Databook

Code: Chiller configurator – 1.9.5
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Air Cooled Chiller with integrated free cooling

HFO R-1234ze
HFC 134a
HFO-HFC R513A

EWF(H)(D)(S)~TZ D

- VFD Screw
- Nominal capacity range 180 - 1950 kW
- 4 efficiency levels
- 50Hz and 60Hz power supply



AHRI CERTIFIED® www.ahridirectory.org
Air-Cooled Water Chilling Packages
AHRI Standards 550/590 and 551/591

CE

DAIKIN

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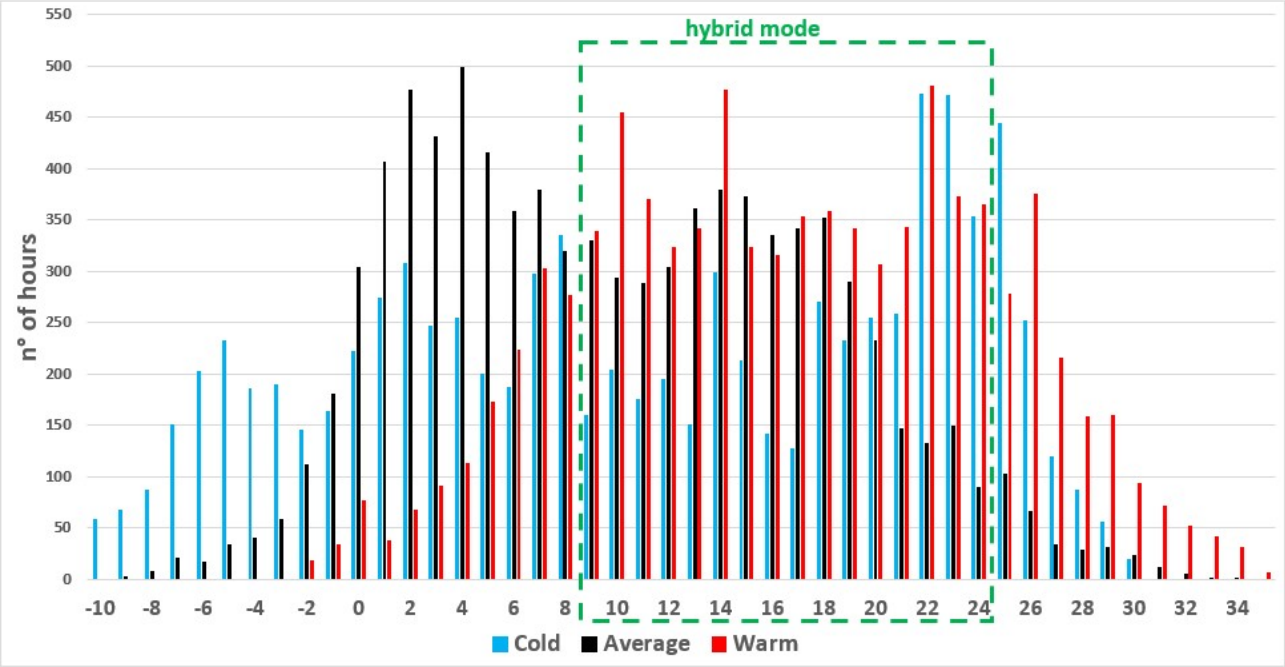
1. General Characteristics

TOP class efficiency without compromise

Now in its IV generation, TZ chiller is now introducing a fully integrated water side economizer, the so called "free cooling". The free cooling makes possible to chill the fluid using the cold outdoor air.

The amount of the "free cooling effect" depends on the difference between the fluid returning from the system and the outdoor temperature, so the amount of free cooling varies based on time of the day and seasons. When the "free cooling effect" cover a part of the total cooling demand the remaining capacity is provided by chiller compressors (so with "mechanical cooling"). The condition when cooling load is covered partially by free cooling with mechanical cooling to fill the difference is called "hybrid mode".

Considering a system running with 20°C supply and 30°C returning to the chiller the hybrid mode will be possible in the range of temperature from 24°C to 9°C, above 24°C operation is in mechanical cooling, while below 9°C is free cooling.



Is evident that the contribution of hybrid mode has large impact on annual operating cost, so the efficiency on hybrid mode is critical. In hybrid mode the capacity required from the compressors is much lower than the max available so they will operate in unloaded condition.

To operate efficiently the compressors must be capable of modulate capacity efficiently in every condition.

Daikin TZ is equipped with Single screw compressors driven by a Variable Frequency Drive (VFD) and capability to adjust the volume ratio based on the actual operating condition (Variable Volume Ratio). For this reason, TZ technology is the perfect match with free cooling applications.

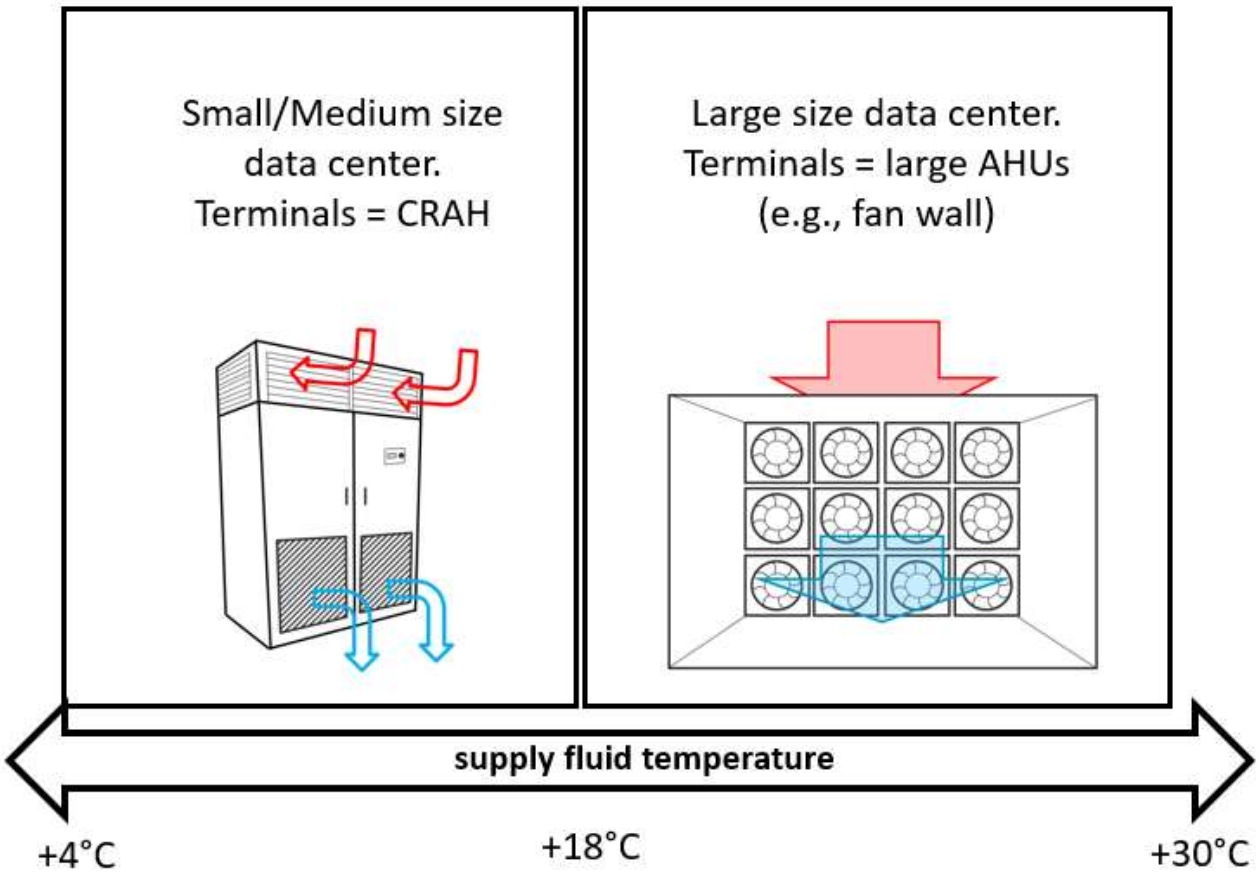
TZ D with integrated free cooling operates with best efficiency in all operating modes. All models are equipped with variable speed fans to modulate air flow minimizing power consumption also in free cooling mode.

Extended operating range

New TZ-D is the perfect solution for data center thanks to the widest range of operating condition:

- Outdoor conditions: from -20°C up to +55°C
- Supplied chilled fluid from +4°C up to +30°C.

The required supply temperature for data center plants changes significantly based on the size of data center and type of terminals.



Low Environmental impact

TZ-D TOP LEVEL performance reflects in low operating cost cutting-down not only the owner expenses but reducing at same time the indirect emissions. The very low GWP of R1234ze (low direct emissions) combined with the reduced power consumption (low indirect emissions) result in the best Life Cycle Climate Performance (LCCP).

Outstanding reliability

The chillers have one or two independent refrigerant circuits. Each compressor is provided with a Variable Frequency Drive (VFD) installed on the compressor and cooled directly by the refrigerant. Compared to other technologies: air cooled, and glycol cooled drivers, Daikin technology offer real independency from outdoor conditions (temperature, humidity, altitude, pollutions).
The VFD's are design and manufactured by Daikin to operate continuously in the most extreme conditions: high and low temperature environment without additional requirement for maintenance unlike air cooled and glycol cooled drives.

Integrated Active Harmonic Filtration (THD_i < 5%)

Harmonic distortion is caused by nonlinear loads such as power electronic devices, variable frequency drives, and certain types of lighting, which inject harmonic currents into the power system.
Harmonic distortion causes additional power consumption in electrical systems. It can lead to increased energy losses and reduced efficiency, resulting in higher energy costs. Low harmonic distortion helps minimize these losses, improving energy efficiency and reducing operational expenses. Many countries have established regulations and standards to limit the level of harmonic distortion produced by electrical equipment. By keeping harmonic distortion within the prescribed limits, manufacturers and users can ensure compliance with these standards.
Install active harmonic filters at strategic points in the electrical system, typically at the load side of harmonic-generating devices. Active harmonic filters (AHFs) are electronic devices used to reduce harmonic distortion in electrical systems. They are capable of dynamically compensating for harmonic currents in real-time, thereby improving the power quality of the system. AHFs actively monitor the harmonic currents and generate compensating currents that cancel out the harmonics, resulting in a reduction in Total Harmonic Distortion (THD).

A) Understating THD

THD stands for Total Harmonic Distortion. It is a measure used to quantify the level of distortion present in an electrical signal, typically voltage or current. THD is expressed as a percentage, and it can be related to current and voltage.

THDi (Total Harmonic Distortion of Current): THD_I measures the percentage of total harmonic current distortion relative to the fundamental current in an electrical system. It indicates the amount of harmonic current flowing through the system compared to the fundamental current. THD_I is expressed as a percentage and is calculated by summing the root mean square (RMS) values of all harmonic currents and dividing it by the RMS value of the fundamental current.

THDv (Total Harmonic Distortion of Voltage): THD_V measures the percentage of total harmonic voltage distortion relative to the fundamental voltage in an electrical system. It represents the level of harmonic voltage components compared to the fundamental voltage. THD_V is expressed as a percentage and is calculated by summing the RMS values of all harmonic voltages and dividing it by the RMS value of the fundamental voltage.

TDD_I (Total Demand Distortion Index): It is a metric used to quantify the level of harmonic distortion in an electrical system, specifically in relation to the overall demand or load on the system.
Unlike THD (Total Harmonic Distortion), which measures the harmonic content relative to the fundamental frequency, TDD_I considers both the harmonic distortion and the overall load on the system. It provides a more comprehensive evaluation of the harmonic distortion considering the system's demand.

Generally speaking, a chiller with VFD compressors without harmonic filtration has $THD_I \approx 35\%$ and $THD_V \approx 8\%$.
There are ways to reduce the harmonic distortions generated by the chiller but is important to keep in in mind that achieving low THD requires a comprehensive approach that considers on each case the specific characteristics of the electrical system, including the type of loads, system configuration, and intended application. Mitigate harmonic distortions from chiller alone may not solve a possible issue with system distortion.
Consulting with a qualified electrical engineer or power quality specialist is highly recommended to design and implement an effective strategy to achieve low THD levels in your specific system.

B) Passive Filtration vs Active Filtration

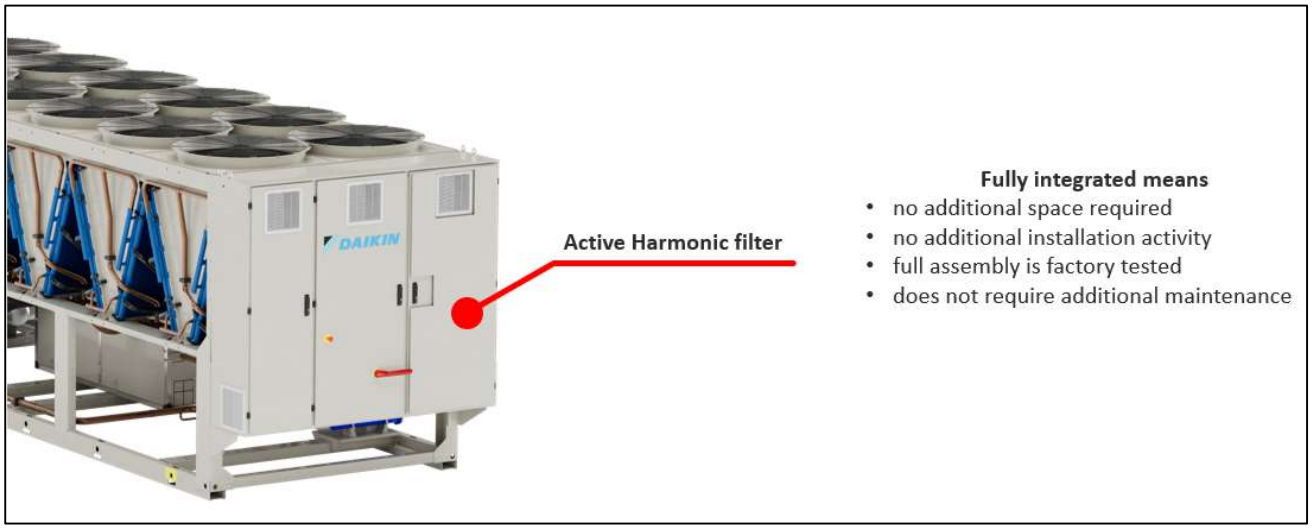
Active and passive filters are two different approaches to mitigating harmonic distortion in electrical systems.

	Passive Filtration	Active Filtration
Operation	Passive filters use passive components such as resistors, inductors, and capacitors to create filter circuits that attenuate specific harmonic frequencies. They rely on the inherent properties of these components to provide harmonic mitigation	Active filters use electronic components such as transistors, amplifiers, and control systems to actively monitor the harmonic content and generate compensating signals that cancel out the harmonics. They inject these signals into the system to reduce or eliminate the harmonic distortion.
Flexibility	Passive filters are effective in mitigating harmonics at specific frequencies for which they are designed. They provide a fixed amount of harmonic compensation and are generally suitable for addressing individual harmonics or narrow bands of harmonics. For this reason, is difficult to tune on the specific system requirement and avoid resonance effect.	Active filters offer a high degree of flexibility in terms of adjusting their compensation characteristics and adapting to changing harmonic conditions. They can provide precise control and compensation over a wide range of harmonic frequencies and amplitudes.
Size and weight	Passive filters tend to be larger and heavier compared to active filters, primarily due to the physical size of the passive components involved. They may require more space for installation.	Daikin Active Filter is fully integrated on chiller footprint, does not require 'on field activity' such as wiring or setting.

Make sure to understand system requirement and provide the right solution based on real customer needs.

C) Integrated Active Harmonic Filter by Daikin

Daikin offer a unique solution for active harmonic filtration developed by Daikin Power Electronic division. Based on same proprietary technology used for compressors drive, the active harmonic filter by Daikin is fully integrated on the chiller. The device is installed inside the electrical panel, cooled by the refrigerant from the chiller circuit ensuring temperature control in all operating conditons regardless environmental conditions.



The Active Filter monitors the supply current including distortion. From this reading the control system reacts producing same current harmonics with opposite sign cancelling out distortions on current from the grid.

Power can be fed by networks or by local backup generators. Overload protection and current limit can be enabled.

The device measure line current and voltage harmonics such as THD_I, TDD_I and THD_V.

Harmonic current reduction is performed in a frequency range from the 2nd to the 49th harmonic thus to meet requirements of IEEE 519 standard (TDD_I <5%).

It's possible to choose which harmonic to compensate to avoid possible resonances with AC grid.

Note: the iAHF operation may be affected by presence of other equipment installed: UPS, Power factor correction devices, generators are example of components that may interfere with AHF operation.
Consulting with a qualified electrical engineer or power quality specialist is highly recommended to design and implement an effective strategy to achieve low THD levels in your specific system.

Free Cooling

EWF- TZ D - chillers are provided with fully integrated free cooling system (heat exchanger and piping). The unit control enables the free cooling operation when the outdoor air temperature is cold enough to chill the fluid returning to the chiller form the system. Standard unit is configured with open loop free cooling meaning that the fluid from the system pass through the free cooling heat exchanger. The closed loop version is available as option to allow operation with water or lower percentage of glycol in the system.
Either open loop or closed loop versions have free cooling components integrated in the unit footprint, no additional space required compared to a standard chiller without free cooling capability.

standard version





with integrated free cooling





Range overview

The IV generation of TZ is available with 3 refrigerants:

- R1234ze (EWFH)
- R513A (EWFS)
- R134a (EWFD)

all available in four efficiency tiers:

- Blue (B-)
- Silver (S-)
- Gold (X-)
- Platinum (P-)

two sound configurations:

- Standard Noise
- Standard Sound + option 76-b (compressor enclosure)

Superior control logic

The MicroTech 4 controller provides an easy-to-use control environment. The control logic is designed to provide maximum efficiency, to continue operation in unusual operating conditions and to provide history of unit operation. Easy interface with, BACnet, Ethernet TCP/IP or Modbus communications. Master/Slave operation is provided as standard allowing to connect 4 units working as single system.

Code requirements – Safety and observant of laws/directives

All units are designed and manufactured in accordance with the following directives and harmonized standards:

Low voltage directive	DIRECTIVE 2014/35/EU
Electromagnetic compatibility (EMC)	DIRECTIVE 2014/30/EU
Machinery directive	DIRECTIVE 2006/42/EC
Pressure equipment design	DIRECTIVE 2014/68/EU
Ecodesign	DIRECTIVE 2009/125/EC
Safety of machinery	EN 60204-1
EMC - Part 6-2	EN 61000-6-2
EMC - Part 6-4	EN 61000-6-4
Safety and environmental requirements	EN 378-1; EN 378-2; EN 378-4
Methods for calculation pressure relief devices.	EN 13136

Certifications

Units are CE marked, complying with European directives in force, concerning manufacturing and safety.

Compressors

Semi-hermetic Single Screw Compressor with integrated Variable Frequency Drive (VFD). The Single Screw compressor technology by Daikin is design to achieve TOP efficiency level at full capacity as well as in part-load situation. The main screw engages with the gate rotor(s) creating the compression chamber. The gate rotor (one or two depending on the compressor size) is made of a composite material with enhanced resistance to mechanical stress. The compressor capacity is continuously modulated by the integrated VFD. The drive is cooled directly by the refrigerant allowing for continuous operation regardless environmental condition (unlike the air cooled and glycol cooled drives). Gold and Platinum versions are also equipped with variable Volume Ratio (VVR) technology to further enhance compression efficiency during part load operation.

Evaporator

1) **single circuit units**

direct expansion plate-to-plate type evaporator This heat exchanger is made of stainless-steel brazed plates and is covered with 20mm closed cell insulation material. The exchanger is equipped with an electric heater for protection against freezing and evaporator water connections are provided with Victaulic kit (as standard). The evaporator is manufactured in accordance with 2014/68/EU.

2) **dual circuit units:**

direct expansion shell & tube evaporator with refrigerant evaporating inside the tubes and water flowing in the shell. The tubes are enhanced for maximum heat transfer and rolled into steel tube sheet and sealed.

The evaporators are single-pass on both 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.

For both BPHE and S&T evaporators the installation of flow switch and filter is mandatory.

Condenser

The condenser coils are made entirely of aluminum. Full-depth louvered aluminum fins are inserted between the aluminum tubes maximizing the heat exchange. The Microchannel technology ensures the highest performance with the minimum surface for the exchanger. This technology reduces unit refrigerant charge compared to traditional copper tubes and aluminum condenser.

Special treatment ensure resistance to the corrosion by atmospheric agents extending the lifetime.

Note: applications in industrial, costal, highly polluted urban environment or combinations of them, require proper evaluation to understand if additional measures are needed to protect the condenser coil from the aggressive environment.

Free Cooling circuit

The free cooling circuit is integrated in the chiller footprint. Each condensing module is equipped with additional freecooling microchannel aluminum coils. Pipes are made of steel with integrated filter for free cooling circuit. Motorized valves managed by unit control send the fluid to the evaporator or to free cooling exchanger first based on the operating conditions.

Standard unit is with "open loop" configuration meaning that the fluid from the system is sent directly in the free cooling heat exchanger. Fluid must be a brine mixture to prevent freeze and burst when temperature is equal or lower than 4°C.

As option the unit can be provided with "closed loop" configuration. In this configuration a closed loop is created between the free cooling heat exchanger and an additional brazed plate heat exchanger with a circulating pump. Fluid in the closed loop is with glycol. The fluid returning from the system is chilled by the glycol coming from the free cooling exchanger in the intermediate heat exchanger. The glycol is confined in the closed loop and the fluid in the system can be pure water or lower concentration of glycol.

Fans

Fans are propeller type with high efficiency design blades developed by Daikin to maximize performances. Fans are driven by variable speed EC motors to enhance efficiency at all conditions and reduce sound in extend operating range

towards negative ambient temperatures. Fan is rated IP55.

Electronic expansion valve

The unit is equipped with electronic expansion valves to achieve precise control of refrigerant mass flow. As today's systems require improved energy efficiency, accurate temperature control, wide range of operating conditions, the application of electronic expansion valves becomes mandatory.
Electronic expansion valves have 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. If compared to traditional thermostatic valves, electronic expansion valves allow the system to work with low condenser pressure (wintertime) without any refrigerant flow problems and the perfect control of the chilled water temperature.

Refrigerant circuit

Each unit has one or two independent refrigerant circuits and each one includes:

- Compressor
- Refrigerant
- Evaporator
- Air Cooled Condenser
- Electronic expansion valve
- Sight glass with moisture indicator
- Filter drier
- Charging valves
- High pressure switch
- High pressure transducers
- Low pressure transducers
- Oil pressure transducer
- Suction temperature sensor

Electrical panel

Power and control are 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 against possible accidental contact with live parts. The main panel is fitted with a main switch interlocked door that shuts off power supply when opening.

MicroTech 4 controller

The new MicroTech 4 controller is installed as standard in all Daikin units.
It gives the possibility to check the most relevant control parameters and modify unit set points. Additionally, temperatures and pressures of water, refrigerant and air, programmable values, set points can be accessed based on a preset list of user profiles. A sophisticated software with adaptive logic, selects the most energy efficient combination of compressors, EEXV and fans to keep stable operating conditions to maximize unit energy efficiency and reliability.
MicroTech 4 protects critical components based on external signals from onboard sub-system (such as motor temperatures, refrigerant and oil pressures and temperatures, correctness of phase sequence, pressure switches and freezing of heat exchanger). The input coming from high-pressure switches cuts all digital output from the controller in less than 50ms, as an additional security for the equipment. Floating point calculations supported for increased accuracy in Pressure / Temperature conversions.

Control main features

- Control system has the following features:
- Management of compressors and fans modulation
- Control of cooling or heating leaving water temperatures
- Management of cooling and heating capacities according to the load
- Switch of operating modes in less than 1 minute
- Return reset (set point reset based on return water temperature)
- Set point reset (optional)
- Unit operation in partial failure condition
- Managed operations during critical conditions:
- High ambient temperature
- High thermal load
- Startup with high and low differential operating conditions
- Startup with high entering water temperature in cooling mode
- Startup with low entering water temperature in heating mode

- Optimized management of compressor load
- Optimized fan management according to condensing pressure
- General faults alarm relay
- Automatic re-start in case of power failure
- Rapid Restart to recover full load in the shortest possible time for Data Centre application.
- ICM Standard control for multiple units' management (optional)
- Soft load (optimized management of the compressor load during the start-up)
- Start at high cold heat exchanger water temperature.

Visualization of:

- cooling and heating entering/leaving water temperature of heat exchangers.
- outdoor ambient temperature
- condensing-evaporating temperature and pressure, suction, and discharge superheat for each circuit
- hours and starts counter for compressors and pumps.
- status safety devices

Control additional features

- System upgrade with commercial SD cards
- Save/Restore of configuration parameters with a commercial SD card.
- Ethernet port for remote or local servicing using standard web browsers.
- Daikin on Site connectivity for cloud based.

Safety device / logic for each refrigerant circuit. The following devices / logics are available:

- high pressure (pressure switch)
- high pressure (transducer)
- low pressure (transducer)
- fans circuit breakers
- high compressor discharge temperature
- high motor winding temperature
- phase monitor
- low pressure ratio
- high oil pressure drops.
- low oil pressure
- no pressure changes at start

System security

The following securities are available:

- phase monitor (available as option)
- low ambient temperature lock-out
- freeze protection.

Regulation type

Proportional integral derivative regulation on the cold heat exchanger leaving water output probe.

