231	231	274	274	274	274	314	314	314	314
	qw	l/s	32.3	32.3	32.3	32.3	37.0	37.0	37.0	37.0	41.3	41.3	41.3	41.3
	dpw	kPa	51	51	51	51	58	58	58	58	57	57	57	57
	HRC	**kW**	**138**	**102**	**62.4**	**21.8**	**143**	**112**	**78.5**	**37.2**	**166**	**134**	**100**	**62.9**
	qwr	l/s	6.6	5.0	3.0	1.0	6.9	5.4	3.8	1.8	8.0	6.4	4.8	3.0
	dpwr	kPa	48	27	10	10	68	43	23	10	70	46	26	10
11	CC	kW	716	716	716	716	813	813	813	813	907	907	907	907
	PI	kW	238	238	238	238	283	283	283	283	324	324	324	324
	qw	l/s	34.2	34.2	34.2	34.2	38.9	38.9	38.9	38.9	43.3	43.3	43.3	43.3
	dpw	kPa	56	56	56	56	64	64	64	64	62	62	62	62
	HRC	**kW**	**144**	**109**	**70.4**	**22.9**	**149**	**118**	**85.1**	**42.5**	**173**	**140**	**107**	**71.2**
	qwr	l/s	7.0	5.2	3.4	1.2	7.2	5.7	4.2	2.0	8.4	6.8	5.2	3.4
	dpwr	kPa	53	30	13	10	73	47	27	10	76	50	29	13
13	CC	kW	754	754	754	754	852	852	852	852	948	948	948	948
	PI	kW	246	246	246	246	291	291	291	291	335	335	335	335
	qw	l/s	36.1	36.1	36.1	36.1	40.8	40.8	40.8	40.8	45.4	45.4	45.4	45.4
	dpw	kPa	62	62	62	62	69	69	69	69	67	67	67	67
	HRC	**kW**	**150**	**115**	**77.9**	**24**	**155**	**124**	**91.5**	**53.9**	**179**	**147**	**114**	**79.2**
	qwr	l/s	7.2	5.6	3.8	1.2	7.4	6.0	4.4	2.6	8.6	7.2	5.6	3.8
	dpwr	kPa	58	34	16	10	79	52	30	13	82	55	33	16
15	CC	kW	793	793	793	793	892	892	892	892	991	991	991	991
	PI	kW	253	253	253	253	300	300	300	300	346	346	346	346
	qw	l/s	38.0	38.0	38.0	38.0	42.7	42.7	42.7	42.7	47.4	47.4	47.4	47.4
	dpw	kPa	67	67	67	67	75	75	75	75	72	72	72	72
	HRC	**kW**	**157**	**122**	**85.3**	**37.3**	**161**	**130**	**98**	**62.3**	**186**	**154**	**121**	**87**
	qwr	l/s	7.6	6.0	4.2	1.8	7.8	6.3	4.7	3.0	9.0	7.4	5.8	4.2
	dpwr	kPa	63	38	19	10	85	57	34	16	88	61	38	19

EWAD C-SS

			910				970				C11			
Twout		**Twr**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**
5	CC	kW	860	860	860	860	912	912	912	912	1003	1003	1003	1003
	PI	kW	314	314	314	314	346	346	346	346	373	373	373	373
	qw	l/s	41.0	41.0	41.0	41.0	43.5	43.5	43.5	43.5	47.8	47.8	47.8	47.8
	dpw	kPa	56	56	56	56	62	62	62	62	58	58	58	58
	HRC	**kW**	**159**	**122**	**80.8**	**33.2**	**187**	**146**	**102**	**45.7**	**201**	**154**	**103**	**43.1**
	qwr	l/s	7.7	5.9	3.9	1.6	9.0	7.0	5.0	2.2	9.7	7.5	4.9	2.1
	dpwr	kPa	62	38	19	10	62	38	19	10	66	40	20	10
7	CC	kW	904	904	904	904	958	958	958	958	1055	1055	1055	1055
	PI	kW	323	323	323	323	356	356	356	356	384	384	384	384
	qw	l/s	43.2	43.2	43.2	43.2	45.7	45.7	45.7	45.7	50.3	50.3	50.3	50.3
	dpw	kPa	61	61	61	61	68	68	68	68	63	63	63	63
	HRC	**kW**	**166**	**129**	**88.7**	**40.8**	**195**	**154**	**111**	**59.9**	**210**	**163**	**113**	**52.3**
	qwr	l/s	8.0	6.2	4.3	2.0	9.4	7.4	5.4	3.0	10.1	7.9	5.5	2.6
	dpwr	kPa	67	42	22	10	67	42	22	10	71	45	23	10
9	CC	kW	950	950	950	950	1005	1005	1005	1005	1108	1108	1108	1108
	PI	kW	333	333	333	333	367	367	367	367	395	395	395	395
	qw	l/s	45.4	45.4	45.4	45.4	48.0	48.0	48.0	48.0	52.9	52.9	52.9	52.9
	dpw	kPa	67	67	67	67	74	74	74	74	69	69	69	69
	HRC	**kW**	**173**	**136**	**96.5**	**47.1**	**202**	**162**	**119**	**71.4**	**218**	**172**	**123**	**60.1**
	qwr	l/s	8.4	6.5	4.7	2.3	9.8	7.8	5.8	3.4	10.6	8.3	6.0	2.9
	dpwr	kPa	73	47	25	10	73	47	25	10	77	49	27	10
11	CC	kW	996	996	996	996	1053	1053	1053	1053	1161	1161	1161	1161
	PI	kW	343	343	343	343	379	379	379	379	407	407	407	407
	qw	l/s	47.6	47.6	47.6	47.6	50.3	50.3	50.3	50.3	55.5	55.5	55.5	55.5
	dpw	kPa	73	73	73	73	81	81	81	81	75	75	75	75
	HRC	**kW**	**180**	**143**	**104**	**57.5**	**210**	**170**	**128**	**81.8**	**227**	**181**	**132**	**74.2**
	qwr	l/s	8.7	6.9	5.0	2.8	10.2	8.2	6.2	4.0	11.0	8.8	6.4	3.6
	dpwr	kPa	79	51	29	12	79	51	29	12	83	54	31	13
13	CC	kW	1043	1043	1043	1043	1101	1101	1101	1101	1215	1215	1215	1215
	PI	kW	353	353	353	353	390	390	390	390	419	419	419	419
	qw	l/s	49.9	49.9	49.9	49.9	52.7	52.7	52.7	52.7	58.1	58.1	58.1	58.1
	dpw	kPa	79	79	79	79	88	88	88	88	82	82	82	82
	HRC	**kW**	**187**	**150**	**112**	**68.5**	**218**	**178**	**136**	**91.7**	**236**	**190**	**142**	**87.6**
	qwr	l/s	9.0	7.2	5.4	3.3	10.6	8.6	6.6	4.4	11.3	9.1	6.9	4.2
	dpwr	kPa	85	56	33	15	85	56	33	15	90	60	35	16
15	CC	kW	1090	1090	1090	1090	1149	1149	1149	1149	1270	1270	1270	1270
	PI	kW	364	364	364	364	402	402	402	402	432	432	432	432
	qw	l/s	52.2	52.2	52.2	52.2	55.0	55.0	55.0	55.0	60.8	60.8	60.8	60.8
	dpw	kPa	86	86	86	86	95	95	95	95	89	89	89	89
	HRC	**kW**	**194**	**157**	**119**	**78**	**226**	**186**	**145**	**101**	**245**	**199**	**151**	**99.3**
	qwr	l/s	9.4	7.6	5.8	3.8	11.0	9.0	7.0	5.0	11.8	9.6	7.3	4.8
	dpwr	kPa	91	62	38	18	91	62	38	18	96	65	40	20

EWAD C-SS

			C12				C15				C16			
Twout		**Twr**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**
5	CC	kW	1087	1087	1087	1087	1448	1448	1448	1448	1528	1528	1528	1528
	PI	kW	398	398	398	398	544	544	544	544	572	572	572	572
	qw	l/s	51.8	51.8	51.8	51.8	69.0	69.0	69.0	69.0	72.8	72.8	72.8	72.8
	dpw	kPa	67	67	67	67	56	56	56	56	61	61	61	61
	HRC	**kW**	**211**	**158**	**99.2**	**33.4**	**292**	**224**	**151**	**63.2**	**306**	**232**	**149**	**67.2**
	qwr	l/s	10.2	7.6	4.8	1.6	14.1	10.8	7.4	3.1	14.7	11.3	7.3	3.4
	dpwr	kPa	53	30	12	10	64	39	19	10	64	39	19	10
7	CC	kW	1143	1143	1143	1143	1524	1524	1524	1524	1608	1608	1608	1608
	PI	kW	410	410	410	410	561	561	561	561	589	589	589	589
	qw	l/s	54.5	54.5	54.5	54.5	72.7	72.7	72.7	72.7	76.7	76.7	76.7	76.7
	dpw	kPa	73	73	73	73	61	61	61	61	67	67	67	67
	HRC	**kW**	**220**	**167**	**110**	**35**	**304**	**237**	**165**	**80.4**	**319**	**246**	**166**	**86**
	qwr	l/s	10.6	8.0	5.4	1.6	14.7	11.4	8.0	3.9	15.5	11.8	8.0	4.2
	dpwr	kPa	57	33	14	10	70	43	23	10	70	43	23	10
9	CC	kW	1200	1200	1200	1200	1602	1602	1602	1602	1690	1690	1690	1690
	PI	kW	421	421	421	421	578	578	578	578	607	607	607	607
	qw	l/s	57.3	57.3	57.3	57.3	76.5	76.5	76.5	76.5	80.7	80.7	80.7	80.7
	dpw	kPa	80	80	80	80	67	67	67	67	74	74	74	74
	HRC	**kW**	**229**	**176**	**120**	**36.5**	**317**	**250**	**180**	**94.4**	**332**	**260**	**182**	**101**
	qwr	l/s	11.0	8.6	5.8	1.8	15.3	12.1	8.7	4.6	16.0	12.6	8.8	5.0
	dpwr	kPa	62	37	17	10	75	48	26	10	75	48	26	10
11	CC	kW	1258	1258	1258	1258	1681	1681	1681	1681	1774	1774	1774	1774
	PI	kW	433	433	433	433	596	596	596	596	625	625	625	625
	qw	l/s	60.2	60.2	60.2	60.2	80.4	80.4	80.4	80.4	84.8	84.8	84.8	84.8
	dpw	kPa	87	87	87	87	73	73	73	73	80	80	80	80
	HRC	**kW**	**238**	**186**	**131**	**61.2**	**329**	**263**	**194**	**112**	**345**	**273**	**197**	**115**
	qwr	l/s	11.4	9.0	6.4	3.0	15.9	12.7	9.4	5.5	16.6	13.2	9.6	5.6
	dpwr	kPa	67	41	20	10	81	53	30	12	81	53	30	12
13	CC	kW	1318	1318	1318	1318	1762	1762	1762	1762				
	PI	kW	446	446	446	446	615	615	615	615				
	qw	l/s	63.0	63.0	63.0	63.0	84.3	84.3	84.3	84.3				
	dpw	kPa	95	95	95	95	80	80	80	80				
	HRC	**kW**	**247**	**195**	**141**	**77.4**	**342**	**277**	**208**	**132**				
	qwr	l/s	12.0	9.4	6.8	3.8	16.6	13.4	10.0	6.4				
	dpwr	kPa	72	45	24	10	88	59	34	16				
15	CC	kW	1378	1378	1378	1378								
	PI	kW	459	459	459	459								
	qw	l/s	66.0	66.0	66.0	66.0								
	dpw	kPa	103	103	103	103								
	HRC	**kW**	**256**	**205**	**151**	**90.9**								
	qwr	l/s	12.4	10.0	7.4	4.4								
	dpwr	kPa	78	50	27	10								

EWAD C-SS

			C17					
Twout		**Twr**	**45**	**50**	**55**	**60**		
5	CC	kW	1616	1616	1616	1616		
	PI	kW	611	611	611	611		
	qw	l/s	77.0	77.0	77.0	77.0		
	dpw	kPa	67	67	67	67		
	HRC	**kW**	**319**	**246**	**167**	**70.5**		
	qwr	l/s	15.4	12.0	8.0	3.4		
	dpwr	kPa	58	35	17	10		
7	CC	kW	1699	1699	1699	1699		
	PI	kW	629	629	629	629		
	qw	l/s	81.1	81.1	81.1	81.1		
	dpw	kPa	74	74	74	74		
	HRC	**kW**	**333**	**260**	**182**	**87.7**		
	qwr	l/s	16.0	12.6	8.9	4.2		
	dpwr	kPa	62	39	20	10		
9	CC	kW	1783	1783	1783	1783		
	PI	kW	649	649	649	649		
	qw	l/s	85.2	85.2	85.2	85.2		
	dpw	kPa	80	80	80	80		
	HRC	**kW**	**346**	**274**	**197**	**102**		
	qwr	l/s	16.8	13.2	9.5	5.0		
	dpwr	kPa	68	43	24	10		
11	CC	kW	1869	1869	1869	1869		
	PI	kW	668	668	668	668		
	qw	l/s	89.3	89.3	89.3	89.3		
	dpw	kPa	87	87	87	87		
	HRC	**kW**	**360**	**287**	**212**	**125**		
	qwr	l/s	17.4	14.0	10.4	6.2		
	dpwr	kPa	73	48	27	11		
13	CC	kW	1955	1955	1955	1955		
	PI	kW	688	688	688	688		
	qw	l/s	93.5	93.5	93.5	93.5		
	dpw	kPa	95	95	95	95		
	HRC	**kW**	**373**	**302**	**227**	**145**		
	qwr	l/s	18.0	14.6	11.0	6.9		
	dpwr	kPa	79	52	31	14		
15	CC	kW	2043	2043	2043	2043		
	PI	kW	709	709	709	709		
	qw	l/s	97.8	97.8	97.8	97.8		
	dpw	kPa	103	103	103	103		
	HRC	**kW**	**387**	**316**	**242**	**162**		
	qwr	l/s	18.8	15.2	11.8	7.9		
	dpwr	kPa	85	57	35	17		

Fluid: Water
Ta: Condenser inlet air temperature 35.0°C; Twout: Evaporator leaving water temperature (Δt 5.0°C);
Twr: Heat Recovery leaving water temperature (Δt 5.0°C)
CC: Cooling capacity; PI: Power input; qw: Fluid flow rate; dpw: Fluid pressure drop
HRC: Heat recovery capacity; qwr: Heat recovery fluid flow rate; dpwr: Heat recovery fluid pressure drop
** For working condition where dpw value is "Italic-Red Color" please contac factory*

EWAD C-SL

			650				740				830			
Twout		**Twr**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**
5	CC	kW	603	603	603	603	701	701	701	701	783	783	783	783
	PI	kW	217	217	217	217	259	259	259	259	295	295	295	295
	qw	l/s	28.7	28.7	28.7	28.7	33.4	33.4	33.4	33.4	37.3	37.3	37.3	37.3
	dpw	kPa	41	41	41	41	49	49	49	49	47	47	47	47
	HRC	**kW**	**125**	**88.9**	**43.9**	**19.6**	**132**	**100**	**65.1**	**24.3**	**153**	**120**	**85.6**	**43.8**
	qwr	l/s	6.0	4.4	2.2	1.0	6.3	4.8	3.2	1.1	7.4	5.8	4.2	2.2
	dpwr	kPa	40	20	10	10	58	35	17	10	60	37	19	10
7	CC	kW	640	640	640	640	738	738	738	738	824	824	824	824
	PI	kW	224	224	224	224	266	266	266	266	304	304	304	304
	qw	l/s	30.5	30.5	30.5	30.5	35.2	35.2	35.2	35.2	39.3	39.3	39.3	39.3
	dpw	kPa	46	46	46	46	53	53	53	53	52	52	52	52
	HRC	**kW**	**132**	**95.5**	**53.7**	**20.7**	**138**	**106**	**71.9**	**31.7**	**159**	**127**	**92.9**	**54**
	qwr	l/s	6.4	4.6	2.6	1.0	6.7	5.2	3.5	1.6	7.6	6.2	4.6	2.6
	dpwr	kPa	44	23	10	10	63	39	20	10	65	41	22	10
9	CC	kW	677	677	677	677	775	775	775	775	865	865	865	865
	PI	kW	231	231	231	231	274	274	274	274	314	314	314	314
	qw	l/s	32.3	32.3	32.3	32.3	37.0	37.0	37.0	37.0	41.3	41.3	41.3	41.3
	dpw	kPa	51	51	51	51	58	58	58	58	57	57	57	57
	HRC	**kW**	**138**	**102**	**62.4**	**21.8**	**143**	**112**	**78.5**	**37.2**	**166**	**134**	**100**	**62.9**
	qwr	l/s	6.6	5.0	3.0	1.0	6.9	5.4	3.8	1.8	8.0	6.4	4.8	3.0
	dpwr	kPa	48	27	10	10	68	43	23	10	70	46	26	10
11	CC	kW	716	716	716	716	813	813	813	813	907	907	907	907
	PI	kW	238	238	238	238	283	283	283	283	324	324	324	324
	qw	l/s	34.2	34.2	34.2	34.2	38.9	38.9	38.9	38.9	43.3	43.3	43.3	43.3
	dpw	kPa	56	56	56	56	64	64	64	64	62	62	62	62
	HRC	**kW**	**144**	**109**	**70.4**	**22.9**	**149**	**118**	**85.1**	**42.5**	**173**	**140**	**107**	**71.2**
	qwr	l/s	7.0	5.2	3.4	1.2	7.2	5.7	4.2	2.0	8.4	6.8	5.2	3.4
	dpwr	kPa	53	30	13	10	73	47	27	10	76	50	29	13
13	CC	kW	754	754	754	754	852	852	852	852	948	948	948	948
	PI	kW	246	246	246	246	291	291	291	291	335	335	335	335
	qw	l/s	36.1	36.1	36.1	36.1	40.8	40.8	40.8	40.8	45.4	45.4	45.4	45.4
	dpw	kPa	62	62	62	62	69	69	69	69	67	67	67	67
	HRC	**kW**	**150**	**115**	**77.9**	**24**	**155**	**124**	**91.5**	**53.9**	**179**	**147**	**114**	**79.2**
	qwr	l/s	7.2	5.6	3.8	1.2	7.4	6.0	4.4	2.6	8.6	7.2	5.6	3.8
	dpwr	kPa	58	34	16	10	79	52	30	13	82	55	33	16
15	CC	kW	793	793	793	793	892	892	892	892	991	991	991	991
	PI	kW	253	253	253	253	300	300	300	300	346	346	346	346
	qw	l/s	38.0	38.0	38.0	38.0	42.7	42.7	42.7	42.7	47.4	47.4	47.4	47.4
	dpw	kPa	67	67	67	67	75	75	75	75	72	72	72	72
	HRC	**kW**	**157**	**122**	**85.3**	**37.3**	**161**	**130**	**98**	**62.3**	**186**	**154**	**121**	**87**
	qwr	l/s	7.6	6.0	4.2	1.8	7.8	6.3	4.7	3.0	9.0	7.4	5.8	4.2
	dpwr	kPa	63	38	19	10	85	57	34	16	88	61	38	19

EWAD C-SL

			910				970				C11			
Twout		**Twr**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**
5	CC	kW	860	860	860	860	912	912	912	912	1003	1003	1003	1003
	PI	kW	314	314	314	314	346	346	346	346	373	373	373	373
	qw	l/s	41.0	41.0	41.0	41.0	43.5	43.5	43.5	43.5	47.8	47.8	47.8	47.8
	dpw	kPa	56	56	56	56	62	62	62	62	58	58	58	58
	HRC	**kW**	**159**	**122**	**80.8**	**33.2**	**187**	**146**	**102**	**45.7**	**201**	**154**	**103**	**43.1**
	qwr	l/s	7.7	5.9	3.9	1.6	9.0	7.0	5.0	2.2	9.7	7.5	4.9	2.1
	dpwr	kPa	62	38	19	10	62	38	19	10	66	40	20	10
7	CC	kW	904	904	904	904	958	958	958	958	1055	1055	1055	1055
	PI	kW	323	323	323	323	356	356	356	356	384	384	384	384
	qw	l/s	43.2	43.2	43.2	43.2	45.7	45.7	45.7	45.7	50.3	50.3	50.3	50.3
	dpw	kPa	61	61	61	61	68	68	68	68	63	63	63	63
	HRC	**kW**	**166**	**129**	**88.7**	**40.8**	**195**	**154**	**111**	**59.9**	**210**	**163**	**113**	**52.3**
	qwr	l/s	8.0	6.2	4.3	2.0	9.4	7.4	5.4	3.0	10.1	7.9	5.5	2.6
	dpwr	kPa	67	42	22	10	67	42	22	10	71	45	23	10
9	CC	kW	950	950	950	950	1005	1005	1005	1005	1108	1108	1108	1108
	PI	kW	333	333	333	333	367	367	367	367	395	395	395	395
	qw	l/s	45.4	45.4	45.4	45.4	48.0	48.0	48.0	48.0	52.9	52.9	52.9	52.9
	dpw	kPa	67	67	67	67	74	74	74	74	69	69	69	69
	HRC	**kW**	**173**	**136**	**96.5**	**47.1**	**202**	**162**	**119**	**71.4**	**218**	**172**	**123**	**60.1**
	qwr	l/s	8.4	6.5	4.7	2.3	9.8	7.8	5.8	3.4	10.6	8.3	6.0	2.9
	dpwr	kPa	73	47	25	10	73	47	25	10	77	49	27	10
11	CC	kW	996	996	996	996	1053	1053	1053	1053	1161	1161	1161	1161
	PI	kW	343	343	343	343	379	379	379	379	407	407	407	407
	qw	l/s	47.6	47.6	47.6	47.6	50.3	50.3	50.3	50.3	55.5	55.5	55.5	55.5
	dpw	kPa	73	73	73	73	81	81	81	81	75	75	75	75
	HRC	**kW**	**180**	**143**	**104**	**57.5**	**210**	**170**	**128**	**81.8**	**227**	**181**	**132**	**74.2**
	qwr	l/s	8.7	6.9	5.0	2.8	10.2	8.2	6.2	4.0	11.0	8.8	6.4	3.6
	dpwr	kPa	79	51	29	12	79	51	29	12	83	54	31	13
13	CC	kW	1043	1043	1043	1043	1101	1101	1101	1101	1215	1215	1215	1215
	PI	kW	353	353	353	353	390	390	390	390	419	419	419	419
	qw	l/s	49.9	49.9	49.9	49.9	52.7	52.7	52.7	52.7	58.1	58.1	58.1	58.1
	dpw	kPa	79	79	79	79	88	88	88	88	82	82	82	82
	HRC	**kW**	**187**	**150**	**112**	**68.5**	**218**	**178**	**136**	**91.7**	**236**	**190**	**142**	**87.6**
	qwr	l/s	9.0	7.2	5.4	3.3	10.6	8.6	6.6	4.4	11.3	9.1	6.9	4.2
	dpwr	kPa	85	56	33	15	85	56	33	15	90	60	35	16
15	CC	kW	1090	1090	1090	1090	1149	1149	1149	1149	1270	1270	1270	1270
	PI	kW	364	364	364	364	402	402	402	402	432	432	432	432
	qw	l/s	52.2	52.2	52.2	52.2	55.0	55.0	55.0	55.0	60.8	60.8	60.8	60.8
	dpw	kPa	86	86	86	86	95	95	95	95	89	89	89	89
	HRC	**kW**	**194**	**157**	**119**	**78**	**226**	**186**	**145**	**101**	**245**	**199**	**151**	**99.3**
	qwr	l/s	9.4	7.6	5.8	3.8	11.0	9.0	7.0	5.0	11.8	9.6	7.3	4.8
	dpwr	kPa	91	62	38	18	91	62	38	18	96	65	40	20

EWAD C-SL

			C12				C15				C16			
Twout		**Twr**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**
5	CC	kW	1087	1087	1087	1087	1448	1448	1448	1448	1528	1528	1528	1528
	PI	kW	398	398	398	398	544	544	544	544	572	572	572	572
	qw	l/s	51.8	51.8	51.8	51.8	69.0	69.0	69.0	69.0	72.8	72.8	72.8	72.8
	dpw	kPa	67	67	67	67	56	56	56	56	61	61	61	61
	HRC	**kW**	**211**	**158**	**99.2**	**33.4**	**292**	**224**	**151**	**63.2**	**306**	**232**	**149**	**67.2**
	qwr	l/s	10.2	7.6	4.8	1.6	14.1	10.8	7.4	3.1	14.7	11.3	7.3	3.4
	dpwr	kPa	53	30	12	10	64	39	19	10	64	39	19	10
7	CC	kW	1143	1143	1143	1143	1524	1524	1524	1524	1608	1608	1608	1608
	PI	kW	410	410	410	410	561	561	561	561	589	589	589	589
	qw	l/s	54.5	54.5	54.5	54.5	72.7	72.7	72.7	72.7	76.7	76.7	76.7	76.7
	dpw	kPa	73	73	73	73	61	61	61	61	67	67	67	67
	HRC	**kW**	**220**	**167**	**110**	**35**	**304**	**237**	**165**	**80.4**	**319**	**246**	**166**	**86**
	qwr	l/s	10.6	8.0	5.4	1.6	14.7	11.4	8.0	3.9	15.5	11.8	8.0	4.2
	dpwr	kPa	57	33	14	10	70	43	23	10	70	43	23	10
9	CC	kW	1200	1200	1200	1200	1602	1602	1602	1602	1690	1690	1690	1690
	PI	kW	421	421	421	421	578	578	578	578	607	607	607	607
	qw	l/s	57.3	57.3	57.3	57.3	76.5	76.5	76.5	76.5	80.7	80.7	80.7	80.7
	dpw	kPa	80	80	80	80	67	67	67	67	74	74	74	74
	HRC	**kW**	**229**	**176**	**120**	**36.5**	**317**	**250**	**180**	**94.4**	**332**	**260**	**182**	**101**
	qwr	l/s	11.0	8.6	5.8	1.8	15.3	12.1	8.7	4.6	16.0	12.6	8.8	5.0
	dpwr	kPa	62	37	17	10	75	48	26	10	75	48	26	10
11	CC	kW	1258	1258	1258	1258	1681	1681	1681	1681	1774	1774	1774	1774
	PI	kW	433	433	433	433	596	596	596	596	625	625	625	625
	qw	l/s	60.2	60.2	60.2	60.2	80.4	80.4	80.4	80.4	84.8	84.8	84.8	84.8
	dpw	kPa	87	87	87	87	73	73	73	73	80	80	80	80
	HRC	**kW**	**238**	**186**	**131**	**61.2**	**329**	**263**	**194**	**112**	**345**	**273**	**197**	**115**
	qwr	l/s	11.4	9.0	6.4	3.0	15.9	12.7	9.4	5.5	16.6	13.2	9.6	5.6
	dpwr	kPa	67	41	20	10	81	53	30	12	81	53	30	12
13	CC	kW	1318	1318	1318	1318	1762	1762	1762	1762				
	PI	kW	446	446	446	446	615	615	615	615				
	qw	l/s	63.0	63.0	63.0	63.0	84.3	84.3	84.3	84.3				
	dpw	kPa	95	95	95	95	80	80	80	80				
	HRC	**kW**	**247**	**195**	**141**	**77.4**	**342**	**277**	**208**	**132**				
	qwr	l/s	12.0	9.4	6.8	3.8	16.6	13.4	10.0	6.4				
	dpwr	kPa	72	45	24	10	88	59	34	16				
15	CC	kW	1378	1378	1378	1378								
	PI	kW	459	459	459	459								
	qw	l/s	66.0	66.0	66.0	66.0								
	dpw	kPa	103	103	103	103								
	HRC	**kW**	**256**	**205**	**151**	**90.9**								
	qwr	l/s	12.4	10.0	7.4	4.4								
	dpwr	kPa	78	50	27	10								

EWAD C-SL

			C17					
Twout		**Twr**	**45**	**50**	**55**	**60**		
5	CC	kW	1616	1616	1616	1616		
	PI	kW	611	611	611	611		
	qw	l/s	77.0	77.0	77.0	77.0		
	dpw	kPa	67	67	67	67		
	HRC	**kW**	**319**	**246**	**167**	**70.5**		
	qwr	l/s	15.4	12.0	8.0	3.4		
	dpwr	kPa	58	35	17	10		
7	CC	kW	1699	1699	1699	1699		
	PI	kW	629	629	629	629		
	qw	l/s	81.1	81.1	81.1	81.1		
	dpw	kPa	74	74	74	74		
	HRC	**kW**	**333**	**260**	**182**	**87.7**		
	qwr	l/s	16.0	12.6	8.9	4.2		
	dpwr	kPa	62	39	20	10		
9	CC	kW	1783	1783	1783	1783		
	PI	kW	649	649	649	649		
	qw	l/s	85.2	85.2	85.2	85.2		
	dpw	kPa	80	80	80	80		
	HRC	**kW**	**346**	**274**	**197**	**102**		
	qwr	l/s	16.8	13.2	9.5	5.0		
	dpwr	kPa	68	43	24	10		
11	CC	kW	1869	1869	1869	1869		
	PI	kW	668	668	668	668		
	qw	l/s	89.3	89.3	89.3	89.3		
	dpw	kPa	87	87	87	87		
	HRC	**kW**	**360**	**287**	**212**	**125**		
	qwr	l/s	17.4	14.0	10.4	6.2		
	dpwr	kPa	73	48	27	11		
13	CC	kW	1955	1955	1955	1955		
	PI	kW	688	688	688	688		
	qw	l/s	93.5	93.5	93.5	93.5		
	dpw	kPa	95	95	95	95		
	HRC	**kW**	**373**	**302**	**227**	**145**		
	qwr	l/s	18.0	14.6	11.0	6.9		
	dpwr	kPa	79	52	31	14		
15	CC	kW	2043	2043	2043	2043		
	PI	kW	709	709	709	709		
	qw	l/s	97.8	97.8	97.8	97.8		
	dpw	kPa	103	103	103	103		
	HRC	**kW**	**387**	**316**	**242**	**162**		
	qwr	l/s	18.8	15.2	11.8	7.9		
	dpwr	kPa	85	57	35	17		

Fluid: Water
Ta: Condenser inlet air temperature 35.0°C; Twout: Evaporator leaving water temperature (Δt 5.0°C);
Twr: Heat Recovery leaving water temperature (Δt 5.0°C)
CC: Cooling capacity; PI: Power input; qw: Fluid flow rate; dpw: Fluid pressure drop
HRC: Heat recovery capacity; qwr: Heat recovery fluid flow rate; dpwr: Heat recovery fluid pressure drop
** For working condition where dpw value is "Italic-Red Color" please contac factory*

EWAD C-SR

			620				720				790			
Twout		**Twr**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**
5	CC	kW	577	577	577	577	674	674	674	674	742	742	742	742
	PI	kW	219	219	219	219	269	269	269	269	308	308	308	308
	qw	l/s	27.5	27.5	27.5	27.5	32.1	32.1	32.1	32.1	35.4	35.4	35.4	35.4
	dpw	kPa	38	38	38	38	45	45	45	45	43	43	43	43
	HRC	**kW**	**145**	**110**	**73.1**	**23**	**155**	**124**	**92.5**	**55.8**	**177**	**146**	**113**	**79.1**
	qwr	l/s	7.0	5.4	3.6	1.2	7.5	6.0	4.5	2.7	8.6	7.0	5.4	3.8
	dpwr	kPa	53	31	14	10	79	53	31	14	80	54	33	16
7	CC	kW	611	611	611	611	707	707	707	707	779	779	779	779
	PI	kW	227	227	227	227	278	278	278	278	320	320	320	320
	qw	l/s	29.2	29.2	29.2	29.2	33.7	33.7	33.7	33.7	37.2	37.2	37.2	37.2
	dpw	kPa	42	42	42	42	49	49	49	49	47	47	47	47
	HRC	**kW**	**152**	**118**	**81.2**	**30.7**	**162**	**131**	**99.3**	**64.5**	**184**	**153**	**121**	**87.5**
	qwr	l/s	7.4	5.6	4.0	1.4	7.8	6.3	4.8	3.1	9.0	7.4	5.8	4.2
	dpwr	kPa	59	35	17	10	86	58	35	17	87	60	38	20
9	CC	kW	646	646	646	646	741	741	741	741	816	816	816	816
	PI	kW	235	235	235	235	287	287	287	287	332	332	332	332
	qw	l/s	30.8	30.8	30.8	30.8	35.4	35.4	35.4	35.4	39.0	39.0	39.0	39.0
	dpw	kPa	46	46	46	46	54	54	54	54	51	51	51	51
	HRC	**kW**	**159**	**125**	**89.1**	**46.1**	**168**	**138**	**106**	**72.5**	**192**	**161**	**129**	**95.7**
	qwr	l/s	7.6	6.0	4.4	2.2	8.1	6.6	5.1	3.5	9.2	7.8	6.2	4.6
	dpwr	kPa	64	40	20	10	92	64	40	21	94	66	42	23
11	CC	kW	681	681	681	681	776	776	776	776	852	852	852	852
	PI	kW	243	243	243	243	297	297	297	297	344	344	344	344
	qw	l/s	32.5	32.5	32.5	32.5	37.1	37.1	37.1	37.1	40.7	40.7	40.7	40.7
	dpw	kPa	51	51	51	51	59	59	59	59	55	55	55	55
	HRC	**kW**	**166**	**132**	**97**	**57.1**	**175**	**144**	**113**	**80.2**	**199**	**168**	**136**	**104**
	qwr	l/s	8.0	6.4	4.8	2.8	8.5	7.0	5.5	3.9	9.6	8.2	6.6	5.0
	dpwr	kPa	70	45	24	10	100	70	45	25	*101*	72	48	28
13	CC	kW	717	717	717	717	811	811	811	811	879	879	879	879
	PI	kW	252	252	252	252	307	307	307	307	351	351	351	351
	qw	l/s	34.3	34.3	34.3	34.3	38.8	38.8	38.8	38.8	42.1	42.1	42.1	42.1
	dpw	kPa	56	56	56	56	63	63	63	63	59	59	59	59
	HRC	**kW**	**173**	**139**	**105**	**66.7**	**181**	**151**	**120**	**87.8**	**204**	**173**	**142**	**109**
	qwr	l/s	8.4	6.8	5.0	3.2	8.7	7.3	5.8	4.3	9.8	8.4	6.8	5.4
	dpwr	kPa	76	50	28	11	*107*	76	50	29	*106*	77	51	31
15	CC	kW	752	752	752	752	841	841	841	841	887	887	887	887
	PI	kW	261	261	261	261	315	315	315	315	342	342	342	342
	qw	l/s	36.0	36.0	36.0	36.0	40.3	40.3	40.3	40.3	42.5	42.5	42.5	42.5
	dpw	kPa	61	61	61	61	68	68	68	68	60	60	60	60
	HRC	**kW**	**180**	**147**	**112**	**75.5**	**187**	**157**	**126**	**94**	**204**	**173**	**142**	**109**
	qwr	l/s	8.6	7.0	5.4	3.6	9.0	7.6	6.1	4.5	9.8	8.4	6.8	5.4
	dpwr	kPa	83	55	32	15	*113*	81	54	32	*106*	77	51	31

EWAD C-SR

			880				920				C10			
Twout		**Twr**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**
5	CC	kW	826	826	826	826	870	870	870	870	962	962	962	962
	PI	kW	325	325	325	325	363	363	363	363	388	388	388	388
	qw	l/s	39.3	39.3	39.3	39.3	41.5	41.5	41.5	41.5	45.8	45.8	45.8	45.8
	dpw	kPa	52	52	52	52	57	57	57	57	53	53	53	53
	HRC	**kW**	**187**	**150**	**113**	**70.7**	**218**	**179**	**138**	**94**	**236**	**191**	**143**	**90.7**
	qwr	l/s	9.0	7.3	5.4	3.4	10.6	8.6	6.6	4.6	11.4	9.3	6.9	4.4
	dpwr	kPa	85	57	34	16	85	57	34	16	90	60	36	17
7	CC	kW	867	867	867	867	911	911	911	911	1009	1009	1009	1009
	PI	kW	336	336	336	336	375	375	375	375	401	401	401	401
	qw	l/s	41.3	41.3	41.3	41.3	43.5	43.5	43.5	43.5	48.1	48.1	48.1	48.1
	dpw	kPa	57	57	57	57	62	62	62	62	58	58	58	58
	HRC	**kW**	**194**	**158**	**121**	**80.6**	**227**	**188**	**147**	**104**	**246**	**200**	**154**	**103**
	qwr	l/s	9.4	7.6	5.9	3.9	11.0	9.0	7.2	5.0	11.8	9.7	7.4	5.0
	dpwr	kPa	92	63	39	19	92	63	39	19	97	66	41	21
9	CC	kW	908	908	908	908	953	953	953	953	1056	1056	1056	1056
	PI	kW	348	348	348	348	389	389	389	389	415	415	415	415
	qw	l/s	43.4	43.4	43.4	43.4	45.5	45.5	45.5	45.5	50.4	50.4	50.4	50.4
	dpw	kPa	62	62	62	62	67	67	67	67	63	63	63	63
	HRC	**kW**	**202**	**166**	**129**	**89.9**	**236**	**196**	**156**	**114**	**255**	**210**	**164**	**115**
	qwr	l/s	9.8	8.1	6.3	4.4	11.4	9.6	7.6	5.6	12.3	10.2	8.0	5.5
	dpwr	kPa	99	69	44	23	99	69	43	23	*105*	73	46	25
11	CC	kW	949	949	949	949	995	995	995	995	1104	1104	1104	1104
	PI	kW	360	360	360	360	402	402	402	402	429	429	429	429
	qw	l/s	45.4	45.4	45.4	45.4	47.5	47.5	47.5	47.5	52.8	52.8	52.8	52.8
	dpw	kPa	67	67	67	67	73	73	73	73	69	69	69	69
	HRC	**kW**	**210**	**174**	**137**	**98.9**	**245**	**205**	**165**	**124**	**265**	**220**	**174**	**126**
	qwr	l/s	10.1	8.4	6.7	4.8	11.8	10.0	8.0	6.0	12.7	10.7	8.5	6.1
	dpwr	kPa	*107*	75	49	27	*106*	75	49	27	*113*	80	52	29
13	CC	kW	991	991	991	991	1037	1037	1037	1037	1153	1153	1153	1153
	PI	kW	372	372	372	372	416	416	416	416	443	443	443	443
	qw	l/s	47.4	47.4	47.4	47.4	49.6	49.6	49.6	49.6	55.1	55.1	55.1	55.1
	dpw	kPa	72	72	72	72	79	79	79	79	74	74	74	74
	HRC	**kW**	**218**	**182**	**146**	**108**	**254**	**215**	**175**	**134**	**275**	**230**	**184**	**137**
	qwr	l/s	10.5	8.8	7.0	5.2	12.2	10.4	8.4	6.4	13.3	11.1	8.9	6.6
	dpwr	kPa	*114*	82	54	32	*114*	82	54	32	*121*	87	58	34
15	CC	kW	1023	1023	1023	1023	1058	1058	1058	1058	1186	1186	1186	1186
	PI	kW	378	378	378	378	416	416	416	416	448	448	448	448
	qw	l/s	49.0	49.0	49.0	49.0	50.6	50.6	50.6	50.6	56.8	56.8	56.8	56.8
	dpw	kPa	77	77	77	77	82	82	82	82	79	79	79	79
	HRC	**kW**	**223**	**187**	**151**	**113**	**257**	**218**	**178**	**137**	**280**	**236**	**190**	**143**
	qwr	l/s	10.7	9.1	7.3	5.5	12.4	10.6	8.6	6.6	13.6	11.4	9.2	7.0
	dpwr	kPa	*117*	85	57	34	*117*	85	57	34	*123*	88	59	35