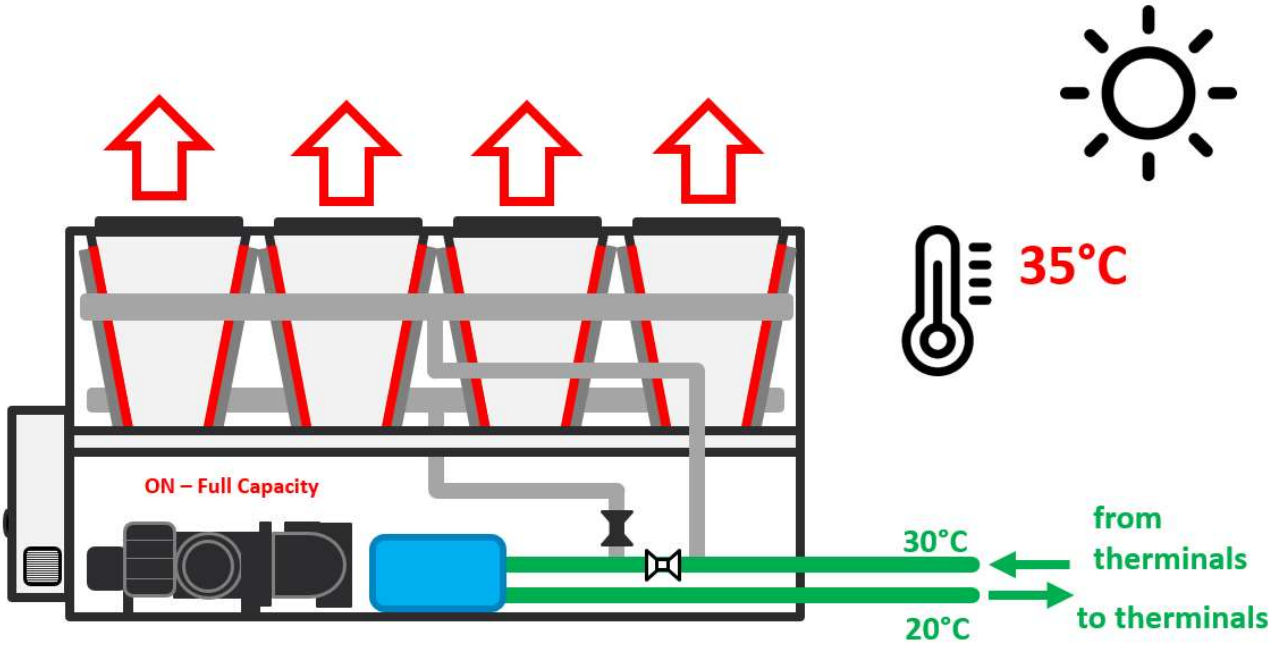
Supervising systems MicroTech 4 remote communication (on request)
MicroTech 4 can communicate to BMS (Building Management System) based on the most common protocols as:

- Modbus RTU (Native)
- BACnet BTP certified over IP and MS/TP (class 4) (Native)
- Ethernet TCP/IP (Native)

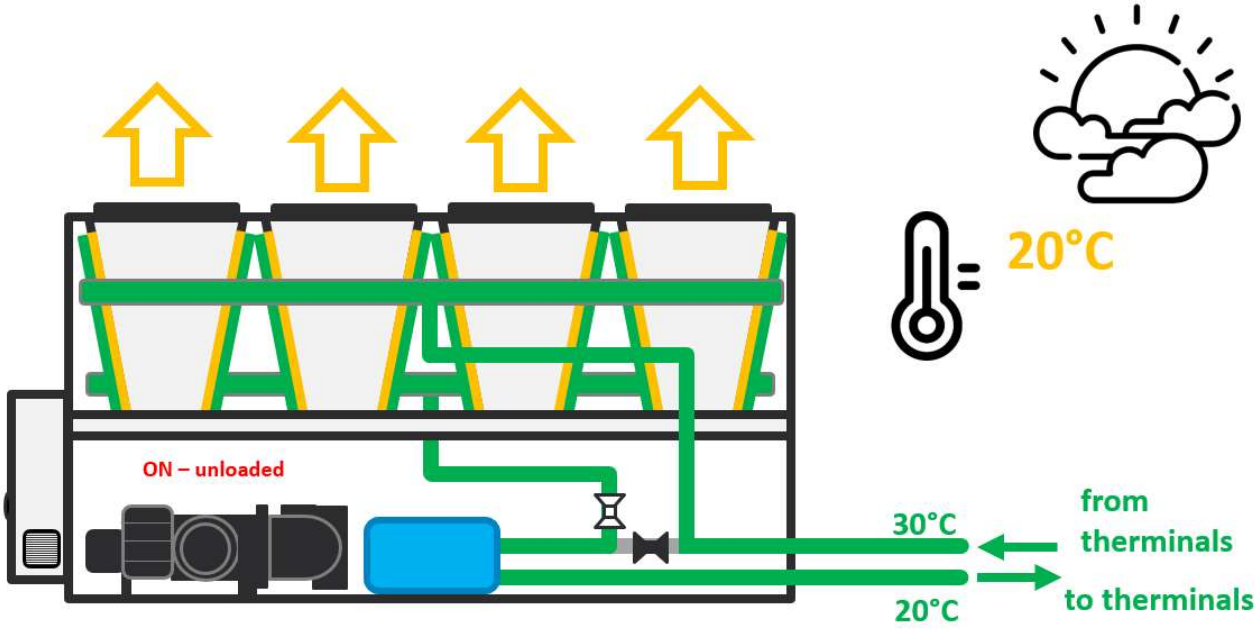
2. Free Cooling description

Free Cooling operation – Open Loop (with glycol)

EWFT chiller is equipped with fully integrated free cooling system to exploit the cold energy available from the environment to chill the fluid.
The fluid entering the unit can be sent directly to the evaporator (where mechanical cooling is provided) or to the free cooling coils installed in series with the condenser coils first and then to the evaporator.
Fluid in air cooled exchanger must be glycol mixture to avoid bursting and freezing when ambient temperatures is close and below zero.
When outdoor ambient is above fluid temperature the unit runs in full mechanical mode providing the cooling capacity using only the compressors as a traditional chiller. This operating mode is called “mechanical cooling”

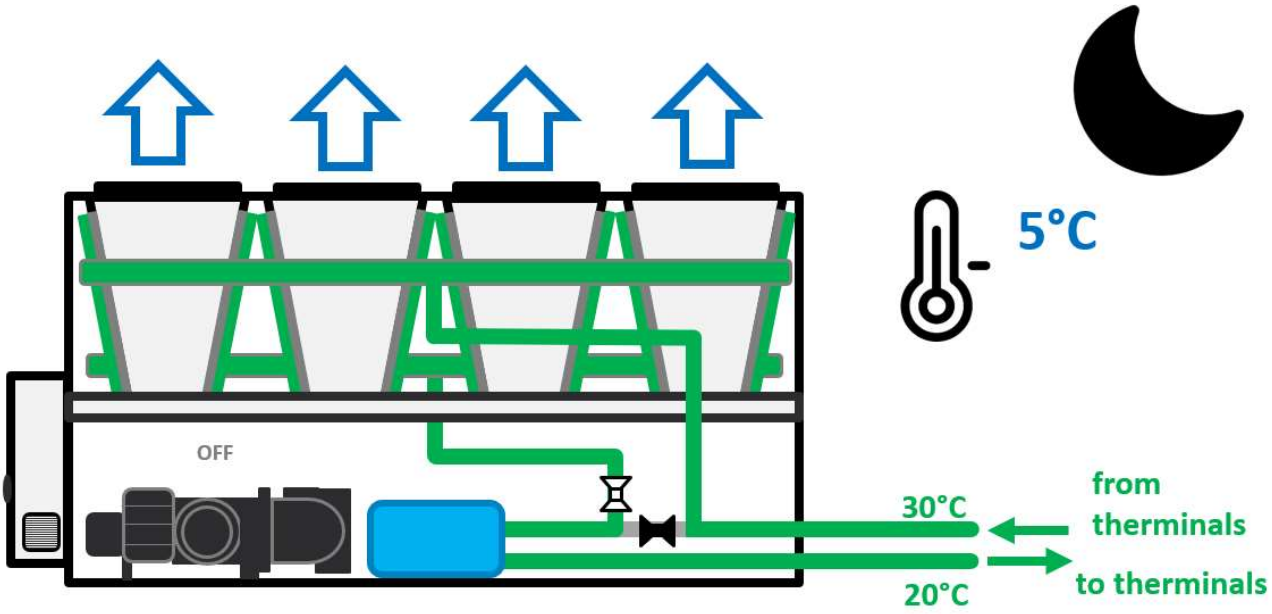


Once ambient temperature falls below enough the temperature of the fluid entering the unit, is possible to exploit the outdoor air to pre-chill the fluid before entering the evaporator. The fluid returning to the chiller is sent to the free cooling heat exchanger installed in series with the condenser to be chilled by the outdoor air.



The fluid leaves the free cooling exchanger after been partially chilled and enters the chiller evaporator to be brought to set point temperature. This operating condition is usually called “partial free cooling” or “mixed mode” because the fluid is chilled at first using the air for the surroundings and only after enters the chiller evaporator where the mechanical cooling (with compressors) provides the remaining cold energy. Having part of the cooling effect provided for free by ambient air, the mechanical cooling is required for a fraction of the required load so mechanical cooling operates unloaded with air efficiency.

When ambient temperature is lower enough than required set point the load is entirely provided for free by the outdoor air. The mechanical cooling is turned off and the fluid leaves the free cooling exchanger at set point temperature. This operating mode is called “Full Free Cooling mode”

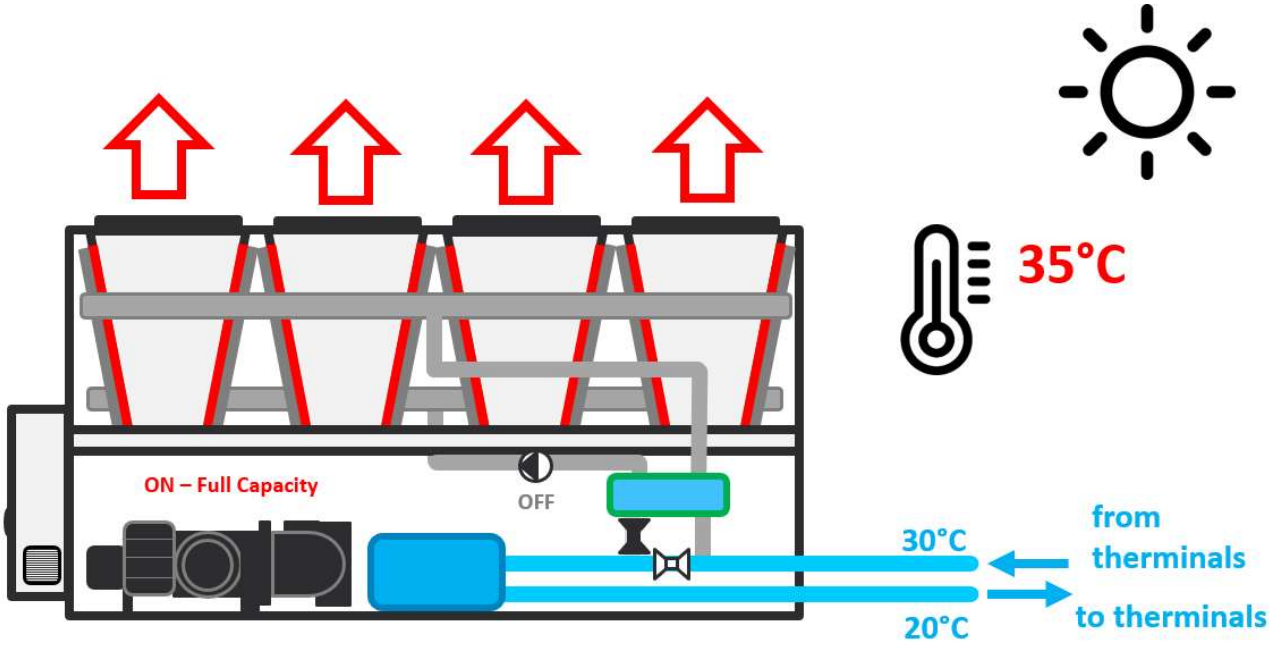


The modulation of the capacity is achieved adjusting the fan speed based on required capacity and ambient temperature.

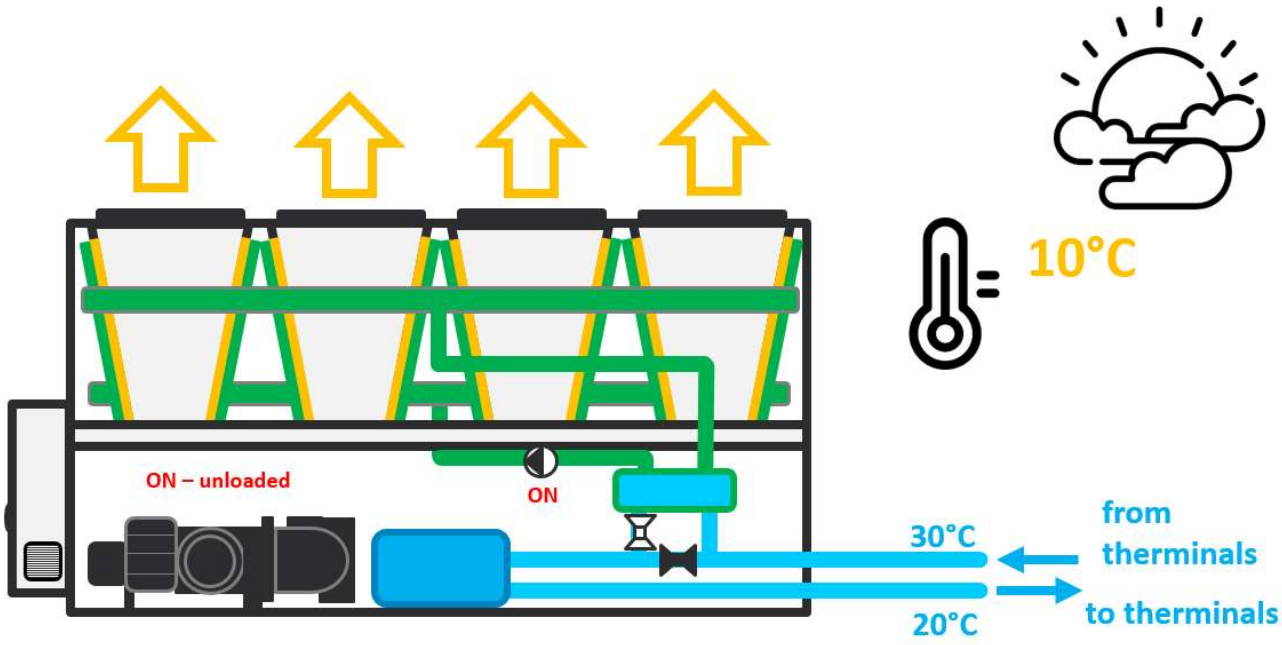
The cooling efficiency for the three operating modes change greatly based on the ambient temperature and so the operating mode. Applications with high occurrence of Mixed Mode and Free Cooling Mode provides short Return of Investment (ROI) against traditional chillers.

Free Cooling operation – Closed Loop (without glycol) (OPT231)

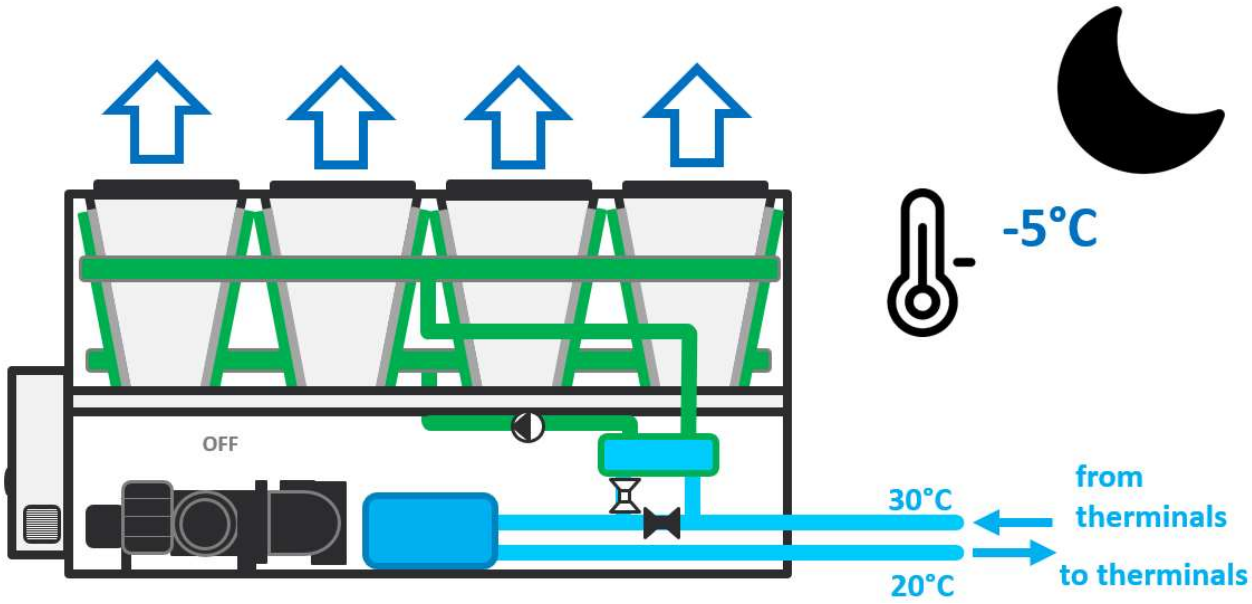
To prevent bursting and freezing in the free cooling exchanger when ambient temperatures is close and below zero use of glycol is required. For installation where glycol is not allowed in the system is possible to select option 231 to have the Closed Loop version. By selecting option 231 the unit is equipped with a brazed plate heat exchanger installed to create a closed loop with the free cooling exchanger and a dedicated pump. With this option the fluid in the system can be pure water while the glycol is confined in the closed loop between free cooling exchanger and brazed plate exchanger. The concept is the same of Open Loop version. When ambient temperature is above the water temperature returning to the unit the operation is purely mechanical. The pump on the closed loop is OFF and the BPHE is bypassed.



When ambient temperature is lower enough than the returning water temperature the “Mixed Mode” is enabled. The pump in the closed loop in tuned ON and the water is pre-chiller in the BPHE by the flowing in the free cooling exchanger.



Compared to the open loop version the temperature difference between water entering the exchanger and ambient must be bigger as result of the additional heat exchange.
When outdoor temperature is cold enough the mechanical cooling is turned OFF and the full capacity is provided by Free Cooling operation.



Due to the additional heat exchange the Free Cooling Performances are lower than Open Loop version while the performance in mechanical mode is the same.

Technical Data – Closed Loop (without glycol) (OPT231)

Model	Length [mm]	Shipping weight [kg]	Operating weight [kg]	Fluid content [l]	Max Running Current [A]	Current for Wiring Sizing [A]
EWFD275TZBSD1	3645	3283	3761	338	231	253
EWFD320TZBSD1	3954	3802	4330	388	272	297
EWFD345TZBSD1	3954	3802	4330	388	294	297
EWFD400TZBSD1	5039	4548	5078	388	364	398
EWFD470TZBSD1	5039	4579	5126	404	382	418
EWFD525TZBSD1	5034	5180	5792	454	418	458
EWFD580TZBSD1	5034	5200	5820	462	477	489
EWFD625TZBSD1	5034	5200	5820	462	491	495
EWFD510TZBSD2	5034	7076	7900	454	428	469
EWFD545TZBSD2	5034	7076	7900	454	460	504
EWFD570TZBSD2	5034	7076	7900	454	491	537
EWFD630TZBSD2	6112	6931	7804	518	530	578
EWFD670TZBSD2	6112	6949	7829	525	576	581
EWFD755TZBSD2	8279	9230	10196	587	626	686
EWFD830TZBSD2	8279	9230	10196	587	695	762
EWFD915TZBSD2	8279	9597	10787	609	701	768
EWFDC10TZBSD2	8279	9597	10787	609	790	865
EWFDH10TZBSD2	9359	10433	11763	674	856	935
EWFDH11TZBSD2	9264	11234	12626	735	923	974
EWFDC12TZBSD2	10434	11505	12946	785	969	986
EWFDC13TZBSD2	11514	11972	13479	850	987	997
EWFDC14TZBSD2	11200	11972	13479	850	1159	1271
EWFDC15TZBSD2	12280	13171	15197	915	1239	1314
EWFDH16TZBSD2	12594	14795	16843	938	1280	1333
EWFDH17TZBSD2	12594	14795	16843	938	1393	1527
EWFDH18TZBSD2	13674	15394	17493	988	1528	1674
EWFDH19TZBSD2	13674	15394	17493	988	1661	1674

Model	Length [mm]	Shipping weight [kg]	Operating weight [kg]	Fluid content [l]	Max Running Current [A]	Current for Wiring Sizing [A]
EWFD285TZSSD1	3954	3802	4330	388	238	262
EWFD325TZSSD1	5034	4372	4962	442	283	309
EWFD380TZSSD1	5034	4372	4962	442	304	309
EWFD430TZSSD1	5034	5084	5668	442	371	406
EWFD495TZSSD1	5034	5180	5792	454	390	427
EWFD535TZSSD1	6114	5683	6351	510	425	466
EWFD595TZSSD1	6114	5703	6378	518	487	500
EWFD650TZSSD1	6114	5703	6378	518	495	500
EWFD520TZSSD2	6112	6911	7791	510	435	477
EWFD555TZSSD2	6112	6911	7791	510	464	510
EWFD585TZSSD2	6112	6931	7819	518	498	545
EWFD645TZSSD2	7194	7966	8889	568	537	587
EWFD705TZSSD2	7194	7984	8915	575	586	593
EWFD760TZSSD2	8274	9810	10821	631	630	691
EWFD835TZSSD2	8274	9841	10864	643	705	773
EWFD960TZSSD2	8274	10229	11469	659	732	803
EWFDC10TZSSD2	8274	10229	11469	659	794	870
EWFDH10TZSSD2	9359	10393	11708	659	822	901
EWFDH11TZSSD2	9264	11234	12626	735	923	974
EWFDH12TZSSD2	11514	11936	13428	835	987	997
EWFDH13TZSSD2	12594	12621	14193	915	981	1003
EWFDH14TZSSD2	12280	13171	15197	915	1195	1310
EWFDH15TZSSD2	12594	14734	16759	915	1163	1276
EWFDH16TZSSD2	12594	14795	16843	938	1280	1333
EWFDH17TZSSD2	13674	15394	17493	988	1404	1539
EWFDH18TZSSD2	13674	15394	17493	988	1528	1674
EWFDH19TZSSD2	13674	15394	17493	988	1661	1674

Model	Length [mm]	Shipping weight [kg]	Operating weight [kg]	Fluid content [l]	Max Running Current [A]	Current for Wiring Sizing [A]
EWFD295TZXSD1	3954	4006	4533	388	232	254
EWFD345TZXSD1	5034	4576	5166	442	272	298
EWFD380TZXSD1	5034	4576	5166	442	300	309
EWFD440TZXSD1	6114	5737	6406	510	328	359
EWFD515TZXSD1	6114	5737	6406	510	353	387
EWFD565TZXSD1	7194	6479	7215	560	418	458
EWFD635TZXSD1	7194	6498	7243	568	466	505
EWFD705TZXSD1	6880	6607	7358	575	540	592
EWFD760TZXSD1	6880	6637	7400	587	595	651
EWFD525TZXSD2	8279	8632	9547	560	400	438
EWFD565TZXSD2	8279	8632	9547	560	443	486
EWFD610TZXSD2	8274	9127	10105	624	471	517
EWFD670TZXSD2	8274	9127	10105	624	515	565
EWFD725TZXSD2	8274	9430	10459	631	553	602
EWFD805TZXSD2	9354	9860	11133	693	594	627
EWFD880TZXSD2	9354	10647	11921	693	653	715
EWFD950TZXSD2	9354	10705	12005	720	709	778
EWFDC10TZXSD2	10434	11427	12778	770	746	818
EWFDH10TZXSD2	10434	11467	12833	785	808	886
EWFDH11TZXSD2	11514	12079	13571	835	771	845
EWFDC12TZXSD2	11514	12079	13571	835	842	922
EWFDH12TZXSD2	11514	12486	13977	835	884	957
EWFDH13TZXSD2	12594	13171	15197	915	932	957
EWFDH14TZXSD2	13674	15333	17409	965	1030	1130
EWFDH15TZXSD2	13674	15333	17409	965	1142	1253
EWFDH16TZXSD2	13674	15394	17493	988	1256	1307
EWFDH17TZXSD2	13674	15394	17493	988	1369	1502

Model	Length [mm]	Shipping weight [kg]	Operating weight [kg]	Fluid content [l]	Max Running Current [A]	Current for Wiring Sizing [A]
EWFD285TZPSD1	5034	4576	5166	442	228	250
EWFD330TZPSD1	6114	6017	6662	498	269	295
EWFD370TZPSD1	6114	6017	6662	498	296	320
EWFD405TZPSD1	7194	6374	7079	548	307	336
EWFD450TZPSD1	7194	6479	7215	560	363	398
EWFD490TZPSD1	7194	6479	7215	560	414	455
EWFD530TZPSD2	8274	9107	10078	616	410	450
EWFD575TZPSD2	8274	9107	10078	616	443	486
EWFD615TZPSD2	9354	9347	10376	674	482	529
EWFD675TZPSD2	9354	9347	10376	674	522	573
EWFD735TZPSD2	9354	9500	10580	681	553	602
EWFD810TZPSD2	10434	10345	11680	754	594	627
EWFD890TZPSD2	10434	11369	12704	754	642	704
EWFD960TZPSD2	10434	11427	12778	770	699	766
EWFDC10TZPSD2	11514	11903	13303	820	736	807
EWFDH10TZPSD2	11514	11903	13303	820	787	864
EWFDH11TZPSD2	12594	12297	13853	900	823	903
EWFDC12TZPSD2	12594	12297	13853	900	871	956
EWFDH12TZPSD2	12594	13136	15146	900	932	1021
EWFDH13TZPSD2	13360	13821	15897	965	984	1054
EWFDH14TZPSD2	13674	15333	17409	965	1072	1176
EWFDH15TZPSD2	13674	15333	17409	965	1174	1287

Model	Length [mm]	Shipping weight [kg]	Operating weight [kg]	Fluid content [l]	Max Running Current [A]	Current for Wiring Sizing [A]
EWFH235TZBSD1	3645	3221	3686	326	211	232
EWFH255TZBSD1	3645	3221	3686	326	237	260
EWFH300TZBSD1	3645	3327	3813	338	282	290
EWFH350TZBSD1	4725	4504	5035	388	305	334
EWFH400TZBSD1	4725	4504	5035	388	348	381
EWFH420TZBSD1	4725	4504	5035	388	372	408
EWFH455TZBSD1	4725	4535	5082	404	416	456
EWFH505TZBSD1	4725	4600	5162	404	455	477
EWFH545TZBSD1	4720	5130	5743	454	480	486
EWFH400TZBSD2	4720	6812	7506	442	345	378
EWFH425TZBSD2	4720	9932	10626	442	373	408
EWFH485TZBSD2	4720	7009	7818	454	420	461
EWFH545TZBSD2	4720	7009	7795	454	472	518
EWFH590TZBSD2	5800	6865	7738	518	512	552
EWFH635TZBSD2	5800	6865	7715	518	583	581
EWFH745TZBSD2	7965	9111	10067	575	608	666
EWFH785TZBSD2	7965	9142	10109	587	651	713
EWFH845TZBSD2	7965	9448	10627	587	693	760
EWFH900TZBSD2	7960	10132	11382	659	745	817
EWFH985TZBSD2	9045	10294	11635	659	834	913
EWFHC11TZBSD2	9040	10983	12861	735	922	968
EWFHH11TZBSD2	9040	10983	12861	735	966	974
EWFHC13TZBSD2	11205	13378	15273	785	1054	1155
EWFHH13TZBSD2	11205	13413	15324	800	1145	1249
EWFHH14TZBSD2	11200	13983	15943	850	1257	1379
EWFHC15TZBSD2	11200	13983	15943	850	1369	1502
EWFHH15TZBSD2	12280	14593	16619	915	1439	1579

Model	Length [mm]	Shipping weight [kg]	Operating weight [kg]	Fluid content [l]	Max Running Current [A]	Current for Wiring Sizing [A]
EWFH240TZSSD1	3640	3735	4250	376	220	242
EWFH265TZSSD1	3640	3735	4250	376	245	269
EWFH295TZSSD1	3640	3843	4378	388	267	292
EWFH370TZSSD1	4720	5036	5620	442	312	342
EWFH415TZSSD1	4720	5036	5620	442	358	393
EWFH450TZSSD1	4720	5130	5743	454	383	419
EWFH490TZSSD1	4720	5130	5743	454	424	464
EWFH540TZSSD1	5800	5628	6297	510	470	494
EWFH400TZSSD2	5800	7402	8151	498	355	390
EWFH470TZSSD2	5800	7433	8195	510	415	456
EWFH535TZSSD2	5800	6845	7711	510	442	485
EWFH595TZSSD2	6880	7871	8763	560	509	558
EWFH630TZSSD2	6880	7890	8790	568	541	584
EWFH690TZSSD2	7965	9094	10042	568	556	610
EWFH740TZSSD2	7965	9111	10067	575	601	659
EWFH795TZSSD2	7960	9747	10770	643	655	718
EWFH855TZSSD2	7960	10074	11309	643	704	771
EWFH910TZSSD2	9040	10459	11771	720	756	829
EWFH980TZSSD2	10120	10919	12280	770	828	909
EWFHC10TZSSD2	11200	11783	13286	820	879	964
EWFHC11TZSSD2	11200	12225	14203	835	917	985
EWFHC12TZSSD2	11200	12225	14203	835	987	997
EWFHH12TZSSD2	11200	13947	15893	835	1058	1161
EWFHH13TZSSD2	11200	13983	15943	850	1156	1261
EWFHC14TZSSD2	12280	14593	16619	915	1267	1390
EWFHC15TZSSD2	13360	15187	17263	965	1390	1525
EWFHH15TZSSD2	13360	15187	17263	965	1449	1591

Model	Length [mm]	Shipping weight [kg]	Operating weight [kg]	Fluid content [l]	Max Running Current [A]	Current for Wiring Sizing [A]
EWFH220TZXSD1	3645	3422	3887	326	180	197
EWFH230TZXSD1	3645	3422	3887	326	191	209
EWFH275TZXSD1	3640	4044	4579	388	222	243
EWFH300TZXSD1	3640	4044	4579	388	246	270
EWFH350TZXSD1	4720	5089	5673	442	280	307
EWFH400TZXSD1	4720	5089	5673	442	324	355
EWFH470TZXSD1	5800	5683	6351	510	371	407
EWFH515TZXSD1	5800	5683	6351	510	408	448
EWFH540TZXSD1	5800	6067	6754	510	425	466
EWFH620TZXSD1	5800	6087	6781	518	509	558
EWFH465TZXSD2	7965	8102	8914	560	375	411
EWFH545TZXSD2	7965	8550	9442	560	420	457
EWFH600TZXSD2	7965	8402	9351	560	462	507
EWFH645TZXSD2	7965	9180	10137	568	490	537
EWFH700TZXSD2	7965	7567	8531	575	537	589
EWFH750TZXSD2	7960	10151	11375	631	548	600
EWFH790TZXSD2	9040	10515	11789	681	599	657
EWFH840TZXSD2	9040	10546	11831	693	638	700
EWFH900TZXSD2	9040	10818	12221	720	682	747
EWFH975TZXSD2	10120	11395	12848	770	729	799
EWFHH10TZXSD2	11200	12367	14312	835	814	893
EWFHH11TZXSD2	11200	13947	15893	835	935	1025
EWFHH12TZXSD2	12280	14558	16569	900	1025	1124
EWFHH13TZXSD2	13360	15187	17263	965	1123	1231

Model	Length [mm]	Shipping weight [kg]	Operating weight [kg]	Fluid content [l]	Max Running Current [A]	Current for Wiring Sizing [A]
EWFH225TZPSD1	3640	3936	4452	376	189	207
EWFH265TZPSD1	4720	4532	5122	442	220	242
EWFH295TZPSD1	4720	4532	5122	442	243	266
EWFH340TZPSD1	5800	5651	6307	498	268	294
EWFH395TZPSD1	5800	5651	6307	498	311	341
EWFH435TZPSD1	6880	6313	7019	548	344	377
EWFH490TZPSD1	6880	6417	7153	560	378	414
EWFH545TZPSD1	6880	6506	7243	560	435	478
EWFH500TZPSD2	7965	8402	9351	560	385	423
EWFH540TZPSD2	7960	9303	10308	616	416	455
EWFH615TZPSD2	7960	10134	11350	624	446	490
EWFH645TZPSD2	7960	10134	11350	624	472	517
EWFH700TZPSD2	7960	10151	11375	631	522	573
EWFH770TZPSD2	9040	10731	12095	681	579	634
EWFH845TZPSD2	10120	11209	12609	754	629	690
EWFH900TZPSD2	10120	11261	12661	754	673	738
EWFH960TZPSD2	11200	12327	14290	820	721	790
EWFHC10TZPSD2	11200	12327	14290	820	757	831
EWFHH10TZPSD2	12280	12971	14966	885	805	883
EWFHH11TZPSD2	12280	14518	16514	885	908	995
EWFHC12TZPSD2	13360	15152	17212	950	956	1048

Model	Length [mm]	Shipping weight [kg]	Operating weight [kg]	Fluid content [l]	Max Running Current [A]	Current for Wiring Sizing [A]
EWFS275TZBSD1	3645	3283	3761	338	231	253
EWFS320TZBSD1	3954	3802	4330	388	272	297
EWFS345TZBSD1	3954	3802	4330	388	294	297
EWFS400TZBSD1	5039	4547	5078	388	364	398
EWFS470TZBSD1	5039	4579	5126	404	382	418
EWFS525TZBSD1	5034	5180	5792	454	418	458
EWFS580TZBSD1	5034	5199	5819	462	477	489
EWFS625TZBSD1	5034	5199	5819	462	491	495
EWFS755TZBSD2	8279	9229	10196	587	626	686
EWFS830TZBSD2	8279	9229	10196	587	695	762
EWFS915TZBSD2	8279	9597	10786	609	701	768
EWFSC10TZBSD2	8279	9597	10786	609	790	865
EWFSH10TZBSD2	9359	10433	11763	674	856	935
EWFSH11TZBSD2	9264	11234	12625	735	923	974
EWFSC12TZBSD2	10434	11505	12947	785	969	986
EWFSC13TZBSD2	11514	11972	13479	850	987	997
EWFSC14TZBSD2	11200	11972	13479	850	1159	1271
EWFSC15TZBSD2	12280	13171	15197	915	1239	1314
EWFSH16TZBSD2	12594	14795	16844	938	1280	1333
EWFSH17TZBSD2	12594	14795	16844	938	1393	1527
EWFSH18TZBSD2	13674	15394	17493	988	1528	1674
EWFSH19TZBSD2	13674	15394	17493	988	1661	1674

Model	Length [mm]	Shipping weight [kg]	Operating weight [kg]	Fluid content [l]	Max Running Current [A]	Current for Wiring Sizing [A]
EWFS285TZSSD1	3954	3802	4330	388	238	262
EWFS325TZSSD1	5034	4372	4962	442	283	309
EWFS380TZSSD1	5034	4372	4962	442	304	309
EWFS430TZSSD1	5034	5084	5668	442	371	406
EWFS495TZSSD1	5034	5180	5792	454	390	427
EWFS535TZSSD1	6114	5682	6350	510	425	466
EWFS595TZSSD1	6114	5702	6378	518	487	500
EWFS650TZSSD1	6114	5702	6378	518	495	500
EWFS520TZSSD2	6112	6911	7791	510	435	477
EWFS555TZSSD2	6112	6911	7791	510	464	510
EWFS585TZSSD2	6112	6931	7819	518	498	545
EWFS645TZSSD2	7194	7966	8889	568	537	587
EWFS705TZSSD2	7194	7984	8915	575	586	593
EWFS760TZSSD2	8274	9810	10821	631	630	691
EWFS835TZSSD2	8274	9840	10863	643	705	773
EWFS960TZSSD2	8274	10229	11468	659	732	803
EWFSC10TZSSD2	8274	10229	11468	659	794	870
EWFSH10TZSSD2	9359	10393	11708	659	822	901
EWFSH11TZSSD2	9264	11234	12625	735	923	974
EWFSH12TZSSD2	11514	11937	13428	835	987	997
EWFSH13TZSSD2	12594	12621	14193	915	981	1003
EWFSH14TZSSD2	12280	13171	15197	915	1195	1310
EWFSH15TZSSD2	12594	14734	16759	915	1163	1276
EWFSH16TZSSD2	12594	14795	16844	938	1280	1333
EWFSH17TZSSD2	13674	15394	17493	988	1404	1539
EWFSH18TZSSD2	13674	15394	17493	988	1528	1674
EWFSH19TZSSD2	13674	15394	17493	988	1661	1674

Model	Length [mm]	Shipping weight [kg]	Operating weight [kg]	Fluid content [l]	Max Running Current [A]	Current for Wiring Sizing [A]
EWFS295TZXSD1	3954	4006	4533	388	232	254
EWFS345TZXSD1	5034	4576	5165	442	272	298
EWFS380TZXSD1	5034	4576	5165	442	300	309
EWFS440TZXSD1	6114	5737	6405	510	328	359
EWFS515TZXSD1	6114	5737	6405	510	353	387
EWFS565TZXSD1	7194	6478	7215	560	418	458
EWFS635TZXSD1	7194	6498	7242	568	466	505
EWFS705TZXSD1	6880	6606	7358	575	540	592
EWFS760TZXSD1	6880	6637	7400	587	595	651
EWFS525TZXSD2	8279	8632	9548	560	400	438
EWFS565TZXSD2	8279	8632	9548	560	443	486
EWFS610TZXSD2	8274	9127	10106	624	471	517
EWFS670TZXSD2	8274	9127	10106	624	515	565
EWFS725TZXSD2	8274	9430	10460	631	553	602
EWFS805TZXSD2	9354	9860	11134	693	594	627
EWFS880TZXSD2	9354	10647	11921	693	653	715
EWFS950TZXSD2	9354	10705	12005	720	709	778
EWFSC10TZXSD2	10434	11427	12778	770	746	818
EWFSH10TZXSD2	10434	11467	12833	785	808	886
EWFSH11TZXSD2	11514	12079	13571	835	771	845
EWFSC12TZXSD2	11514	12079	13571	835	842	922
EWFSH12TZXSD2	11514	12486	13977	835	884	957
EWFSH13TZXSD2	12594	13171	15197	915	932	957
EWFSH14TZXSD2	13674	15333	17409	965	1030	1130
EWFSH15TZXSD2	13674	15333	17409	965	1142	1253
EWFSH16TZXSD2	13674	15394	17493	988	1256	1307
EWFSH17TZXSD2	13674	15394	17493	988	1369	1502

Model	Length [mm]	Shipping weight [kg]	Operating weight [kg]	Fluid content [l]	Max Running Current [A]	Current for Wiring Sizing [A]
EWFS285TZPSD1	5034	4576	5165	442	228	250
EWFS330TZPSD1	6114	6016	6662	498	269	295
EWFS370TZPSD1	6114	6016	6662	498	296	320
EWFS405TZPSD1	7194	6373	7079	548	307	336
EWFS450TZPSD1	7194	6478	7215	560	363	398
EWFS490TZPSD1	7194	6478	7215	560	414	455
EWFS530TZPSD2	8274	9107	10078	616	410	450
EWFS575TZPSD2	8274	9107	10078	616	443	486
EWFS615TZPSD2	9354	9348	10376	674	482	529
EWFS675TZPSD2	9354	9348	10376	674	522	573
EWFS735TZPSD2	9354	9501	10580	681	553	602
EWFS810TZPSD2	10434	10345	11680	754	594	627
EWFS890TZPSD2	10434	11370	12705	754	642	704
EWFS960TZPSD2	10434	11427	12778	770	699	766
EWFSC10TZPSD2	11514	11903	13304	820	736	807
EWFSH10TZPSD2	11514	11903	13304	820	787	864
EWFSH11TZPSD2	12594	12297	13853	900	823	903
EWFSC12TZPSD2	12594	12297	13853	900	871	956
EWFSH12TZPSD2	12594	13136	15146	900	932	1021
EWFSH13TZPSD2	13360	13821	15897	965	984	1054
EWFSH14TZPSD2	13674	15333	17409	965	1072	1176
EWFSH15TZPSD2	13674	15333	17409	965	1174	1287

3. F-Gas Information

Additional information related to F-GAS Regulation (EU) No 517/2014 of the European Parliament and of the Council of 16 April 2014 on fluorinated greenhouse gases and repealing Regulation (EC) No 842/2006

Model	Ref. type	Ref. GWP [2]	N° of circuits	Ref. charge circuit #1 [kg] [1]	Ref. charge circuit #1 (TCO2Eq)	Ref. charge circuit #2 [kg] [1]	Ref. charge circuit #2 (TCO2Eq)
EWFH235TZBSD1	R1234ze	7	1	34,0	0,2	-	-
EWFH255TZBSD1	R1234ze	7	1	34,0	0,2	-	-
EWFH300TZBSD1	R1234ze	7	1	34,0	0,2	-	-
EWFH350TZBSD1	R1234ze	7	1	55,8	0,4	-	-
EWFH400TZBSD1	R1234ze	7	1	55,8	0,4	-	-
EWFH420TZBSD1	R1234ze	7	1	55,8	0,4	-	-
EWFH455TZBSD1	R1234ze	7	1	55,8	0,4	-	-
EWFH505TZBSD1	R1234ze	7	1	55,8	0,4	-	-
EWFH545TZBSD1	R1234ze	7	1	77,7	0,5	-	-
EWFH400TZBSD2	R1234ze	7	2	8,5	0,1	69,2	0,5
EWFH425TZBSD2	R1234ze	7	2	8,0	0,1	69,7	0,5
EWFH485TZBSD2	R1234ze	7	2	7,1	0,0	70,6	0,5
EWFH545TZBSD2	R1234ze	7	2	6,3	0,0	71,3	0,5
EWFH590TZBSD2	R1234ze	7	2	8,7	0,1	90,9	0,6
EWFH635TZBSD2	R1234ze	7	2	8,3	0,1	91,2	0,6
EWFH745TZBSD2	R1234ze	7	2	18,9	0,1	102,5	0,7
EWFH785TZBSD2	R1234ze	7	2	17,8	0,1	103,6	0,7
EWFH845TZBSD2	R1234ze	7	2	16,7	0,1	104,6	0,7
EWFH900TZBSD2	R1234ze	7	2	20,3	0,1	123,0	0,9
EWFH985TZBSD2	R1234ze	7	2	18,4	0,1	124,8	0,9
EWFHC11TZBSD2	R1234ze	7	2	22,8	0,2	142,3	1,0
EWFHH11TZBSD2	R1234ze	7	2	21,0	0,1	144,1	1,0
EWFHC13TZBSD2	R1234ze	7	2	40,5	0,3	146,4	1,0
EWFHH13TZBSD2	R1234ze	7	2	38,2	0,3	148,7	1,0
EWFHH14TZBSD2	R1234ze	7	2	44,0	0,3	164,8	1,2
EWFHC15TZBSD2	R1234ze	7	2	41,8	0,3	167,0	1,2
EWFHH15TZBSD2	R1234ze	7	2	49,7	0,3	180,9	1,3
EWFH240TZSSD1	R1234ze	7	1	55,8	0,4	-	-
EWFH265TZSSD1	R1234ze	7	1	55,8	0,4	-	-
EWFH295TZSSD1	R1234ze	7	1	55,8	0,4	-	-
EWFH370TZSSD1	R1234ze	7	1	77,7	0,5	-	-
EWFH415TZSSD1	R1234ze	7	1	77,7	0,5	-	-
EWFH450TZSSD1	R1234ze	7	1	77,7	0,5	-	-
EWFH490TZSSD1	R1234ze	7	1	77,7	0,5	-	-
EWFH540TZSSD1	R1234ze	7	1	99,5	0,7	-	-

i) The above data are referred to the unit without additional optional.
ii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

1) Refrigerant charge values are for indication only and not considered binding. Refer to unit nameplate for specific unit refrigerant charge.
2) GWP based on Fourth Assessment Report (AR4) used as reference in current REGULATION (EU) No 517/2014 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 April 2014 on fluorinated greenhouse gases and repealing Regulation (EC) No 842/2006

Model	Ref. type	Ref. GWP [2]	N° of circuits	Ref. charge circuit #1 [kg] [1]	Ref. charge circuit #1 (TCO2Eq)	Ref. charge circuit #2 [kg] [1]	Ref. charge circuit #2 (TCO2Eq)
EWFH400TZSSD2	R1234ze	7	2	13,3	0,1	86,3	0,6
EWFH470TZSSD2	R1234ze	7	2	11,1	0,1	88,5	0,6
EWFH535TZSSD2	R1234ze	7	2	10,5	0,1	89,0	0,6
EWFH595TZSSD2	R1234ze	7	2	13,0	0,1	108,4	0,8
EWFH630TZSSD2	R1234ze	7	2	12,4	0,1	108,9	0,8
EWFH690TZSSD2	R1234ze	7	2	20,2	0,1	101,1	0,7
EWFH740TZSSD2	R1234ze	7	2	17,8	0,1	103,6	0,7
EWFH795TZSSD2	R1234ze	7	2	23,9	0,2	119,4	0,8
EWFH855TZSSD2	R1234ze	7	2	22,5	0,2	120,7	0,8
EWFH910TZSSD2	R1234ze	7	2	26,2	0,2	138,9	1,0
EWFH980TZSSD2	R1234ze	7	2	31,2	0,2	155,8	1,1
EWFHC10TZSSD2	R1234ze	7	2	36,3	0,3	172,5	1,2
EWFHC11TZSSD2	R1234ze	7	2	34,8	0,2	174,0	1,2
EWFHC12TZSSD2	R1234ze	7	2	32,1	0,2	176,7	1,2
EWFHH12TZSSD2	R1234ze	7	2	49,1	0,3	159,7	1,1
EWFHH13TZSSD2	R1234ze	7	2	46,4	0,3	162,4	1,1
EWFHC14TZSSD2	R1234ze	7	2	52,3	0,4	178,3	1,2
EWFHC15TZSSD2	R1234ze	7	2	58,3	0,4	194,2	1,4
EWFHH15TZSSD2	R1234ze	7	2	58,3	0,4	194,2	1,4
EWFH220TZXSD1	R1234ze	7	1	34,0	0,2	-	-
EWFH230TZXSD1	R1234ze	7	1	34,0	0,2	-	-
EWFH275TZXSD1	R1234ze	7	1	55,8	0,4	-	-
EWFH300TZXSD1	R1234ze	7	1	55,8	0,4	-	-
EWFH350TZXSD1	R1234ze	7	1	77,7	0,5	-	-
EWFH400TZXSD1	R1234ze	7	1	77,7	0,5	-	-
EWFH470TZXSD1	R1234ze	7	1	99,5	0,7	-	-
EWFH515TZXSD1	R1234ze	7	1	99,5	0,7	-	-
EWFH540TZXSD1	R1234ze	7	1	99,5	0,7	-	-
EWFH620TZXSD1	R1234ze	7	1	99,5	0,7	-	-
EWFH465TZXSD2	R1234ze	7	2	11,7	0,1	87,8	0,6
EWFH545TZXSD2	R1234ze	7	2	15,8	0,1	105,5	0,7
EWFH600TZXSD2	R1234ze	7	2	14,3	0,1	107,1	0,7
EWFH645TZXSD2	R1234ze	7	2	21,7	0,2	99,6	0,7
EWFH700TZXSD2	R1234ze	7	2	20,2	0,1	101,1	0,7
EWFH750TZXD2	R1234ze	7	2	25,4	0,2	117,9	0,8
EWFH790TZXSD2	R1234ze	7	2	32,6	0,2	132,5	0,9
EWFH840TZXSD2	R1234ze	7	2	30,7	0,2	134,4	0,9
EWFH900TZXSD2	R1234ze	7	2	29,0	0,2	136,1	1,0
EWFH975TZXSD2	R1234ze	7	2	32,7	0,2	154,3	1,1
EWFHH10TZXSD2	R1234ze	7	2	38,0	0,3	170,8	1,2
EWFHH11TZXSD2	R1234ze	7	2	55,7	0,4	153,1	1,1

i) The above data are referred to the unit without additional optional.

ii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

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2) GWP based on Fourth Assessment Report (AR4) used as reference in current REGULATION (EU) No 517/2014 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 April 2014 on fluorinated greenhouse gases and repealing Regulation (EC) No 842/2006

Model	Ref. type	Ref. GWP [2]	N° of circuits	Ref. charge circuit #1 [kg] [1]	Ref. charge circuit #1 (TCO2Eq)	Ref. charge circuit #2 [kg] [1]	Ref. charge circuit #2 (TCO2Eq)
EWFH400TZSSD2	R1234ze	7	2	13,3	0,1	86,3	0,6
EWFH470TZSSD2	R1234ze	7	2	11,1	0,1	88,5	0,6
EWFH535TZSSD2	R1234ze	7	2	10,5	0,1	89,0	0,6
EWFH595TZSSD2	R1234ze	7	2	13,0	0,1	108,4	0,8
EWFH630TZSSD2	R1234ze	7	2	12,4	0,1	108,9	0,8
EWFH690TZSSD2	R1234ze	7	2	20,2	0,1	101,1	0,7
EWFH740TZSSD2	R1234ze	7	2	17,8	0,1	103,6	0,7
EWFH795TZSSD2	R1234ze	7	2	23,9	0,2	119,4	0,8
EWFH855TZSSD2	R1234ze	7	2	22,5	0,2	120,7	0,8
EWFH910TZSSD2	R1234ze	7	2	26,2	0,2	138,9	1,0
EWFH980TZSSD2	R1234ze	7	2	31,2	0,2	155,8	1,1
EWFHC10TZSSD2	R1234ze	7	2	36,3	0,3	172,5	1,2
EWFHC11TZSSD2	R1234ze	7	2	34,8	0,2	174,0	1,2
EWFHC12TZSSD2	R1234ze	7	2	32,1	0,2	176,7	1,2
EWFHH12TZSSD2	R1234ze	7	2	49,1	0,3	159,7	1,1
EWFHH13TZSSD2	R1234ze	7	2	46,4	0,3	162,4	1,1
EWFHC14TZSSD2	R1234ze	7	2	52,3	0,4	178,3	1,2
EWFHC15TZSSD2	R1234ze	7	2	58,3	0,4	194,2	1,4
EWFHH15TZSSD2	R1234ze	7	2	58,3	0,4	194,2	1,4
EWFH220TZXSD1	R1234ze	7	1	34,0	0,2	-	-
EWFH230TZXSD1	R1234ze	7	1	34,0	0,2	-	-
EWFH275TZXSD1	R1234ze	7	1	55,8	0,4	-	-
EWFH300TZXSD1	R1234ze	7	1	55,8	0,4	-	-
EWFH350TZXSD1	R1234ze	7	1	77,7	0,5	-	-
EWFH400TZXSD1	R1234ze	7	1	77,7	0,5	-	-
EWFH470TZXSD1	R1234ze	7	1	99,5	0,7	-	-
EWFH515TZXSD1	R1234ze	7	1	99,5	0,7	-	-
EWFH540TZXSD1	R1234ze	7	1	99,5	0,7	-	-
EWFH620TZXSD1	R1234ze	7	1	99,5	0,7	-	-
EWFH465TZXSD2	R1234ze	7	2	11,7	0,1	87,8	0,6
EWFH545TZXSD2	R1234ze	7	2	15,8	0,1	105,5	0,7
EWFH600TZXSD2	R1234ze	7	2	14,3	0,1	107,1	0,7
EWFH645TZXSD2	R1234ze	7	2	21,7	0,2	99,6	0,7
EWFH700TZXSD2	R1234ze	7	2	20,2	0,1	101,1	0,7
EWFH750TZXSD2	R1234ze	7	2	25,4	0,2	117,9	0,8
EWFH790TZXSD2	R1234ze	7	2	32,6	0,2	132,5	0,9
EWFH840TZXSD2	R1234ze	7	2	30,7	0,2	134,4	0,9
EWFH900TZXSD2	R1234ze	7	2	29,0	0,2	136,1	1,0
EWFH975TZXSD2	R1234ze	7	2	32,7	0,2	154,3	1,1
EWFHH10TZXSD2	R1234ze	7	2	38,0	0,3	170,8	1,2
EWFHH11TZXSD2	R1234ze	7	2	55,7	0,4	153,1	1,1

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Model	Ref. type	Ref. GWP [2]	N° of circuits	Ref. charge circuit #1 [kg] [1]	Ref. charge circuit #1 (TCO2Eq)	Ref. charge circuit #2 [kg] [1]	Ref. charge circuit #2 (TCO2Eq)
EWFHH12TZXSD2	R1234ze	7	2	61,9	0,4	168,8	1,2
EWFHH13TZXSD2	R1234ze	7	2	68,1	0,5	184,4	1,3
EWFH225TZPSD1	R1234ze	7	1	55,8	0,4	-	-
EWFH265TZPSD1	R1234ze	7	1	77,7	0,5	-	-
EWFH295TZPSD1	R1234ze	7	1	77,7	0,5	-	-
EWFH340TZPSD1	R1234ze	7	1	99,5	0,7	-	-
EWFH395TZPSD1	R1234ze	7	1	99,5	0,7	-	-
EWFH435TZPSD1	R1234ze	7	1	121,4	0,8	-	-
EWFH490TZPSD1	R1234ze	7	1	121,4	0,8	-	-
EWFH545TZPSD1	R1234ze	7	1	121,4	0,8	-	-
EWFH500TZPSD2	R1234ze	7	2	16,7	0,1	104,6	0,7
EWFH540TZPSD2	R1234ze	7	2	21,3	0,1	121,9	0,9
EWFH615TZPSD2	R1234ze	7	2	31,3	0,2	111,9	0,8
EWFH645TZPSD2	R1234ze	7	2	29,1	0,2	114,2	0,8
EWFH700TZPSD2	R1234ze	7	2	27,1	0,2	116,1	0,8
EWFH770TZPSD2	R1234ze	7	2	32,6	0,2	132,5	0,9
EWFH845TZPSD2	R1234ze	7	2	38,2	0,3	148,7	1,0
EWFH900TZPSD2	R1234ze	7	2	36,2	0,3	150,8	1,1
EWFH960TZPSD2	R1234ze	7	2	41,8	0,3	167,0	1,2
EWFHC10TZPSD2	R1234ze	7	2	39,8	0,3	169,0	1,2
EWFHH10TZPSD2	R1234ze	7	2	45,3	0,3	185,3	1,3
EWFHH11TZPSD2	R1234ze	7	2	65,9	0,5	164,7	1,2
EWFHC12TZPSD2	R1234ze	7	2	76,9	0,5	176,1	1,2
EWFD275TZBSD1	R134a	1430	1	34,0	48,6	0,0	0,0
EWFD320TZBSD1	R134a	1430	1	55,8	79,9	0,0	0,0
EWFD345TZBSD1	R134a	1430	1	55,8	79,9	0,0	0,0
EWFD400TZBSD1	R134a	1430	1	55,8	80,0	0,0	0,0
EWFD470TZBSD1	R134a	1430	1	55,8	80,0	0,0	0,0
EWFD525TZBSD1	R134a	1430	1	77,7	111,5	0,0	0,0
EWFD580TZBSD1	R134a	1430	1	77,7	111,5	0,0	0,0
EWFD625TZBSD1	R134a	1430	1	77,7	111,6	0,0	0,0
EWFD510TZBSD2	R134a	1430	2	38,8	55,8	38,8	55,8
EWFD545TZBSD2	R134a	1430	2	38,8	55,9	38,8	55,9
EWFD570TZBSD2	R134a	1430	2	38,8	55,9	38,8	55,9
EWFD630TZBSD2	R134a	1430	2	39,8	57,4	59,7	86,1
EWFD670TZBSD2	R134a	1430	2	39,8	57,4	59,7	86,1
EWFD755TZBSD2	R134a	1430	2	60,7	87,6	60,7	87,6
EWFD830TZBSD2	R134a	1430	2	60,7	87,6	60,7	87,6
EWFD915TZBSD2	R134a	1430	2	60,7	87,7	60,7	87,7
EWFDC10TZBSD2	R134a	1430	2	60,7	87,8	60,7	87,8
EWFDH10TZBSD2	R134a	1430	2	61,4	88,8	81,8	118,4

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Model	Ref. type	Ref. GWP [2]	N° of circuits	Ref. charge circuit #1 [kg] [1]	Ref. charge circuit #1 (TCO2Eq)	Ref. charge circuit #2 [kg] [1]	Ref. charge circuit #2 (TCO2Eq)
EWFDH11TZBSD2	R134a	1430	2	82,5	119,5	82,5	119,5
EWFDC12TZBSD2	R134a	1430	2	83,1	120,4	103,9	150,5
EWFDC13TZBSD2	R134a	1430	2	104,4	151,4	104,4	151,4
EWFDC14TZBSD2	R134a	1430	2	104,4	151,5	104,4	151,5
EWFDC15TZBSD2	R134a	1430	2	104,8	152,2	125,8	182,7
EWFDH16TZBSD2	R134a	1430	2	104,8	152,3	125,8	182,8
EWFDH17TZBSD2	R134a	1430	2	104,8	152,4	125,8	182,9
EWFDH18TZBSD2	R134a	1430	2	126,3	183,7	126,3	183,7
EWFDH19TZBSD2	R134a	1430	2	126,3	183,8	126,3	183,8
EWFD285TZSSD1	R134a	1430	1	55,8	81,3	-	-
EWFD325TZSSD1	R134a	1430	1	77,7	113,2	-	-
EWFD380TZSSD1	R134a	1430	1	77,7	113,3	-	-
EWFD430TZSSD1	R134a	1430	1	77,7	113,4	-	-
EWFD495TZSSD1	R134a	1430	1	77,7	113,5	-	-
EWFD535TZSSD1	R134a	1430	1	99,5	145,5	-	-
EWFD595TZSSD1	R134a	1430	1	99,5	145,6	-	-
EWFD650TZSSD1	R134a	1430	1	99,5	145,7	-	-
EWFD520TZSSD2	R134a	1430	2	39,8	58,3	59,7	87,5
EWFD555TZSSD2	R134a	1430	2	39,8	58,4	59,7	87,5
EWFD585TZSSD2	R134a	1430	2	39,8	58,4	59,7	87,6
EWFD645TZSSD2	R134a	1430	2	60,7	89,1	60,7	89,1
EWFD705TZSSD2	R134a	1430	2	60,7	89,2	60,7	89,2
EWFD760TZSSD2	R134a	1430	2	61,4	90,2	81,8	120,3
EWFD835TZSSD2	R134a	1430	2	61,4	90,3	81,8	120,4
EWFD960TZSSD2	R134a	1430	2	61,4	90,4	81,8	120,5
EWFDC10TZSSD2	R134a	1430	2	61,4	90,4	81,8	120,6
EWFDH10TZSSD2	R134a	1430	2	61,4	90,5	81,8	120,6
EWFDH11TZSSD2	R134a	1430	2	82,5	121,8	82,5	121,8
EWFDH12TZSSD2	R134a	1430	2	104,4	154,1	104,4	154,1
EWFDH13TZSSD2	R134a	1430	2	104,8	154,8	125,8	185,8
EWFDH14TZSSD2	R134a	1430	2	104,8	155,0	125,8	185,9
EWFDH15TZSSD2	R134a	1430	2	104,8	155,1	125,8	186,1
EWFDH16TZSSD2	R134a	1430	2	104,8	155,2	125,8	186,2
EWFDH17TZSSD2	R134a	1430	2	126,3	187,0	126,3	187,0
EWFDH18TZSSD2	R134a	1430	2	126,3	187,1	126,3	187,1
EWFDH19TZSSD2	R134a	1430	2	126,3	187,2	126,3	187,2
EWFD295TZXSD1	R134a	1430	1	55,8	82,8	-	-
EWFD345TZXSD1	R134a	1430	1	77,7	115,3	-	-
EWFD380TZXSD1	R134a	1430	1	77,7	115,4	-	-
EWFD440TZXSD1	R134a	1430	1	99,5	148,0	-	-
EWFD515TZXSD1	R134a	1430	1	99,5	148,1	-	-