EWAD C-SR

			C11				C13				C14			
Twout		**Twr**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**
5	CC	kW	1049	1049	1049	1049	1287	1287	1287	1287	1385	1385	1385	1385
	PI	kW	411	411	411	411	510	510	510	510	567	567	567	567
	qw	l/s	50.0	50.0	50.0	50.0	61.3	61.3	61.3	61.3	66.0	66.0	66.0	66.0
	dpw	kPa	62	62	62	62	40	40	40	40	51	51	51	51
	HRC	**kW**	**249**	**198**	**144**	**82.6**	**284**	**225**	**163**	**87.7**	**341**	**276**	**209**	**134**
	qwr	l/s	12.0	9.6	7.0	4.0	13.7	10.8	7.9	4.2	16.5	13.4	10.0	6.5
	dpwr	kPa	73	46	25	10	74	49	28	12	87	58	35	16
7	CC	kW	1101	1101	1101	1101	1353	1353	1353	1353	1454	1454	1454	1454
	PI	kW	424	424	424	424	527	527	527	527	587	587	587	587
	qw	l/s	52.5	52.5	52.5	52.5	64.6	64.6	64.6	64.6	69.4	69.4	69.4	69.4
	dpw	kPa	68	68	68	68	44	44	44	44	56	56	56	56
	HRC	**kW**	**259**	**208**	**155**	**96.5**	**295**	**237**	**176**	**106**	**355**	**290**	**224**	**152**
	qwr	l/s	12.4	10.0	7.6	4.6	14.3	11.4	8.5	5.1	17.2	14.0	10.8	7.3
	dpwr	kPa	79	51	29	11	81	54	33	15	95	65	40	20
9	CC	kW	1153	1153	1153	1153	1420	1420	1420	1420	1524	1524	1524	1524
	PI	kW	438	438	438	438	545	545	545	545	608	608	608	608
	qw	l/s	55.1	55.1	55.1	55.1	67.8	67.8	67.8	67.8	72.8	72.8	72.8	72.8
	dpw	kPa	74	74	74	74	48	48	48	48	61	61	61	61
	HRC	**kW**	**269**	**218**	**166**	**110**	**307**	**249**	**189**	**122**	**369**	**305**	**239**	**168**
	qwr	l/s	13.0	10.6	8.0	5.4	14.7	12.0	9.1	5.9	17.9	14.7	11.6	8.2
	dpwr	kPa	86	57	33	14	87	60	37	19	*102*	71	45	24
11	CC	kW	1207	1207	1207	1207	1487	1487	1487	1487	1595	1595	1595	1595
	PI	kW	452	452	452	452	563	563	563	563	629	629	629	629
	qw	l/s	57.7	57.7	57.7	57.7	71.1	71.1	71.1	71.1	76.2	76.2	76.2	76.2
	dpw	kPa	81	81	81	81	53	53	53	53	66	66	66	66
	HRC	**kW**	**279**	**229**	**177**	**122**	**319**	**261**	**202**	**137**	**384**	**320**	**254**	**185**
	qwr	l/s	13.4	11.0	8.6	6.0	15.4	12.6	9.7	6.7	18.6	15.5	12.3	8.9
	dpwr	kPa	92	62	37	18	94	66	42	23	*110*	78	50	28
13	CC	kW	1260	1260	1260	1260	1556	1556	1556	1556	1666	1666	1666	1666
	PI	kW	467	467	467	467	582	582	582	582	652	652	652	652
	qw	l/s	60.3	60.3	60.3	60.3	74.4	74.4	74.4	74.4	79.7	79.7	79.7	79.7
	dpw	kPa	87	87	87	87	57	57	57	57	72	72	72	72
	HRC	**kW**	**290**	**240**	**188**	**134**	**332**	**274**	**215**	**152**	**398**	**334**	**269**	**201**
	qwr	l/s	14.0	11.6	9.2	6.6	16.0	13.3	10.3	7.4	19.2	16.2	13.0	9.7
	dpwr	kPa	99	68	42	21	*101*	72	47	27	*118*	85	56	33
15	CC	kW	1315	1315	1315	1315					1714	1714	1714	1714
	PI	kW	482	482	482	482					658	658	658	658
	qw	l/s	62.9	62.9	62.9	62.9					82.0	82.0	82.0	82.0
	dpw	kPa	94	94	94	94					76	76	76	76
	HRC	**kW**	**300**	**250**	**199**	**146**					**407**	**343**	**278**	**210**
	qwr	l/s	14.6	12.2	9.6	7.0					19.6	16.6	13.4	10.2
	dpwr	kPa	*107*	74	47	25					*122*	88	59	35

EWAD C-SR

			C15				C16				
Twout		**Twr**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**	
5	CC	kW	1465	1465	1465	1465	1530	1530	1530	1530	
	PI	kW	593	593	593	593	636	636	636	636	
	qw	l/s	69.8	69.8	69.8	69.8	72.9	72.9	72.9	72.9	
	dpw	kPa	57	57	57	57	62	62	62	62	
	HRC	**kW**	**358**	**288**	**214**	**130**	**371**	**301**	**228**	**148**	
	qwr	l/s	17.4	14.0	10.3	6.3	18.0	14.6	11.0	7.2	
	dpwr	kPa	87	58	35	16	77	52	31	15	
7	CC	kW	1539	1539	1539	1539	1605	1605	1605	1605	
	PI	kW	614	614	614	614	658	658	658	658	
	qw	l/s	73.4	73.4	73.4	73.4	76.6	76.6	76.6	76.6	
	dpw	kPa	62	62	62	62	68	68	68	68	
	HRC	**kW**	**373**	**303**	**230**	**144**	**386**	**316**	**244**	**167**	
	qwr	l/s	18.0	14.6	11.1	6.9	18.6	15.3	11.9	8.2	
	dpwr	kPa	94	64	40	20	84	57	35	18	
9	CC	kW	1613	1613	1613	1613	1679	1679	1679	1679	
	PI	kW	635	635	635	635	681	681	681	681	
	qw	l/s	77.0	77.0	77.0	77.0	80.2	80.2	80.2	80.2	
	dpw	kPa	68	68	68	68	73	73	73	73	
	HRC	**kW**	**388**	**318**	**246**	**166**	**401**	**331**	**260**	**184**	
	qwr	l/s	18.7	15.4	11.9	8.0	19.4	16.1	12.5	9.1	
	dpwr	kPa	*102*	71	45	24	90	63	40	21	
11	CC	kW	1688	1688	1688	1688	1755	1755	1755	1755	
	PI	kW	657	657	657	657	705	705	705	705	
	qw	l/s	80.7	80.7	80.7	80.7	83.9	83.9	83.9	83.9	
	dpw	kPa	74	74	74	74	80	80	80	80	
	HRC	**kW**	**403**	**333**	**262**	**185**	**416**	**347**	**276**	**202**	
	qwr	l/s	19.5	16.1	12.7	8.9	20.1	16.7	13.4	9.7	
	dpwr	kPa	*110*	78	50	28	97	69	45	25	
13	CC	kW	1764	1764	1764	1764	1831	1831	1831	1831	
	PI	kW	680	680	680	680	729	729	729	729	
	qw	l/s	84.4	84.4	84.4	84.4	87.6	87.6	87.6	87.6	
	dpw	kPa	80	80	80	80	86	86	86	86	
	HRC	**kW**	**418**	**349**	**278**	**203**	**432**	**363**	**292**	**219**	
	qwr	l/s	20.1	16.9	13.5	9.8	20.9	17.6	14.2	10.6	
	dpwr	kPa	*118*	85	56	33	*104*	75	50	29	
15	CC	kW	1816	1816	1816	1816	1882	1882	1882	1882	
	PI	kW	686	686	686	686	737	737	737	737	
	qw	l/s	86.9	86.9	86.9	86.9	90.1	90.1	90.1	90.1	
	dpw	kPa	84	84	84	84	90	90	90	90	
	HRC	**kW**	**427**	**358**	**287**	**213**	**441**	**372**	**301**	**229**	
	qwr	l/s	20.5	17.3	13.9	10.4	21.3	18.0	14.7	11.1	
	dpwr	kPa	*122*	88	59	35	*107*	77	52	31	

Fluid: Water
Ta: Condenser inlet air temperature 35.0°C; Twout: Evaporator leaving water temperature (Δt 5.0°C);
Twr: Heat Recovery leaving water temperature (Δt 5.0°C)
CC: Cooling capacity; PI: Power input; qw: Fluid flow rate; dpw: Fluid pressure drop
HRC: Heat recovery capacity; qwr: Heat recovery fluid flow rate; dpwr: Heat recovery fluid pressure drop
** For working condition where dpw value is "Italic-Red Color" please contac factory*

EWAD C-XS

			760				830				890			
Twout		**Twr**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**
5	CC	kW	710	710	710	710	779	779	779	779	835	835	835	835
	PI	kW	230	230	230	230	250	250	250	250	274	274	274	274
	qw	l/s	33.8	33.8	33.8	33.8	37.1	37.1	37.1	37.1	39.8	39.8	39.8	39.8
	dpw	kPa	72	72	72	72	51	51	51	51	57	57	57	57
	HRC	**kW**	**107**	**73.7**	**28.4**	**16.6**	**103**	**68.5**	**26.8**	**15.9**	**118**	**82.4**	**35**	**18.4**
	qwr	l/s	5.2	3.6	1.4	0.8	5.0	3.3	1.2	0.7	5.8	4.0	1.6	0.8
	dpwr	kPa	29	14	10	10	36	17	10	10	36	17	10	10
7	CC	kW	751	751	751	751	825	825	825	825	883	883	883	883
	PI	kW	236	236	236	236	257	257	257	257	282	282	282	282
	qw	l/s	35.8	35.8	35.8	35.8	39.3	39.3	39.3	39.3	42.1	42.1	42.1	42.1
	dpw	kPa	80	80	80	80	56	56	56	56	63	63	63	63
	HRC	**kW**	**112**	**79.2**	**39.5**	**17.5**	**108**	**74**	**32.5**	**16.8**	**124**	**88.4**	**45.7**	**19.4**
	qwr	l/s	5.4	3.8	2.0	0.8	5.2	3.5	1.6	0.8	6.0	4.2	2.2	1.0
	dpwr	kPa	32	16	10	10	39	20	10	10	39	20	10	10
9	CC	kW	793	793	793	793	871	871	871	871	932	932	932	932
	PI	kW	243	243	243	243	264	264	264	264	290	290	290	290
	qw	l/s	37.9	37.9	37.9	37.9	41.6	41.6	41.6	41.6	44.5	44.5	44.5	44.5
	dpw	kPa	88	88	88	88	62	62	62	62	70	70	70	70
	HRC	**kW**	**117**	**84.7**	**47.5**	**18.3**	**113**	**79.5**	**37.1**	**17.6**	**129**	**94.5**	**54.3**	**20.4**
	qwr	l/s	5.6	4.0	2.4	0.8	5.4	3.9	1.8	0.9	6.2	4.6	2.6	1.0
	dpwr	kPa	35	18	10	10	43	23	10	10	43	23	10	10
11	CC	kW	835	835	835	835	916	916	916	916	977	977	977	977
	PI	kW	250	250	250	250	271	271	271	271	298	298	298	298
	qw	l/s	39.9	39.9	39.9	39.9	43.8	43.8	43.8	43.8	46.7	46.7	46.7	46.7
	dpw	kPa	97	97	97	97	68	68	68	68	76	76	76	76
	HRC	**kW**	**122**	**90**	**54.5**	**19.2**	**117**	**84.6**	**44.4**	**18.4**	**134**	**99.9**	**61.2**	**21.2**
	qwr	l/s	5.8	4.4	2.6	1.0	5.6	4.1	2.2	0.9	6.4	4.8	3.0	1.0
	dpwr	kPa	38	21	10	10	46	25	10	10	46	25	10	10
13	CC	kW	877	877	877	877	962	962	962	962	1022	1022	1022	1022
	PI	kW	257	257	257	257	278	278	278	278	305	305	305	305
	qw	l/s	42.0	42.0	42.0	42.0	46.0	46.0	46.0	46.0	48.9	48.9	48.9	48.9
	dpw	kPa	106	106	106	106	74	74	74	74	83	83	83	83
	HRC	**kW**	**127**	**95.4**	**61**	**20.1**	**122**	**89.8**	**52.4**	**19.3**	**140**	**105**	**67.6**	**22.1**
	qwr	l/s	6.2	4.6	3.0	1.0	5.9	4.3	2.5	0.9	6.8	5.0	3.2	1.0
	dpwr	kPa	41	23	10	10	50	28	12	10	50	28	12	10
15	CC	kW	920	920	920	920	1008	1008	1008	1008	1067	1067	1067	1067
	PI	kW	264	264	264	264	285	285	285	285	313	313	313	313
	qw	l/s	44.0	44.0	44.0	44.0	48.3	48.3	48.3	48.3	51.1	51.1	51.1	51.1
	dpw	kPa	115	115	115	115	81	81	81	81	90	90	90	90
	HRC	**kW**	**132**	**101**	**67.1**	**21**	**127**	**94.9**	**59.1**	**20.1**	**145**	**111**	**73.7**	**23**
	qwr	l/s	6.4	4.8	3.2	1.0	6.1	4.6	2.9	1.0	7.0	5.4	3.6	1.2
	dpwr	kPa	44	26	12	10	53	31	14	10	53	31	14	10

EWAD C-XS

			990				C10				C11			
Twout		**Twr**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**
5	CC	kW	938	938	938	938	1007	1007	1007	1007	1123	1123	1123	1123
	PI	kW	303	303	303	303	333	333	333	333	360	360	360	360
	qw	l/s	44.7	44.7	44.7	44.7	48.0	48.0	48.0	48.0	53.5	53.5	53.5	53.5
	dpw	kPa	54	54	54	54	61	61	61	61	40	40	40	40
	HRC	**kW**	**136**	**94.1**	**42.1**	**21.2**	**162**	**116**	**61.1**	**25.4**	**167**	**112**	**45.2**	**25.9**
	qwr	l/s	6.6	4.5	2.1	1.0	7.8	5.6	3.0	1.2	8.1	5.5	2.2	1.3
	dpwr	kPa	47	24	10	10	47	24	10	10	46	23	10	10
7	CC	kW	994	994	994	994	1066	1066	1066	1066	1188	1188	1188	1188
	PI	kW	312	312	312	312	343	343	343	343	369	369	369	369
	qw	l/s	47.4	47.4	47.4	47.4	50.9	50.9	50.9	50.9	56.7	56.7	56.7	56.7
	dpw	kPa	60	60	60	60	68	68	68	68	45	45	45	45
	HRC	**kW**	**143**	**101**	**48.3**	**22.4**	**170**	**125**	**72.5**	**26.8**	**175**	**121**	**54.1**	**27.3**
	qwr	l/s	6.9	4.9	2.4	1.0	8.2	6.0	3.6	1.2	8.4	5.9	2.6	1.3
	dpwr	kPa	51	28	10	10	51	28	10	10	51	26	10	10
9	CC	kW	1052	1052	1052	1052	1127	1127	1127	1127	1255	1255	1255	1255
	PI	kW	321	321	321	321	354	354	354	354	380	380	380	380
	qw	l/s	50.2	50.2	50.2	50.2	53.8	53.8	53.8	53.8	59.9	59.9	59.9	59.9
	dpw	kPa	67	67	67	67	75	75	75	75	49	49	49	49
	HRC	**kW**	**150**	**109**	**59.1**	**23.5**	**178**	**133**	**82.9**	**28.1**	**183**	**130**	**61.6**	**28.6**
	qwr	l/s	7.2	5.2	2.9	1.2	8.6	6.4	4.0	1.4	8.8	6.2	3.0	1.4
	dpwr	kPa	56	31	12	10	56	31	12	10	55	30	10	10
11	CC	kW	1109	1109	1109	1109	1186	1186	1186	1186	1323	1323	1323	1323
	PI	kW	330	330	330	330	364	364	364	364	390	390	390	390
	qw	l/s	53.0	53.0	53.0	53.0	56.7	56.7	56.7	56.7	63.2	63.2	63.2	63.2
	dpw	kPa	74	74	74	74	83	83	83	83	54	54	54	54
	HRC	**kW**	**156**	**116**	**69.5**	**24.7**	**186**	**141**	**92.5**	**29.5**	**191**	**138**	**75**	**30**
	qwr	l/s	7.6	5.6	3.3	1.2	9.0	6.8	4.4	1.4	9.2	6.7	3.6	1.5
	dpwr	kPa	61	35	15	10	61	35	15	10	60	34	13	10
13	CC	kW	1169	1169	1169	1169	1247	1247	1247	1247	1392	1392	1392	1392
	PI	kW	340	340	340	340	374	374	374	374	400	400	400	400
	qw	l/s	55.9	55.9	55.9	55.9	59.7	59.7	59.7	59.7	66.6	66.6	66.6	66.6
	dpw	kPa	81	81	81	81	91	91	91	91	60	60	60	60
	HRC	**kW**	**163**	**123**	**78.6**	**25.9**	**193**	**149**	**102**	**30.9**	**199**	**147**	**87.7**	**31.4**
	qwr	l/s	7.9	5.9	3.8	1.2	9.4	7.2	5.0	1.4	9.6	7.1	4.2	1.5
	dpwr	kPa	66	40	18	10	66	40	18	10	65	38	16	10
15	CC	kW	1228	1228	1228	1228	1308	1308	1308	1308	1462	1462	1462	1462
	PI	kW	350	350	350	350	385	385	385	385	411	411	411	411
	qw	l/s	58.8	58.8	58.8	58.8	62.6	62.6	62.6	62.6	70.0	70.0	70.0	70.0
	dpw	kPa	88	88	88	88	99	99	99	99	65	65	65	65
	HRC	**kW**	**170**	**130**	**87**	**36.8**	**201**	**157**	**111**	**51.7**	**207**	**156**	**98.8**	**32.9**
	qwr	l/s	8.3	6.3	4.2	1.8	9.8	7.6	5.4	2.6	10.0	7.5	4.8	1.6
	dpwr	kPa	72	44	22	10	72	44	22	10	71	42	19	10