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Model	Ref. type	Ref. GWP [2]	N° of circuits	Ref. charge circuit #1 [kg] [1]	Ref. charge circuit #1 (TCO2Eq)	Ref. charge circuit #2 [kg] [1]	Ref. charge circuit #2 (TCO2Eq)
EWFD565TZXSD1	R134a	1430	1	121,4	180,7	-	-
EWFD635TZXSD1	R134a	1430	1	121,4	180,9	-	-
EWFD705TZXSD1	R134a	1430	1	121,4	181,0	-	-
EWFD760TZXSD1	R134a	1430	1	121,4	181,1	-	-
EWFD525TZXSD2	R134a	1430	2	60,7	90,6	60,7	90,6
EWFD565TZXSD2	R134a	1430	2	60,7	90,7	60,7	90,7
EWFD610TZXSD2	R134a	1430	2	61,4	91,8	81,8	122,4
EWFD670TZXSD2	R134a	1430	2	61,4	91,8	81,8	122,4
EWFD725TZXSD2	R134a	1430	2	61,4	91,9	81,8	122,5
EWFD805TZXSD2	R134a	1430	2	82,5	123,6	82,5	123,6
EWFD880TZXSD2	R134a	1430	2	82,5	123,7	82,5	123,7
EWFD950TZXSD2	R134a	1430	2	82,5	123,8	82,5	123,8
EWFDC10TZXSD2	R134a	1430	2	83,1	124,7	103,9	155,9
EWFDH10TZXSD2	R134a	1430	2	83,1	124,8	103,9	156,0
EWFDH11TZXSD2	R134a	1430	2	104,4	156,9	104,4	156,9
EWFDC12TZXSD2	R134a	1430	2	104,4	157,0	104,4	157,0
EWFDH12TZXSD2	R134a	1430	2	104,4	157,1	104,4	157,1
EWFDH13TZXSD2	R134a	1430	2	104,8	157,9	125,8	189,5
EWFDH14TZXSD2	R134a	1430	2	126,3	190,3	126,3	190,3
EWFDH15TZXSD2	R134a	1430	2	126,3	190,4	126,3	190,4
EWFDH16TZXSD2	R134a	1430	2	126,3	190,5	126,3	190,5
EWFDH17TZXSD2	R134a	1430	2	126,3	190,6	126,3	190,6
EWFD285TZPSD1	R134a	1430	1	77,7	117,4	-	-
EWFD330TZPSD1	R134a	1430	1	99,5	150,5	-	-
EWFD370TZPSD1	R134a	1430	1	99,5	150,6	-	-
EWFD405TZPSD1	R134a	1430	1	121,4	183,8	-	-
EWFD450TZPSD1	R134a	1430	1	121,4	183,9	-	-
EWFD490TZPSD1	R134a	1430	1	121,4	184,0	-	-
EWFD530TZPSD2	R134a	1430	2	61,4	93,1	81,8	124,2
EWFD575TZPSD2	R134a	1430	2	61,4	93,2	81,8	124,2
EWFD615TZPSD2	R134a	1430	2	82,5	125,4	82,5	125,4
EWFD675TZPSD2	R134a	1430	2	82,5	125,5	82,5	125,5
EWFD735TZPSD2	R134a	1430	2	82,5	125,5	82,5	125,5
EWFD810TZPSD2	R134a	1430	2	83,1	126,5	103,9	158,1
EWFD890TZPSD2	R134a	1430	2	83,1	126,5	103,9	158,2
EWFD960TZPSD2	R134a	1430	2	83,1	126,6	103,9	158,3
EWFDC10TZPSD2	R134a	1430	2	104,4	159,2	104,4	159,2
EWFDH10TZPSD2	R134a	1430	2	104,4	159,3	104,4	159,3
EWFDH11TZPSD2	R134a	1430	2	104,8	160,1	125,8	192,1
EWFDC12TZPSD2	R134a	1430	2	104,8	160,2	125,8	192,2
EWFDH12TZPSD2	R134a	1430	2	104,8	160,3	125,8	192,4

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Model	Ref. type	Ref. GWP [2]	N° of circuits	Ref. charge circuit #1 [kg] [1]	Ref. charge circuit #1 (TCO2Eq)	Ref. charge circuit #2 [kg] [1]	Ref. charge circuit #2 (TCO2Eq)
EWFDH13TZPSD2	R134a	1430	2	126,3	193,2	126,3	193,2
EWFDH14TZPSD2	R134a	1430	2	126,3	193,3	126,3	193,3
EWFDH15TZPSD2	R134a	1430	2	126,3	193,4	126,3	193,4
EWFS275TZBSD1	R513A	630	1	34,0	21,4	-	-
EWFS320TZBSD1	R513A	630	1	55,8	35,2	-	-
EWFS345TZBSD1	R513A	630	1	55,8	35,2	-	-
EWFS400TZBSD1	R513A	630	1	55,8	35,2	-	-
EWFS470TZBSD1	R513A	630	1	55,8	35,2	-	-
EWFS525TZBSD1	R513A	630	1	77,7	48,9	-	-
EWFS580TZBSD1	R513A	630	1	77,7	48,9	-	-
EWFS625TZBSD1	R513A	630	1	77,7	48,9	-	-
EWFS755TZBSD2	R513A	630	2	60,7	38,2	60,7	38,2
EWFS830TZBSD2	R513A	630	2	60,7	38,2	60,7	38,2
EWFS915TZBSD2	R513A	630	2	60,7	38,2	60,7	38,2
EWFSC10TZBSD2	R513A	630	2	60,7	38,2	60,7	38,2
EWFSH10TZBSD2	R513A	630	2	61,4	38,7	81,8	51,6
EWFSH11TZBSD2	R513A	630	2	82,5	52,0	82,5	52,0
EWFSC12TZBSD2	R513A	630	2	83,1	52,3	103,9	65,4
EWFSC13TZBSD2	R513A	630	2	104,4	65,8	104,4	65,8
EWFSC14TZBSD2	R513A	630	2	104,4	65,8	104,4	65,8
EWFSC15TZBSD2	R513A	630	2	104,8	66,0	125,8	79,3
EWFSH16TZBSD2	R513A	630	2	104,8	66,0	125,8	79,3
EWFSH17TZBSD2	R513A	630	2	104,8	66,0	125,8	79,3
EWFSH18TZBSD2	R513A	630	2	126,3	79,5	126,3	79,5
EWFSH19TZBSD2	R513A	630	2	126,3	79,5	126,3	79,5
EWFS285TZSSD1	R513A	630	1	55,8	35,2	-	-
EWFS325TZSSD1	R513A	630	1	77,7	48,9	-	-
EWFS380TZSSD1	R513A	630	1	77,7	48,9	-	-
EWFS430TZSSD1	R513A	630	1	77,7	48,9	-	-
EWFS495TZSSD1	R513A	630	1	77,7	48,9	-	-
EWFS535TZSSD1	R513A	630	1	99,5	62,7	-	-
EWFS595TZSSD1	R513A	630	1	99,5	62,7	-	-
EWFS650TZSSD1	R513A	630	1	99,5	62,7	-	-
EWFS520TZSSD2	R513A	630	2	39,8	25,1	59,7	37,6
EWFS555TZSSD2	R513A	630	2	39,8	25,1	59,7	37,6
EWFS585TZSSD2	R513A	630	2	39,8	25,1	59,7	37,6
EWFS645TZSSD2	R513A	630	2	60,7	38,2	60,7	38,2
EWFS705TZSSD2	R513A	630	2	60,7	38,2	60,7	38,2
EWFS760TZSSD2	R513A	630	2	61,4	38,7	81,8	51,6
EWFS835TZSSD2	R513A	630	2	61,4	38,7	81,8	51,6
EWFS960TZSSD2	R513A	630	2	61,4	38,7	81,8	51,6

i) The above data are referred to the unit without additional optional.

ii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

1) Refrigerant charge values are for indication only and not considered binding. Refer to unit nameplate for specific unit refrigerant charge.
2) GWP based on Fourth Assessment Report (AR4) used as reference in current REGULATION (EU) No 517/2014 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 April 2014 on fluorinated greenhouse gases and repealing Regulation (EC) No 842/2006

Model	Ref. type	Ref. GWP [2]	N° of circuits	Ref. charge circuit #1 [kg] [1]	Ref. charge circuit #1 (TCO2Eq)	Ref. charge circuit #2 [kg] [1]	Ref. charge circuit #2 (TCO2Eq)
EWFSC10TZSSD2	R513A	630	2	61,4	38,7	81,8	51,6
EWFSH10TZSSD2	R513A	630	2	61,4	38,7	81,8	51,6
EWFSH11TZSSD2	R513A	630	2	82,5	52,0	82,5	52,0
EWFSH12TZSSD2	R513A	630	2	104,4	65,8	104,4	65,8
EWFSH13TZSSD2	R513A	630	2	104,8	66,0	125,8	79,3
EWFSH14TZSSD2	R513A	630	2	104,8	66,0	125,8	79,3
EWFSH15TZSSD2	R513A	630	2	104,8	66,0	125,8	79,3
EWFSH16TZSSD2	R513A	630	2	104,8	66,0	125,8	79,3
EWFSH17TZSSD2	R513A	630	2	126,3	79,5	126,3	79,5
EWFSH18TZSSD2	R513A	630	2	126,3	79,5	126,3	79,5
EWFSH19TZSSD2	R513A	630	2	126,3	79,5	126,3	79,5
EWFS295TZXSD1	R513A	630	1	55,8	35,2	-	-
EWFS345TZXSD1	R513A	630	1	77,7	48,9	-	-
EWFS380TZXSD1	R513A	630	1	77,7	48,9	-	-
EWFS440TZXSD1	R513A	630	1	99,5	62,7	-	-
EWFS515TZXSD1	R513A	630	1	99,5	62,7	-	-
EWFS565TZXSD1	R513A	630	1	121,4	76,5	-	-
EWFS635TZXSD1	R513A	630	1	121,4	76,5	-	-
EWFS705TZXSD1	R513A	630	1	121,4	76,5	-	-
EWFS760TZXSD1	R513A	630	1	121,4	76,5	-	-
EWFS525TZXSD2	R513A	630	2	60,7	38,2	60,7	38,2
EWFS565TZXSD2	R513A	630	2	60,7	38,2	60,7	38,2
EWFS610TZXSD2	R513A	630	2	61,4	38,7	81,8	51,6
EWFS670TZXSD2	R513A	630	2	61,4	38,7	81,8	51,6
EWFS725TZXSD2	R513A	630	2	61,4	38,7	81,8	51,6
EWFS805TZXSD2	R513A	630	2	82,5	52,0	82,5	52,0
EWFS880TZXSD2	R513A	630	2	82,5	52,0	82,5	52,0
EWFS950TZXSD2	R513A	630	2	82,5	52,0	82,5	52,0
EWFSC10TZXSD2	R513A	630	2	83,1	52,3	103,9	65,4
EWFSH10TZXSD2	R513A	630	2	83,1	52,3	103,9	65,4
EWFSH11TZXSD2	R513A	630	2	104,4	65,8	104,4	65,8
EWFSC12TZXSD2	R513A	630	2	104,4	65,8	104,4	65,8
EWFSH12TZXSD2	R513A	630	2	104,4	65,8	104,4	65,8
EWFSH13TZXSD2	R513A	630	2	104,8	66,0	125,8	79,3
EWFSH14TZXSD2	R513A	630	2	126,3	79,5	126,3	79,5
EWFSH15TZXSD2	R513A	630	2	126,3	79,5	126,3	79,5
EWFSH16TZXSD2	R513A	630	2	126,3	79,5	126,3	79,5
EWFSH17TZXSD2	R513A	630	2	126,3	79,5	126,3	79,5
EWFS285TZPSD1	R513A	630	1	77,7	48,9	-	-
EWFS330TZPSD1	R513A	630	1	99,5	62,7	-	-
EWFS370TZPSD1	R513A	630	1	99,5	62,7	-	-

i) The above data are referred to the unit without additional optional.

ii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

1) Refrigerant charge values are for indication only and not considered binding. Refer to unit nameplate for specific unit refrigerant charge.
2) GWP based on Fourth Assessment Report (AR4) used as reference in current REGULATION (EU) No 517/2014 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 April 2014 on fluorinated greenhouse gases and repealing Regulation (EC) No 842/2006

Model	Ref. type	Ref. GWP [2]	N° of circuits	Ref. charge circuit #1 [kg] [1]	Ref. charge circuit #1 (TCO2Eq)	Ref. charge circuit #2 [kg] [1]	Ref. charge circuit #2 (TCO2Eq)
EWFS405TZPSD1	R513A	630	1	121,4	76,5	-	-
EWFS450TZPSD1	R513A	630	1	121,4	76,5	-	-
EWFS490TZPSD1	R513A	630	1	121,4	76,5	-	-
EWFS530TZPSD2	R513A	630	2	61,4	38,7	81,8	51,6
EWFS575TZPSD2	R513A	630	2	61,4	38,7	81,8	51,6
EWFS615TZPSD2	R513A	630	2	82,5	52,0	82,5	52,0
EWFS675TZPSD2	R513A	630	2	82,5	52,0	82,5	52,0
EWFS735TZPSD2	R513A	630	2	82,5	52,0	82,5	52,0
EWFS810TZPSD2	R513A	630	2	83,1	52,3	103,9	65,4
EWFS890TZPSD2	R513A	630	2	83,1	52,3	103,9	65,4
EWFS960TZPSD2	R513A	630	2	83,1	52,3	103,9	65,4
EWFSC10TZPSD2	R513A	630	2	104,4	65,8	104,4	65,8
EWFSH10TZPSD2	R513A	630	2	104,4	65,8	104,4	65,8
EWFSH11TZPSD2	R513A	630	2	104,8	66,0	125,8	79,3
EWFSC12TZPSD2	R513A	630	2	104,8	66,0	125,8	79,3
EWFSH12TZPSD2	R513A	630	2	104,8	66,0	125,8	79,3
EWFSH13TZPSD2	R513A	630	2	126,3	79,5	126,3	79,5
EWFSH14TZPSD2	R513A	630	2	126,3	79,5	126,3	79,5
EWFSH15TZPSD2	R513A	630	2	126,3	79,5	126,3	79,5

i) The above data are referred to the unit without additional optional.

ii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

1) Refrigerant charge values are for indication only and not considered binding. Refer to unit nameplate for specific unit refrigerant charge.
2) GWP based on Fourth Assessment Report (AR4) used as reference in current REGULATION (EU) No 517/2014 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 April 2014 on fluorinated greenhouse gases and repealing Regulation (EC) No 842/2006

4. Nomenclature

EWF H 900 T Z X S D 2

Digit 13: Number of independent refrigerant circuit
1 or 2

Digit 12: series revision

D = IV generation

Digit 11: Sound Configuration

S = Standard Sound

Digit 10: Efficiency tier

B = Blue
S = Silver
X = Gold
P = Platinum

Digit 9: Compressor control

Z = Variable Frequency Drive

Digit 8: Range

T = A/C with Screw Compressor

Digit 5 -7: capacity at std conditions

if Capacity > 1000 → C10, H10, C11, H11…

Digit 4: Refrigerant

H = R1234ze
D = R134a
S = R513A

Digit 1 – 3: Unit type

EWF = Air Cooled Chiller with free cooling

5. Options

Features provided as standard

- 19 mm evaporator insulation
- Victaulic connections
- Discharge line shut off valve.
- Suction line shut off valve.
- Double set-point
- Evaporator electric heater
- Electronic expansion valve
- Set point reset.
- Under/Over voltage control
- Thermal overload protection
- Phase sequence protection
- Hour run meter.
- General fault contactor
- Alarm from external device
- Fans circuit breakers
- Main switch interlock door
- Time scheduler
- Speedtrol (operation down to -20°C)
- Variable speed EC fans
- Demand limit and alarm from external device
- Master / Slave (up to 4 units)

Options on demand

OPT 21 – Evaporator flange kit.

OPT 63 – High Pressure side manometers.

OPT 64 – Low Pressure side manometers.

OPT 76-B – Soundproof system (compressor)
Enclosure on compressor to reduce unit sound emission. Provided as standard on Reduced Sound Configuration units (indicated with "R" in digit 13 of code string).

OPT 91 – Double pressure relief valve with diverter.

OPT 115 – Water filter.

OPT 58 – Evaporator Flow Switch

OPT 121 – Refrigerant Leak detection.
Requires compressor enclosure (OPT 76-b)

OPT 139 – E-coating microchannel coils
Provides additional resistance to corrosion in aggressive environment. See details in Installation and Operation manual.

OPT 225 - Blue coat microchannel coils
Provides additional resistance to corrosion in mildly aggressive environment. See details in Installation and Operation manual.

OPT 140 – Unit Guards (to cover unit access)
Wire mesh around the unit

OPT 141 – Side panels on coils end
Enhanced esthetics and protection of piping

OPT 187 – High evaporator leaving temperature (above 18°C)
Unit suitable for operation with supply temperature above 18°C

OPT 16 – Energy meter

OPT 95 – Compressor circuit breakers

OPT 102 – Ground fault relay

OPT 142 – High Ambient kit
Unit suitable for operation continuous operation above 46°C air entering the unit.

OPT 184 – iCM standard
Control functionality to manage systems including up to 8 units, not necessarily of the same model. The master unit can manage the slaves connected in series on the hydraulic plant with the aim of optimize the running hours of each compressor and to control pumps also in variable flow systems. iCM is compatible with Heat recovery, free-cooling and variable primary flow options to optimized operation of multiple units.

OPT 180 – Modbus RTU MSTP

OPT 181 – BACnet MSTP

OPT 182 – BACnet IP

OPT155 – Daikin on Site modem (with antenna) + Mobile App HMI

OPT 110 – Rapid restart
In case of power failure reach full capacity within 180 seconds from power restoration.

OPT 232 – Integrated Active Harmonic Filtration
Unit mounted active harmonic filter providing THDi <5% (Total Harmonic Distortion Current) of the chiller at full capacity.

OPT 75 – Rubber anti vibration mounts

OPT 77 – Spring Anti vibration mounts

OPT 71 – Container kit

OPT 112 – Transport kit

6. Technical data

EWFH TZ-D BS| Blue Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**235**	**255**	**300**	**350**	**400**	**420**
Cooling Capacity (1)	kW	311,5	340,55	401,59	478,71	528,89	552,1
Power input (1)	kW	86,29	103,92	140,51	130,80	158,68	171,41
Cooling Efficiency – EER (1)	kW/kW	3,61	3,277	2,858	3,66	3,333	3,221
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,059	4,998	4,723	5,229	5,089	5,053
$\eta_{s,c}$ (3)	%	199	197	186	206	201	199
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,774	5,486	5,116	5,742	5,475	5,278
IPLV (5)	kW/kW	5,386	5,251	4,930	5,670	5,470	5,364
Full Free Cooling Temperature(12)	°C	5,8	4,29	1,46	5,42	3,96	3,08
Flow rate (1)	l/s	9,93	10,86	12,81	15,27	16,87	17,61
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	11,08	13,09	14,39	32,8	39,49	42,8
Unit pressure drop free cooling ON(12)(6)	kPa	93,84	107,08	133,98	117,93	137,67	147,25
Sound Power (1)(7) **– Lw**	dB(a)	98	100	101	97	98	98
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	93	93	95	92	93	93
Number of circuits / Compressors	#	1	1	1	1	1	1
Water volume – open loop Free Cooling	Lt	40	40	48	42,7	42,7	42,7
Minimum water flow rate (10)	l/s	7,6	7,6	8,5	5,94	5,94	5,94
Length	mm	2560	2560	2560	3954	3954	3954
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	2626	2626	2656	4489	4489	4489
Operating weight (8)	kg	2882	2887	2938	4562	4562	4562
Water Connection Size	Ø mm	88,9	88,9	88,9	139,7	139,7	139,7

i)The above data are referred to the unit without additional optional.
ii) The above data are referred the unit installed in compliancy with installation prescription.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating at Ambient 35°C. Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0.
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFH TZ-D BS| Blue Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**455**	**505**	**545**	**400**	**425**	**485**
Cooling Capacity (1)	kW	595,88	661,48	721,86	530,99	568,6	656,22
Power input (1)	kW	204,14	241,15	233,39	135,35	146,09	177,21
Cooling Efficiency – EER (1)	kW/kW	2,919	2,743	3,093	3,923	3,892	3,703
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	4,925	4,875	5,148	4,974	4,912	4,875
$\eta_{s,c}$ (3)	%	194	192	203	196	193	192
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,019	4,875	5,047	6,007	5,912	5,767
IPLV (5)	kW/kW	4,994	5,082	5,233	5,334	5,262	5,224
Full Free Cooling Temperature(12)	°C	1,94	0,25	3,75	7,87	7,21	4,99
Flow rate (1)	l/s	19	21,09	23,02	16,93	18,13	20,93
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	49,37	33,42	39,34	27,38	30,84	33,96
Unit pressure drop free cooling ON(12)(6)	kPa	166,1	170,25	140,91	92,83	102,98	122,86
Sound Power (1)(7) **– Lw**	dB(a)	100	102	103	97	100	101
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	93	94	95	94	95	96
Number of circuits / Compressors	#	1	1	1	2	2	2
Water volume – open loop Free Cooling	Lt	42,7	58,1	58,1	152	152	255
Minimum water flow rate (10)	l/s	5,94	10,2	10,2	8,7	8,7	8,6
Length	mm	3954	3954	5034	5034	5034	5034
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	4489	4844	4929	6191	6191	6350
Operating weight (8)	kg	4562	4917	5059	6341	6341	6600
Water Connection Size	Ø mm	139,7	139,7	139,7	139,7	139,7	168,3

i)The above data are referred to the unit without additional optional.
ii) The above data are referred the unit installed in compliancy with installation prescription.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFH TZ-D BS| Blue Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**545**	**590**	**635**	**745**	**785**	**845**
Cooling Capacity [1]	kW	737,82	803,79	854,21	982,41	1037,9	1118,26
Power input [1]	kW	214,67	228,61	260,91	262,75	290,16	325,36
Cooling Efficiency – EER [1]	kW/kW	3,437	3,516	3,274	3,739	3,577	3,437
Seasonal Energy Efficiency Ratio - SEER [1][2]	kW/kW	4,819	4,948	4,899	5,268	5,165	5,139
$\eta_{s,c}$ [3]	%	190	195	193	208	204	203
Seasonal Energy Performance Ratio - SEPR [1][2]	kW/kW	5,545	5,432	5,436	5,834	5,618	5,506
IPLV [5]	kW/kW	5,172	5,275	5,242	5,594	5,496	5,443
Full Free Cooling Temperature[12]	°C	3	5,78	4,4	4,94	4,09	2,74
Flow rate [1]	l/s	23,53	25,63	27,24	31,33	33,1	35,66
Evaporator Pressure Drop free cooling OFF [1][6]	kPa	33,99	47,39	43,24	45,78	50,3	53,81
Unit pressure drop free cooling ON[12][6]	kPa	139,35	121,65	136,93	134,38	146,03	160,25
Sound Power [1][7] **– Lw**	dB(a)	103	104	105	100	100	101
Sound Power [1][7] **– Lw with + OP76b**	dB(a)	96	97	98	95	95	96
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume – open loop Free Cooling	Lt	232	255	232	280	280	492
Minimum water flow rate [10]	l/s	10,7	8,6	10,7	12,9	12,9	12,3
Length	mm	5034	6112	6112	7194	7194	7194
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight [8]	kg	6350	6913	6913	8062	8062	8357
Operating weight [8]	kg	6600	7163	7163	8597	8597	9062
Water Connection Size	Ø mm	168,3	168,3	168,3	168,3	168,3	219,1

i)The above data are referred to the unit without additional optional.
ii) The above data are referred the unit installed in compliancy with installation prescription.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFH TZ-D BS| Blue Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**900**	**985**	**C11**	**H11**	**C13**	**H13**
Cooling Capacity (1)	kW	1196,49	1306,6	1475,8	1554,3	1687,0	1782,43
Power input (1)	kW	341,37	395,24	446,15	492,97	457,21	525,02
Cooling Efficiency – EER (1)	kW/kW	3,505	3,306	3,308	3,153	3,69	3,395
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,268	5,129	5,106	4,996	5,425	5,348
$\eta_{s,c}$ (3)	%	208	202	201	197	214	211
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,536	5,21	5,17	5,051	6,572	6,304
IPLV (5)	kW/kW	5,506	5,399	5,392	5,238	5,966	5,902
Full Free Cooling Temperature(12)	°C	4,32	2,78	3,18	2,15	2,56	1,67
Flow rate (1)	l/s	38,16	41,67	47,06	49,57	53,8	56,84
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	59,84	56,57	43,68	47,22	36,93	40,18
Unit pressure drop free cooling ON(12)(6)	kPa	153,17	162,93	148,69	160,47	144,65	156,88
Sound Power (1)(7) **– Lw**	dB(a)	101	103	105	107	104	105
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	96	97	98	98	98	98
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume – open loop Free Cooling	Lt	492	583	1043	1043	1011	1011
Minimum water flow rate (10)	l/s	12,3	14,6	18,1	18,1	22,6	22,6
Length	mm	8274	8274	9354	10434	11514	9354
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	8959	9015	9740	11794	12342	9740
Operating weight (8)	kg	9659	9815	11277	13192	13720	11277
Water Connection Size	Ø mm	219,1	219,1	273	273	273	273

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFH TZ-D BS| Blue Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz				
Model		**H14**	**C15**	**H15**
Cooling Capacity [1]	kW	1962,67	1903,6	2045,8
Power input [1]	kW	640,98	579,31	665,95
Cooling Efficiency – EER [1]	kW/kW	3,062	3,286	3,072
Seasonal Energy Efficiency Ratio - SEER [1][2]	kW/kW	5,365	5,278	5,295
$\eta_{s,c}$ [3]	%	212	208	209
Seasonal Energy Performance Ratio - SEPR [1][2]	kW/kW	6,249	6,097	6,134
IPLV [5]	kW/kW	5,812	5,741	5,748
Full Free Cooling Temperature[12]	°C	2,28	1,8	2,79
Flow rate [1]	l/s	62,59	60,7	65,24
Evaporator Pressure Drop free cooling OFF [1][6]	kPa	46,59	44,49	49,79
Unit pressure drop free cooling ON[12][6]	kPa	161,73	154,52	155,22
Sound Power [1][7] **– Lw**	dB(a)	106	107	107
Sound Power [1][7] **– Lw with + OP76b**	dB(a)	99	99	99
Number of circuits / Compressors	#	2	2	2
Water volume – open loop Free Cooling	Lt	1011	1011	1011
Minimum water flow rate [10]	l/s	22,6	22,6	22,6
Length	mm	10434	11514	12594
Width	mm	2238	2238	2238
Height	mm	2553	2553	2553
Shipping weight [8]	kg	11794	12342	12929
Operating weight [8]	kg	13192	13720	14364
Water Connection Size	Ø mm	273	273	273

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFH TZ-D SS| Silver Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**240**	**265**	**295**	**370**	**415**	**450**
Cooling Capacity (1)	kW	320,15	350,91	402,31	487,18	547,83	600,65
Power input (1)	kW	82,88	96,56	111,97	127,37	149,31	165,42
Cooling Efficiency – EER (1)	kW/kW	3,863	3,634	3,593	3,825	3,669	3,631
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,37	5,267	5,211	5,412	5,299	5,284
$\eta_{s,c}$ (3)	%	212	208	205	213	209	208
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	6,171	5,977	5,813	6,055	5,451	5,621
IPLV (5)	kW/kW	5,695	5,620	5,412	5,962	5,678	5,767
Full Free Cooling Temperature(12)	°C	10,35	9,44	7,85	8,91	7,47	6,47
Flow rate (1)	l/s	10,21	11,19	12,83	15,54	17,47	19,15
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	11,66	13,84	14,43	33,88	42,17	27,95
Unit pressure drop free cooling ON(12)(6)	kPa	60,33	69,06	81,34	91,81	110,31	106,07
Sound Power (1)(7) **– Lw**	dB(a)	98	100	102	97	98	98
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	94	94	95	93	94	94
Number of circuits / Compressors	#	1	1	1	1	1	1
Water volume – open loop Free Cooling	Lt	40	40	48	42,7	42,7	58,1
Minimum water flow rate (10)	l/s	7,6	7,6	8,5	5,94	5,94	10,2
Length	mm	3954	3954	3954	5034	5034	5034
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	4272	4272	4199	4863	4863	4929
Operating weight (8)	kg	4380	4380	4315	4978	4978	5059
Water Connection Size	Ø mm	88,9	88,9	88,9	139,7	139,7	139,7

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
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(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFH TZ-D SS| Silver Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**490**	**540**	**400**	**470**	**535**	**595**
Cooling Capacity (1)	kW	653,01	719,3	531,16	621,78	678,79	791,51
Power input (1)	kW	192,06	209,10	131,61	162,34	179,29	212,54
Cooling Efficiency – EER (1)	kW/kW	3,4	3,44	4,036	3,83	3,786	3,724
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,208	5,441	5,195	5,058	5,097	5,15
$\eta_{s,c}$ (3)	%	205	215	205	199	201	203
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,389	5,303	4,695	5,92	5,871	3,933
IPLV (5)	kW/kW	5,594	5,459	5,560	5,390	5,423	5,509
Full Free Cooling Temperature(12)	°C	5,31	7,04	10,36	8,69	7,71	7,92
Flow rate (1)	l/s	20,82	22,94	16,94	19,83	21,65	25,24
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	32,8	39,3	27,39	36,04	35,93	38,11
Unit pressure drop free cooling ON(12)(6)	kPa	120,59	112,25	75,7	95,96	103,35	103,08
Sound Power (1)(7) **– Lw**	dB(a)	101	102	98	101	101	104
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	94	95	95	96	97	98
Number of circuits / Compressors	#	1	1	2	2	2	2
Water volume – open loop Free Cooling	Lt	58,1	58,1	152	152	255	232
Minimum water flow rate (10)	l/s	10,2	10,2	8,7	8,7	8,6	10,7
Length	mm	5034	6114	6112	6112	6112	7194
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	4929	5928	6758	6758	6913	7179
Operating weight (8)	kg	5059	6094	6908	6908	7163	7746
Water Connection Size	Ø mm	139,7	139,7	139,7	139,7	168,3	168,3

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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
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(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFH TZ-D SS| Silver Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**630**	**690**	**740**	**795**	**855**	**910**
Cooling Capacity [1]	kW	851,52	929,53	985,19	1046,1	1141,4	1205,24
Power input [1]	kW	236,34	238,40	264,48	283,67	315,59	326,62
Cooling Efficiency – EER [1]	kW/kW	3,603	3,899	3,725	3,688	3,617	3,69
Seasonal Energy Efficiency Ratio - SEER [1][2]	kW/kW	5,072	5,348	5,253	5,277	5,348	5,38
$\eta_{s,c}$ [3]	%	200	211	207	208	211	212
Seasonal Energy Performance Ratio - SEPR [1][2]	kW/kW	5,644	5,917	5,831	5,813	5,67	5,643
IPLV [5]	kW/kW	5,431	5,690	5,600	5,662	5,622	5,657
Full Free Cooling Temperature[12]	°C	7,2	5,8	4,99	6,19	5,23	6,18
Flow rate [1]	l/s	27,15	29,64	31,42	33,36	36,4	38,43
Evaporator Pressure Drop free cooling OFF [1][6]	kPa	42,98	41,76	46	50,91	55,61	60,54
Unit pressure drop free cooling ON[12][6]	kPa	114,94	123,61	134,96	128,09	142,8	138,7
Sound Power [1][7] **– Lw**	dB(a)	105	99	100	101	101	102
Sound Power [1][7] **– Lw with + OP76b**	dB(a)	98	95	95	96	96	97
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume – open loop Free Cooling	Lt	232	280	280	280	492	492
Minimum water flow rate [10]	l/s	10,7	12,9	12,9	12,9	12,3	12,3
Length	mm	7194	7194	7194	8274	8274	9354
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight [8]	kg	7179	8062	8062	8644	8959	9274
Operating weight [8]	kg	7746	8597	8597	9194	9659	10170
Water Connection Size	Ø mm	168,3	168,3	168,3	168,3	219,1	219,1

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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
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Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFH TZ-D SS| Silver Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**980**	**C10**	**C11**	**C12**	**H12**	**H13**
Cooling Capacity [1]	kW	1299,7	1384,9	1501,2	1629,7	1711,6	1814,12
Power input [1]	kW	356,28	378,60	415,96	476,53	442,85	509,16
Cooling Efficiency – EER [1]	kW/kW	3,648	3,658	3,609	3,42	3,865	3,563
Seasonal Energy Efficiency Ratio - SEER [1][2]	kW/kW	5,381	5,392	5,353	5,19	5,529	5,447
$\eta_{s,c}$ [3]	%	212	213	211	205	218	215
Seasonal Energy Performance Ratio - SEPR [1][2]	kW/kW	5,437	3,898	5,5	5,066	6,752	6,444
IPLV [5]	kW/kW	5,622	5,638	5,592	5,422	6,121	5,964
Full Free Cooling Temperature[12]	°C	6,63	7,32	6,39	5,05	4,05	3,09
Flow rate [1]	l/s	41,45	44,16	47,87	51,97	54,58	57,85
Evaporator Pressure Drop free cooling OFF [1][6]	kPa	68,24	62,08	44,8	50,7	37,75	41,28
Unit pressure drop free cooling ON[12][6]	kPa	141,35	131,05	122,63	138,28	132,14	143,93
Sound Power [1][7] **– Lw**	dB(a)	103	104	105	107	104	105
Sound Power [1][7] **– Lw with + OP76b**	dB(a)	97	98	98	99	98	98
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume – open loop Free Cooling	Lt	492	583	1043	1043	1011	1011
Minimum water flow rate [10]	l/s	12,3	14,6	18,1	18,1	22,6	22,6
Length	mm	10434	11514	11514	11514	12594	11514
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight [8]	kg	9716	10299	10686	10686	12929	12342
Operating weight [8]	kg	10798	11523	12321	12321	14364	13720
Water Connection Size	Ø mm	219,1	219,1	273	273	273	273

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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
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(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFH TZ-D SS| Silver Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz				
Model		**C14**	**C15**	**H15**
Cooling Capacity (1)	kW	1929,31	1990,3	2097,4
Power input (1)	kW	556,64	553,49	652,79
Cooling Efficiency – EER (1)	kW/kW	3,466	3,596	3,213
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,523	5,559	5,47
$\eta_{s,c}$ (3)	%	218	219	216
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	6,392	6,385	6,239
IPLV (5)	kW/kW	6,063	6,076	5,970
Full Free Cooling Temperature(12)	°C	3,75	4,6	3,86
Flow rate (1)	l/s	61,52	63,47	66,88
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	45,44	47,69	51,66
Unit pressure drop free cooling ON(12)(6)	kPa	142,23	137,75	148,88
Sound Power (1)(7) **– Lw**	dB(a)	106	107	108
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	99	100	100
Number of circuits / Compressors	#	2	2	2
Water volume – open loop Free Cooling	Lt	1011	1011	1011
Minimum water flow rate (10)	l/s	22,6	22,6	22,6
Length	mm	12280	13360	13360
Width	mm	2238	2238	2238
Height	mm	2553	2553	2553
Shipping weight (8)	kg	9561	10070	10070
Operating weight (8)	kg	12521	13106	13116
Water Connection Size	Ø mm	273	273	273

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFH TZ-D XS| Gold Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**220**	**230**	**275**	**300**	**350**	**400**
Cooling Capacity (1)	kW	292,3	316,29	370,68	404,54	464,68	529,1
Power input (1)	kW	74,32	87,06	92,97	106,49	113,20	135,84
Cooling Efficiency – EER (1)	kW/kW	3,933	3,633	3,987	3,799	4,105	3,895
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,493	5,444	5,544	5,609	6,003	5,967
$\eta_{s,c}$ (3)	%	217	215	219	221	237	23
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	6,902	6,732	6,519	6,537	7,31	6,658
IPLV (5)	kW/kW	6,046	6,019	6,119	6,101	6,701	6,280
Full Free Cooling Temperature(12)	°C	6,66	5,66	8,78	7,69	9,4	7,84
Flow rate (1)	l/s	9,32	10,09	11,82	12,9	14,82	16,87
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	9,86	11,41	12,35	14,59	31,03	39,52
Unit pressure drop free cooling ON(12)(6)	kPa	85,48	95,97	72,09	82,02	85,33	104,43
Sound Power (1)(7) **– Lw**	dB(a)	97	97	100	101	97	100
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	90	91	93	93	91	91
Number of circuits / Compressors	#	1	1	1	1	1	1
Water volume – open loop Free Cooling	Lt	40	40	48	48	42,7	42,7
Minimum water flow rate (10)	l/s	7,6	7,6	8,5	8,5	5,94	5,94
Length	mm	2560	2560	3954	3954	5034	5034
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	2797	2797	4393	4393	4921	4921
Operating weight (8)	kg	3054	3054	4509	4509	5036	5036
Water Connection Size	Ø mm	88,9	88,9	88,9	88,9	139,7	139,7

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFH TZ-D XS| Gold Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**470**	**515**	**540**	**620**	**465**	**545**
Cooling Capacity [1]	kW	625,13	679,05	699,59	790,82	628,57	729
Power input [1]	kW	158,38	184,88	165,39	203,24	145,94	169,89
Cooling Efficiency – EER [1]	kW/kW	3,947	3,673	4,23	3,891	4,307	4,291
Seasonal Energy Efficiency Ratio - SEER [1][2]	kW/kW	6,110	5,704	5,444	5,379	5,800	5,912
$\eta_{s,c}$ [3]	%	241	225	215	212	229	233
Seasonal Energy Performance Ratio - SEPR [1][2]	kW/kW	6,762	6,428	7,322	6,839	6,624	5,413
IPLV [5]	kW/kW	6,571	6,450	6,125	5,832	6,277	6,389
Full Free Cooling Temperature[12]	°C	8,73	7,73	7,15	5,15	10,48	8,82
Flow rate [1]	l/s	19,93	21,65	22,31	25,22	20,04	23,25
Evaporator Pressure Drop free cooling OFF [1][6]	kPa	30,1	35,09	22,39	28,03	36,75	33,36
Unit pressure drop free cooling ON[12][6]	kPa	90,31	102,62	93,22	112,21	83,83	91,28
Sound Power [1][7] **– Lw**	dB(a)	105	102	99	101	101	101
Sound Power [1][7] **– Lw with + OP76b**	dB(a)	92	93	92	93	95	95
Number of circuits / Compressors	#	1	1	1	1	2	2
Water volume – open loop Free Cooling	Lt	58,1	58,1	76,3	76,3	152	232
Minimum water flow rate [10]	l/s	10,2	10,2	13,4	13,4	8,7	10,7
Length	mm	6114	6114	5800	5800	7194	7194
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight [8]	kg	5981	5981	5474	5474	7284	7457
Operating weight [8]	kg	6147	6147	6043,3	6053,3	7634	7892
Water Connection Size	Ø mm	139,7	139,7	139,7	139,7	139,7	168,3

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFH TZ-D XS| Gold Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**600**	**645**	**700**	**750**	**790**	**840**
Cooling Capacity (1)	kW	809,26	871,23	926,9	998,56	1042,6	1119,66
Power input (1)	kW	204,36	209,13	232,89	245,47	252,71	276,94
Cooling Efficiency – EER (1)	kW/kW	3,96	4,166	3,98	4,068	4,126	4,043
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,831	5,957	5,918	6,147	6,205	6,127
$\eta_{s,c}$ (3)	%	230	235	234	243	245	242
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	6,739	7,05	6,967	7,142	7,038	6,926
IPLV (5)	kW/kW	6,300	6,479	6,362	6,639	6,690	6,489
Full Free Cooling Temperature(12)	°C	7,71	6,79	5,79	6,91	7,89	7,12
Flow rate (1)	l/s	25,81	27,78	29,56	31,84	33,25	35,71
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	29,99	33,86	37,54	45,26	48,35	53,97
Unit pressure drop free cooling ON(12)(6)	kPa	97,23	108,54	119,12	117,32	112,07	124,39
Sound Power (1)(7) **– Lw**	dB(a)	106	98	100	101	102	103
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	96	93	93	93	94	94
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume – open loop Free Cooling	Lt	289	289	289	492	492	492
Minimum water flow rate (10)	l/s	13	13	13	12,3	12,3	12,3
Length	mm	7194	7194	7194	8274	9354	9354
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	7573	8145	6577	9062	9412	9412
Operating weight (8)	kg	8108	8700	6927	9762	10308	10308
Water Connection Size	Ø mm	168,3	168,3	168,3	219,1	219,1	219,1

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFH TZ-D XS| Gold Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**900**	**975**	**H10**	**H11**	**H12**	**H13**
Cooling Capacity (1)	kW	1185,88	1295,3	1465,1	1533,9	1659,2	1791,69
Power input (1)	kW	305,80	341,25	386,37	383,40	416,89	454,05
Cooling Efficiency – EER (1)	kW/kW	3,878	3,796	3,792	4,001	3,98	3,946
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	6,008	6,025	5,997	5,645	5,693	5,758
$\eta_{s,c}$ (3)	%	237	238	237	223	225	227
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	6,695	6,108	6,202	7,177	6,961	6,864
IPLV (5)	kW/kW	6,472	6,443	6,436	6,376	6,481	6,426
Full Free Cooling Temperature(12)	°C	6,3	6,81	6,71	5,83	6,16	6,32
Flow rate (1)	l/s	37,82	41,31	46,72	48,92	52,91	57,14
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	48,46	55,77	29,87	46,25	52,16	40,49
Unit pressure drop free cooling ON(12)(6)	kPa	124,89	128,91	105,44	106,47	107,59	118,08
Sound Power (1)(7) **– Lw**	dB(a)	105	107	105	103	104	105
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	94	95	96	96	96	97
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume – open loop Free Cooling	Lt	583	583	1011	1011	1011	1011
Minimum water flow rate (10)	l/s	14,6	14,6	22,6	22,6	22,6	22,6
Length	mm	9354	10434	11514	11514	12594	9354
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	9619	10024	10822	12342	12929	9619
Operating weight (8)	kg	10615	11206	12457	13720	14364	10615
Water Connection Size	Ø mm	219,1	219,1	273	273	273	273

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFH TZ-D PS| Platinum Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**225**	**265**	**295**	**340**	**395**	**420**
Cooling Capacity [1]	kW	304,05	354,68	400,17	449,76	530,5	557,51
Power input [1]	kW	68,326	76,275	93,651	93,022	120,87	125,424
Cooling Efficiency – EER [1]	kW/kW	4,45	4,65	4,273	4,835	4,389	4,445
Seasonal Energy Efficiency Ratio - SEER [1][2]	kW/kW	6,008	6,095	6,081	6,58	6,397	6,579
$\eta_{s,c}$ [3]	%	237	241	240	260	253	260
Seasonal Energy Performance Ratio - SEPR [1][2]	kW/kW	7,312	7,556	7,271	7,983	7,59	5,795
IPLV [5]	kW/kW	6,738	6,736	6,579	7,506	7,214	7,271
Full Free Cooling Temperature[12]	°C	10,78	11,86	11,12	11,82	11,4	12,09
Flow rate [1]	l/s	9,7	11,31	12,76	14,34	16,92	17,78
Evaporator Pressure Drop free cooling OFF [1][6]	kPa	10,61	11,36	14,28	16,46	22,24	24,35
Unit pressure drop free cooling ON[12][6]	kPa	55,95	49,26	58,89	54,95	70,34	64,3
Sound Power [1][7] **– Lw**	dB(a)	97	98	103	96	99	100
Sound Power [1][7] **– Lw with + OP76b**	dB(a)	91	93	94	92	92	93
Number of circuits / Compressors	#	1	1	1	1	1	1
Water volume – open loop Free Cooling	Lt	40	48	48	58,1	58,1	58,1
Minimum water flow rate [10]	l/s	7,6	8,5	8,5	10,2	10,2	10,2
Length	mm	3954	5034	5034	6114	6114	7194
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight [8]	kg	3192	4886	4886	5981	5981	6254
Operating weight [8]	kg	4428	5024	5024	6147	6147	6557
Water Connection Size	Ø mm	88,9	88,9	88,9	139,7	139,7	139,7

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
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(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFH TZ-D PS| Platinum Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**490**	**545**	**500**	**540**	**615**	**645**
Cooling Capacity [1]	kW	653,14	701,13	649,84	723,67	824,28	865,15
Power input [1]	kW	155,732	153,01	137,59	155,59	179,82	193,20
Cooling Efficiency – EER [1]	kW/kW	4,194	4,582	4,723	4,651	4,584	4,478
Seasonal Energy Efficiency Ratio - SEER [1][2]	kW/kW	6,481	5,753	6,199	6,24	6,646	6,55
$\eta_{s,c}$ [3]	%	256	227	245	247	263	259
Seasonal Energy Performance Ratio - SEPR [1][2]	kW/kW	7,297	8,001	6,966	7,58	7,332	7,884
IPLV [5]	kW/kW	7,135	6,730	6,819	6,956	7,347	7,226
Full Free Cooling Temperature[12]	°C	10,27	9,3	9,81	10,71	9,31	8,76
Flow rate [1]	l/s	20,83	22,36	20,72	23,08	26,29	27,59
Evaporator Pressure Drop free cooling OFF [1][6]	kPa	19,77	22,48	21,05	25,02	33,95	36,47
Unit pressure drop free cooling ON[12][6]	kPa	69,58	77,42	70,23	70,83	89,09	95,44
Sound Power [1][7] **– Lw**	dB(a)	105	99	101	101	97	98
Sound Power [1][7] **– Lw with + OP76b**	dB(a)	93	93	95	96	93	93
Number of circuits / Compressors	#	1	1	2	2	2	2
Water volume – open loop Free Cooling	Lt	76,3	76,3	289	289	492	492
Minimum water flow rate [10]	l/s	13,4	13,4	13	13	12,3	12,3
Length	mm	7194	6880	7194	8274	8274	8274
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight [8]	kg	6343	5984	7573	8180	9062	9062
Operating weight [8]	kg	6662	6618,3	8108	8730	9762	9762
Water Connection Size	Ø mm	139,7	139,7	168,3	168,3	219,1	219,1

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFH TZ-D PS| Platinum Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**700**	**770**	**845**	**900**	**960**	**C10**
Cooling Capacity (1)	kW	933,28	1019,2	1088,3	1177,5	1226,8	1329,9
Power input (1)	kW	213,37	236,76	246,00	281,97	288,95	328,13
Cooling Efficiency – EER (1)	kW/kW	4,374	4,305	4,424	4,176	4,246	4,053
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,945	6,46	6,506	6,388	5,929	6,3
$\eta_{s,c}$ (3)	%	235	255	257	253	234	249
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	7,611	7,394	7,499	7,129	6,569	6,93
IPLV (5)	kW/kW	7,016	7,052	7,143	6,966	6,615	6,787
Full Free Cooling Temperature(12)	°C	7,82	8,3	8,47	7,72	6,89	7,8
Flow rate (1)	l/s	29,76	32,5	34,71	37,55	39,12	42,41
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	40,86	38,32	54,37	61,25	33,25	37,41
Unit pressure drop free cooling ON(12)(6)	kPa	106,39	100,13	111,51	125	91,85	103
Sound Power (1)(7) **– Lw**	dB(a)	99	101	102	104	107	107
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	93	94	95	95	95	95
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume – open loop Free Cooling	Lt	492	583	546	546	1043	1043
Minimum water flow rate (10)	l/s	12,3	14,6	14,5	14,5	18,1	18,1
Length	mm	8274	9354	10434	10434	11514	11514
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	9062	9619	10024	10024	10822	10822
Operating weight (8)	kg	9762	10615	11206	11206	12457	12457
Water Connection Size	Ø mm	219,1	219,1	219,1	219,1	273	273

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFH TZ-D PS| Platinum Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz				
Model		**H10**	**H11**	**C12**
Cooling Capacity (1)	kW	1563,61	1433,7	1487,7
Power input (1)	kW	349,88	355,25	337,05
Cooling Efficiency – EER (1)	kW/kW	4,469	4,036	4,414
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,568	6,031	6,095
$\eta_{s,c}$ (3)	%	220	238	241
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	6,912	7,423	7,821
IPLV (5)	kW/kW	6,825	6,965	7,041
Full Free Cooling Temperature(12)	°C	8,23	7,43	7,88
Flow rate (1)	l/s	49,86	45,72	47,44
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	32,91	28,93	30,56
Unit pressure drop free cooling ON(12)(6)	kPa	96,87	92,74	97,69
Sound Power (1)(7) **– Lw**	dB(a)	106	102	103
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	96	96	96
Number of circuits / Compressors	#	2	2	2
Water volume – open loop Free Cooling	Lt	1011	1011	1011
Minimum water flow rate (10)	l/s	22,6	22,6	22,6
Length	mm	12594	12594	13360
Width	mm	2238	2238	2238
Height	mm	2553	2553	2553
Shipping weight (8)	kg	1 1441	12929	10070
Operating weight (8)	kg	13118	14364	13061
Water Connection Size	Ø mm	273	273	273

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFD TZ-D BS| Blue Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**275**	**320**	**345**	**400**	**470**	**525**
Cooling Capacity (1)	kW	369,14	425,91	463,76	558,13	625,57	694,72
Power input (1)	kW	101,38	108,98	126,57	154,91	184,48	185,46
Cooling Efficiency – EER (1)	kW/kW	3,641	3,908	3,664	3,603	3,391	3,746
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	4,949	5,245	5,331	5,382	5,141	5,364
$\eta_{s,c}$ (3)	%	195	207	210	212	203	212
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,783	6,064	5,847	5,756	5,633	5,798
IPLV (5)	kW/kW	5,248	5,612	5,562	5,760	5,549	5,729
Full Free Cooling Temperature(12)	°C	3,27	7,12	5,99	3,08	1,21	3,97
Flow rate (1)	l/s	11,77	13,58	14,79	17,8	19,95	22,15
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	15,16	19,91	23,42	43,75	54,07	36,93
Unit pressure drop free cooling ON(12)(6)	kPa	120,76	92,28	105,01	149,88	179,45	133,16
Sound Power (1)(7) **– Lw**	dB(a)	97	98	100	97	97	98
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	95	97	97	96	96	97
Number of circuits / Compressors	#	1	1	1	1	1	1
Water volume – open loop Free Cooling	Lt	40	40	40	42,7	42,7	58,1
Minimum water flow rate (10)	l/s	7,6	7,6	7,6	5,94	5,94	10,2
Length	mm	2560	3954	3954	3954	3954	5034
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	2626	4272	4272	4489	4489	4929
Operating weight (8)	kg	2847	4380	4380	4562	4562	5059
Water Connection Size	Ø mm	88,9	88,9	88,9	139,7	139,7	139,7

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFD TZ-D BS| Blue Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**580**	**625**	**510**	**545**	**570**	**630**
Cooling Capacity (1)	kW	685,55	719,52	761,02	855,08	685,55	719,52
Power input (1)	kW	186,09	201,89	224,29	241,14	186,09	201,89
Cooling Efficiency – EER (1)	kW/kW	3,684	3,564	3,393	3,546	3,684	3,564
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,199	5,090	4,802	4,756	4,707	4,970
$\eta_{s,c}$ (3)	%	205	201	189	187	185	196
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,524	5,241	5,859	5,715	5,589	5,807
IPLV (5)	kW/kW	5,550	5,372	5,137	5,108	5,062	5,330
Full Free Cooling Temperature(12)	°C	2,39	1,02	4,5	3,41	2,47	4,82
Flow rate (1)	l/s	21,86	22,94	24,27	27,27	21,86	22,94
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	29,78	32,28	35,45	32,54	29,78	32,28
Unit pressure drop free cooling ON(12)(6)	kPa	124,13	133,43	145,21	126,66	124,13	133,43
Sound Power (1)(7) **– Lw**	dB(a)	98	101	99	99	100	101
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	97	98	98	98	98	99
Number of circuits / Compressors	#	1	1	2	2	2	2
Water volume – open loop Free Cooling	Lt	58,1	58,1	270	270	270	255
Minimum water flow rate (10)	l/s	10,2	10,2	8,6	8,6	8,6	10,7
Length	mm	5034	5034	5034	5034	5034	6112
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	4929	4929	6350	6350	6350	6913
Operating weight (8)	kg	5059	5059	6600	6600	6600	7163
Water Connection Size	Ø mm	139,7	139,7	168,3	168,3	168,3	168,3

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFD TZ-D BS| Blue Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**670**	**755**	**830**	**915**	**C10**	**H10**
Cooling Capacity (1)	kW	911,03	1003,2	1114,2	1241,5	1334,7	1404,96
Power input (1)	kW	273,01	255,86	304,84	346,59	403,60	395,65
Cooling Efficiency – EER (1)	kW/kW	3,337	3,921	3,655	3,582	3,307	3,551
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	4,883	5,456	5,327	5,217	5,132	5,282
$\eta_{s,c}$ (3)	%	192	215	210	206	202	208
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,598	6,050	5,862	5,920	5,605	5,674
IPLV (5)	kW/kW	5,260	5,839	5,674	5,628	5,474	5,650
Full Free Cooling Temperature(12)	°C	3,56	4,67	3,14	1,5	-0,01	1,33
Flow rate (1)	l/s	29,05	31,99	35,53	39,59	42,56	44,8
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	36,2	47,64	56,81	42,3	47,34	46,4
Unit pressure drop free cooling ON(12)(6)	kPa	139,33	138,32	162,28	166,57	185,71	165,21
Sound Power (1)(7) **– Lw**	dB(a)	102	99	100	99	100	101
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	99	99	99	99	99	100
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume – open loop Free Cooling	Lt	255	280	280	481	481	557
Minimum water flow rate (10)	l/s	10,7	12,9	12,9	15,3	15,3	18,2
Length	mm	6112	7194	7194	7194	7194	8274
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	6913	8062	8062	8357	8357	9015
Operating weight (8)	kg	7163	8597	8597	9062	9062	9815
Water Connection Size	Ø mm	168,3	168,3	168,3	219,1	219,1	219,1

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFD TZ-D BS| Blue Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**H11**	**C12**	**C13**	**C14**	**C15**	**H16**
Cooling Capacity (1)	kW	1526,92	1630,0	1754,9	1876,5	2090,2	2100,49
Power input (1)	kW	425,44	450,16	488,97	554,71	620,43	567,85
Cooling Efficiency – EER (1)	kW/kW	3,589	3,621	3,589	3,383	3,369	3,699
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,362	5,458	5,392	5,299	5,339	5,414
$\eta_{s,c}$ (3)	%	211	215	213	209	211	214
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,684	5,713	5,399	5,436	5,373	6,629
IPLV (5)	kW/kW	5,783	5,753	5,705	5,579	5,589	5,971
Full Free Cooling Temperature(12)	°C	1,65	3,22	3,66	2,85	2,9	1,98
Flow rate (1)	l/s	48,69	51,98	55,96	59,84	66,66	66,98
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	52,93	58,77	66,22	73,92	51,61	51,99
Unit pressure drop free cooling ON(12)(6)	kPa	162,97	160,61	163,34	180,91	161,1	162,28
Sound Power (1)(7) **– Lw**	dB(a)	101	102	104	105	106	104
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	100	101	101	102	102	102
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume – open loop Free Cooling	Lt	557	557	557	557	1011	1011
Minimum water flow rate (10)	l/s	18,2	18,2	18,2	18,2	22,6	22,6
Length	mm	9264	10434	11514	11200	12280	12594
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	9878	9888	10299	8277	9157	12929
Operating weight (8)	kg	10478	11070	11523	9697	11117	14364
Water Connection Size	Ø mm	219,1	219,1	219,1	219,1	273	273