EWAD C-XS

			C12				C13				C16			
Twout		**Twr**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**
5	CC	kW	1203	1203	1203	1203	1261	1261	1261	1261	1500	1500	1500	1500
	PI	kW	395	395	395	395	404	404	404	404	497	497	497	497
	qw	l/s	57.3	57.3	57.3	57.3	60.1	60.1	60.1	60.1	71.5	71.5	71.5	71.5
	dpw	kPa	46	46	46	46	60	60	60	60	55	55	55	55
	HRC	**kW**	**198**	**139**	**61.6**	**30.9**	**216**	**154**	**79.8**	**33.8**	**240**	**171**	**88.5**	**37.6**
	qwr	l/s	9.6	6.8	3.0	1.6	10.4	7.4	3.8	1.6	11.7	8.4	4.2	1.8
	dpwr	kPa	46	23	10	10	55	28	10	10	46	23	10	10
7	CC	kW	1271	1271	1271	1271	1339	1339	1339	1339	1585	1585	1585	1585
	PI	kW	407	407	407	407	417	417	417	417	512	512	512	512
	qw	l/s	60.6	60.6	60.6	60.6	63.9	63.9	63.9	63.9	75.6	75.6	75.6	75.6
	dpw	kPa	51	51	51	51	67	67	67	67	61	61	61	61
	HRC	**kW**	**207**	**148**	**78.2**	**32.5**	**226**	**165**	**95.9**	**35.6**	**251**	**183**	**105**	**39.5**
	qwr	l/s	10.0	7.2	3.8	1.6	11.0	8.0	4.6	1.8	12.0	9.0	5.1	1.8
	dpwr	kPa	51	26	10	10	61	32	11	10	50	27	10	10
9	CC	kW	1341	1341	1341	1341	1417	1417	1417	1417	1669	1669	1669	1669
	PI	kW	418	418	418	418	429	429	429	429	526	526	526	526
	qw	l/s	64.0	64.0	64.0	64.0	67.7	67.7	67.7	67.7	79.7	79.7	79.7	79.7
	dpw	kPa	56	56	56	56	74	74	74	74	67	67	67	67
	HRC	**kW**	**216**	**158**	**92.1**	**34.1**	**237**	**177**	**110**	**37.5**	**262**	**195**	**120**	**41.4**
	qwr	l/s	10.4	7.6	4.4	1.6	11.4	8.6	5.4	1.8	12.6	9.3	5.7	2.1
	dpwr	kPa	55	30	10	10	66	37	14	10	54	30	11	10
11	CC	kW	1411	1411	1411	1411	1497	1497	1497	1497	1755	1755	1755	1755
	PI	kW	429	429	429	429	443	443	443	443	541	541	541	541
	qw	l/s	67.4	67.4	67.4	67.4	71.6	71.6	71.6	71.6	83.9	83.9	83.9	83.9
	dpw	kPa	61	61	61	61	82	82	82	82	74	74	74	74
	HRC	**kW**	**225**	**168**	**104**	**35.7**	**248**	**188**	**124**	**39.4**	**273**	**206**	**134**	**43.3**
	qwr	l/s	10.8	8.2	5.0	1.8	12.0	9.2	6.0	2.0	13.2	9.9	6.6	2.1
	dpwr	kPa	60	34	13	10	73	42	18	10	59	34	14	10
13	CC	kW	1482	1482	1482	1482	1580	1580	1580	1580	1842	1842	1842	1842
	PI	kW	441	441	441	441	457	457	457	457	556	556	556	556
	qw	l/s	70.9	70.9	70.9	70.9	75.6	75.6	75.6	75.6	88.1	88.1	88.1	88.1
	dpw	kPa	67	67	67	67	90	90	90	90	81	81	81	81
	HRC	**kW**	**235**	**178**	**116**	**37.3**	**259**	**200**	**137**	**40.4**	**284**	**218**	**147**	**45.3**
	qwr	l/s	11.4	8.6	5.6	1.8	12.6	9.6	6.6	2.0	13.8	10.5	7.2	2.1
	dpwr	kPa	65	38	16	10	79	47	22	10	64	38	17	10
15	CC	kW	1555	1555	1555	1555	1664	1664	1664	1664	1932	1932	1932	1932
	PI	kW	454	454	454	454	471	471	471	471	572	572	572	572
	qw	l/s	74.5	74.5	74.5	74.5	79.7	79.7	79.7	79.7	92.5	92.5	92.5	92.5
	dpw	kPa	73	73	73	73	99	99	99	99	88	88	88	88
	HRC	**kW**	**244**	**188**	**127**	**39**	**271**	**212**	**150**	**73.6**	**295**	**230**	**160**	**68.3**
	qwr	l/s	11.8	9.0	6.2	1.8	13.0	10.2	7.2	3.6	14.1	11.1	7.8	3.3
	dpwr	kPa	71	42	19	10	87	53	27	10	69	42	20	10

EWAD C-XS

			C17				C18				C19			
Twout		**Twr**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**
5	CC	kW	1586	1586	1586	1586	1664	1664	1664	1664	1749	1749	1749	1749
	PI	kW	527	527	527	527	555	555	555	555	584	584	584	584
	qw	l/s	75.6	75.6	75.6	75.6	79.3	79.3	79.3	79.3	83.4	83.4	83.4	83.4
	dpw	kPa	61	61	61	61	61	61	61	61	67	67	67	67
	HRC	**kW**	**254**	**179**	**83.3**	**39.8**	**267**	**186**	**75.3**	**41.6**	**281**	**194**	**69.8**	**43.7**
	qwr	l/s	12.3	8.7	4.0	1.9	12.8	8.9	3.6	2.0	13.5	9.3	3.3	2.1
	dpwr	kPa	46	23	10	10	45	23	10	10	42	20	10	10
7	CC	kW	1674	1674	1674	1674	1756	1756	1756	1756	1846	1846	1846	1846
	PI	kW	542	542	542	542	571	571	571	571	600	600	600	600
	qw	l/s	79.8	79.8	79.8	79.8	83.8	83.8	83.8	83.8	88.1	88.1	88.1	88.1
	dpw	kPa	68	68	68	68	67	67	67	67	74	74	74	74
	HRC	**kW**	**266**	**192**	**104**	**41.7**	**279**	**199**	**101**	**43.7**	**294**	**208**	**100**	**45.9**
	qwr	l/s	12.7	9.4	5.0	1.9	13.4	9.5	4.9	2.0	14.1	9.9	4.8	2.1
	dpwr	kPa	50	27	10	10	49	26	10	10	45	23	10	10
9	CC	kW	1762	1762	1762	1762	1851	1851	1851	1851	1945	1945	1945	1945
	PI	kW	557	557	557	557	586	586	586	586	616	616	616	616
	qw	l/s	84.1	84.1	84.1	84.1	88.4	88.4	88.4	88.4	92.9	92.9	92.9	92.9
	dpw	kPa	74	74	74	74	74	74	74	74	81	81	81	81
	HRC	**kW**	**277**	**204**	**121**	**43.7**	**291**	**212**	**120**	**45.8**	**306**	**221**	**121**	**48.1**
	qwr	l/s	13.3	9.8	5.8	2.2	14.0	10.3	5.9	2.3	14.7	10.8	6.0	2.4
	dpwr	kPa	54	30	11	10	53	29	11	10	49	26	10	10
11	CC	kW	1852	1852	1852	1852	1948	1948	1948	1948	2046	2046	2046	2046
	PI	kW	572	572	572	572	602	602	602	602	632	632	632	632
	qw	l/s	88.5	88.5	88.5	88.5	93.1	93.1	93.1	93.1	97.8	97.8	97.8	97.8
	dpw	kPa	81	81	81	81	81	81	81	81	89	89	89	89
	HRC	**kW**	**289**	**216**	**136**	**45.7**	**303**	**225**	**137**	**47.9**	**319**	**235**	**140**	**50.4**
	qwr	l/s	13.9	10.4	6.7	2.2	14.6	10.9	6.7	2.3	15.3	11.4	6.9	2.4
	dpwr	kPa	59	34	14	10	58	33	14	10	54	29	10	10
13	CC	kW	1944	1944	1944	1944	2047	2047	2047	2047	2150	2150	2150	2150
	PI	kW	588	588	588	588	619	619	619	619	649	649	649	649
	qw	l/s	93.0	93.0	93.0	93.0	97.9	97.9	97.9	97.9	102.9	102.9	102.9	102.9
	dpw	kPa	89	89	89	89	89	89	89	89	97	97	97	97
	HRC	**kW**	**300**	**229**	**150**	**47.8**	**316**	**238**	**153**	**50.1**	**333**	**249**	**157**	**52.7**
	qwr	l/s	14.6	11.0	7.3	2.3	15.3	11.5	7.4	2.5	16.2	12.0	7.5	2.7
	dpwr	kPa	64	38	17	10	63	37	17	10	58	33	13	10
15	CC	kW	2038	2038	2038	2038	2148	2148	2148	2148	2256	2256	2256	2256
	PI	kW	604	604	604	604	636	636	636	636	667	667	667	667
	qw	l/s	97.6	97.6	97.6	97.6	102.8	102.8	102.8	102.8	108.0	108.0	108.0	108.0
	dpw	kPa	97	97	97	97	97	97	97	97	106	106	106	106
	HRC	**kW**	**312**	**241**	**164**	**63.9**	**329**	**252**	**169**	**59.3**	**346**	**263**	**174**	**55.1**
	qwr	l/s	15.2	11.6	8.0	3.1	15.9	12.1	8.2	2.9	16.8	12.6	8.4	2.7
	dpwr	kPa	69	42	20	10	68	41	20	10	63	37	16	10

Fluid: Water
Ta: Condenser inlet air temperature 35.0°C; Twout: Evaporator leaving water temperature (Δt 5.0°C);
Twr: Heat Recovery leaving water temperature (Δt 5.0°C)
CC: Cooling capacity; PI: Power input; qw: Fluid flow rate; dpw: Fluid pressure drop
HRC: Heat recovery capacity; qwr: Heat recovery fluid flow rate; dpwr: Heat recovery fluid pressure drop
** For working condition where dpw value is "Italic-Red Color" please contac factory*

EWAD C-XL

			760				830				890			
Twout		**Twr**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**
5	CC	kW	710	710	710	710	779	779	779	779	835	835	835	835
	PI	kW	230	230	230	230	250	250	250	250	274	274	274	274
	qw	l/s	33.8	33.8	33.8	33.8	37.1	37.1	37.1	37.1	39.8	39.8	39.8	39.8
	dpw	kPa	72	72	72	72	51	51	51	51	57	57	57	57
	HRC	**kW**	**107**	**73.7**	**28.4**	**16.6**	**103**	**68.5**	**26.8**	**15.9**	**118**	**82.4**	**35**	**18.4**
	qwr	l/s	5.2	3.6	1.4	0.8	5.0	3.3	1.2	0.7	5.8	4.0	1.6	0.8
	dpwr	kPa	29	14	10	10	36	17	10	10	36	17	10	10
7	CC	kW	751	751	751	751	825	825	825	825	883	883	883	883
	PI	kW	236	236	236	236	257	257	257	257	282	282	282	282
	qw	l/s	35.8	35.8	35.8	35.8	39.3	39.3	39.3	39.3	42.1	42.1	42.1	42.1
	dpw	kPa	80	80	80	80	56	56	56	56	63	63	63	63
	HRC	**kW**	**112**	**79.2**	**39.5**	**17.5**	**108**	**74**	**32.5**	**16.8**	**124**	**88.4**	**45.7**	**19.4**
	qwr	l/s	5.4	3.8	2.0	0.8	5.2	3.5	1.6	0.8	6.0	4.2	2.2	1.0
	dpwr	kPa	32	16	10	10	39	20	10	10	39	20	10	10
9	CC	kW	793	793	793	793	871	871	871	871	932	932	932	932
	PI	kW	243	243	243	243	264	264	264	264	290	290	290	290
	qw	l/s	37.9	37.9	37.9	37.9	41.6	41.6	41.6	41.6	44.5	44.5	44.5	44.5
	dpw	kPa	88	88	88	88	62	62	62	62	70	70	70	70
	HRC	**kW**	**117**	**84.7**	**47.5**	**18.3**	**113**	**79.5**	**37.1**	**17.6**	**129**	**94.5**	**54.3**	**20.4**
	qwr	l/s	5.6	4.0	2.4	0.8	5.4	3.9	1.8	0.9	6.2	4.6	2.6	1.0
	dpwr	kPa	35	18	10	10	43	23	10	10	43	23	10	10
11	CC	kW	835	835	835	835	916	916	916	916	977	977	977	977
	PI	kW	250	250	250	250	271	271	271	271	298	298	298	298
	qw	l/s	39.9	39.9	39.9	39.9	43.8	43.8	43.8	43.8	46.7	46.7	46.7	46.7
	dpw	kPa	97	97	97	97	68	68	68	68	76	76	76	76
	HRC	**kW**	**122**	**90**	**54.5**	**19.2**	**117**	**84.6**	**44.4**	**18.4**	**134**	**99.9**	**61.2**	**21.2**
	qwr	l/s	5.8	4.4	2.6	1.0	5.6	4.1	2.2	0.9	6.4	4.8	3.0	1.0
	dpwr	kPa	38	21	10	10	46	25	10	10	46	25	10	10
13	CC	kW	877	877	877	877	962	962	962	962	1022	1022	1022	1022
	PI	kW	257	257	257	257	278	278	278	278	305	305	305	305
	qw	l/s	42.0	42.0	42.0	42.0	46.0	46.0	46.0	46.0	48.9	48.9	48.9	48.9
	dpw	kPa	106	106	106	106	74	74	74	74	83	83	83	83
	HRC	**kW**	**127**	**95.4**	**61**	**20.1**	**122**	**89.8**	**52.4**	**19.3**	**140**	**105**	**67.6**	**22.1**
	qwr	l/s	6.2	4.6	3.0	1.0	5.9	4.3	2.5	0.9	6.8	5.0	3.2	1.0
	dpwr	kPa	41	23	10	10	50	28	12	10	50	28	12	10
15	CC	kW	920	920	920	920	1008	1008	1008	1008	1067	1067	1067	1067
	PI	kW	264	264	264	264	285	285	285	285	313	313	313	313
	qw	l/s	44.0	44.0	44.0	44.0	48.3	48.3	48.3	48.3	51.1	51.1	51.1	51.1
	dpw	kPa	115	115	115	115	81	81	81	81	90	90	90	90
	HRC	**kW**	**132**	**101**	**67.1**	**21**	**127**	**94.9**	**59.1**	**20.1**	**145**	**111**	**73.7**	**23**
	qwr	l/s	6.4	4.8	3.2	1.0	6.1	4.6	2.9	1.0	7.0	5.4	3.6	1.2
	dpwr	kPa	44	26	12	10	53	31	14	10	53	31	14	10

EWAD C-XL

			990				C10				C11			
Twout		**Twr**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**
5	CC	kW	938	938	938	938	1007	1007	1007	1007	1123	1123	1123	1123
	PI	kW	303	303	303	303	333	333	333	333	360	360	360	360
	qw	l/s	44.7	44.7	44.7	44.7	48.0	48.0	48.0	48.0	53.5	53.5	53.5	53.5
	dpw	kPa	54	54	54	54	61	61	61	61	40	40	40	40
	HRC	**kW**	**136**	**94.1**	**42.1**	**21.2**	**162**	**116**	**61.1**	**25.4**	**167**	**112**	**45.2**	**25.9**
	qwr	l/s	6.6	4.5	2.1	1.0	7.8	5.6	3.0	1.2	8.1	5.5	2.2	1.3
	dpwr	kPa	47	24	10	10	47	24	10	10	46	23	10	10
7	CC	kW	994	994	994	994	1066	1066	1066	1066	1188	1188	1188	1188
	PI	kW	312	312	312	312	343	343	343	343	369	369	369	369
	qw	l/s	47.4	47.4	47.4	47.4	50.9	50.9	50.9	50.9	56.7	56.7	56.7	56.7
	dpw	kPa	60	60	60	60	68	68	68	68	45	45	45	45
	HRC	**kW**	**143**	**101**	**48.3**	**22.4**	**170**	**125**	**72.5**	**26.8**	**175**	**121**	**54.1**	**27.3**
	qwr	l/s	6.9	4.9	2.4	1.0	8.2	6.0	3.6	1.2	8.4	5.9	2.6	1.3
	dpwr	kPa	51	28	10	10	51	28	10	10	51	26	10	10
9	CC	kW	1052	1052	1052	1052	1127	1127	1127	1127	1255	1255	1255	1255
	PI	kW	321	321	321	321	354	354	354	354	380	380	380	380
	qw	l/s	50.2	50.2	50.2	50.2	53.8	53.8	53.8	53.8	59.9	59.9	59.9	59.9
	dpw	kPa	67	67	67	67	75	75	75	75	49	49	49	49
	HRC	**kW**	**150**	**109**	**59.1**	**23.5**	**178**	**133**	**82.9**	**28.1**	**183**	**130**	**61.6**	**28.6**
	qwr	l/s	7.2	5.2	2.9	1.2	8.6	6.4	4.0	1.4	8.8	6.2	3.0	1.4
	dpwr	kPa	56	31	12	10	56	31	12	10	55	30	10	10
11	CC	kW	1109	1109	1109	1109	1186	1186	1186	1186	1323	1323	1323	1323
	PI	kW	330	330	330	330	364	364	364	364	390	390	390	390
	qw	l/s	53.0	53.0	53.0	53.0	56.7	56.7	56.7	56.7	63.2	63.2	63.2	63.2
	dpw	kPa	74	74	74	74	83	83	83	83	54	54	54	54
	HRC	**kW**	**156**	**116**	**69.5**	**24.7**	**186**	**141**	**92.5**	**29.5**	**191**	**138**	**75**	**30**
	qwr	l/s	7.6	5.6	3.3	1.2	9.0	6.8	4.4	1.4	9.2	6.7	3.6	1.5
	dpwr	kPa	61	35	15	10	61	35	15	10	60	34	13	10
13	CC	kW	1169	1169	1169	1169	1247	1247	1247	1247	1392	1392	1392	1392
	PI	kW	340	340	340	340	374	374	374	374	400	400	400	400
	qw	l/s	55.9	55.9	55.9	55.9	59.7	59.7	59.7	59.7	66.6	66.6	66.6	66.6
	dpw	kPa	81	81	81	81	91	91	91	91	60	60	60	60
	HRC	**kW**	**163**	**123**	**78.6**	**25.9**	**193**	**149**	**102**	**30.9**	**199**	**147**	**87.7**	**31.4**
	qwr	l/s	7.9	5.9	3.8	1.2	9.4	7.2	5.0	1.4	9.6	7.1	4.2	1.5
	dpwr	kPa	66	40	18	10	66	40	18	10	65	38	16	10
15	CC	kW	1228	1228	1228	1228	1308	1308	1308	1308	1462	1462	1462	1462
	PI	kW	350	350	350	350	385	385	385	385	411	411	411	411
	qw	l/s	58.8	58.8	58.8	58.8	62.6	62.6	62.6	62.6	70.0	70.0	70.0	70.0
	dpw	kPa	88	88	88	88	99	99	99	99	65	65	65	65
	HRC	**kW**	**170**	**130**	**87**	**36.8**	**201**	**157**	**111**	**51.7**	**207**	**156**	**98.8**	**32.9**
	qwr	l/s	8.3	6.3	4.2	1.8	9.8	7.6	5.4	2.6	10.0	7.5	4.8	1.6
	dpwr	kPa	72	44	22	10	72	44	22	10	71	42	19	10

EWAD C-XL

			C12				C13				C16			
Twout		**Twr**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**
5	CC	kW	1203	1203	1203	1203	1261	1261	1261	1261	1500	1500	1500	1500
	PI	kW	395	395	395	395	404	404	404	404	497	497	497	497
	qw	l/s	57.3	57.3	57.3	57.3	60.1	60.1	60.1	60.1	71.5	71.5	71.5	71.5
	dpw	kPa	46	46	46	46	60	60	60	60	55	55	55	55
	HRC	**kW**	**198**	**139**	**61.6**	**30.9**	**216**	**154**	**79.8**	**33.8**	**240**	**171**	**88.5**	**37.6**
	qwr	l/s	9.6	6.8	3.0	1.6	10.4	7.4	3.8	1.6	11.7	8.4	4.2	1.8
	dpwr	kPa	46	23	10	10	55	28	10	10	46	23	10	10
7	CC	kW	1271	1271	1271	1271	1339	1339	1339	1339	1585	1585	1585	1585
	PI	kW	407	407	407	407	417	417	417	417	512	512	512	512
	qw	l/s	60.6	60.6	60.6	60.6	63.9	63.9	63.9	63.9	75.6	75.6	75.6	75.6
	dpw	kPa	51	51	51	51	67	67	67	67	61	61	61	61
	HRC	**kW**	**207**	**148**	**78.2**	**32.5**	**226**	**165**	**95.9**	**35.6**	**251**	**183**	**105**	**39.5**
	qwr	l/s	10.0	7.2	3.8	1.6	11.0	8.0	4.6	1.8	12.0	9.0	5.1	1.8
	dpwr	kPa	51	26	10	10	61	32	11	10	50	27	10	10
9	CC	kW	1341	1341	1341	1341	1417	1417	1417	1417	1669	1669	1669	1669
	PI	kW	418	418	418	418	429	429	429	429	526	526	526	526
	qw	l/s	64.0	64.0	64.0	64.0	67.7	67.7	67.7	67.7	79.7	79.7	79.7	79.7
	dpw	kPa	56	56	56	56	74	74	74	74	67	67	67	67
	HRC	**kW**	**216**	**158**	**92.1**	**34.1**	**237**	**177**	**110**	**37.5**	**262**	**195**	**120**	**41.4**
	qwr	l/s	10.4	7.6	4.4	1.6	11.4	8.6	5.4	1.8	12.6	9.3	5.7	2.1
	dpwr	kPa	55	30	10	10	66	37	14	10	54	30	11	10
11	CC	kW	1411	1411	1411	1411	1497	1497	1497	1497	1755	1755	1755	1755
	PI	kW	429	429	429	429	443	443	443	443	541	541	541	541
	qw	l/s	67.4	67.4	67.4	67.4	71.6	71.6	71.6	71.6	83.9	83.9	83.9	83.9
	dpw	kPa	61	61	61	61	82	82	82	82	74	74	74	74
	HRC	**kW**	**225**	**168**	**104**	**35.7**	**248**	**188**	**124**	**39.4**	**273**	**206**	**134**	**43.3**
	qwr	l/s	10.8	8.2	5.0	1.8	12.0	9.2	6.0	2.0	13.2	9.9	6.6	2.1
	dpwr	kPa	60	34	13	10	73	42	18	10	59	34	14	10
13	CC	kW	1482	1482	1482	1482	1580	1580	1580	1580	1842	1842	1842	1842
	PI	kW	441	441	441	441	457	457	457	457	556	556	556	556
	qw	l/s	70.9	70.9	70.9	70.9	75.6	75.6	75.6	75.6	88.1	88.1	88.1	88.1
	dpw	kPa	67	67	67	67	90	90	90	90	81	81	81	81
	HRC	**kW**	**235**	**178**	**116**	**37.3**	**259**	**200**	**137**	**40.4**	**284**	**218**	**147**	**45.3**
	qwr	l/s	11.4	8.6	5.6	1.8	12.6	9.6	6.6	2.0	13.8	10.5	7.2	2.1
	dpwr	kPa	65	38	16	10	79	47	22	10	64	38	17	10
15	CC	kW	1555	1555	1555	1555	1664	1664	1664	1664	1932	1932	1932	1932
	PI	kW	454	454	454	454	471	471	471	471	572	572	572	572
	qw	l/s	74.5	74.5	74.5	74.5	79.7	79.7	79.7	79.7	92.5	92.5	92.5	92.5
	dpw	kPa	73	73	73	73	99	99	99	99	88	88	88	88
	HRC	**kW**	**244**	**188**	**127**	**39**	**271**	**212**	**150**	**73.6**	**295**	**230**	**160**	**68.3**
	qwr	l/s	11.8	9.0	6.2	1.8	13.0	10.2	7.2	3.6	14.1	11.1	7.8	3.3
	dpwr	kPa	71	42	19	10	87	53	27	10	69	42	20	10

EWAD C-XL

			C17				C18				C19			
Twout		**Twr**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**
5	CC	kW	1586	1586	1586	1586	1664	1664	1664	1664	1749	1749	1749	1749
	PI	kW	527	527	527	527	555	555	555	555	584	584	584	584
	qw	l/s	75.6	75.6	75.6	75.6	79.3	79.3	79.3	79.3	83.4	83.4	83.4	83.4
	dpw	kPa	61	61	61	61	61	61	61	61	67	67	67	67
	HRC	**kW**	**254**	**179**	**83.3**	**39.8**	**267**	**186**	**75.3**	**41.6**	**281**	**194**	**69.8**	**43.7**
	qwr	l/s	12.3	8.7	4.0	1.9	12.8	8.9	3.6	2.0	13.5	9.3	3.3	2.1
	dpwr	kPa	46	23	10	10	45	23	10	10	42	20	10	10
7	CC	kW	1674	1674	1674	1674	1756	1756	1756	1756	1846	1846	1846	1846
	PI	kW	542	542	542	542	571	571	571	571	600	600	600	600
	qw	l/s	79.8	79.8	79.8	79.8	83.8	83.8	83.8	83.8	88.1	88.1	88.1	88.1
	dpw	kPa	68	68	68	68	67	67	67	67	74	74	74	74
	HRC	**kW**	**266**	**192**	**104**	**41.7**	**279**	**199**	**101**	**43.7**	**294**	**208**	**100**	**45.9**
	qwr	l/s	12.7	9.4	5.0	1.9	13.4	9.5	4.9	2.0	14.1	9.9	4.8	2.1
	dpwr	kPa	50	27	10	10	49	26	10	10	45	23	10	10
9	CC	kW	1762	1762	1762	1762	1851	1851	1851	1851	1945	1945	1945	1945
	PI	kW	557	557	557	557	586	586	586	586	616	616	616	616
	qw	l/s	84.1	84.1	84.1	84.1	88.4	88.4	88.4	88.4	92.9	92.9	92.9	92.9
	dpw	kPa	74	74	74	74	74	74	74	74	81	81	81	81
	HRC	**kW**	**277**	**204**	**121**	**43.7**	**291**	**212**	**120**	**45.8**	**306**	**221**	**121**	**48.1**
	qwr	l/s	13.3	9.8	5.8	2.2	14.0	10.3	5.9	2.3	14.7	10.8	6.0	2.4
	dpwr	kPa	54	30	11	10	53	29	11	10	49	26	10	10
11	CC	kW	1852	1852	1852	1852	1948	1948	1948	1948	2046	2046	2046	2046
	PI	kW	572	572	572	572	602	602	602	602	632	632	632	632
	qw	l/s	88.5	88.5	88.5	88.5	93.1	93.1	93.1	93.1	97.8	97.8	97.8	97.8
	dpw	kPa	81	81	81	81	81	81	81	81	89	89	89	89
	HRC	**kW**	**289**	**216**	**136**	**45.7**	**303**	**225**	**137**	**47.9**	**319**	**235**	**140**	**50.4**
	qwr	l/s	13.9	10.4	6.7	2.2	14.6	10.9	6.7	2.3	15.3	11.4	6.9	2.4
	dpwr	kPa	59	34	14	10	58	33	14	10	54	29	10	10
13	CC	kW	1944	1944	1944	1944	2047	2047	2047	2047	2150	2150	2150	2150
	PI	kW	588	588	588	588	619	619	619	619	649	649	649	649
	qw	l/s	93.0	93.0	93.0	93.0	97.9	97.9	97.9	97.9	102.9	102.9	102.9	102.9
	dpw	kPa	89	89	89	89	89	89	89	89	97	97	97	97
	HRC	**kW**	**300**	**229**	**150**	**47.8**	**316**	**238**	**153**	**50.1**	**333**	**249**	**157**	**52.7**
	qwr	l/s	14.6	11.0	7.3	2.3	15.3	11.5	7.4	2.5	16.2	12.0	7.5	2.7
	dpwr	kPa	64	38	17	10	63	37	17	10	58	33	13	10
15	CC	kW	2038	2038	2038	2038	2148	2148	2148	2148	2256	2256	2256	2256
	PI	kW	604	604	604	604	636	636	636	636	667	667	667	667
	qw	l/s	97.6	97.6	97.6	97.6	102.8	102.8	102.8	102.8	108.0	108.0	108.0	108.0
	dpw	kPa	97	97	97	97	97	97	97	97	106	106	106	106
	HRC	**kW**	**312**	**241**	**164**	**63.9**	**329**	**252**	**169**	**59.3**	**346**	**263**	**174**	**55.1**
	qwr	l/s	15.2	11.6	8.0	3.1	15.9	12.1	8.2	2.9	16.8	12.6	8.4	2.7
	dpwr	kPa	69	42	20	10	68	41	20	10	63	37	16	10

Fluid: Water
Ta: Condenser inlet air temperature 35.0°C; Twout: Evaporator leaving water temperature (Δt 5.0°C);
Twr: Heat Recovery leaving water temperature (Δt 5.0°C)
CC: Cooling capacity; PI: Power input; qw: Fluid flow rate; dpw: Fluid pressure drop
HRC: Heat recovery capacity; qwr: Heat recovery fluid flow rate; dpwr: Heat recovery fluid pressure drop
** For working condition where dpw value is "Italic-Red Color" please contac factory*

EWAD C-XR

			740				810				870			
Twout		**Twr**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**
5	CC	kW	691	691	691	691	761	761	761	761	813	813	813	813
	PI	kW	231	231	231	231	250	250	250	250	277	277	277	277
	qw	l/s	32.9	32.9	32.9	32.9	36.3	36.3	36.3	36.3	38.8	38.8	38.8	38.8
	dpw	kPa	69	69	69	69	48	48	48	48	55	55	55	55
	HRC	**kW**	**126**	**94.8**	**60.6**	**20**	**122**	**89.7**	**52.4**	**19.2**	**140**	**106**	**68.7**	**22.2**
	qwr	l/s	6.0	4.6	3.0	1.0	5.9	4.4	2.6	0.9	6.8	5.2	3.4	1.0
	dpwr	kPa	40	23	10	10	50	29	12	10	50	29	12	10
7	CC	kW	730	730	730	730	805	805	805	805	859	859	859	859
	PI	kW	238	238	238	238	258	258	258	258	286	286	286	286
	qw	l/s	34.8	34.8	34.8	34.8	38.4	38.4	38.4	38.4	41.0	41.0	41.0	41.0
	dpw	kPa	76	76	76	76	54	54	54	54	60	60	60	60
	HRC	**kW**	**132**	**101**	**67.6**	**21**	**127**	**95.6**	**60.1**	**20.2**	**146**	**112**	**76.2**	**23.3**
	qwr	l/s	6.4	4.8	3.2	1.0	6.1	4.6	2.9	1.0	7.0	5.4	3.6	1.2
	dpwr	kPa	44	26	12	10	54	32	15	10	54	32	15	10
9	CC	kW	770	770	770	770	849	849	849	849	905	905	905	905
	PI	kW	246	246	246	246	266	266	266	266	295	295	295	295
	qw	l/s	36.8	36.8	36.8	36.8	40.5	40.5	40.5	40.5	43.2	43.2	43.2	43.2
	dpw	kPa	84	84	84	84	59	59	59	59	66	66	66	66
	HRC	**kW**	**137**	**107**	**74.4**	**31.3**	**133**	**102**	**67.3**	**28.1**	**153**	**119**	**83.7**	**38.3**
	qwr	l/s	6.6	5.2	3.6	1.6	6.4	4.9	3.2	1.3	7.4	5.8	4.0	1.8
	dpwr	kPa	48	29	14	10	59	36	18	10	59	36	18	10
11	CC	kW	810	810	810	810	894	894	894	894	951	951	951	951
	PI	kW	254	254	254	254	274	274	274	274	305	305	305	305
	qw	l/s	38.7	38.7	38.7	38.7	42.7	42.7	42.7	42.7	45.5	45.5	45.5	45.5
	dpw	kPa	92	92	92	92	65	65	65	65	73	73	73	73
	HRC	**kW**	**143**	**113**	**81.1**	**42.9**	**139**	**108**	**74.1**	**34.3**	**159**	**126**	**90.8**	**49.8**
	qwr	l/s	7.0	5.4	4.0	2.0	6.7	5.2	3.6	1.7	7.6	6.0	4.4	2.4
	dpwr	kPa	52	33	17	10	64	40	21	10	64	40	21	10
13	CC	kW	850	850	850	850	937	937	937	937	993	993	993	993
	PI	kW	262	262	262	262	283	283	283	283	314	314	314	314
	qw	l/s	40.6	40.6	40.6	40.6	44.8	44.8	44.8	44.8	47.5	47.5	47.5	47.5
	dpw	kPa	100	100	100	100	71	71	71	71	79	79	79	79
	HRC	**kW**	**149**	**119**	**87.5**	**51.8**	**144**	**113**	**80.5**	**39**	**165**	**132**	**97.2**	**58.3**
	qwr	l/s	7.2	5.8	4.2	2.6	7.0	5.5	3.9	1.9	8.0	6.4	4.8	2.8
	dpwr	kPa	57	36	20	10	69	44	24	10	69	44	24	10
15	CC	kW	890	890	890	890	981	981	981	981	1036	1036	1036	1036
	PI	kW	270	270	270	270	291	291	291	291	323	323	323	323
	qw	l/s	42.6	42.6	42.6	42.6	47.0	47.0	47.0	47.0	49.6	49.6	49.6	49.6
	dpw	kPa	109	109	109	109	77	77	77	77	85	85	85	85
	HRC	**kW**	**155**	**125**	**93.9**	**59.6**	**150**	**119**	**86.7**	**47.7**	**171**	**138**	**104**	**66.1**
	qwr	l/s	7.4	6.0	4.6	2.8	7.2	5.7	4.2	2.3	8.2	6.6	5.0	3.2
	dpwr	kPa	61	40	23	10	74	48	27	11	74	48	27	11

EWAD C-XR

			970				C10				C11			
Twout		**Twr**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**
5	CC	kW	913	913	913	913	976	976	976	976	1096	1096	1096	1096
	PI	kW	304	304	304	304	338	338	338	338	360	360	360	360
	qw	l/s	43.5	43.5	43.5	43.5	46.5	46.5	46.5	46.5	52.2	52.2	52.2	52.2
	dpw	kPa	52	52	52	52	58	58	58	58	39	39	39	39
	HRC	**kW**	**161**	**121**	**76.6**	**25.5**	**191**	**147**	**100**	**30.5**	**198**	**146**	**87**	**31.3**
	qwr	l/s	7.8	5.9	3.7	1.2	9.2	7.2	4.8	1.4	9.6	7.1	4.2	1.5
	dpwr	kPa	65	38	18	10	65	38	18	10	65	37	16	10
7	CC	kW	966	966	966	966	1031	1031	1031	1031	1159	1159	1159	1159
	PI	kW	314	314	314	314	349	349	349	349	371	371	371	371
	qw	l/s	46.1	46.1	46.1	46.1	49.2	49.2	49.2	49.2	55.3	55.3	55.3	55.3
	dpw	kPa	57	57	57	57	64	64	64	64	43	43	43	43
	HRC	**kW**	**168**	**129**	**86**	**37.1**	**200**	**156**	**110**	**52.4**	**207**	**156**	**99.3**	**32.9**
	qwr	l/s	8.1	6.3	4.2	1.8	9.6	7.6	5.4	2.6	10.0	7.6	4.8	1.5
	dpwr	kPa	71	43	22	10	71	43	22	10	71	42	20	10
9	CC	kW	1020	1020	1020	1020	1088	1088	1088	1088	1222	1222	1222	1222
	PI	kW	325	325	325	325	361	361	361	361	383	383	383	383
	qw	l/s	48.7	48.7	48.7	48.7	52.0	52.0	52.0	52.0	58.4	58.4	58.4	58.4
	dpw	kPa	63	63	63	63	71	71	71	71	47	47	47	47
	HRC	**kW**	**176**	**137**	**95**	**45.2**	**209**	**165**	**120**	**67.6**	**216**	**166**	**111**	**47.4**
	qwr	l/s	8.5	6.6	4.6	2.2	10.0	8.0	5.8	3.2	10.5	8.0	5.4	2.3
	dpwr	kPa	77	49	26	10	77	49	26	10	77	47	24	10
11	CC	kW	1075	1075	1075	1075	1145	1145	1145	1145	1287	1287	1287	1287
	PI	kW	336	336	336	336	374	374	374	374	395	395	395	395
	qw	l/s	51.4	51.4	51.4	51.4	54.7	54.7	54.7	54.7	61.5	61.5	61.5	61.5
	dpw	kPa	69	69	69	69	78	78	78	78	52	52	52	52
	HRC	**kW**	**184**	**145**	**104**	**52.1**	**218**	**175**	**130**	**80.2**	**226**	**175**	**122**	**57.4**
	qwr	l/s	8.9	7.0	5.0	2.5	10.6	8.4	6.3	3.8	10.9	8.5	5.9	2.8
	dpwr	kPa	84	54	30	12	84	54	30	12	84	53	28	10
13	CC	kW	1130	1130	1130	1130	1201	1201	1201	1201	1352	1352	1352	1352
	PI	kW	347	347	347	347	386	386	386	386	407	407	407	407
	qw	l/s	54.1	54.1	54.1	54.1	57.4	57.4	57.4	57.4	64.7	64.7	64.7	64.7
	dpw	kPa	76	76	76	76	85	85	85	85	57	57	57	57
	HRC	**kW**	**192**	**153**	**113**	**65**	**227**	**184**	**140**	**91.6**	**235**	**185**	**132**	**65.7**
	qwr	l/s	9.3	7.4	5.5	3.1	11.0	8.8	6.8	4.4	11.4	9.0	6.4	3.1
	dpwr	kPa	91	60	35	15	91	60	35	15	91	58	32	12
15	CC	kW	1186	1186	1186	1186	1258	1258	1258	1258	1418	1418	1418	1418
	PI	kW	358	358	358	358	399	399	399	399	420	420	420	420
	qw	l/s	56.8	56.8	56.8	56.8	60.2	60.2	60.2	60.2	67.9	67.9	67.9	67.9
	dpw	kPa	83	83	83	83	92	92	92	92	62	62	62	62
	HRC	**kW**	**199**	**161**	**121**	**76.6**	**236**	**193**	**149**	**102**	**244**	**195**	**143**	**81.4**
	qwr	l/s	9.6	7.8	5.9	3.7	11.4	9.4	7.2	5.0	11.8	9.4	7.0	4.0
	dpwr	kPa	98	66	40	19	99	66	40	19	98	64	37	16

EWAD C-XR

			C12				C13				C16			
Twout		**Twr**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**
5	CC	kW	1171	1171	1171	1171	1218	1218	1218	1218	1456	1456	1456	1456
	PI	kW	399	399	399	399	407	407	407	407	504	504	504	504
	qw	l/s	55.8	55.8	55.8	55.8	58.0	58.0	58.0	58.0	69.4	69.4	69.4	69.4
	dpw	kPa	43	43	43	43	56	56	56	56	53	53	53	53
	HRC	**kW**	**234**	**178**	**116**	**37.2**	**252**	**194**	**131**	**40.2**	**283**	**218**	**147**	**45.2**
	qwr	l/s	11.4	8.6	5.6	1.8	12.2	9.4	6.4	2.0	13.8	10.5	7.2	2.1
	dpwr	kPa	65	37	16	10	75	44	20	10	63	37	17	10
7	CC	kW	1237	1237	1237	1237	1290	1290	1290	1290	1536	1536	1536	1536
	PI	kW	412	412	412	412	421	421	421	421	520	520	520	520
	qw	l/s	59.0	59.0	59.0	59.0	61.5	61.5	61.5	61.5	73.3	73.3	73.3	73.3
	dpw	kPa	48	48	48	48	63	63	63	63	58	58	58	58
	HRC	**kW**	**245**	**189**	**129**	**39.1**	**264**	**206**	**145**	**67.3**	**296**	**231**	**162**	**74.5**
	qwr	l/s	11.8	9.2	6.2	1.8	12.8	10.0	7.0	3.2	14.4	11.1	7.8	3.6
	dpwr	kPa	71	42	20	10	82	50	25	10	69	42	21	10
9	CC	kW	1302	1302	1302	1302	1363	1363	1363	1363	1616	1616	1616	1616
	PI	kW	425	425	425	425	436	436	436	436	537	537	537	537
	qw	l/s	62.2	62.2	62.2	62.2	65.1	65.1	65.1	65.1	77.2	77.2	77.2	77.2
	dpw	kPa	53	53	53	53	69	69	69	69	64	64	64	64
	HRC	**kW**	**255**	**200**	**141**	**66.9**	**276**	**219**	**159**	**88.7**	**308**	**244**	**176**	**96.7**
	qwr	l/s	12.4	9.6	6.8	3.2	13.4	10.6	7.6	4.4	15.0	11.7	8.4	4.8
	dpwr	kPa	77	47	24	10	90	57	30	10	75	47	25	10
11	CC	kW	1369	1369	1369	1369	1437	1437	1437	1437	1696	1696	1696	1696
	PI	kW	439	439	439	439	452	452	452	452	554	554	554	554
	qw	l/s	65.4	65.4	65.4	65.4	68.7	68.7	68.7	68.7	81.1	81.1	81.1	81.1
	dpw	kPa	58	58	58	58	76	76	76	76	70	70	70	70
	HRC	**kW**	**266**	**211**	**153**	**85.3**	**289**	**232**	**172**	**106**	**321**	**257**	**190**	**115**
	qwr	l/s	12.8	10.2	7.4	4.2	14.0	11.2	8.4	5.2	15.6	12.3	9.3	5.7
	dpwr	kPa	84	53	28	10	99	64	35	13	81	52	29	11
13	CC	kW	1436	1436	1436	1436	1513	1513	1513	1513	1777	1777	1777	1777
	PI	kW	453	453	453	453	468	468	468	468	572	572	572	572
	qw	l/s	68.7	68.7	68.7	68.7	72.4	72.4	72.4	72.4	85.0	85.0	85.0	85.0
	dpw	kPa	63	63	63	63	84	84	84	84	76	76	76	76
	HRC	**kW**	**277**	**222**	**165**	**101**	**301**	**245**	**186**	**122**	**333**	**270**	**204**	**132**
	qwr	l/s	13.4	10.8	8.0	4.8	14.6	11.8	9.0	6.0	16.2	12.9	9.9	6.3
	dpwr	kPa	91	58	32	12	*107*	71	41	18	88	58	33	14
15	CC	kW	1503	1503	1503	1503	1590	1590	1590	1590	1860	1860	1860	1860
	PI	kW	467	467	467	467	485	485	485	485	591	591	591	591
	qw	l/s	72.0	72.0	72.0	72.0	76.1	76.1	76.1	76.1	89.0	89.0	89.0	89.0
	dpw	kPa	69	69	69	69	92	92	92	92	82	82	82	82
	HRC	**kW**	**288**	**233**	**176**	**115**	**314**	**258**	**200**	**138**	**346**	**283**	**218**	**147**
	qwr	l/s	13.8	11.2	8.6	5.6	15.2	12.4	9.6	6.6	16.8	13.8	10.5	7.2
	dpwr	kPa	98	64	37	16	*117*	79	47	23	95	63	38	17