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFD TZ-D BS| Blue Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz				
Model		**H17**	**H18**	**H19**
Cooling Capacity (1)	kW	2243,02	2379,6	2480,8
Power input (1)	kW	664,20	708,45	805,48
Cooling Efficiency – EER (1)	kW/kW	3,377	3,359	3,08
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,336	5,185	5,225
$\eta_{s,c}$ (3)	%	210	204	206
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	6,410	6,167	5,992
IPLV (5)	kW/kW	5,829	5,779	5,685
Full Free Cooling Temperature(12)	°C	1,25	1,34	0,53
Flow rate (1)	l/s	71,53	75,89	79,11
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	57,59	63,2	67,49
Unit pressure drop free cooling ON(12)(6)	kPa	179,04	179,44	191,07
Sound Power (1)(7) **– Lw**	dB(a)	105	106	107
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	102	102	102
Number of circuits / Compressors	#	2	2	2
Water volume – open loop Free Cooling	Lt	1011	1011	1011
Minimum water flow rate (10)	l/s	22,6	22,6	22,6
Length	mm	12594	13674	13674
Width	mm	2238	2238	2238
Height	mm	2553	2553	2553
Shipping weight (8)	kg	12929	13500	13500
Operating weight (8)	kg	14364	14935	14935
Water Connection Size	Ø mm	273	273	273

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFD TZ-D SS| Silver Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**285**	**325**	**380**	**430**	**495**	**535**
Cooling Capacity [1]	kW	379,5	442,36	502,45	572,09	662,22	711,12
Power input [1]	kW	94,38	110,40	129,90	146,31	171,96	185,91
Cooling Efficiency – EER [1]	kW/kW	4,021	4,007	3,868	3,91	3,851	3,825
Seasonal Energy Efficiency Ratio - SEER [1][2]	kW/kW	5,263	5,535	5,711	5,727	5,422	5,459
$\eta_{s,c}$ [3]	%	208	218	225	226	214	215
Seasonal Energy Performance Ratio - SEPR [1][2]	kW/kW	6,279	6,358	6,233	6,068	6,048	6,077
IPLV [5]	kW/kW	5,706	5,873	5,918	6,074	5,885	6,016
Full Free Cooling Temperature[12]	°C	8,55	10,12	8,82	7,25	4,91	6,88
Flow rate [1]	l/s	12,1	14,11	16,02	18,24	21,12	22,68
Evaporator Pressure Drop free cooling OFF [1][6]	kPa	15,98	17,33	36,01	45,79	33,82	38,53
Unit pressure drop free cooling ON[12][6]	kPa	77,61	68,49	96,41	118,12	123,66	110,46
Sound Power [1][7] **– Lw**	dB(a)	98	98	100	98	97	98
Sound Power [1][7] **– Lw with + OP76b**	dB(a)	96	98	98	97	97	98
Number of circuits / Compressors	#	1	1	1	1	1	1
Water volume – open loop Free Cooling	Lt	40	48	48	42,7	58,1	58,1
Minimum water flow rate [10]	l/s	7,6	8,5	8,5	5,94	10,2	10,2
Length	mm	3954	5034	5034	5034	5034	6114
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight [8]	kg	4272	4692	4692	4863	4929	5928
Operating weight [8]	kg	4380	4830	4830	4978	5059	6094
Water Connection Size	Ø mm	88,9	88,9	88,9	139,7	139,7	139,7

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFD TZ-D SS| Silver Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**595**	**650**	**520**	**555**	**585**	**645**
Cooling Capacity (1)	kW	804,21	867,99	692,79	747,11	779,76	869,63
Power input (1)	kW	217,18	250,00	177,96	193,50	210,40	222,18
Cooling Efficiency – EER (1)	kW/kW	3,703	3,472	3,893	3,861	3,706	3,914
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	804,21	867,99	5,128	5,080	4,983	5,147
$\eta_{s,c}$ (3)	%	211	210	202	200	196	203
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,772	5,472	5,816	5,179	5,696	6,044
IPLV (5)	kW/kW	5,826	5,630	5,419	5,361	5,308	5,508
Full Free Cooling Temperature(12)	°C	5,6	4,23	7,4	6,49	5,74	6,78
Flow rate (1)	l/s	25,65	27,68	22,09	23,82	24,87	27,73
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	48,34	55,7	30,3	34,36	36,93	33,48
Unit pressure drop free cooling ON(12)(6)	kPa	133,89	151,08	100,07	111,93	119,33	107,81
Sound Power (1)(7) **– Lw**	dB(a)	98	101	99	99	101	101
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	98	98	99	99	99	100
Number of circuits / Compressors	#	1	1	2	2	2	2
Water volume – open loop Free Cooling	Lt	58,1	58,1	270	270	270	255
Minimum water flow rate (10)	l/s	10,2	10,2	8,6	8,6	8,6	10,7
Length	mm	6114	6114	6112	6112	6112	7194
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	5928	5928	6913	6913	6913	7179
Operating weight (8)	kg	6094	6094	7163	7163	7163	7746
Water Connection Size	Ø mm	139,7	139,7	168,3	168,3	168,3	168,3

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFD TZ-D SS| Silver Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**705**	**760**	**835**	**960**	**C10**	**H10**
Cooling Capacity (1)	kW	943,27	1015,3	1110,2	1268,2	1319,2	1368,82
Power input (1)	kW	255,70	252,63	291,57	334,02	361,04	379,91
Cooling Efficiency – EER (1)	kW/kW	3,689	4,019	3,808	3,797	3,654	3,603
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,032	5,659	5,558	5,444	5,349	5,338
$\eta_{s,c}$ (3)	%	198	223	219	215	211	211
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,708	6,322	6,015	6,062	5,618	5,613
IPLV (5)	kW/kW	5,424	6,045	5,875	5,800	5,680	5,709
Full Free Cooling Temperature(12)	°C	5,49	7	5,55	3,4	2,36	1,78
Flow rate (1)	l/s	30,08	32,38	35,41	40,44	42,07	43,65
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	38,4	48,6	56,48	43,71	46,5	44,56
Unit pressure drop free cooling ON(12)(6)	kPa	121,71	122,87	140,76	145,93	154,75	158,9
Sound Power (1)(7) **– Lw**	dB(a)	103	99	100	100	100	101
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	100	100	100	100	100	100
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume – open loop Free Cooling	Lt	255	280	280	481	481	557
Minimum water flow rate (10)	l/s	10,7	12,9	12,9	15,3	15,3	18,2
Length	mm	7194	8274	8274	8274	8274	8274
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	7179	8644	8644	8959	8959	9015
Operating weight (8)	kg	7746	9194	9194	9659	9659	9815
Water Connection Size	Ø mm	168,3	168,3	168,3	219,1	219,1	219,1

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFD TZ-D SS| Silver Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**H11**	**H12**	**H13**	**H14**	**H15**	**H16**
Cooling Capacity (1)	kW	1529,08	1701,5	1823,8	2008,8	2007,2	2100,49
Power input (1)	kW	425,10	462,12	504,23	579,43	521,09	567,85
Cooling Efficiency – EER (1)	kW/kW	3,597	3,682	3,617	3,467	3,852	3,699
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,362	5,492	5,510	5,340	5,382	5,414
$\eta_{s,c}$ (3)	%	211	217	217	211	212	214
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,684	5,764	5,503	5,524	6,997	6,629
IPLV (5)	kW/kW	5,697	5,967	5,764	5,690	6,081	5,971
Full Free Cooling Temperature(12)	°C	2,28	5,01	4,8	3,52	3,03	1,98
Flow rate (1)	l/s	48,76	54,26	58,16	64,06	64,01	66,98
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	53,04	62,96	70,52	48,54	48,47	51,99
Unit pressure drop free cooling ON(12)(6)	kPa	163,32	155,87	159,85	151,88	151,71	162,28
Sound Power (1)(7) **– Lw**	dB(a)	101	102	104	105	103	104
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	100	101	102	102	102	102
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume – open loop Free Cooling	Lt	557	557	557	1011	1011	1011
Minimum water flow rate (10)	l/s	18,2	18,2	18,2	22,6	22,6	22,6
Length	mm	9264	11514	12594	12594	12594	9264
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	9878	10299	10917	12929	12929	9878
Operating weight (8)	kg	10478	11523	12183	14364	14364	10478
Water Connection Size	Ø mm	219,1	219,1	219,1	273	273	273

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
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(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
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Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFD TZ-D SS| Silver Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz				
Model		**H17**	**H18**	**H19**
Cooling Capacity [1]	kW	2302,43	2379,6	2480,8
Power input [1]	kW	647,84	708,45	805,48
Cooling Efficiency – EER [1]	kW/kW	3,554	3,359	3,08
Seasonal Energy Efficiency Ratio - SEER [1][2]	kW/kW	5,408	5,185	5,225
$\eta_{s,c}$ [3]	%	213	204	206
Seasonal Energy Performance Ratio - SEPR [1][2]	kW/kW	6,471	6,167	5,992
IPLV [5]	kW/kW	5,891	5,779	5,685
Full Free Cooling Temperature[12]	°C	2,18	1,34	0,53
Flow rate [1]	l/s	73,42	75,89	79,11
Evaporator Pressure Drop free cooling OFF [1][6]	kPa	60	63,2	67,49
Unit pressure drop free cooling ON[12][6]	kPa	170,77	179,44	191,07
Sound Power [1][7] **– Lw**	dB(a)	105	106	107
Sound Power [1][7] **– Lw with + OP76b**	dB(a)	102	102	102
Number of circuits / Compressors	#	2	2	2
Water volume – open loop Free Cooling	Lt	1011	1011	1011
Minimum water flow rate [10]	l/s	22,6	22,6	22,6
Length	mm	13674	13674	13674
Width	mm	2238	2238	2238
Height	mm	2553	2553	2553
Shipping weight [8]	kg	13500	13500	13500
Operating weight [8]	kg	14935	14935	14935
Water Connection Size	Ø mm	273	273	273

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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
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(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFD TZ-D XS| Gold Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**295**	**345**	**380**	**440**	**515**	**565**
Cooling Capacity [1]	kW	399,9	463,76	510,15	597,46	688,16	753,32
Power input [1]	kW	99,08	112,32	130,61	138,30	167,60	182,27
Cooling Efficiency – EER [1]	kW/kW	4,036	4,129	3,906	4,32	4,106	4,133
Seasonal Energy Efficiency Ratio - SEER [1][2]	kW/kW	5,513	5,770	5,694	6,127	5,991	6,002
$\eta_{s,c}$ [3]	%	218	228	225	242	237	237
Seasonal Energy Performance Ratio - SEPR [1][2]	kW/kW	6,876	7,069	6,779	7,721	6,991	6,721
IPLV [5]	kW/kW	6,087	6,309	6,223	6,763	6,548	6,747
Full Free Cooling Temperature[12]	°C	7,93	9,51	8,44	9,2	7,44	8,83
Flow rate [1]	l/s	12,75	14,79	16,27	19,05	21,94	24,02
Evaporator Pressure Drop free cooling OFF [1][6]	kPa	17,65	18,98	22,8	28,05	36,28	25,96
Unit pressure drop free cooling ON[12][6]	kPa	83,92	73,54	84,98	84,49	104,96	86,55
Sound Power [1][7] **– Lw**	dB(a)	97	98	103	96	97	100
Sound Power [1][7] **– Lw with + OP76b**	dB(a)	93	95	95	94	94	95
Number of circuits / Compressors	#	1	1	1	1	1	1
Water volume – open loop Free Cooling	Lt	40	48	48	58,1	58,1	76,3
Minimum water flow rate [10]	l/s	7,6	8,5	8,5	10,2	10,2	13,4
Length	mm	3954	5034	5034	6114	6114	7194
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight [8]	kg	3182	4886	4886	5981	5981	6343
Operating weight [8]	kg	4428	5024	5024	6147	6147	6662
Water Connection Size	Ø mm	88,9	88,9	88,9	139,7	139,7	139,7

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFD TZ-D XS| Gold Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**635**	**705**	**760**	**525**	**565**	**610**
Cooling Capacity [1]	kW	859,38	917,99	987,68	693,59	765,93	829,61
Power input [1]	kW	221,55	224,56	250,81	155,37	181,97	193,61
Cooling Efficiency – EER [1]	kW/kW	3,879	4,088	3,938	4,464	4,209	4,285
Seasonal Energy Efficiency Ratio - SEER [1][2]	kW/kW	5,971	5,379	5,305	5,812	5,746	5,825
$\eta_{s,c}$ [3]	%	236	212	209	229	227	230
Seasonal Energy Performance Ratio - SEPR [1][2]	kW/kW	6,739	7,307	6,985	5,644	6,981	7,221
IPLV [5]	kW/kW	6,544	5,859	5,769	6,305	6,193	6,275
Full Free Cooling Temperature[12]	°C	7,12	5,96	4,84	9,1	8,26	9,54
Flow rate [1]	l/s	27,4	29,27	31,5	22,12	24,42	26,46
Evaporator Pressure Drop free cooling OFF [1][6]	kPa	32,95	37,16	42,51	37,58	44,12	50,35
Unit pressure drop free cooling ON[12][6]	kPa	105,92	117,3	131,46	90,29	104,76	106,26
Sound Power [1][7] **– Lw**	dB(a)	105	99	100	100	100	101
Sound Power [1][7] **– Lw with + OP76b**	dB(a)	95	95	95	96	96	97
Number of circuits / Compressors	#	1	1	1	2	2	2
Water volume – open loop Free Cooling	Lt	76,3	76,3	76,3	255	255	255
Minimum water flow rate [10]	l/s	13,4	13,4	13,4	8,6	8,6	10,7
Length	mm	7194	6880	6880	7194	7194	8274
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight [8]	kg	6343	5984	5984	7457	7457	8167
Operating weight [8]	kg	6662	6586	6596	7892	7892	8617
Water Connection Size	Ø mm	139,7	139,7	139,7	168,3	168,3	168,3

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFD TZ-D XS| Gold Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**670**	**725**	**805**	**880**	**950**	**C10**
Cooling Capacity (1)	kW	896,78	970,44	1076,5	1200,8	1273,1	1340,76
Power input (1)	kW	220,77	243,65	262,37	285,03	317,34	334,69
Cooling Efficiency – EER (1)	kW/kW	4,062	3,983	4,103	4,213	4,012	4,006
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,719	5,728	5,937	6,090	5,977	6,099
$\eta_{s,c}$ (3)	%	226	226	234	241	236	241
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	6,928	6,880	6,938	7,037	7,159	6,755
IPLV (5)	kW/kW	6,135	6,225	6,482	6,614	6,459	6,591
Full Free Cooling Temperature(12)	°C	8,58	7,59	7,67	6,48	5,37	6,49
Flow rate (1)	l/s	28,6	30,95	34,33	38,29	40,6	42,76
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	57,23	36,86	34,04	40,18	43,98	47,67
Unit pressure drop free cooling ON(12)(6)	kPa	119,39	106,29	100,86	118,06	128,57	124,79
Sound Power (1)(7) **– Lw**	dB(a)	101	102	105	98	100	101
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	97	97	98	96	96	97
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume – open loop Free Cooling	Lt	255	298	481	481	481	481
Minimum water flow rate (10)	l/s	10,7	14,3	15,3	15,3	15,3	15,3
Length	mm	8274	8274	9354	9354	9354	10434
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	8167	8180	8819	9412	9412	9852
Operating weight (8)	kg	8617	8730	9715	10308	10308	10934
Water Connection Size	Ø mm	168,3	168,3	219,1	219,1	219,1	219,1

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
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(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFD TZ-D XS| Gold Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**H10**	**H11**	**C12**	**H12**	**H13**	**H14**
Cooling Capacity [1]	kW	1407,6	1526,9	1573,2	1705,7	1781,3	1883,74
Power input [1]	kW	360,18	382,49	409,49	456,56	476,42	451,41
Cooling Efficiency – EER [1]	kW/kW	3,908	3,992	3,842	3,736	3,739	4,173
Seasonal Energy Efficiency Ratio - SEER [1][2]	kW/kW	5,952	5,419	6,0	5,809	5,981	5,690
$\eta_{s,c}$ [3]	%	235	214	237	229	236	225
Seasonal Energy Performance Ratio - SEPR [1][2]	kW/kW	6,866	6,972	6,760	6,650	6,575	7,592
IPLV [5]	kW/kW	6,418	6,605	6,440	6,380	6,347	6,404
Full Free Cooling Temperature[12]	°C	5,79	6,21	5,32	4,33	5,11	5,29
Flow rate [1]	l/s	44,89	48,69	50,17	54,39	56,81	60,07
Evaporator Pressure Drop free cooling OFF [1][6]	kPa	51,48	52,94	55,51	37,91	40,44	44,01
Unit pressure drop free cooling ON[12][6]	kPa	134,08	132,5	138,54	131,67	127,35	127,05
Sound Power [1][7] **– Lw**	dB(a)	102	103	105	108	106	102
Sound Power [1][7] **– Lw with + OP76b**	dB(a)	97	97	97	98	98	98
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume – open loop Free Cooling	Lt	481	557	557	557	1011	1011
Minimum water flow rate [10]	l/s	15,3	18,2	18,2	18,2	22,6	22,6
Length	mm	10434	11514	11514	11514	12594	13674
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight [8]	kg	9852	10435	10435	10822	1 1441	13500
Operating weight [8]	kg	10934	11659	11659	12457	13118	14935
Water Connection Size	Ø mm	219,1	219,1	219,1	219,1	273	273

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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFD TZ-D XS| Gold Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz				
Model		**H15**	**H16**	**H17**
Cooling Capacity [1]	kW	2020,26	2157,2	2263,5
Power input [1]	kW	506,46	582,25	657,04
Cooling Efficiency – EER [1]	kW/kW	3,989	3,705	3,445
Seasonal Energy Efficiency Ratio - SEER [1][2]	kW/kW	5,512	5,517	5,368
$\eta_{s,c}$ [3]	%	217	218	212
Seasonal Energy Performance Ratio - SEPR [1][2]	kW/kW	7,038	6,838	6,451
IPLV [5]	kW/kW	6,197	6,076	5,915
Full Free Cooling Temperature[12]	°C	4,41	3,35	2,36
Flow rate [1]	l/s	64,42	68,79	72,18
Evaporator Pressure Drop free cooling OFF [1][6]	kPa	48,96	54,19	58,42
Unit pressure drop free cooling ON[12][6]	kPa	140,71	154,99	166,49
Sound Power [1][7] **– Lw**	dB(a)	103	104	105
Sound Power [1][7] **– Lw with + OP76b**	dB(a)	99	99	99
Number of circuits / Compressors	#	2	2	2
Water volume – open loop Free Cooling	Lt	1011	1011	1011
Minimum water flow rate [10]	l/s	22,6	22,6	22,6
Length	mm	13674	13674	13360
Width	mm	2238	2238	2238
Height	mm	2553	2553	2553
Shipping weight [8]	kg	13500	13500	10070
Operating weight [8]	kg	14935	14935	12125
Water Connection Size	Ø mm	273	273	273

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFD TZ-D PS| Platinum Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**285**	**330**	**370**	**405**	**450**	**490**
Cooling Capacity [1]	kW	381,74	444,63	495,8	536,62	602,51	645,91
Power input [1]	kW	81,46	96,85	115,14	108,96	126,02	139,35
Cooling Efficiency – EER [1]	kW/kW	4,686	4,591	4,306	4,925	4,781	4,635
Seasonal Energy Efficiency Ratio - SEER [1][2]	kW/kW	6,018	6,229	6,138	6,369	6,325	6,262
$\eta_{s,c}$ [3]	%	238	246	243	252	250	247
Seasonal Energy Performance Ratio - SEPR [1][2]	kW/kW	7,819	7,650	7,291	6,352	4,850	7,622
IPLV [5]	kW/kW	6,730	6,820	6,691	7,327	7,623	7,171
Full Free Cooling Temperature[12]	°C	11,45	11,96	11,1	11,73	10,75	10,1
Flow rate [1]	l/s	12,17	14,18	15,81	17,11	19,21	20,6
Evaporator Pressure Drop free cooling OFF [1][6]	kPa	13,07	17,5	21,58	23,11	17,38	19,68
Unit pressure drop free cooling ON[12][6]	kPa	55,01	55,16	65,24	61,14	61,71	68,54
Sound Power [1][7] **– Lw**	dB(a)	97	98	100	95	96	98
Sound Power [1][7] **– Lw with + OP76b**	dB(a)	94	95	96	95	95	95
Number of circuits / Compressors	#	1	1	1	1	1	1
Water volume – open loop Free Cooling	Lt	48	48	48	58,1	76,3	76,3
Minimum water flow rate [10]	l/s	8,5	8,5	8,5	10,2	13,4	13,4
Length	mm	5034	6114	6114	7194	7194	7194
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight [8]	kg	4886	5449	5449	6254	6343	6343
Operating weight [8]	kg	5024	5610	5610	6557	6662	6662
Water Connection Size	Ø mm	88,9	88,9	88,9	139,7	139,7	139,7

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
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(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFD TZ-D PS| Platinum Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**530**	**575**	**615**	**675**	**735**	**810**
Cooling Capacity [1]	kW	732,72	764,71	851,22	915,7	983,15	1072,86
Power input [1]	kW	159,22	169,00	189,83	214,40	231,60	243,17
Cooling Efficiency – EER [1]	kW/kW	4,602	4,525	4,484	4,271	4,245	4,412
Seasonal Energy Efficiency Ratio - SEER [1][2]	kW/kW	6,194	6,108	6,056	5,971	6,024	6,262
$\eta_{s,c}$ [3]	%	245	241	239	236	238	247
Seasonal Energy Performance Ratio - SEPR [1][2]	kW/kW	7,167	7,550	6,025	6,652	6,611	7,327
IPLV [5]	kW/kW	6,719	6,613	6,593	6,435	6,529	6,853
Full Free Cooling Temperature[12]	°C	10,66	9,84	10,94	9,71	8,8	8,97
Flow rate [1]	l/s	23,37	24,39	27,14	29,2	31,35	34,21
Evaporator Pressure Drop free cooling OFF [1][6]	kPa	41,07	44,01	52,5	59,23	37,67	33,86
Unit pressure drop free cooling ON[12][6]	kPa	85,78	92,1	100,47	112,16	95,85	90,25
Sound Power [1][7] **– Lw**	dB(a)	100	100	101	101	102	105
Sound Power [1][7] **– Lw with + OP76b**	dB(a)	96	96	97	98	98	98
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume – open loop Free Cooling	Lt	255	255	255	255	298	481
Minimum water flow rate [10]	l/s	8,6	8,6	10,7	10,7	14,3	15,3
Length	mm	8274	8274	9354	9354	9354	10434
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight [8]	kg	8167	8167	8377	8377	8506	9281
Operating weight [8]	kg	8617	8617	9023	9023	9252	10363
Water Connection Size	Ø mm	168,3	168,3	168,3	168,3	168,3	219,1

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFD TZ-D PS| Platinum Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**890**	**960**	**C10**	**H10**	**H11**	**C12**
Cooling Capacity (1)	kW	1192,22	1282,7	1325,5	1422,9	1506,9	1587,59
Power input (1)	kW	268,94	304,90	315,69	347,31	359,83	396,40
Cooling Efficiency – EER (1)	kW/kW	4,433	4,207	4,199	4,097	4,188	4,005
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	6,488	6,363	6,411	6,274	6,440	6,286
$\eta_{s,c}$ (3)	%	257	252	253	248	255	248
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	7,579	7,586	7,434	7,277	7,321	7,098
IPLV (5)	kW/kW	7,078	6,894	6,876	6,739	6,964	6,778
Full Free Cooling Temperature(12)	°C	8,21	7,2	8,04	6,91	7,73	6,69
Flow rate (1)	l/s	38,02	40,91	42,27	45,38	48,06	50,63
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	39,74	44,5	46,82	52,38	51,85	56,35
Unit pressure drop free cooling ON(12)(6)	kPa	105,08	116,92	112,07	124,44	120,14	129,78
Sound Power (1)(7) **– Lw**	dB(a)	99	100	101	102	103	105
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	97	97	97	97	98	98
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume – open loop Free Cooling	Lt	481	481	481	481	557	557
Minimum water flow rate (10)	l/s	15,3	15,3	15,3	15,3	18,2	18,2
Length	mm	10434	10434	11514	11514	12594	12594
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	9852	9852	10305	10305	10642	10642
Operating weight (8)	kg	10934	10934	11429	11429	12319	12319
Water Connection Size	Ø mm	219,1	219,1	219,1	219,1	219,1	219,1

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFD TZ-D PS| Platinum Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz					
Model		**H12**	**H13**	**H14**	**H15**
Cooling Capacity (1)	kW	1703,2	1822,7	1884,9	1998,0
Power input (1)	kW	437,50	465,81	439,79	483,21
Cooling Efficiency – EER (1)	kW/kW	3,893	3,913	4,286	4,135
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	6,189	6,180	5,850	5,671
$\eta_{s,c}$ (3)	%	245	244	231	224
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	6,919	6,725	7,731	7,210
IPLV (5)	kW/kW	6,639	6,674	6,585	6,367
Full Free Cooling Temperature(12)	°C	5,76	6,06	5,28	4,37
Flow rate (1)	l/s	54,31	58,12	60,11	63,72
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	37,83	41,88	44,05	48,14
Unit pressure drop free cooling ON(12)(6)	kPa	119,34	121,12	127,16	138,45
Sound Power (1)(7) **– Lw**	dB(a)	108	106	102	103
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	98	98	98	99
Number of circuits / Compressors	#	2	2	2	2
Water volume – open loop Free Cooling	Lt	1011	1011	1011	1011
Minimum water flow rate (10)	l/s	22,6	22,6	22,6	22,6
Length	mm	12594	13360	13360	13360
Width	mm	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553
Shipping weight (8)	kg	1 1441	9402	10070	10070
Operating weight (8)	kg	13118	11401	12085	12100
Water Connection Size	Ø mm	273	273	273	273

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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFS TZ-D BS| Blue Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**275**	**320**	**345**	**400**	**470**	**525**
Cooling Capacity [1]	kW	358,51	413,8	447,76	540,57	590	670,83
Power input [1]	kW	110,01	114,75	135,07	164,86	191,25	195,46
Cooling Efficiency – EER [1]	kW/kW	3,259	3,606	3,315	3,279	3,085	3,432
Seasonal Energy Efficiency Ratio - SEER [1][2]	kW/kW	4,648	5,032	4,966	5,234	4,921	5,225
$\eta_{s,c}$ [3]	%	183	198	196	206	194	206
Seasonal Energy Performance Ratio - SEPR [1][2]	kW/kW	5,464	5,846	5,645	5,60	5,463	5,685
IPLV [5]	kW/kW	5,084	5,463	5,375	5,565	5,295	5,599
Full Free Cooling Temperature[12]	°C	3,67	7,32	6,22	3,69	2,34	4,85
Flow rate [1]	l/s	11,43	13,2	14,28	17,24	18,81	21,39
Evaporator Pressure Drop free cooling OFF [1][6]	kPa	14,34	18,84	21,91	41,22	48,49	34,63
Unit pressure drop free cooling ON[12][6]	kPa	115,69	88,34	99,55	142,61	163,61	126,14
Sound Power [1][7] **– Lw**	dB(a)	97	98	100	97	97	98
Sound Power [1][7] **– Lw with + OP76b**	dB(a)	73	74	75	73	73	73
Number of circuits / Compressors	#	1	1	1	1	1	1
Water volume – open loop Free Cooling	Lt	40	40	40	42,7	42,7	58,1
Minimum water flow rate [10]	l/s	7,6	7,6	7,6	5,94	5,94	10,2
Length	mm	2560	3954	3954	3954	3954	5034
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight [8]	kg	2626	4272	4272	4489	4489	4929
Operating weight [8]	kg	2847	4380	4380	4562	4562	5059
Water Connection Size	Ø mm	88,9	88,9	88,9	139,7	139,7	139,7

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFS TZ-D BS| Blue Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**580**	**625**	**755**	**830**	**915**	**C10**
Cooling Capacity (1)	kW	744,14	788,53	955,93	1065,1	1161,9	1238,31
Power input (1)	kW	240,59	277,65	265,68	320,16	355,34	409,09
Cooling Efficiency – EER (1)	kW/kW	3,093	2,84	3,598	3,327	3,27	3,027
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,233	5,015	5,288	5,217	5,037	4,917
$\eta_{s,c}$ (3)	%	206	198	209	206	198	194
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,375	5,129	6,023	5,665	5,715	5,335
IPLV (5)	kW/kW	5,564	5,377	5,660	5,550	5,409	5,281
Full Free Cooling Temperature(12)	°C	3,08	2,4	5,35	3,56	2,02	2,66
Flow rate (1)	l/s	23,73	25,15	30,48	33,97	37,05	39,49
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	41,89	46,62	43,98	52,67	38,22	42,13
Unit pressure drop free cooling ON(12)(6)	kPa	148,12	162,17	128,61	151,48	150,94	165,93
Sound Power (1)(7) **– Lw**	dB(a)	98	101	99	100	99	100
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	73	74	74	74	74	74
Number of circuits / Compressors	#	1	1	2	2	2	2
Water volume – open loop Free Cooling	Lt	58,1	58,1	280	280	481	481
Minimum water flow rate (10)	l/s	10,2	10,2	12,9	12,9	15,3	15,3
Length	mm	5034	5034	6880	7194	7194	7194
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	4929	4929	5549	8062	8062	8357
Operating weight (8)	kg	5059	5059	6341	8597	8597	9062
Water Connection Size	Ø mm	139,7	139,7	168,3	168,3	219,1	219,1

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFS TZ-D BS| Blue Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**H10**	**H11**	**C12**	**C13**	**C14**	**C15**
Cooling Capacity [1]	kW	1371,32	1497,5	1577,1	1657,7	1814,2	1980,86
Power input [1]	kW	434,24	470,92	485,71	498,27	598,96	643,55
Cooling Efficiency – EER [1]	kW/kW	3,158	3,18	3,247	3,327	3,029	3,078
Seasonal Energy Efficiency Ratio - SEER [1][2]	kW/kW	5,034	5,163	4,951	5,254	5,165	5,168
$\eta_{s,c}$ [3]	%	198	204	195	207	204	204
Seasonal Energy Performance Ratio - SEPR [1][2]	kW/kW	5,526	5,541	5,264	5,324	5,177	5,162
IPLV [5]	kW/kW	5,468	5,513	5,558	5,543	5,454	5,411
Full Free Cooling Temperature[12]	°C	2,23	3,21	3,88	2,58	2,15	1,31
Flow rate [1]	l/s	43,73	47,75	50,29	52,86	57,86	63,17
Evaporator Pressure Drop free cooling OFF [1][6]	kPa	44,67	51,32	55,72	60,38	69,92	47,5
Unit pressure drop free cooling ON[12][6]	kPa	159,34	158,15	152,85	149,76	171,66	148,78
Sound Power [1][7] **– Lw**	dB(a)	101	101	102	104	105	106
Sound Power [1][7] **– Lw with + OP76b**	dB(a)	75	75	75	75	76	76
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume – open loop Free Cooling	Lt	557	557	557	557	557	1011
Minimum water flow rate [10]	l/s	18,2	18,2	18,2	18,2	18,2	22,6
Length	mm	8274	9264	10434	11514	11200	12280
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight [8]	kg	9015	9878	9888	10299	8277	9157
Operating weight [8]	kg	9815	10478	11070	11523	9697	11117
Water Connection Size	Ø mm	219,1	219,1	219,1	219,1	219,1	273

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
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(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFS TZ-D BS| Blue Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz					
Model		**H16**	**H17**	**H18**	**H19**
Cooling Capacity (1)	kW	2045,44	2103,4	2306,2	2317,1
Power input (1)	kW	639,20	677,43	792,25	840,15
Cooling Efficiency – EER (1)	kW/kW	3,2	3,105	2,911	2,758
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,095	5,177	5,178	5,098
$\eta_{s,c}$ (3)	%	201	204	204	201
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	6,388	6,132	5,860	5,790
IPLV (5)	kW/kW	5,860	5,754	5,648	5,583
Full Free Cooling Temperature(12)	°C	2,87	2,25	1,33	2,12
Flow rate (1)	l/s	65,23	67,08	73,54	73,89
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	49,91	52,12	60,15	60,59
Unit pressure drop free cooling ON(12)(6)	kPa	156,01	162,63	171,21	172,43
Sound Power (1)(7) **– Lw**	dB(a)	104	105	106	107
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	76	76	76	76
Number of circuits / Compressors	#	2	2	2	2
Water volume – open loop Free Cooling	Lt	1011	1011	1011	1011
Minimum water flow rate (10)	l/s	22,6	22,6	22,6	22,6
Length	mm	12594	12280	13674	13674
Width	mm	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553
Shipping weight (8)	kg	12929	9561	13500	13500
Operating weight (8)	kg	14364	11550	14935	14935
Water Connection Size	Ø mm	273	273	273	273

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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFS TZ-D SS| Silver Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**285**	**325**	**380**	**430**	**495**	**535**
Cooling Capacity (1)	kW	376,12	440,21	499,26	556,51	641,58	701,99
Power input (1)	kW	97,164	115,17	134,46	155,9	177,67	193,439
Cooling Efficiency – EER (1)	kW/kW	3,871	3,822	3,713	3,569	3,611	3,629
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,070	5,307	5,507	5,460	5,167	5,335
$\eta_{s,c}$ (3)	%	200	209	217	215	204	210
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	6,086	6,183	6,056	5,903	5,851	5,936
IPLV (5)	kW/kW	6,487	6,589	6,445	7,060	7,327	6,935
Full Free Cooling Temperature(12)	°C	8,62	10,46	8,81	7,22	5,45	7,38
Flow rate (1)	l/s	11,99	14,04	15,92	17,75	20,46	22,39
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	15,71	17,17	35,59	43,51	31,93	37,63
Unit pressure drop free cooling ON(12)(6)	kPa	76,58	68	95,46	113,1	117,79	108,27
Sound Power (1)(7) **– Lw**	dB(a)	98	98	100	98	97	98
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	73	74	75	73	73	74
Number of circuits / Compressors	#	1	1	1	1	1	1
Water volume – open loop Free Cooling	Lt	40	48	48	42,7	58,1	58,1
Minimum water flow rate (10)	l/s	7,6	8,5	5,94	5,94	10,2	10,2
Length	mm	3954	5034	5034	5034	5034	6114
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	4272	4692	4692	4863	4929	5928
Operating weight (8)	kg	4380	4830	4830	4978	5059	6094
Water Connection Size	Ø mm	88,9	88,9	88,9	139,7	139,7	139,7

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFS TZ-D SS| Silver Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**595**	**650**	**520**	**555**	**585**	**645**
Cooling Capacity (1)	kW	775,11	836,76	675,47	717,07	758,09	856,44
Power input (1)	kW	221,777	254,95	181,87	201,20	217,72	232,92
Cooling Efficiency – EER (1)	kW/kW	3,495	3,282	3,714	3,564	3,482	3,677
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,220	5,093	4,767	4,838	4,774	4,926
$\eta_{s,c}$ (3)	%	206	201	188	191	188	194
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,611	5,363	5,892	5,738	5,662	5,818
IPLV (5)	kW/kW	6,450	6,337	6,306	6,178	6,272	6,550
Full Free Cooling Temperature(12)	°C	6,13	4,66	7,82	7,04	6,2	7,38
Flow rate (1)	l/s	24,72	26,68	21,54	22,87	24,17	27,31
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	45,16	52,04	29,07	32,11	35,22	32,64
Unit pressure drop free cooling ON(12)(6)	kPa	126,35	142,54	96,39	105,31	114,4	105,4
Sound Power (1)(7) **– Lw**	dB(a)	98	101	99	99	101	101
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	74	74	75	75	75	76
Number of circuits / Compressors	#	1	1	2	2	2	2
Water volume – open loop Free Cooling	Lt	58,1	58,1	270	270	270	255
Minimum water flow rate (10)	l/s	10,2	10,2	8,6	8,6	8,6	10,7
Length	mm	6114	6114	6112	6112	6112	7194
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	5928	5928	6913	6913	6913	7179
Operating weight (8)	kg	6094	6094	7163	7163	7163	7746
Water Connection Size	Ø mm	139,7	139,7	168,3	168,3	168,3	168,3

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFS TZ-D SS| Silver Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**705**	**760**	**835**	**960**	**C10**	**H10**
Cooling Capacity [1]	kW	919,98	989,89	1079,1	1210,6	1310,4	1299,77
Power input [1]	kW	267,98	260,77	302,62	338,65	392,72	376,74
Cooling Efficiency – EER [1]	kW/kW	3,433	3,796	3,566	3,575	3,337	3,45
Seasonal Energy Efficiency Ratio - SEER [1][2]	kW/kW	4,820	5,427	5,30	5,171	5,102	5,043
$\eta_{s,c}$ [3]	%	190	214	209	204	201	199
Seasonal Energy Performance Ratio - SEPR [1][2]	kW/kW	5,647	6,127	5,851	5,818	5,332	5,586
IPLV [5]	kW/kW	6,785	6,548	6,624	6,415	6,507	6,418
Full Free Cooling Temperature[12]	°C	6,04	7,29	6,1	4	3,11	2,94
Flow rate [1]	l/s	29,34	31,57	34,41	38,61	41,79	41,45
Evaporator Pressure Drop free cooling OFF [1][6]	kPa	36,83	46,59	53,84	40,68	46,01	41,11
Unit pressure drop free cooling ON[12][6]	kPa	117,24	118,24	134,78	136,25	153,21	147,14
Sound Power [1][7] **– Lw**	dB(a)	103	99	100	100	100	101
Sound Power [1][7] **– Lw with + OP76b**	dB(a)	76	74	74	74	74	75
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume – open loop Free Cooling	Lt	255	280	280	481	481	557
Minimum water flow rate [10]	l/s	10,7	12,9	12,9	15,3	15,3	18,2
Length	mm	7194	8274	8274	8274	8274	8274
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight [8]	kg	7179	8644	8644	8959	8959	9015
Operating weight [8]	kg	7746	9194	9194	9659	9659	9815
Water Connection Size	Ø mm	168,3	168,3	168,3	219,1	219,1	219,1

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFS TZ-D SS| Silver Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**H11**	**H12**	**H13**	**H14**	**H15**	**H16**
Cooling Capacity (1)	kW	1531,28	1640,7	1763,7	1882,9	1994,3	2085,16
Power input (1)	kW	473,35	474,20	515,58	566,63	572,58	638,25
Cooling Efficiency – EER (1)	kW/kW	3,235	3,46	3,421	3,323	3,483	3,267
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,122	5,274	4,372	4,156	5,294	5,056
$\eta_{s,c}$ (3)	%	202	208	172	163	209	199
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,545	5,592	5,503	5,144	6,630	6,388
IPLV (5)	kW/kW	6,452	6,402	6,469	6,286	5,536	5,698
Full Free Cooling Temperature(12)	°C	3,22	5,16	5,49	4,41	3,8	3,13
Flow rate (1)	l/s	48,83	52,32	56,25	60,04	63,6	66,49
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	53,18	59,38	66,79	43,98	48	51,42
Unit pressure drop free cooling ON(12)(6)	kPa	163,66	147,55	151,96	138,07	150,25	160,51
Sound Power (1)(7) **– Lw**	dB(a)	101	102	104	105	103	104
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	75	75	76	76	75	76
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume – open loop Free Cooling	Lt	557	557	557	1011	1011	1011
Minimum water flow rate (10)	l/s	18,2	18,2	18,2	22,6	22,6	22,6
Length	mm	9264	11514	12594	12594	12594	9264
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	9878	10299	10917	12929	12929	9878
Operating weight (8)	kg	10478	11523	12183	14364	14364	10478
Water Connection Size	Ø mm	219,1	219,1	219,1	273	273	273

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFS TZ-D SS| Silver Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz				
Model		**H17**	**H18**	**H19**
Cooling Capacity (1)	kW	2285,16	2351,0	2362,1
Power input (1)	kW	718,83	792,39	832,03
Cooling Efficiency – EER (1)	kW/kW	3,179	2,967	2,839
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,217	4,602	5,064
$\eta_{s,c}$ (3)	%	206	181	200
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,894	5,994	5,790
IPLV (5)	kW/kW	5,723	5,836	5,606
Full Free Cooling Temperature(12)	°C	3,02	2,67	2,12
Flow rate (1)	l/s	72,87	74,97	75,33
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	59,3	61,99	62,45
Unit pressure drop free cooling ON(12)(6)	kPa	168,87	176,21	177,46
Sound Power (1)(7) **– Lw**	dB(a)	105	106	107
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	76	76	76
Number of circuits / Compressors	#	2	2	2
Water volume – open loop Free Cooling	Lt	1011	1011	1011
Minimum water flow rate (10)	l/s	22,6	22,6	22,6
Length	mm	13674	13674	13674
Width	mm	2238	2238	2238
Height	mm	2553	2553	2553
Shipping weight (8)	kg	13500	13500	13500
Operating weight (8)	kg	14935	14935	14935
Water Connection Size	Ø mm	273	273	273

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFS TZ-D XS| Gold Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**295**	**345**	**380**	**440**	**515**	**565**
Cooling Capacity [1]	kW	393,29	459,73	504,37	590,99	651,3	724,71
Power input [1]	kW	104,29	120,07	137,73	145,24	172,03	184,22
Cooling Efficiency – EER [1]	kW/kW	3,771	3,829	3,662	4,069	3,786	3,934
Seasonal Energy Efficiency Ratio - SEER [1][2]	kW/kW	5,287	5,458	5,423	5,849	5,656	5,799
$\eta_{s,c}$ [3]	%	208	215	214	231	223	229
Seasonal Energy Performance Ratio - SEPR [1][2]	kW/kW	6,635	6,766	6,620	7,475	6,991	6,998
IPLV [5]	kW/kW	5,759	5,595	5,394	5,248	5,188	5,131
Full Free Cooling Temperature[12]	°C	7,14	8,71	7,68	8,8	6,63	7,75
Flow rate [1]	l/s	12,54	14,66	16,08	18,85	20,77	23,11
Evaporator Pressure Drop free cooling OFF [1][6]	kPa	17,1	18,66	22,3	27,51	32,81	24,19
Unit pressure drop free cooling ON[12][6]	kPa	81,86	72,57	83,51	83,09	96,43	81,59
Sound Power [1][7] **– Lw**	dB(a)	97	98	103	96	97	100
Sound Power [1][7] **– Lw with + OP76b**	dB(a)	72	73	73	71	71	71
Number of circuits / Compressors	#	1	1	1	1	1	1
Water volume – open loop Free Cooling	Lt	40	48	48	58,1	58,1	76,3
Minimum water flow rate [10]	l/s	7,6	8,5	8,5	10,2	10,2	13,4
Length	mm	3954	5034	5034	6114	6114	7194
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight [8]	kg	3182	4886	4886	5981	5981	6343
Operating weight [8]	kg	4428	5024	5024	6147	6147	6662
Water Connection Size	Ø mm	88,9	88,9	88,9	139,7	139,7	139,7

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFS TZ-D XS| Gold Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**635**	**705**	**760**	**525**	**565**	**610**
Cooling Capacity [1]	kW	829,06	896,32	949,1	708,07	756,63	806,01
Power input [1]	kW	225,96	238,19	258,19	172,36	193,56	201,55
Cooling Efficiency – EER [1]	kW/kW	3,669	3,763	3,676	4,108	3,909	3,999
Seasonal Energy Efficiency Ratio - SEER [1][2]	kW/kW	5,696	5,285	5,158	5,598	5,491	5,570
$\eta_{s,c}$ [3]	%	225	208	203	221	217	220
Seasonal Energy Performance Ratio - SEPR [1][2]	kW/kW	6,597	7,257	6,805	6,937	6,750	6,900
IPLV [5]	kW/kW	5,296	5,220	5,811	5,660	5,565	5,488
Full Free Cooling Temperature[12]	°C	6,43	5,1	4,18	8,64	7,72	8,79
Flow rate [1]	l/s	26,44	28,58	30,27	22,58	24,13	25,7
Evaporator Pressure Drop free cooling OFF [1][6]	kPa	30,86	35,58	39,52	38,86	43,25	48,02
Unit pressure drop free cooling ON[12][6]	kPa	100,23	113,04	123,54	93,1	102,85	101,8
Sound Power [1][7] **– Lw**	dB(a)	105	99	100	100	100	101
Sound Power [1][7] **– Lw with + OP76b**	dB(a)	72	72	72	72	73	73
Number of circuits / Compressors	#	1	1	1	2	2	2
Water volume – open loop Free Cooling	Lt	76,3	76,3	76,3	255	255	255
Minimum water flow rate [10]	l/s	13,4	13,4	13,4	8,6	8,6	10,7
Length	mm	7194	6880	6880	7194	7194	8274
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight [8]	kg	6343	5984	5984	7457	7457	8167
Operating weight [8]	kg	6662	6586	6596	7892	7892	8617
Water Connection Size	Ø mm	139,7	139,7	139,7	168,3	168,3	168,3

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFS TZ-D XS| Gold Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**670**	**725**	**805**	**880**	**950**	**C10**
Cooling Capacity (1)	kW	886,41	951,92	1061,0	1146,0	1229,7	1291,55
Power input (1)	kW	232,90	257,00	279,30	309,08	329,34	344,87
Cooling Efficiency – EER (1)	kW/kW	3,806	3,704	3,799	3,708	3,734	3,745
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,470	5,520	5,693	5,530	5,674	5,183
$\eta_{s,c}$ (3)	%	216	218	225	218	224	204
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	6,625	6,573	6,684	7,241	6,895	7,003
IPLV (5)	kW/kW	5,498	5,500	5,594	5,570	5,485	5,977
Full Free Cooling Temperature(12)	°C	7,87	6,93	5,54	6,26	5,07	6,16
Flow rate (1)	l/s	28,27	30,36	33,84	36,55	39,22	41,19
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	56,14	35,69	33,3	37,41	41,69	44,97
Unit pressure drop free cooling ON(12)(6)	kPa	117,33	103,28	98,81	110,34	122,21	118,1
Sound Power (1)(7) **– Lw**	dB(a)	101	102	105	98	100	101
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	74	74	75	72	72	72
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume – open loop Free Cooling	Lt	255	298	481	481	481	481
Minimum water flow rate (10)	l/s	10,7	14,3	15,3	15,3	15,3	15,3
Length	mm	8274	8274	9354	9354	9354	10434
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	8167	8180	8819	9412	9412	9852
Operating weight (8)	kg	8617	8730	9715	10308	10308	10934
Water Connection Size	Ø mm	168,3	168,3	219,1	219,1	219,1	219,1

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFS TZ-D XS| Gold Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**H10**	**H11**	**C12**	**H12**	**H13**	**H14**
Cooling Capacity [1]	kW	1365,98	1462,1	1561,7	1640,3	1761	1839,25
Power input [1]	kW	376,51	391,38	445,32	470,67	506,91	479,10
Cooling Efficiency – EER [1]	kW/kW	3,628	3,736	3,507	3,485	3,474	3,839
Seasonal Energy Efficiency Ratio - SEER [1][2]	kW/kW	4,899	5,793	5,680	5,627	5,687	5,603
$\eta_{s,c}$ [3]	%	193	229	224	222	224	221
Seasonal Energy Performance Ratio - SEPR [1][2]	kW/kW	6,714	6,818	6,565	6,273	6,423	7,323
IPLV [5]	kW/kW	5,840	5,764	5,622	5,541	5,840	6,097
Full Free Cooling Temperature[12]	°C	5,12	5,94	4,96	4,27	4,67	4,8
Flow rate [1]	l/s	43,56	46,63	49,8	52,31	56,16	58,65
Evaporator Pressure Drop free cooling OFF [1][6]	kPa	49,1	49,44	54,85	35,76	39,75	42,45
Unit pressure drop free cooling ON[12][6]	kPa	128,26	124,25	137,03	124,42	125,24	122,71
Sound Power [1][7] **– Lw**	dB(a)	102	103	105	108	106	102
Sound Power [1][7] **– Lw with + OP76b**	dB(a)	72	72	72	73	73	73
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume – open loop Free Cooling	Lt	481	557	557	557	1011	1011
Minimum water flow rate [10]	l/s	15,3	18,2	18,2	18,2	22,6	22,6
Length	mm	10120	11200	11514	10434	11514	11514
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight [8]	kg	7390	8011	10435	9852	10435	10822
Operating weight [8]	kg	8619	9391	11659	10934	11659	12457
Water Connection Size	Ø mm	219,1	219,1	219,1	219,1	273	273

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
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(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFS TZ-D XS| Gold Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz				
Model		**H15**	**H16**	**H17**
Cooling Capacity (1)	kW	1980,84	2163,5	2246,7
Power input (1)	kW	545,09	660,84	742,48
Cooling Efficiency – EER (1)	kW/kW	3,634	3,274	3,026
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,478	5,355	5,225
$\eta_{s,c}$ (3)	%	216	211	206
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	6,816	6,147	6,234
IPLV (5)	kW/kW	5,958	6,475	6,196
Full Free Cooling Temperature(12)	°C	3,99	2,82	2,4
Flow rate (1)	l/s	63,17	69	71,65
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	47,51	54,45	57,75
Unit pressure drop free cooling ON(12)(6)	kPa	136,71	155,68	164,64
Sound Power (1)(7) **– Lw**	dB(a)	103	104	105
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	73	73	74
Number of circuits / Compressors	#	2	2	2
Water volume – open loop Free Cooling	Lt	1011	1011	1011
Minimum water flow rate (10)	l/s	22,6	22,6	22,6
Length	mm	13674	13360	13360
Width	mm	2238	2238	2238
Height	mm	2553	2553	2553
Shipping weight (8)	kg	13500	10070	10070
Operating weight (8)	kg	14935	12110	12125
Water Connection Size	Ø mm	273	273	273

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFS TZ-D PS| Platinum Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**285**	**330**	**370**	**405**	**450**	**490**
Cooling Capacity [1]	kW	372,86	443,45	494,42	534,34	587,65	650,62
Power input [1]	kW	82,91	101,97	121,24	113,71	127,97	149,84
Cooling Efficiency – EER [1]	kW/kW	4,497	4,349	4,078	4,699	4,592	4,342
Seasonal Energy Efficiency Ratio - SEER [1][2]	kW/kW	5,743	5,964	5,882	6,268	6,216	6,048
$\eta_{s,c}$ [3]	%	227	236	232	248	246	239
Seasonal Energy Performance Ratio - SEPR [1][2]	kW/kW	7,375	7,291	6,819	4,687	7,969	7,675
IPLV [5]	kW/kW	6,447	6,205	5,786	5,655	6,054	5,949
Full Free Cooling Temperature[12]	°C	10,82	11,41	10,65	11,18	10,07	9,32
Flow rate [1]	l/s	11,89	14,14	15,77	17,04	18,74	20,75
Evaporator Pressure Drop free cooling OFF [1][6]	kPa	12,5	17,42	21,47	22,93	16,63	19,94
Unit pressure drop free cooling ON[12][6]	kPa	53,13	54,93	64,95	60,75	59,45	69,3
Sound Power [1][7] **– Lw**	dB(a)	97	98	100	95	96	98
Sound Power [1][7] **– Lw with + OP76b**	dB(a)	71	73	73	71	71	71
Number of circuits / Compressors	#	1	1	1	1	1	1
Water volume – open loop Free Cooling	Lt	48	48	48	58,1	76,3	76,3
Minimum water flow rate [10]	l/s	8,5	8,5	8,5	10,2	13,4	13,4
Length	mm	5034	4688	6114	6114	7194	7194
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight [8]	kg	4886	4255	5449	5449	6343	6343
Operating weight [8]	kg	5024	4303	5610	5610	6662	6662
Water Connection Size	Ø mm	88,9	88,9	88,9	139,7	139,7	139,7

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFS TZ-D PS| Platinum Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**530**	**575**	**615**	**675**	**735**	**810**
Cooling Capacity [1]	kW	725,19	748,24	827,15	887,4	968,07	1030,46
Power input [1]	kW	166,37	174,13	192,67	217,82	243,78	243,95
Cooling Efficiency – EER [1]	kW/kW	4,359	4,297	4,293	4,074	3,971	4,224
Seasonal Energy Efficiency Ratio - SEER [1][2]	kW/kW	5,945	5,862	5,852	5,730	5,785	6,009
$\eta_{s,c}$ [3]	%	235	231	231	226	228	237
Seasonal Energy Performance Ratio - SEPR [1][2]	kW/kW	7,358	7,217	5,744	6,974	6,890	7,074
IPLV [5]	kW/kW	6,001	5,870	5,962	6,219	6,346	6,142
Full Free Cooling Temperature[12]	°C	10,21	9,21	9,86	9,23	8,3	8,44
Flow rate [1]	l/s	23,13	23,86	26,38	28,3	30,87	32,86
Evaporator Pressure Drop free cooling OFF [1][6]	kPa	40,38	42,46	50,09	56,24	36,7	31,86
Unit pressure drop free cooling ON[12][6]	kPa	84,34	88,83	96,24	106,97	93,65	85,19
Sound Power [1][7] **– Lw**	dB(a)	100	100	101	101	102	105
Sound Power [1][7] **– Lw with + OP76b**	dB(a)	72	73	73	74	74	74
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume – open loop Free Cooling	Lt	255	255	255	255	298	481
Minimum water flow rate [10]	l/s	8,6	8,6	10,7	10,7	14,3	15,3
Length	mm	8274	8274	9354	9354	9354	10434
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight [8]	kg	8167	8167	8377	8377	8506	9281
Operating weight [8]	kg	8617	8617	9023	9023	9252	10363
Water Connection Size	Ø mm	168,3	168,3	168,3	168,3	168,3	219,1

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
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(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFS TZ-D PS| Platinum Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz							
Model		**890**	**960**	**C10**	**H10**	**H11**	**C12**
Cooling Capacity [1]	kW	1171,5	1262,8	1320,0	1407,6	1487,0	1554,85
Power input [1]	kW	291,93	324,89	338,72	369,56	381,29	417,97
Cooling Efficiency – EER [1]	kW/kW	4,013	3,887	3,897	3,809	3,9	3,72
Seasonal Energy Efficiency Ratio - SEER [1][2]	kW/kW	6,196	5,371	6,078	5,687	6,041	6,011
$\eta_{s,c}$ [3]	%	245	212	240	224	239	237
Seasonal Energy Performance Ratio - SEPR [1][2]	kW/kW	7,660	7,292	7,237	7,025	6,994	6,884
IPLV [5]	kW/kW	6,314	6,136	6,287	6,156	6,119	6,152
Full Free Cooling Temperature[12]	°C	7,42	6,58	7,29	6,51	7,13	6,35
Flow rate [1]	l/s	37,36	40,27	42,09	44,89	47,42	49,58
Evaporator Pressure Drop free cooling OFF [1][6]	kPa	38,69	43,43	46,54	51,49	50,76	54,48
Unit pressure drop free cooling ON[12][6]	kPa	102,44	114,28	111,36	122,46	117,79	125,85
Sound Power [1][7] **– Lw**	dB(a)	99	100	101	102	103	105
Sound Power [1][7] **– Lw with + OP76b**	dB(a)	72	72	72	72	72	73
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume – open loop Free Cooling	Lt	481	481	481	481	557	557
Minimum water flow rate [10]	l/s	15,3	15,3	15,3	15,3	18,2	18,2
Length	mm	10434	10434	11514	11514	12594	12594
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight [8]	kg	9852	9852	10305	10305	10642	10642
Operating weight [8]	kg	10934	10934	11429	11429	12319	12319
Water Connection Size	Ø mm	219,1	219,1	219,1	219,1	219,1	219,1

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(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

EWFS TZ-D PS| Platinum Efficiency, Standard Sound, | 400 V / 3ph / 50 Hz					
Model		**H12**	**H13**	**H14**	**H15**
Cooling Capacity (1)	kW	1661,22	1777,3	1829,7	2002,8
Power input (1)	kW	458,52	483,62	461,49	543,65
Cooling Efficiency – EER (1)	kW/kW	3,623	3,675	3,965	3,684
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,921	5,886	5,120	5,622
$\eta_{s,c}$ (3)	%	234	232	202	222
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	6,737	6,633	7,524	7,000
IPLV (5)	kW/kW	6,299	6,124	5,955	5,832
Full Free Cooling Temperature(12)	°C	5,31	5,45	4,7	3,88
Flow rate (1)	l/s	52,98	56,68	58,35	63,87
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	36,45	40,31	42,12	48,32
Unit pressure drop free cooling ON(12)(6)	kPa	115,14	116,79	121,8	138,93
Sound Power (1)(7) **– Lw**	dB(a)	108	106	102	103
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	73	73	73	73
Number of circuits / Compressors	#	2	2	2	2
Water volume – open loop Free Cooling	Lt	1011	1011	1011	1011
Minimum water flow rate (10)	l/s	22,6	22,6	22,6	22,6
Length	mm	12594	13360	13360	13360
Width	mm	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553
Shipping weight (8)	kg	11441	9402	10070	10070
Operating weight (8)	kg	13118	11401	12085	12100
Water Connection Size	Ø mm	273	273	273	273

i)The above data are referred to the unit without additional optional.
ii) The above data are referred the unit installed in compliancy with installation prescription.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Value refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.
(12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

7. Electrical data

EWFD TZ-D BS| Blue Efficiency, Standard Sound								
Models	Running Current	Max Running Current			Current for Wiring Sizing			Max Inrush Current
	A(1)	A(1)	A(2)	A(3)	A(1)	A(2)	A(3)	A
EWFD275TZBSD1	178	220	231	196	220	254	216	0
EWFD320TZBSD1	192	262	274	234	287	301	257	0
EWFD345TZBSD1	220	284	284	262	287	312	288	0
EWFD400TZBSD1	270	346	363	307	381	399	338	0
EWFD470TZBSD1	312	362	379	321	398	417	353	0
EWFD525TZBSD1	328	400	419	356	440	461	391	0
EWFD580TZBSD1	386	457	464	405	468	511	445	0
EWFD625TZBSD1	446	464	537	453	468	590	498	0
EWFD510TZBSD2	327	411	430	365	452	473	401	0
EWFD545TZBSD2	360	440	461	390	484	507	429	0
EWFD570TZBSD2	398	471	493	417	516	542	458	0
EWFD630TZBSD2	395	512	536	454	561	590	500	0
EWFD670TZBSD2	464	556	556	496	561	611	546	0
EWFD755TZBSD2	460	600	628	532	660	691	585	0
EWFD830TZBSD2	524	668	700	591	735	770	651	0
EWFD915TZBSD2	582	668	700	591	735	770	650	0
EWFDC10TZBSD2	745	751	787	663	826	866	729	0
EWFDH10TZBSD2	712	817	857	722	896	942	795	0
EWFDH11TZBSD2	749	884	912	782	935	1003	860	0
EWFDC12TZBSD2	792	930	996	841	947	1096	925	0
EWFDC13TZBSD2	867	948	1093	923	958	1202	1015	0
EWFDC14TZBSD2	954	1120	1174	990	1232	1291	1089	0
EWFDC15TZBSD2	1027	1200	1239	1061	1275	1363	1167	0
EWFDH16TZBSD2	1051	1227	1268	1084	1280	1395	1193	0
EWFDH17TZBSD2	1162	1340	1405	1182	1474	1545	1301	0
EWFDH18TZBSD2	1287	1475	1546	1301	1621	1701	1431	0
EWFDH19TZBSD2	1477	1608	1608	1422	1621	1769	1564	0

The above data are referred to the unit without additional optional.