EWAD C-XR

			C17				C18				C19			
Twout		**Twr**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**
5	CC	kW	1542	1542	1542	1542	1620	1620	1620	1620	1707	1707	1707	1707
	PI	kW	533	533	533	533	558	558	558	558	588	588	588	588
	qw	l/s	73.5	73.5	73.5	73.5	77.2	77.2	77.2	77.2	81.3	81.3	81.3	81.3
	dpw	kPa	58	58	58	58	58	58	58	58	64	64	64	64
	HRC	**kW**	**301**	**229**	**152**	**47.9**	**316**	**239**	**155**	**50.1**	**334**	**251**	**160**	**52.9**
	qwr	l/s	14.6	11.1	7.4	2.3	15.3	11.5	7.5	2.5	16.2	12.0	7.8	2.7
	dpwr	kPa	63	38	17	10	62	37	17	10	59	33	13	10
7	CC	kW	1625	1625	1625	1625	1708	1708	1708	1708	1798	1798	1798	1798
	PI	kW	550	550	550	550	576	576	576	576	607	607	607	607
	qw	l/s	77.5	77.5	77.5	77.5	81.5	81.5	81.5	81.5	85.8	85.8	85.8	85.8
	dpw	kPa	64	64	64	64	64	64	64	64	70	70	70	70
	HRC	**kW**	**314**	**243**	**168**	**68.3**	**329**	**253**	**171**	**60.7**	**348**	**266**	**177**	**55.4**
	qwr	l/s	15.2	11.7	8.1	3.3	15.9	12.3	8.4	3.0	16.8	12.9	8.7	2.7
	dpwr	kPa	69	42	21	10	68	41	20	10	64	37	17	10
9	CC	kW	1709	1709	1709	1709	1797	1797	1797	1797	1892	1892	1892	1892
	PI	kW	568	568	568	568	594	594	594	594	626	626	626	626
	qw	l/s	81.6	81.6	81.6	81.6	85.8	85.8	85.8	85.8	90.4	90.4	90.4	90.4
	dpw	kPa	70	70	70	70	70	70	70	70	77	77	77	77
	HRC	**kW**	**327**	**257**	**183**	**89.7**	**343**	**268**	**188**	**81**	**363**	**281**	**195**	**74.5**
	qwr	l/s	15.9	12.4	8.8	4.4	16.5	12.9	9.0	3.9	17.4	13.5	9.3	3.6
	dpwr	kPa	75	47	25	10	74	46	24	10	69	42	20	10
11	CC	kW	1793	1793	1793	1793	1888	1888	1888	1888	1988	1988	1988	1988
	PI	kW	586	586	586	586	613	613	613	613	645	645	645	645
	qw	l/s	85.7	85.7	85.7	85.7	90.2	90.2	90.2	90.2	95.0	95.0	95.0	95.0
	dpw	kPa	77	77	77	77	77	77	77	77	84	84	84	84
	HRC	**kW**	**340**	**270**	**197**	**113**	**358**	**282**	**203**	**109**	**378**	**297**	**211**	**108**
	qwr	l/s	16.5	13.0	9.6	5.6	17.3	13.7	9.8	5.2	18.3	14.4	10.2	5.1
	dpwr	kPa	81	52	29	11	80	51	28	10	75	46	24	10
13	CC	kW	1879	1879	1879	1879	1980	1980	1980	1980	2085	2085	2085	2085
	PI	kW	604	604	604	604	633	633	633	633	665	665	665	665
	qw	l/s	89.9	89.9	89.9	89.9	94.7	94.7	94.7	94.7	99.7	99.7	99.7	99.7
	dpw	kPa	84	84	84	84	84	84	84	84	92	92	92	92
	HRC	**kW**	**354**	**284**	**212**	**132**	**372**	**297**	**219**	**131**	**393**	**313**	**228**	**132**
	qwr	l/s	17.1	13.8	10.3	6.3	17.9	14.3	10.7	6.3	18.9	15.0	11.1	6.3
	dpwr	kPa	88	58	33	14	87	57	32	13	81	51	28	10
15	CC	kW	1966	1966	1966	1966	2074	2074	2074	2074	2184	2184	2184	2184
	PI	kW	623	623	623	623	653	653	653	653	686	686	686	686
	qw	l/s	94.1	94.1	94.1	94.1	99.3	99.3	99.3	99.3	104.6	104.6	104.6	104.6
	dpw	kPa	91	91	91	91	91	91	91	91	100	100	100	100
	HRC	**kW**	**367**	**298**	**227**	**149**	**387**	**312**	**235**	**151**	**408**	**328**	**245**	**153**
	qwr	l/s	17.8	14.5	11.0	7.3	18.7	15.1	11.5	7.4	19.8	15.9	12.0	7.5
	dpwr	kPa	95	63	38	17	94	63	37	17	88	57	32	12

Fluid: Water
Ta: Condenser inlet air temperature 35.0°C; Twout: Evaporator leaving water temperature (Δt 5.0°C);
Twr: Heat Recovery leaving water temperature (Δt 5.0°C)
CC: Cooling capacity; PI: Power input; qw: Fluid flow rate; dpw: Fluid pressure drop
HRC: Heat recovery capacity; qwr: Heat recovery fluid flow rate; dpwr: Heat recovery fluid pressure drop
** For working condition where dpw value is "Italic-Red Color" please contac factory*

EWAD C-PS

			820				890				980			
Twout		**Twr**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**
5	CC	kW	768	768	768	768	833	833	833	833	911	911	911	911
	PI	kW	224	224	224	224	246	246	246	246	271	271	271	271
	qw	l/s	36.6	36.6	36.6	36.6	39.7	39.7	39.7	39.7	43.4	43.4	43.4	43.4
	dpw	kPa	51	51	51	51	59	59	59	59	27	27	27	27
	HRC	**kW**	**73.7**	**32.1**	**16.5**	**11.2**	**81.2**	**43**	**17.7**	**12.4**	**97**	**58.6**	**20.7**	**14.9**
	qwr	l/s	3.6	1.6	0.8	0.6	3.9	2.1	0.9	0.7	4.6	2.8	1.0	0.8
	dpwr	kPa	14	10	10	10	23	10	10	10	24	10	10	10
7	CC	kW	816	816	816	816	885	885	885	885	969	969	969	969
	PI	kW	229	229	229	229	253	253	253	253	278	278	278	278
	qw	l/s	38.9	38.9	38.9	38.9	42.2	42.2	42.2	42.2	46.2	46.2	46.2	46.2
	dpw	kPa	57	57	57	57	66	66	66	66	30	30	30	30
	HRC	**kW**	**77.7**	**39.2**	**17.1**	**11.8**	**85.5**	**49.2**	**18.4**	**13.1**	**102**	**64.7**	**21.5**	**15.7**
	qwr	l/s	3.8	1.8	0.8	0.6	4.1	2.4	0.9	0.7	5.0	3.2	1.0	0.8
	dpwr	kPa	15	10	10	10	25	10	10	10	27	11	10	10
9	CC	kW	866	866	866	866	938	938	938	938	1028	1028	1028	1028
	PI	kW	235	235	235	235	259	259	259	259	286	286	286	286
	qw	l/s	41.4	41.4	41.4	41.4	44.8	44.8	44.8	44.8	49.1	49.1	49.1	49.1
	dpw	kPa	63	63	63	63	73	73	73	73	34	34	34	34
	HRC	**kW**	**81.7**	**45.2**	**17.7**	**12.5**	**89.7**	**54.8**	**19.1**	**13.8**	**107**	**70.7**	**22.4**	**16.6**
	qwr	l/s	4.0	2.2	0.8	0.6	4.3	2.6	0.9	0.7	5.2	3.4	1.0	0.8
	dpwr	kPa	17	10	10	10	28	12	10	10	29	13	10	10
11	CC	kW	918	918	918	918	993	993	993	993	1090	1090	1090	1090
	PI	kW	241	241	241	241	266	266	266	266	294	294	294	294
	qw	l/s	43.9	43.9	43.9	43.9	47.4	47.4	47.4	47.4	52.1	52.1	52.1	52.1
	dpw	kPa	71	71	71	71	81	81	81	81	38	38	38	38
	HRC	**kW**	**85.8**	**50.7**	**18.4**	**13.1**	**94**	**60.1**	**19.8**	**14.5**	**112**	**76.7**	**23.3**	**17.5**
	qwr	l/s	4.2	2.4	0.8	0.6	4.5	2.9	0.9	0.7	5.4	3.8	1.2	0.8
	dpwr	kPa	19	10	10	10	30	14	10	10	32	15	10	10
13	CC	kW	972	972	972	972	1049	1049	1049	1049	1154	1154	1154	1154
	PI	kW	247	247	247	247	273	273	273	273	302	302	302	302
	qw	l/s	46.5	46.5	46.5	46.5	50.2	50.2	50.2	50.2	55.2	55.2	55.2	55.2
	dpw	kPa	78	78	78	78	90	90	90	90	42	42	42	42
	HRC	**kW**	**90**	**55.9**	**19.1**	**13.8**	**98.4**	**65.2**	**24.6**	**15.2**	**118**	**82.7**	**37.8**	**18.4**
	qwr	l/s	4.4	2.8	1.0	0.6	4.7	3.1	1.2	0.7	5.6	4.0	1.8	0.8
	dpwr	kPa	21	10	10	10	33	16	10	10	35	18	10	10
15	CC	kW	1027	1027	1027	1027	1106	1106	1106	1106	1220	1220	1220	1220
	PI	kW	253	253	253	253	280	280	280	280	311	311	311	311
	qw	l/s	49.1	49.1	49.1	49.1	52.9	52.9	52.9	52.9	58.4	58.4	58.4	58.4
	dpw	kPa	86	86	86	86	99	99	99	99	46	46	46	46
	HRC	**kW**	**94.2**	**60.9**	**19.8**	**14.5**	**103**	**70.3**	**30.2**	**16**	**123**	**88.8**	**47.7**	**19.4**
	qwr	l/s	4.6	3.0	1.0	0.8	5.0	3.4	1.4	0.8	6.0	4.2	2.4	1.0
	dpwr	kPa	23	10	10	10	36	18	10	10	39	20	10	10

EWAD C-PS

			C11				C12				C13			
Twout		**Twr**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**
5	CC	kW	1004	1004	1004	1004	1083	1083	1083	1083	1195	1195	1195	1195
	PI	kW	298	298	298	298	326	326	326	326	359	359	359	359
	qw	l/s	47.8	47.8	47.8	47.8	51.6	51.6	51.6	51.6	57.0	57.0	57.0	57.0
	dpw	kPa	54	54	54	54	62	62	62	62	53	53	53	53
	HRC	**kW**	**115**	**68.7**	**24.6**	**17.7**	**134**	**86.1**	**28.2**	**20.7**	**160**	**103**	**33.6**	**24.6**
	qwr	l/s	5.5	3.3	1.2	0.9	6.4	4.2	1.4	1.0	7.7	5.0	1.6	1.1
	dpwr	kPa	32	13	10	10	32	13	10	10	38	16	10	10
7	CC	kW	1067	1067	1067	1067	1150	1150	1150	1150	1270	1270	1270	1270
	PI	kW	306	306	306	306	335	335	335	335	369	369	369	369
	qw	l/s	50.9	50.9	50.9	50.9	54.9	54.9	54.9	54.9	60.6	60.6	60.6	60.6
	dpw	kPa	60	60	60	60	69	69	69	69	60	60	60	60
	HRC	**kW**	**121**	**76.3**	**25.6**	**18.7**	**141**	**94**	**29.3**	**21.8**	**168**	**112**	**35**	**26**
	qwr	l/s	5.9	3.7	1.2	0.9	6.8	4.6	1.4	1.0	8.1	5.4	1.7	1.3
	dpwr	kPa	35	16	10	10	35	16	10	10	42	19	10	10
9	CC	kW	1132	1132	1132	1132	1219	1219	1219	1219	1347	1347	1347	1347
	PI	kW	315	315	315	315	345	345	345	345	380	380	380	380
	qw	l/s	54.1	54.1	54.1	54.1	58.2	58.2	58.2	58.2	64.4	64.4	64.4	64.4
	dpw	kPa	67	67	67	67	77	77	77	77	66	66	66	66
	HRC	**kW**	**127**	**83.5**	**29.4**	**19.7**	**148**	**102**	**36**	**23**	**176**	**122**	**45.4**	**27.4**
	qwr	l/s	6.2	4.1	1.5	1.0	7.2	5.0	1.8	1.2	8.5	5.9	2.2	1.3
	dpwr	kPa	39	18	10	10	39	18	10	10	46	22	10	10
11	CC	kW	1199	1199	1199	1199	1290	1290	1290	1290	1427	1427	1427	1427
	PI	kW	324	324	324	324	354	354	354	354	391	391	391	391
	qw	l/s	57.3	57.3	57.3	57.3	61.7	61.7	61.7	61.7	68.2	68.2	68.2	68.2
	dpw	kPa	74	74	74	74	85	85	85	85	74	74	74	74
	HRC	**kW**	**134**	**90.6**	**38.5**	**20.8**	**155**	**109**	**53.3**	**24.2**	**185**	**131**	**64.9**	**28.9**
	qwr	l/s	6.4	4.3	1.9	1.0	7.4	5.2	2.6	1.2	8.9	6.3	3.2	1.4
	dpwr	kPa	43	21	10	10	43	21	10	10	51	26	10	10
13	CC	kW	1269	1269	1269	1269	1364	1364	1364	1364	1509	1509	1509	1509
	PI	kW	332	332	332	332	364	364	364	364	402	402	402	402
	qw	l/s	60.7	60.7	60.7	60.7	65.2	65.2	65.2	65.2	72.2	72.2	72.2	72.2
	dpw	kPa	82	82	82	82	94	94	94	94	82	82	82	82
	HRC	**kW**	**140**	**97.7**	**44.9**	**21.8**	**162**	**117**	**65**	**25.4**	**193**	**140**	**78.8**	**30.4**
	qwr	l/s	6.7	4.7	2.2	1.0	7.8	5.6	3.2	1.2	9.3	6.8	3.8	1.5
	dpwr	kPa	47	25	10	10	47	24	10	10	56	30	10	10
15	CC	kW	1339	1339	1339	1339	1437	1437	1437	1437	1592	1592	1592	1592
	PI	kW	342	342	342	342	375	375	375	375	413	413	413	413
	qw	l/s	64.1	64.1	64.1	64.1	68.8	68.8	68.8	68.8	76.2	76.2	76.2	76.2
	dpw	kPa	91	91	91	91	103	103	103	103	90	90	90	90
	HRC	**kW**	**146**	**105**	**49.2**	**22.9**	**169**	**125**	**75**	**26.7**	**202**	**150**	**90.8**	**31.9**
	qwr	l/s	7.1	5.0	2.4	1.1	8.2	6.0	3.6	1.2	9.8	7.2	4.4	1.5
	dpwr	kPa	51	28	10	10	51	28	10	10	61	34	13	10

EWAD C-PS

			C14					
Twout		**Twr**	**45**	**50**	**55**	**60**		
5	CC	kW	1300	1300	1300	1300		
	PI	kW	391	391	391	391		
	qw	l/s	61.9	61.9	61.9	61.9		
	dpw	kPa	62	62	62	62		
	HRC	**kW**	**173**	**111**	**36.4**	**26.7**		
	qwr	l/s	8.4	5.4	1.8	1.2		
	dpwr	kPa	35	15	10	10		
7	CC	kW	1381	1381	1381	1381		
	PI	kW	402	402	402	402		
	qw	l/s	65.9	65.9	65.9	65.9		
	dpw	kPa	69	69	69	69		
	HRC	**kW**	**182**	**121**	**37.9**	**28.2**		
	qwr	l/s	8.8	5.8	1.8	1.4		
	dpwr	kPa	39	18	10	10		
9	CC	kW	1464	1464	1464	1464		
	PI	kW	414	414	414	414		
	qw	l/s	69.9	69.9	69.9	69.9		
	dpw	kPa	77	77	77	77		
	HRC	**kW**	**191**	**132**	**47**	**29.7**		
	qwr	l/s	9.2	6.4	2.2	1.4		
	dpwr	kPa	43	21	10	10		
11	CC	kW	1549	1549	1549	1549		
	PI	kW	425	425	425	425		
	qw	l/s	74.0	74.0	74.0	74.0		
	dpw	kPa	85	85	85	85		
	HRC	**kW**	**200**	**141**	**68.9**	**31.3**		
	qwr	l/s	9.6	6.8	3.4	1.6		
	dpwr	kPa	47	24	10	10		
13	CC	kW	1637	1637	1637	1637		
	PI	kW	437	437	437	437		
	qw	l/s	78.3	78.3	78.3	78.3		
	dpw	kPa	94	94	94	94		
	HRC	**kW**	**209**	**152**	**84.2**	**32.9**		
	qwr	l/s	10.2	7.4	4.0	1.6		
	dpwr	kPa	52	27	10	10		
15	CC	kW	1725	1725	1725	1725		
	PI	kW	450	450	450	450		
	qw	l/s	82.6	82.6	82.6	82.6		
	dpw	kPa	104	104	104	104		
	HRC	**kW**	**218**	**161**	**97.2**	**34.5**		
	qwr	l/s	10.6	7.8	4.8	1.6		
	dpwr	kPa	56	31	11	10		

Fluid: Water
Ta: Condenser inlet air temperature 35.0°C; Twout: Evaporator leaving water temperature (Δt 5.0°C);
Twr: Heat Recovery leaving water temperature (Δt 5.0°C)
CC: Cooling capacity; PI: Power input; qw: Fluid flow rate; dpw: Fluid pressure drop
HRC: Heat recovery capacity; qwr: Heat recovery fluid flow rate; dpwr: Heat recovery fluid pressure drop
** For working condition where dpw value is "Italic-Red Color" please contac factory*

EWAD C-PL

			820				890				980			
Twout		**Twr**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**
5	CC	kW	768	768	768	768	833	833	833	833	911	911	911	911
	PI	kW	224	224	224	224	246	246	246	246	271	271	271	271
	qw	l/s	36.6	36.6	36.6	36.6	39.7	39.7	39.7	39.7	43.4	43.4	43.4	43.4
	dpw	kPa	51	51	51	51	59	59	59	59	27	27	27	27
	HRC	**kW**	**73.7**	**32.1**	**16.5**	**11.2**	**81.2**	**43**	**17.7**	**12.4**	**97**	**58.6**	**20.7**	**14.9**
	qwr	l/s	3.6	1.6	0.8	0.6	3.9	2.1	0.9	0.7	4.6	2.8	1.0	0.8
	dpwr	kPa	14	10	10	10	23	10	10	10	24	10	10	10
7	CC	kW	816	816	816	816	885	885	885	885	969	969	969	969
	PI	kW	229	229	229	229	253	253	253	253	278	278	278	278
	qw	l/s	38.9	38.9	38.9	38.9	42.2	42.2	42.2	42.2	46.2	46.2	46.2	46.2
	dpw	kPa	57	57	57	57	66	66	66	66	30	30	30	30
	HRC	**kW**	**77.7**	**39.2**	**17.1**	**11.8**	**85.5**	**49.2**	**18.4**	**13.1**	**102**	**64.7**	**21.5**	**15.7**
	qwr	l/s	3.8	1.8	0.8	0.6	4.1	2.4	0.9	0.7	5.0	3.2	1.0	0.8
	dpwr	kPa	15	10	10	10	25	10	10	10	27	11	10	10
9	CC	kW	866	866	866	866	938	938	938	938	1028	1028	1028	1028
	PI	kW	235	235	235	235	259	259	259	259	286	286	286	286
	qw	l/s	41.4	41.4	41.4	41.4	44.8	44.8	44.8	44.8	49.1	49.1	49.1	49.1
	dpw	kPa	63	63	63	63	73	73	73	73	34	34	34	34
	HRC	**kW**	**81.7**	**45.2**	**17.7**	**12.5**	**89.7**	**54.8**	**19.1**	**13.8**	**107**	**70.7**	**22.4**	**16.6**
	qwr	l/s	4.0	2.2	0.8	0.6	4.3	2.6	0.9	0.7	5.2	3.4	1.0	0.8
	dpwr	kPa	17	10	10	10	28	12	10	10	29	13	10	10
11	CC	kW	918	918	918	918	993	993	993	993	1090	1090	1090	1090
	PI	kW	241	241	241	241	266	266	266	266	294	294	294	294
	qw	l/s	43.9	43.9	43.9	43.9	47.4	47.4	47.4	47.4	52.1	52.1	52.1	52.1
	dpw	kPa	71	71	71	71	81	81	81	81	38	38	38	38
	HRC	**kW**	**85.8**	**50.7**	**18.4**	**13.1**	**94**	**60.1**	**19.8**	**14.5**	**112**	**76.7**	**23.3**	**17.5**
	qwr	l/s	4.2	2.4	0.8	0.6	4.5	2.9	0.9	0.7	5.4	3.8	1.2	0.8
	dpwr	kPa	19	10	10	10	30	14	10	10	32	15	10	10
13	CC	kW	972	972	972	972	1049	1049	1049	1049	1154	1154	1154	1154
	PI	kW	247	247	247	247	273	273	273	273	302	302	302	302
	qw	l/s	46.5	46.5	46.5	46.5	50.2	50.2	50.2	50.2	55.2	55.2	55.2	55.2
	dpw	kPa	78	78	78	78	90	90	90	90	42	42	42	42
	HRC	**kW**	**90**	**55.9**	**19.1**	**13.8**	**98.4**	**65.2**	**24.6**	**15.2**	**118**	**82.7**	**37.8**	**18.4**
	qwr	l/s	4.4	2.8	1.0	0.6	4.7	3.1	1.2	0.7	5.6	4.0	1.8	0.8
	dpwr	kPa	21	10	10	10	33	16	10	10	35	18	10	10
15	CC	kW	1027	1027	1027	1027	1106	1106	1106	1106	1220	1220	1220	1220
	PI	kW	253	253	253	253	280	280	280	280	311	311	311	311
	qw	l/s	49.1	49.1	49.1	49.1	52.9	52.9	52.9	52.9	58.4	58.4	58.4	58.4
	dpw	kPa	86	86	86	86	99	99	99	99	46	46	46	46
	HRC	**kW**	**94.2**	**60.9**	**19.8**	**14.5**	**103**	**70.3**	**30.2**	**16**	**123**	**88.8**	**47.7**	**19.4**
	qwr	l/s	4.6	3.0	1.0	0.8	5.0	3.4	1.4	0.8	6.0	4.2	2.4	1.0
	dpwr	kPa	23	10	10	10	36	18	10	10	39	20	10	10

EWAD C-PL

			C11				C12				C13			
Twout		**Twr**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**
5	CC	kW	1004	1004	1004	1004	1083	1083	1083	1083	1195	1195	1195	1195
	PI	kW	298	298	298	298	326	326	326	326	359	359	359	359
	qw	l/s	47.8	47.8	47.8	47.8	51.6	51.6	51.6	51.6	57.0	57.0	57.0	57.0
	dpw	kPa	54	54	54	54	62	62	62	62	53	53	53	53
	HRC	**kW**	**115**	**68.7**	**24.6**	**17.7**	**134**	**86.1**	**28.2**	**20.7**	**160**	**103**	**33.6**	**24.6**
	qwr	l/s	5.5	3.3	1.2	0.9	6.4	4.2	1.4	1.0	7.7	5.0	1.6	1.1
	dpwr	kPa	32	13	10	10	32	13	10	10	38	16	10	10
7	CC	kW	1067	1067	1067	1067	1150	1150	1150	1150	1270	1270	1270	1270
	PI	kW	306	306	306	306	335	335	335	335	369	369	369	369
	qw	l/s	50.9	50.9	50.9	50.9	54.9	54.9	54.9	54.9	60.6	60.6	60.6	60.6
	dpw	kPa	60	60	60	60	69	69	69	69	60	60	60	60
	HRC	**kW**	**121**	**76.3**	**25.6**	**18.7**	**141**	**94**	**29.3**	**21.8**	**168**	**112**	**35**	**26**
	qwr	l/s	5.9	3.7	1.2	0.9	6.8	4.6	1.4	1.0	8.1	5.4	1.7	1.3
	dpwr	kPa	35	16	10	10	35	16	10	10	42	19	10	10
9	CC	kW	1132	1132	1132	1132	1219	1219	1219	1219	1347	1347	1347	1347
	PI	kW	315	315	315	315	345	345	345	345	380	380	380	380
	qw	l/s	54.1	54.1	54.1	54.1	58.2	58.2	58.2	58.2	64.4	64.4	64.4	64.4
	dpw	kPa	67	67	67	67	77	77	77	77	66	66	66	66
	HRC	**kW**	**127**	**83.5**	**29.4**	**19.7**	**148**	**102**	**36**	**23**	**176**	**122**	**45.4**	**27.4**
	qwr	l/s	6.2	4.1	1.5	1.0	7.2	5.0	1.8	1.2	8.5	5.9	2.2	1.3
	dpwr	kPa	39	18	10	10	39	18	10	10	46	22	10	10
11	CC	kW	1199	1199	1199	1199	1290	1290	1290	1290	1427	1427	1427	1427
	PI	kW	324	324	324	324	354	354	354	354	391	391	391	391
	qw	l/s	57.3	57.3	57.3	57.3	61.7	61.7	61.7	61.7	68.2	68.2	68.2	68.2
	dpw	kPa	74	74	74	74	85	85	85	85	74	74	74	74
	HRC	**kW**	**134**	**90.6**	**38.5**	**20.8**	**155**	**109**	**53.3**	**24.2**	**185**	**131**	**64.9**	**28.9**
	qwr	l/s	6.4	4.3	1.9	1.0	7.4	5.2	2.6	1.2	8.9	6.3	3.2	1.4
	dpwr	kPa	43	21	10	10	43	21	10	10	51	26	10	10
13	CC	kW	1269	1269	1269	1269	1364	1364	1364	1364	1509	1509	1509	1509
	PI	kW	332	332	332	332	364	364	364	364	402	402	402	402
	qw	l/s	60.7	60.7	60.7	60.7	65.2	65.2	65.2	65.2	72.2	72.2	72.2	72.2
	dpw	kPa	82	82	82	82	94	94	94	94	82	82	82	82
	HRC	**kW**	**140**	**97.7**	**44.9**	**21.8**	**162**	**117**	**65**	**25.4**	**193**	**140**	**78.8**	**30.4**
	qwr	l/s	6.7	4.7	2.2	1.0	7.8	5.6	3.2	1.2	9.3	6.8	3.8	1.5
	dpwr	kPa	47	25	10	10	47	24	10	10	56	30	10	10
15	CC	kW	1339	1339	1339	1339	1437	1437	1437	1437	1592	1592	1592	1592
	PI	kW	342	342	342	342	375	375	375	375	413	413	413	413
	qw	l/s	64.1	64.1	64.1	64.1	68.8	68.8	68.8	68.8	76.2	76.2	76.2	76.2
	dpw	kPa	91	91	91	91	103	103	103	103	90	90	90	90
	HRC	**kW**	**146**	**105**	**49.2**	**22.9**	**169**	**125**	**75**	**26.7**	**202**	**150**	**90.8**	**31.9**
	qwr	l/s	7.1	5.0	2.4	1.1	8.2	6.0	3.6	1.2	9.8	7.2	4.4	1.5
	dpwr	kPa	51	28	10	10	51	28	10	10	61	34	13	10

EWAD C-PL

			C14					
Twout		**Twr**	**45**	**50**	**55**	**60**		
5	CC	kW	1300	1300	1300	1300		
	PI	kW	391	391	391	391		
	qw	l/s	61.9	61.9	61.9	61.9		
	dpw	kPa	62	62	62	62		
	HRC	**kW**	**173**	**111**	**36.4**	**26.7**		
	qwr	l/s	8.4	5.4	1.8	1.2		
	dpwr	kPa	35	15	10	10		
7	CC	kW	1381	1381	1381	1381		
	PI	kW	402	402	402	402		
	qw	l/s	65.9	65.9	65.9	65.9		
	dpw	kPa	69	69	69	69		
	HRC	**kW**	**182**	**121**	**37.9**	**28.2**		
	qwr	l/s	8.8	5.8	1.8	1.4		
	dpwr	kPa	39	18	10	10		
9	CC	kW	1464	1464	1464	1464		
	PI	kW	414	414	414	414		
	qw	l/s	69.9	69.9	69.9	69.9		
	dpw	kPa	77	77	77	77		
	HRC	**kW**	**191**	**132**	**47**	**29.7**		
	qwr	l/s	9.2	6.4	2.2	1.4		
	dpwr	kPa	43	21	10	10		
11	CC	kW	1549	1549	1549	1549		
	PI	kW	425	425	425	425		
	qw	l/s	74.0	74.0	74.0	74.0		
	dpw	kPa	85	85	85	85		
	HRC	**kW**	**200**	**141**	**68.9**	**31.3**		
	qwr	l/s	9.6	6.8	3.4	1.6		
	dpwr	kPa	47	24	10	10		
13	CC	kW	1637	1637	1637	1637		
	PI	kW	437	437	437	437		
	qw	l/s	78.3	78.3	78.3	78.3		
	dpw	kPa	94	94	94	94		
	HRC	**kW**	**209**	**152**	**84.2**	**32.9**		
	qwr	l/s	10.2	7.4	4.0	1.6		
	dpwr	kPa	52	27	10	10		
15	CC	kW	1725	1725	1725	1725		
	PI	kW	450	450	450	450		
	qw	l/s	82.6	82.6	82.6	82.6		
	dpw	kPa	104	104	104	104		
	HRC	**kW**	**218**	**161**	**97.2**	**34.5**		
	qwr	l/s	10.6	7.8	4.8	1.6		
	dpwr	kPa	56	31	11	10		

Fluid: Water
Ta: Condenser inlet air temperature 35.0°C; Twout: Evaporator leaving water temperature (Δt 5.0°C);
Twr: Heat Recovery leaving water temperature (Δt 5.0°C)
CC: Cooling capacity; PI: Power input; qw: Fluid flow rate; dpw: Fluid pressure drop
HRC: Heat recovery capacity; qwr: Heat recovery fluid flow rate; dpwr: Heat recovery fluid pressure drop
** For working condition where dpw value is "Italic-Red Color" please contac factory*

EWAD C-PR

			810				880				960			
Twout		**Twr**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**
5	CC	kW	757	757	757	757	819	819	819	819	894	894	894	894
	PI	kW	216	216	216	216	241	241	241	241	268	268	268	268
	qw	l/s	36.1	36.1	36.1	36.1	39.0	39.0	39.0	39.0	42.6	42.6	42.6	42.6
	dpw	kPa	50	50	50	50	57	57	57	57	26	26	26	26
	HRC	**kW**	**88.5**	**54.2**	**18.8**	**13.6**	**97.2**	**63.9**	**23.1**	**15**	**115**	**80.2**	**33**	**18**
	qwr	l/s	4.2	2.6	1.0	0.6	4.7	3.1	1.1	0.7	5.6	3.8	1.6	0.8
	dpwr	kPa	20	10	10	10	32	15	10	10	34	16	10	10
7	CC	kW	804	804	804	804	869	869	869	869	949	949	949	949
	PI	kW	222	222	222	222	248	248	248	248	277	277	277	277
	qw	l/s	38.4	38.4	38.4	38.4	41.5	41.5	41.5	41.5	45.3	45.3	45.3	45.3
	dpw	kPa	55	55	55	55	64	64	64	64	29	29	29	29
	HRC	**kW**	**93.1**	**59.7**	**19.6**	**14.3**	**102**	**69.4**	**29.8**	**15.9**	**121**	**86.6**	**44.6**	**19**
	qwr	l/s	4.4	2.8	1.0	0.6	5.0	3.3	1.4	0.7	5.8	4.2	2.2	1.0
	dpwr	kPa	22	10	10	10	36	18	10	10	37	19	10	10
9	CC	kW	853	853	853	853	921	921	921	921	1006	1006	1006	1006
	PI	kW	229	229	229	229	256	256	256	256	286	286	286	286
	qw	l/s	40.7	40.7	40.7	40.7	44.0	44.0	44.0	44.0	48.0	48.0	48.0	48.0
	dpw	kPa	62	62	62	62	71	71	71	71	33	33	33	33
	HRC	**kW**	**97.7**	**65**	**20.4**	**15.1**	**107**	**74.9**	**34.6**	**16.7**	**127**	**93**	**53.7**	**20**
	qwr	l/s	4.8	3.2	1.0	0.8	5.2	3.7	1.7	0.8	6.2	4.4	2.6	1.0
	dpwr	kPa	24	11	10	10	39	21	10	10	41	22	10	10
11	CC	kW	903	903	903	903	973	973	973	973	1065	1065	1065	1065
	PI	kW	235	235	235	235	264	264	264	264	295	295	295	295
	qw	l/s	43.2	43.2	43.2	43.2	46.5	46.5	46.5	46.5	50.9	50.9	50.9	50.9
	dpw	kPa	68	68	68	68	78	78	78	78	36	36	36	36
	HRC	**kW**	**102**	**70.4**	**23**	**15.9**	**112**	**80.4**	**39.7**	**17.6**	**133**	**99.4**	**61.8**	**21.1**
	qwr	l/s	5.0	3.4	1.2	0.8	5.4	3.9	1.9	0.9	6.4	4.8	3.0	1.0
	dpwr	kPa	27	13	10	10	43	23	10	10	45	25	10	10
13	CC	kW	955	955	955	955	1027	1027	1027	1027	1125	1125	1125	1125
	PI	kW	242	242	242	242	272	272	272	272	305	305	305	305
	qw	l/s	45.7	45.7	45.7	45.7	49.1	49.1	49.1	49.1	53.8	53.8	53.8	53.8
	dpw	kPa	76	76	76	76	86	86	86	86	40	40	40	40
	HRC	**kW**	**107**	**75.7**	**36**	**16.8**	**117**	**85.8**	**49.3**	**18.5**	**140**	**106**	**69.6**	**22.2**
	qwr	l/s	5.2	3.6	1.8	0.8	5.7	4.2	2.4	0.9	6.8	5.2	3.4	1.0
	dpwr	kPa	29	15	10	10	46	26	11	10	50	29	12	10
15	CC	kW	1008	1008	1008	1008	1082	1082	1082	1082	1187	1187	1187	1187
	PI	kW	250	250	250	250	280	280	280	280	315	315	315	315
	qw	l/s	48.2	48.2	48.2	48.2	51.8	51.8	51.8	51.8	56.8	56.8	56.8	56.8
	dpw	kPa	84	84	84	84	95	95	95	95	44	44	44	44
	HRC	**kW**	**112**	**81**	**44.2**	**17.6**	**122**	**91.3**	**56.6**	**19.3**	**146**	**113**	**77.1**	**21.8**
	qwr	l/s	5.4	4.0	2.2	0.8	5.9	4.4	2.8	0.9	7.0	5.4	3.8	1.0
	dpwr	kPa	32	17	10	10	50	30	13	10	54	32	15	10

EWAD C-PR

			C10				C11				C13			
Twout		**Twr**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**	**45**	**50**	**55**	**60**
5	CC	kW	984	984	984	984	1059	1059	1059	1059	1170	1170	1170	1170
	PI	kW	295	295	295	295	325	325	325	325	358	358	358	358
	qw	l/s	46.9	46.9	46.9	46.9	50.5	50.5	50.5	50.5	55.7	55.7	55.7	55.7
	dpw	kPa	52	52	52	52	59	59	59	59	51	51	51	51
	HRC	**kW**	**137**	**94.9**	**42.9**	**21.4**	**159**	**114**	**61.5**	**24.9**	**189**	**137**	**73.9**	**29.7**
	qwr	l/s	6.6	4.6	2.1	1.0	7.6	5.6	3.0	1.2	9.2	6.6	3.6	1.5
	dpwr	kPa	45	23	10	10	45	23	10	10	53	28	10	10
7	CC	kW	1045	1045	1045	1045	1123	1123	1123	1123	1241	1241	1241	1241
	PI	kW	304	304	304	304	336	336	336	336	370	370	370	370
	qw	l/s	49.9	49.9	49.9	49.9	53.6	53.6	53.6	53.6	59.2	59.2	59.2	59.2
	dpw	kPa	58	58	58	58	66	66	66	66	57	57	57	57
	HRC	**kW**	**144**	**102**	**49**	**22.6**	**167**	**123**	**72.7**	**26.3**	**199**	**147**	**87.3**	**31.4**
	qwr	l/s	6.9	5.0	2.4	1.1	8.0	6.0	3.6	1.2	9.6	7.0	4.3	1.5
	dpwr	kPa	49	27	10	10	49	27	10	10	59	32	12	10
9	CC	kW	1108	1108	1108	1108	1189	1189	1189	1189	1314	1314	1314	1314
	PI	kW	314	314	314	314	346	346	346	346	382	382	382	382
	qw	l/s	52.9	52.9	52.9	52.9	56.8	56.8	56.8	56.8	62.8	62.8	62.8	62.8
	dpw	kPa	64	64	64	64	73	73	73	73	63	63	63	63
	HRC	**kW**	**151**	**110**	**61**	**23.8**	**175**	**131**	**83**	**27.7**	**208**	**157**	**99.8**	**33**
	qwr	l/s	7.3	5.3	2.9	1.2	8.4	6.4	4.0	1.4	10.1	7.6	4.8	1.6
	dpwr	kPa	54	31	12	10	54	31	12	10	65	37	15	10
11	CC	kW	1172	1172	1172	1172	1256	1256	1256	1256	1390	1390	1390	1390
	PI	kW	324	324	324	324	358	358	358	358	394	394	394	394
	qw	l/s	56.0	56.0	56.0	56.0	60.0	60.0	60.0	60.0	66.4	66.4	66.4	66.4
	dpw	kPa	71	71	71	71	81	81	81	81	70	70	70	70
	HRC	**kW**	**158**	**118**	**71.7**	**25**	**183**	**139**	**92.9**	**29.1**	**218**	**167**	**112**	**34.8**
	qwr	l/s	7.6	5.7	3.5	1.2	8.8	6.8	4.6	1.4	10.5	8.1	5.4	1.7
	dpwr	kPa	59	35	15	10	59	35	15	10	71	42	19	10
13	CC	kW	1238	1238	1238	1238	1325	1325	1325	1325	1467	1467	1467	1467
	PI	kW	334	334	334	334	369	369	369	369	408	408	408	408
	qw	l/s	59.2	59.2	59.2	59.2	63.4	63.4	63.4	63.4	70.2	70.2	70.2	70.2
	dpw	kPa	79	79	79	79	89	89	89	89	77	77	77	77
	HRC	**kW**	**165**	**125**	**81.2**	**31.1**	**191**	**148**	**103**	**40.2**	**228**	**177**	**123**	**50.8**
	qwr	l/s	8.0	6.1	3.9	1.5	9.2	7.2	5.0	2.0	11.1	8.5	6.0	2.5
	dpwr	kPa	65	39	19	10	65	39	19	10	78	47	23	10
15	CC	kW	1305	1305	1305	1305	1395	1395	1395	1395	1546	1546	1546	1546
	PI	kW	345	345	345	345	381	381	381	381	421	421	421	421
	qw	l/s	62.5	62.5	62.5	62.5	66.8	66.8	66.8	66.8	74.0	74.0	74.0	74.0
	dpw	kPa	87	87	87	87	98	98	98	98	85	85	85	85
	HRC	**kW**	**173**	**133**	**90.2**	**40.6**	**199**	**157**	**112**	**58**	**238**	**188**	**135**	**71.2**
	qwr	l/s	8.3	6.4	4.4	2.0	9.6	7.6	5.4	2.8	11.5	9.1	6.5	3.4
	dpwr	kPa	71	44	22	10	71	44	22	10	85	53	28	10

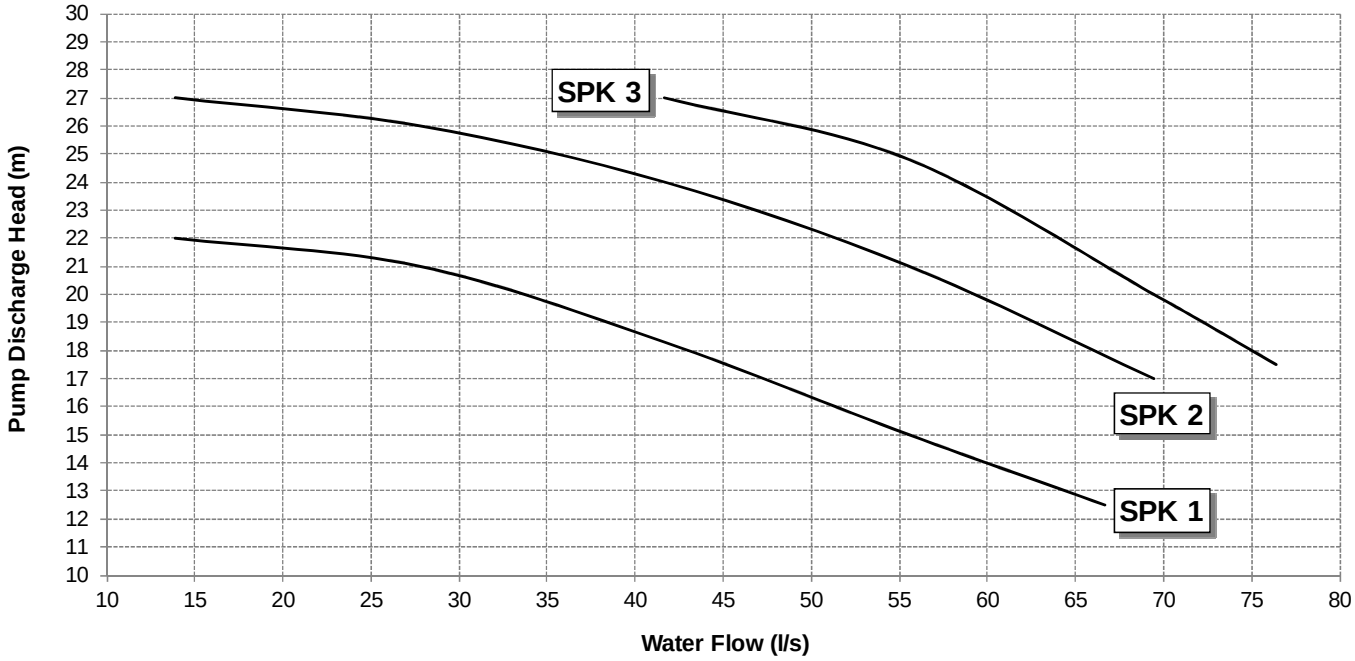
EWAD C-PR

			C14					
Twout		**Twr**	**45**	**50**	**55**	**60**		
5	CC	kW	1271	1271	1271	1271		
	PI	kW	390	390	390	390		
	qw	l/s	60.6	60.6	60.6	60.6		
	dpw	kPa	60	60	60	60		
	HRC	**kW**	**205**	**148**	**79.5**	**32.2**		
	qwr	l/s	10.0	7.2	3.8	1.6		
	dpwr	kPa	50	26	10	10		
7	CC	kW	1348	1348	1348	1348		
	PI	kW	403	403	403	403		
	qw	l/s	64.3	64.3	64.3	64.3		
	dpw	kPa	66	66	66	66		
	HRC	**kW**	**216**	**159**	**94.1**	**34**		
	qwr	l/s	10.4	7.6	4.6	1.6		
	dpwr	kPa	55	30	11	10		
9	CC	kW	1427	1427	1427	1427		
	PI	kW	416	416	416	416		
	qw	l/s	68.2	68.2	68.2	68.2		
	dpw	kPa	74	74	74	74		
	HRC	**kW**	**226**	**170**	**108**	**35.8**		
	qwr	l/s	10.8	8.2	5.2	1.8		
	dpwr	kPa	60	34	14	10		
11	CC	kW	1508	1508	1508	1508		
	PI	kW	429	429	429	429		
	qw	l/s	72.1	72.1	72.1	72.1		
	dpw	kPa	81	81	81	81		
	HRC	**kW**	**236**	**180**	**120**	**37.6**		
	qwr	l/s	11.4	8.8	5.8	1.8		
	dpwr	kPa	66	39	17	10		
13	CC	kW	1591	1591	1591	1591		
	PI	kW	443	443	443	443		
	qw	l/s	76.1	76.1	76.1	76.1		
	dpw	kPa	90	90	90	90		
	HRC	**kW**	**247**	**192**	**133**	**52.3**		
	qwr	l/s	12.0	9.2	6.4	2.6		
	dpwr	kPa	72	44	21	10		
15	CC	kW	1675	1675	1675	1675		
	PI	kW	458	458	458	458		
	qw	l/s	80.2	80.2	80.2	80.2		
	dpw	kPa	99	99	99	99		
	HRC	**kW**	**258**	**203**	**145**	**75.4**		
	qwr	l/s	12.4	9.8	7.0	3.6		
	dpwr	kPa	79	49	25	10		

Fluid: Water
Ta: Condenser inlet air temperature 35.0°C; Twout: Evaporator leaving water temperature (Δt 5.0°C);
Twr: Heat Recovery leaving water temperature (Δt 5.0°C)
CC: Cooling capacity; PI: Power input; qw: Fluid flow rate; dpw: Fluid pressure drop
HRC: Heat recovery capacity; qwr: Heat recovery fluid flow rate; dpwr: Heat recovery fluid pressure drop
** For working condition where dpw value is "Italic-Red Color" please contac factory*

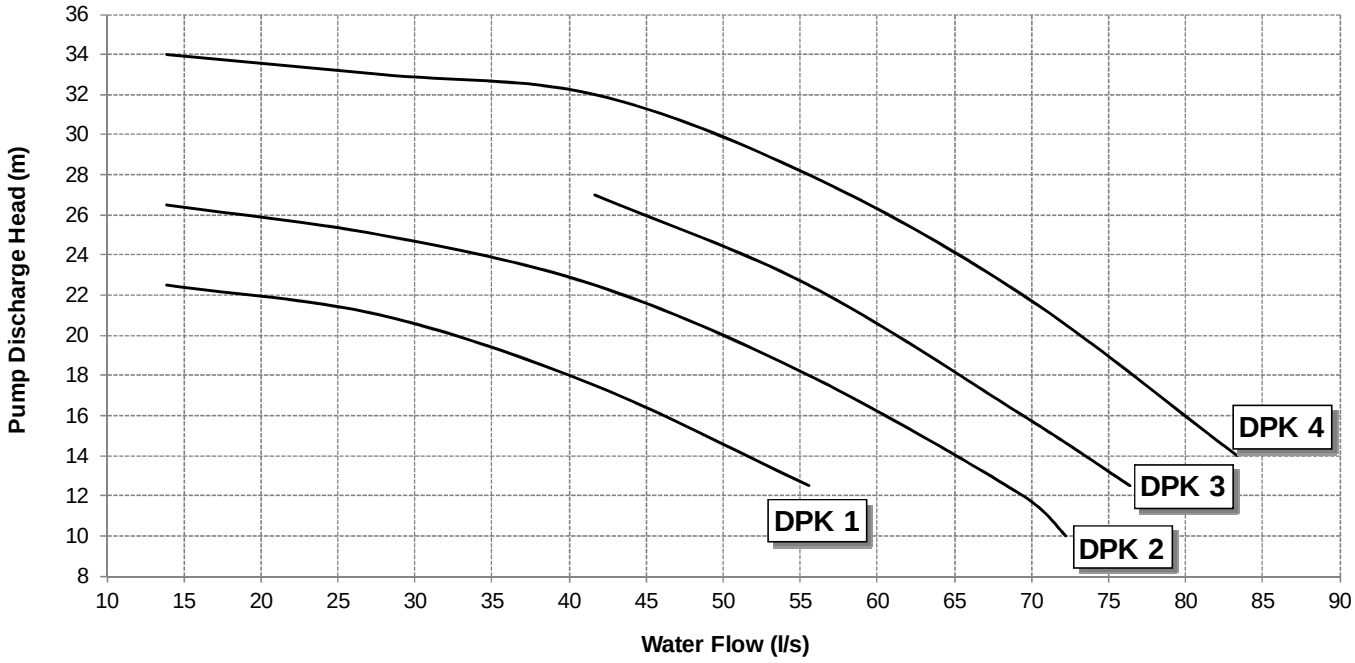
Discharge Head

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							

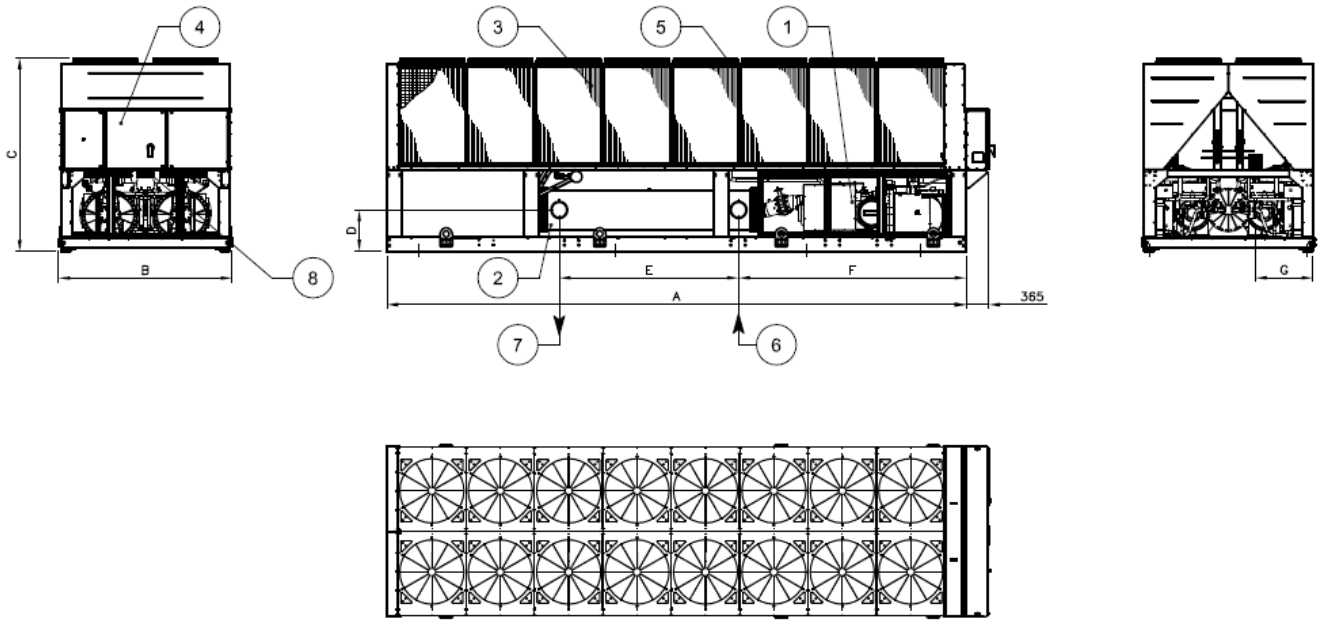
Water pump kit technical information

		Pump Motor Power (kW)	Pump Motor Current (A)	Power supply (V-ph-Hz)	PN	Motor Protection	Insulation (Class)	Working Temp. (℃)
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)



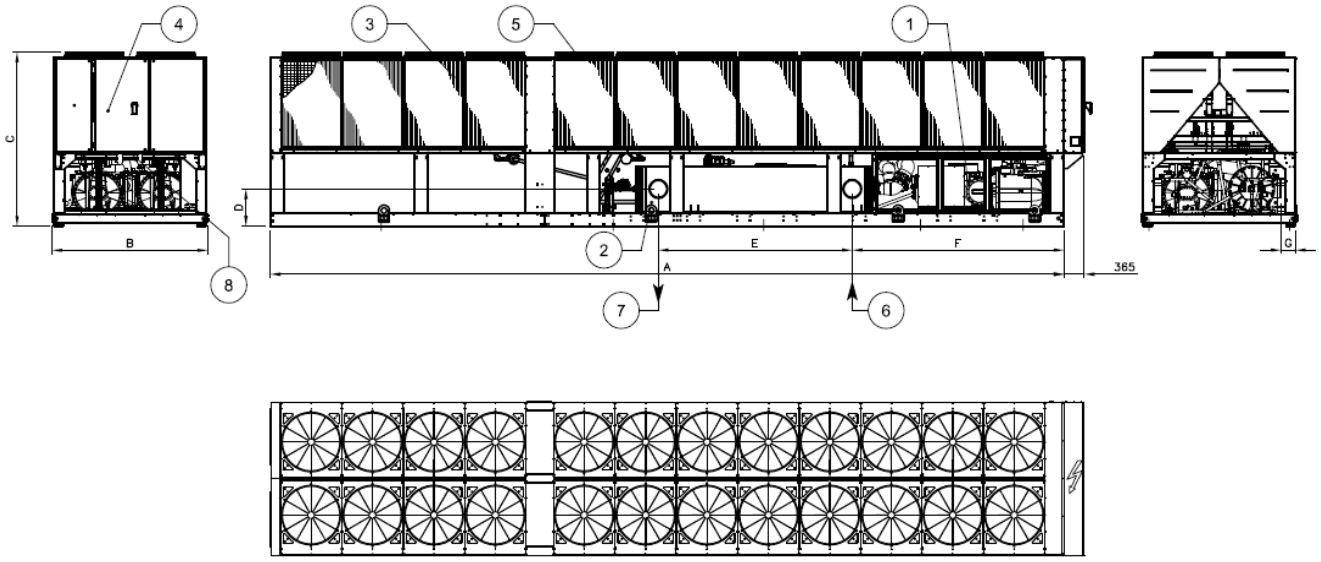
Drawing is for illustration only. Please refer to the table below for unit dimensions.

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
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
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

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**	
EWADC16÷C17C-SS/SL	EWADC15÷C16C-SR	2285	11085	2540	5340	2360	540	285	Nr 22
EWADC16C-XS/XL	EWADC16C-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

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 to 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.

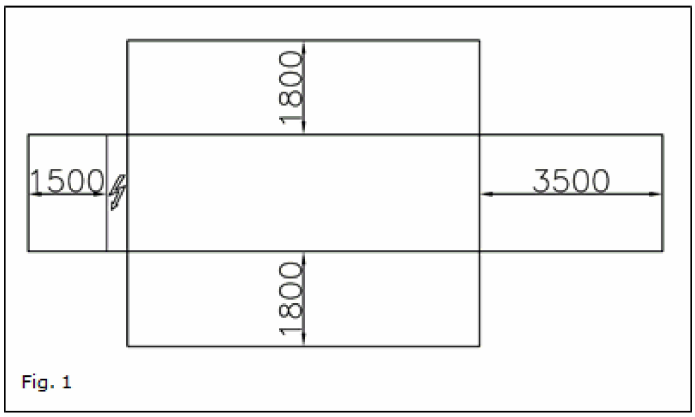


Fig. 1

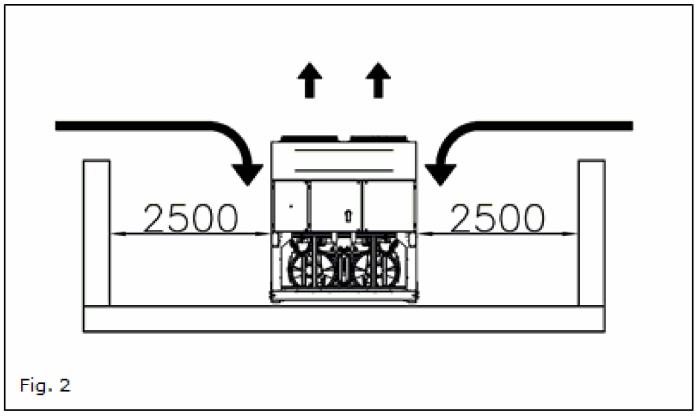


Fig. 2

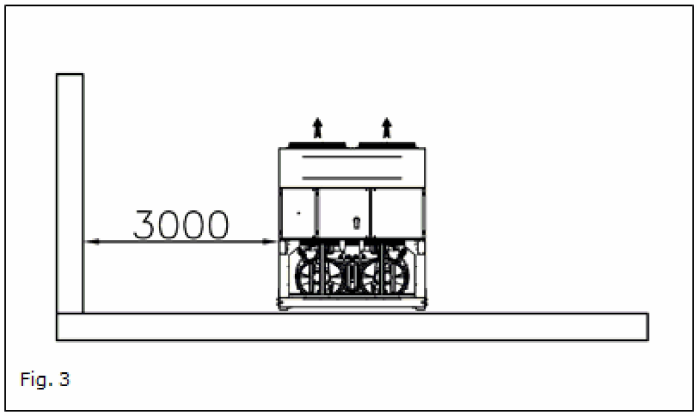


Fig. 3

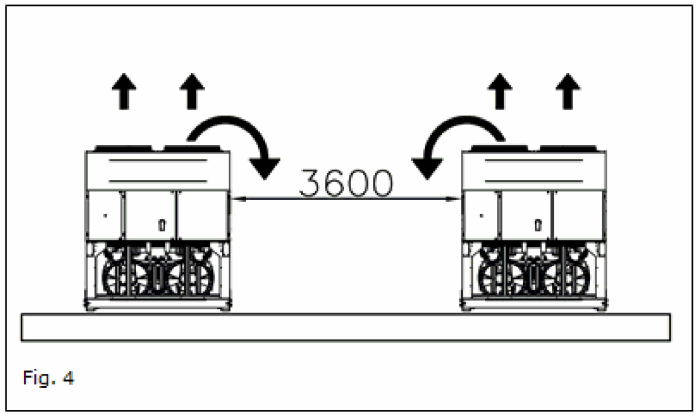


Fig. 4

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: Maximum ambient temperature: Maximum R.H.:	-20°C +57°C 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 exceed ……dB(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 thermally protection by internal thermal motor protection and protected by circuit braker installed inside the electrical panel as a standard.

Heat Recovery Exchanger The unit shall be 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.

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 funs 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 shows 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 garantee following minimu 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 certifief 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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