All the data are intended as guideline and are subject to change without notice. For updated information on project base refer to dedicated wiring diagram

(1) Power Supply 400V/50Hz

(2) Power Supply 380V/60Hz

(3) Power Supply 460V/60Hz

EWFD TZ-D BS| Blue Efficiency, Standard Sound												
Models	Fans FLA			Auxiliary circuit			Entry cross section cable			SCC Icw 1 Sec.		
	A(1)	A(2)	A(3)	A(1)	A(2)	A(3)	q.ty x mm2(1)	q.ty x mm2(2)	q.ty x mm2(3)	kA eff(1)	kA eff(2)	kA eff(3)
EWFD275TZBSD1	19	21	21	2	3	4	240	240	240	15	15	15
EWFD320TZBSD1	28	31	31	2	3	4	240	240	240	15	15	15
EWFD345TZBSD1	28	31	31	2	3	4	240	240	240	15	15	15
EWFD400TZBSD1	28	31	31	2	3	4	2x185	2x185	2x185	20	20	20
EWFD470TZBSD1	28	31	31	2	3	4	2x185	2x185	2x185	20	20	20
EWFD525TZBSD1	37	42	42	2	3	4	2x185	2x185	2x185	20	20	20
EWFD580TZBSD1	37	42	42	2	3	4	2x185	2x185	2x185	20	20	20
EWFD625TZBSD1	37	42	42	2	3	4	2x185	2x240	2x185	20	20	20
EWFD510TZBSD2	37	42	42	4	4	5	2x240	2x240	2x240	20	20	20
EWFD545TZBSD2	37	42	42	4	4	5	2x240	2x240	2x240	20	20	20
EWFD570TZBSD2	37	42	42	4	4	5	2x240	2x240	2x240	20	20	20
EWFD630TZBSD2	47	52	52	4	4	5	2x240	2x240	2x240	20	20	20
EWFD670TZBSD2	47	52	52	4	4	5	2x240	2x240	2x240	20	20	20
EWFD755TZBSD2	56	62	62	4	4	5	2x400	2x400	2x400	25	25	25
EWFD830TZBSD2	56	62	62	4	4	5	2x400	2x400	2x400	25	25	25
EWFD915TZBSD2	56	62	62	4	4	5	2x400	2x400	2x400	25	25	25
EWFDC10TZBSD2	56	62	62	4	4	5	2x400	2x400	2x400	25	25	25
EWFDH10TZBSD2	65	73	73	4	4	5	2x400	2x400	2x400	25	25	25
EWFDH11TZBSD2	75	83	83	4	4	5	2x400	2x400	2x400	25	25	25
EWFDC12TZBSD2	84	94	94	4	4	5	2x400	2x500	2x400	25	25	25
EWFDC13TZBSD2	93	104	104	4	4	5	2x400	2x500	2x400	25	25	25
EWFDC14TZBSD2	93	104	104	4	4	5	2x500	2x500	2x500	25	25	25
EWFDC15TZBSD2	103	114	114	4	4	5	2x500	2x500	2x500	25	25	25
EWFDH16TZBSD2	103	114	114	4	4	5	2x500	2x500	3x500	25	25	25
EWFDH17TZBSD2	103	114	114	4	4	5	3x500	3x500	3x500	25	25	25
EWFDH18TZBSD2	112	125	125	4	4	5	3x500	3x500	3x500	25	25	25
EWFDH19TZBSD2	112	125	125	4	4	5	3x500	3x500	3x500	25	25	25

The above data are referred to the unit without additional optional.

All the data are intended as guideline and are subject to change without notice. For updated information on project base refer to dedicated wiring diagram

(1) Power Supply 400V/50Hz

(2) Power Supply 380V/60Hz

(3) Power Supply 460V/60Hz

EWFD TZ-D SS| Silver Efficiency, Standard Sound								
Models	Running Current	Max Running Current			Current for Wiring Sizing			Max Inrush Current
	A(1)	A(1)	A(2)	A(3)	A(1)	A(2)	A(3)	A
EWFD285TZSSD1	161	231	241	207	254	265	228	0
EWFD325TZSSD1	187	272	284	244	298	313	269	0
EWFD380TZSSD1	215	294	294	272	298	324	300	0
EWFD430TZSSD1	253	357	373	318	392	411	349	0
EWFD495TZSSD1	297	372	390	331	410	429	365	0
EWFD535TZSSD1	316	411	430	366	452	473	403	0
EWFD595TZSSD1	365	467	475	415	480	522	457	0
EWFD650TZSSD1	423	474	547	463	480	602	509	0
EWFD520TZSSD2	311	421	440	375	463	484	412	0
EWFD555TZSSD2	338	450	471	401	495	518	441	0
EWFD585TZSSD2	370	481	504	427	528	554	470	0
EWFD645TZSSD2	388	523	547	465	572	601	511	0
EWFD705TZSSD2	459	566	566	521	572	623	573	0
EWFD760TZSSD2	434	610	638	542	671	702	596	0
EWFD835TZSSD2	505	679	711	602	747	782	662	0
EWFD960TZSSD2	586	706	739	625	776	813	688	0
EWFDC10TZSSD2	647	761	797	673	837	877	741	0
EWFDH10TZSSD2	680	789	827	698	868	909	768	0
EWFDH11TZSSD2	745	884	912	782	935	1003	860	0
EWFDH12TZSSD2	795	948	1035	876	958	1139	963	0
EWFDH13TZSSD2	875	948	1130	946	970	1244	1041	0
EWFDH14TZSSD2	975	1156	1210	1022	1271	1331	1124	0
EWFDH15TZSSD2	901	1124	1177	995	1237	1295	1094	0
EWFDH16TZSSD2	1051	1227	1268	1084	1280	1395	1193	0
EWFDH17TZSSD2	1145	1351	1415	1193	1486	1557	1312	0
EWFDH18TZSSD2	1287	1475	1546	1301	1621	1701	1431	0
EWFDH19TZSSD2	1477	1608	1608	1422	1621	1769	1564	0

The above data are referred to the unit without additional optional.

All the data are intended as guideline and are subject to change without notice. For updated information on project base refer to dedicated wiring diagram

(1) Power Supply 400V/50Hz

(2) Power Supply 380V/60Hz

(3) Power Supply 460V/60Hz

EWFD TZ-D SS| Silver Efficiency, Standard Sound												
Models	Fans FLA			Auxiliary circuit			Entry cross section cable			SCC Icw 1 Sec.		
	A(1)	A(2)	A(3)	A(1)	A(2)	A(3)	q.ty x mm2(1)	q.ty x mm2(2)	q.ty x mm2(3)	kA eff(1)	kA eff(2)	kA eff(3)
EWFD285TZSSD1	19	31	31	2	3	4	240	240	240	15	15	15
EWFD325TZSSD1	28	42	42	2	3	4	240	240	240	15	15	15
EWFD380TZSSD1	28	42	42	2	3	4	240	240	240	15	15	15
EWFD430TZSSD1	28	42	42	2	3	4	2x185	2x185	2x185	20	20	20
EWFD495TZSSD1	28	42	42	2	3	4	2x185	2x185	2x185	20	20	20
EWFD535TZSSD1	37	52	52	2	3	4	2x185	2x185	2x185	20	20	20
EWFD595TZSSD1	37	52	52	2	3	4	2x185	2x185	2x185	20	20	20
EWFD650TZSSD1	37	52	52	2	3	4	2x185	2x240	2x185	20	20	20
EWFD520TZSSD2	37	52	52	4	4	5	2x240	2x240	2x240	20	20	20
EWFD555TZSSD2	37	52	52	4	4	5	2x240	2x240	2x240	20	20	20
EWFD585TZSSD2	37	52	52	4	4	5	2x240	2x240	2x240	20	20	20
EWFD645TZSSD2	47	62	62	4	4	5	2x240	2x240	2x240	20	20	20
EWFD705TZSSD2	47	62	62	4	4	5	2x240	2x240	2x240	20	20	20
EWFD760TZSSD2	56	73	73	4	4	5	2x400	2x400	2x400	25	25	25
EWFD835TZSSD2	56	73	73	4	4	5	2x400	2x400	2x400	25	25	25
EWFD960TZSSD2	56	73	73	4	4	5	2x400	2x400	2x400	25	25	25
EWFDC10TZSSD2	56	73	73	4	4	5	2x400	2x400	2x400	25	25	25
EWFDH10TZSSD2	65	73	73	4	4	5	2x400	2x400	2x400	25	25	25
EWFDH11TZSSD2	75	83	83	4	4	5	2x400	2x400	2x400	25	25	25
EWFDH12TZSSD2	84	104	104	4	4	5	2x400	2x500	2x400	25	25	25
EWFDH13TZSSD2	93	114	114	4	4	5	2x400	2x500	2x400	25	25	25
EWFDH14TZSSD2	93	114	114	4	4	5	2x500	2x500	2x500	25	25	25
EWFDH15TZSSD2	103	114	114	4	4	5	2x500	2x500	3x500	25	25	25
EWFDH16TZSSD2	103	114	114	4	4	5	2x500	2x500	3x500	25	25	25
EWFDH17TZSSD2	103	125	125	4	4	5	3x500	3x500	3x500	25	25	25
EWFDH18TZSSD2	112	125	125	4	4	5	3x500	3x500	3x500	25	25	25
EWFDH19TZSSD2	112	125	125	4	4	5	3x500	3x500	3x500	25	25	25

The above data are referred to the unit without additional optional.

All the data are intended as guideline and are subject to change without notice. For updated information on project base refer to dedicated wiring diagram

(1) Power Supply 400V/50Hz

(2) Power Supply 380V/60Hz

(3) Power Supply 460V/60Hz

EWFD TZ-D XS| Gold Efficiency, Standard Sound								
Models	Running Current	Max Running Current			Current for Wiring Sizing			Max Inrush Current
	A(1)	A(1)	A(2)	A(3)	A(1)	A(2)	A(3)	A
EWFD295TZXSD1	174	224	234	201	246	258	221	0
EWFD345TZXSD1	192	261	273	235	288	300	258	0
EWFD380TZXSD1	224	289	294	259	298	324	285	0
EWFD440TZXSD1	235	314	327	282	345	360	310	0
EWFD515TZXSD1	294	342	357	306	376	393	337	0
EWFD565TZXSD1	304	404	422	362	444	464	398	0
EWFD635TZXSD1	370	452	473	403	491	520	444	0
EWFD705TZXSD1	377	520	544	462	572	598	509	0
EWFD760TZXSD1	448	568	595	504	625	654	555	0
EWFD525TZXSD2	286	389	406	349	428	447	383	0
EWFD565TZXSD2	315	429	437	374	472	481	412	0
EWFD610TZXSD2	332	457	478	409	503	525	450	0
EWFD670TZXSD2	372	498	520	445	548	572	489	0
EWFD725TZXSD2	412	535	549	468	585	604	515	0
EWFD805TZXSD2	452	573	580	503	607	638	553	0
EWFD880TZXSD2	503	626	633	539	689	696	593	0
EWFD950TZXSD2	574	683	693	589	751	762	648	0
EWFDC10TZXSD2	572	720	731	622	792	804	684	0
EWFDH10TZXSD2	632	782	785	667	860	864	734	0
EWFDH11TZXSD2	660	744	822	699	819	904	769	0
EWFDC12TZXSD2	729	803	873	741	883	960	815	0
EWFDH12TZXSD2	799	851	923	783	924	1015	861	0
EWFDH13TZXSD2	837	899	958	835	924	1054	919	0
EWFDH14TZXSD2	780	997	1087	922	1097	1195	1014	0
EWFDH15TZXSD2	909	1103	1188	1005	1214	1306	1106	0
EWFDH16TZXSD2	1031	1217	1278	1095	1268	1406	1204	0
EWFDH17TZXSD2	1188	1330	1415	1193	1463	1557	1312	0

The above data are referred to the unit without additional optional.

All the data are intended as guideline and are subject to change without notice. For updated information on project base refer to dedicated wiring diagram

(1) Power Supply 400V/50Hz

(2) Power Supply 380V/60Hz

(3) Power Supply 460V/60Hz

EWFD TZ-D XS| Gold Efficiency, Standard Sound												
Models	Fans FLA			Auxiliary circuit			Entry cross section cable			SCC Icw 1 Sec.		
	A(1)	A(2)	A(3)	A(1)	A(2)	A(3)	q.ty x mm2(1)	q.ty x mm2(2)	q.ty x mm2(3)	kA eff(1)	kA eff(2)	kA eff(3)
EWFD295TZXSD1	31	31	31	2	3	4	240	240	240	15	15	15
EWFD345TZXSD1	42	42	42	2	3	4	240	240	240	15	15	15
EWFD380TZXSD1	42	42	42	2	3	4	240	240	240	15	15	15
EWFD440TZXSD1	52	52	52	2	3	4	2x185	2x185	2x185	20	20	20
EWFD515TZXSD1	52	52	52	2	3	4	2x185	2x185	2x185	20	20	20
EWFD565TZXSD1	62	62	62	2	3	4	2x185	2x185	2x185	20	20	20
EWFD635TZXSD1	62	62	62	2	3	4	2x185	2x185	2x185	20	20	20
EWFD705TZXSD1	62	62	62	2	3	4	2x240	2x240	2x300	20	20	25
EWFD760TZXSD1	62	62	62	2	3	4	2x240	2x240	2x300	20	20	25
EWFD525TZXSD2	62	62	62	4	4	5	2x240	2x240	2x240	20	20	20
EWFD565TZXSD2	62	62	62	4	4	5	2x240	2x240	2x240	20	20	20
EWFD610TZXSD2	73	73	73	4	4	5	2x240	2x240	2x240	20	20	20
EWFD670TZXSD2	73	73	73	4	4	5	2x240	2x240	2x240	20	20	20
EWFD725TZXSD2	73	73	73	4	4	5	2x240	2x240	2x240	20	20	20
EWFD805TZXSD2	83	83	83	4	4	5	2x240	2x240	2x240	20	20	20
EWFD880TZXSD2	83	83	83	4	4	5	2x400	2x400	2x400	25	25	25
EWFD950TZXSD2	83	83	83	4	4	5	2x400	2x400	2x400	25	25	25
EWFDC10TZXSD2	94	94	94	4	4	5	2x400	2x400	2x400	25	25	25
EWFDH10TZXSD2	94	94	94	4	4	5	2x400	2x400	2x400	25	25	25
EWFDH11TZXSD2	104	104	104	4	4	5	2x400	2x400	2x400	25	25	25
EWFDC12TZXSD2	104	104	104	4	4	5	2x400	2x400	2x400	25	25	25
EWFDH12TZXSD2	104	104	104	4	4	5	2x400	2x400	2x400	25	25	25
EWFDH13TZXSD2	114	114	114	4	4	5	2x400	2x400	2x400	25	25	25
EWFDH14TZXSD2	125	125	125	4	4	5	2x500	2x500	3x500	25	25	25
EWFDH15TZXSD2	125	125	125	4	4	5	2x500	2x500	3x500	25	25	25
EWFDH16TZXSD2	125	125	125	4	4	5	2x500	2x500	3x500	25	25	25
EWFDH17TZXSD2	125	125	125	4	4	5	3x500	3x500	3x500	25	25	25

The above data are referred to the unit without additional optional.

All the data are intended as guideline and are subject to change without notice. For updated information on project base refer to dedicated wiring diagram

(1) Power Supply 400V/50Hz

(2) Power Supply 380V/60Hz

(3) Power Supply 460V/60Hz

EWFD TZ-D PS| Platinum Efficiency, Standard Sound								
Models	Running Current	Max Running Current			Current for Wiring Sizing			Max Inrush Current
	A(1)	A(1)	A(2)	A(3)	A(1)	A(2)	A(3)	A
EWFD285TZPSD1	145	220	230	199	242	253	219	0
EWFD330TZPSD1	169	258	269	234	284	296	257	0
EWFD370TZPSD1	197	285	298	257	310	328	283	0
EWFD405TZPSD1	201	293	305	265	322	336	292	0
EWFD450TZPSD1	226	352	368	317	388	404	348	0
EWFD490TZPSD1	226	404	422	362	444	464	398	0
EWFD530TZPSD2	277	399	417	359	439	458	395	0
EWFD575TZPSD2	307	429	448	385	472	493	423	0
EWFD615TZPSD2	308	468	488	420	514	537	462	0
EWFD675TZPSD2	357	508	531	455	559	584	501	0
EWFD735TZPSD2	404	535	559	479	585	615	526	0
EWFD810TZPSD2	421	573	591	513	607	650	564	0
EWFD890TZPSD2	462	616	643	550	677	707	605	0
EWFD960TZPSD2	519	672	703	599	740	773	659	0
EWFDC10TZPSD2	637	709	741	633	780	815	696	0
EWFDH10TZPSD2	685	761	795	677	837	875	745	0
EWFDH11TZPSD2	605	796	832	710	876	915	781	0
EWFDC12TZPSD2	687	845	883	752	929	971	827	0
EWFDH12TZPSD2	757	893	934	793	982	1027	873	0
EWFDH13TZPSD2	812	951	968	846	1021	1065	930	0
EWFDH14TZPSD2	766	1039	1087	922	1143	1195	1014	0
EWFDH15TZPSD2	891	1135	1188	1005	1248	1306	1106	0

The above data are referred to the unit without additional optional.

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(1) Power Supply 400V/50Hz

(2) Power Supply 380V/60Hz

(3) Power Supply 460V/60Hz

EWFD TZ-D PS| Platinum Efficiency, Standard Sound												
Models	Fans FLA			Auxiliary circuit			Entry cross section cable			SCC Icw 1 Sec.		
	A(1)	A(2)	A(3)	A(1)	A(2)	A(3)	q.ty x mm2(1)	q.ty x mm2(2)	q.ty x mm2(3)	kA eff(1)	kA eff(2)	kA eff(3)
EWFD285TZPSD1	42	42	42	2	3	4	240	240	240	15	15	15
EWFD330TZPSD1	52	52	52	2	3	4	240	240	240	15	15	15
EWFD370TZPSD1	52	52	52	2	3	4	240	240	240	15	15	15
EWFD405TZPSD1	62	62	62	2	3	4	2x185	2x185	2x185	20	20	20
EWFD450TZPSD1	62	62	62	2	3	4	2x185	2x185	2x185	20	20	20
EWFD490TZPSD1	62	62	62	2	3	4	2x185	2x185	2x185	20	20	20
EWFD530TZPSD2	73	73	73	4	4	5	2x240	2x240	2x240	20	20	20
EWFD575TZPSD2	73	73	73	4	4	5	2x240	2x240	2x240	20	20	20
EWFD615TZPSD2	83	83	83	4	4	5	2x240	2x240	2x240	20	20	20
EWFD675TZPSD2	83	83	83	4	4	5	2x240	2x240	2x240	20	20	20
EWFD735TZPSD2	83	83	83	4	4	5	2x240	2x240	2x240	20	20	20
EWFD810TZPSD2	94	94	94	4	4	5	2x240	2x240	2x240	20	20	20
EWFD890TZPSD2	94	94	94	4	4	5	2x400	2x400	2x400	25	25	25
EWFD960TZPSD2	94	94	94	4	4	5	2x400	2x400	2x400	25	25	25
EWFDC10TZPSD2	104	104	104	4	4	5	2x400	2x400	2x400	25	25	25
EWFDH10TZPSD2	104	104	104	4	4	5	2x400	2x400	2x400	25	25	25
EWFDH11TZPSD2	114	114	114	4	4	5	2x400	2x400	2x400	25	25	25
EWFDC12TZPSD2	114	114	114	4	4	5	2x400	2x400	2x400	25	25	25
EWFDH12TZPSD2	114	114	114	4	4	5	2x400	2x400	2x400	25	25	25
EWFDH13TZPSD2	125	125	125	4	4	5	2x400	2x400	2x400	25	25	25
EWFDH14TZPSD2	125	125	125	4	4	5	2x500	2x500	3x500	25	25	25
EWFDH15TZPSD2	125	125	125	4	4	5	2x500	2x500	3x500	25	25	25

The above data are referred to the unit without additional optional.

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(1) Power Supply 400V/50Hz

(2) Power Supply 380V/60Hz

(3) Power Supply 460V/60Hz

EWFH TZ-D BS| Blue Efficiency, Standard Sound								
Models	Running Current	Max Running Current			Current for Wiring Sizing			Max Inrush Current
	A(1)	A(1)	A(2)	A(3)	A(1)	A(2)	A(3)	A
EWFH235TZBSD1	157	204	213	182	224	235	200	0
EWFH255TZBSD1	187	227	238	202	249	261	222	0
EWFH300TZBSD1	244	268	273	238	275	301	262	0
EWFH350TZBSD1	233	291	305	259	320	335	285	0
EWFH400TZBSD1	278	334	350	297	367	385	326	0
EWFH420TZBSD1	304	355	372	315	391	409	346	0
EWFH455TZBSD1	346	396	415	351	436	457	386	0
EWFH505TZBSD1	381	435	454	384	457	499	423	0
EWFH545TZBSD1	393	463	464	410	468	511	451	0
EWFH400TZBSD2	238	334	350	298	368	385	328	0
EWFH425TZBSD2	258	358	375	319	394	413	351	0
EWFH485TZBSD2	320	406	425	361	447	468	397	0
EWFH545TZBSD2	384	452	474	401	497	521	441	0
EWFH590TZBSD2	399	494	520	439	535	572	483	0
EWFH635TZBSD2	472	895	556	475	901	611	522	0
EWFH745TZBSD2	469	581	608	516	639	669	567	0
EWFH785TZBSD2	519	624	653	553	686	719	608	0
EWFH845TZBSD2	579	667	698	590	733	768	649	0
EWFH900TZBSD2	604	719	753	637	791	828	700	0
EWFH985TZBSD2	701	801	839	708	880	923	779	0
EWFHC11TZBSD2	767	889	927	786	935	1020	864	0
EWFHH11TZBSD2	849	927	1005	847	935	1105	931	0
EWFHC13TZBSD2	835	1015	1063	897	1116	1170	987	0
EWFHH13TZBSD2	948	1106	1160	976	1210	1275	1074	0
EWFHH14TZBSD2	1030	1383	1276	1075	1498	1404	1182	0
EWFHC15TZBSD2	1135	1330	1395	1173	1463	1534	1290	0
EWFHH15TZBSD2	1185	1400	1468	1235	1540	1615	1358	0

The above data are referred to the unit without additional optional.

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(1) Power Supply 400V/50Hz

(2) Power Supply 380V/60Hz

(3) Power Supply 460V/60Hz

EWFH TZ-D BS| Blue Efficiency, Standard Sound												
Models	Fans FLA			Auxiliary circuit			Entry cross section cable			SCC Icw 1 Sec.		
	A(1)	A(2)	A(3)	A(1)	A(2)	A(3)	q.ty x mm2(1)	q.ty x mm2(2)	q.ty x mm2(3)	kA eff(1)	kA eff(2)	kA eff(3)
EWFH235TZBSD1	19	21	21	2	3	4	240	240	240	15	15	15
EWFH255TZBSD1	19	21	21	2	3	4	240	240	240	15	15	15
EWFH300TZBSD1	19	21	21	2	3	4	240	240	240	15	15	15
EWFH350TZBSD1	28	31	31	2	3	4	2x185	2x185	2x185	20	20	20
EWFH400TZBSD1	28	31	31	2	3	4	2x185	2x185	2x185	20	20	20
EWFH420TZBSD1	28	31	31	2	3	4	2x185	2x185	2x185	20	20	20
EWFH455TZBSD1	28	31	31	2	3	4	2x185	2x185	2x185	20	20	20
EWFH505TZBSD1	28	31	31	2	3	4	2x185	2x185	2x185	20	20	20
EWFH545TZBSD1	37	42	42	2	3	4	2x185	2x185	2x185	20	20	20
EWFH400TZBSD2	37	42	42	4	4	5	2x185	2x185	2x185	20	20	20
EWFH425TZBSD2	37	42	42	4	4	5	2x185	2x185	2x185	20	20	20
EWFH485TZBSD2	37	42	42	4	4	5	2x240	2x240	2x240	20	20	20
EWFH545TZBSD2	37	42	42	4	4	5	2x240	2x240	2x240	20	20	20
EWFH590TZBSD2	47	52	52	4	4	5	2x240	2x240	2x240	20	20	20
EWFH635TZBSD2	47	52	52	4	4	5	2x240	2x240	2x240	20	20	20
EWFH745TZBSD2	56	62	62	4	4	5	2x400	2x400	2x400	25	25	25
EWFH785TZBSD2	56	62	62	4	4	5	2x400	2x400	2x400	25	25	25
EWFH845TZBSD2	56	62	62	4	4	5	2x400	2x400	2x400	25	25	25
EWFH900TZBSD2	65	73	73	4	4	5	2x400	2x400	2x400	25	25	25
EWFH985TZBSD2	65	73	73	4	4	5	2x400	2x400	2x400	25	25	25
EWFHC11TZBSD2	75	83	83	4	4	5	2x400	2x400	2x400	25	25	25
EWFHH11TZBSD2	75	83	83	4	4	5	2x400	2x500	2x400	25	25	25
EWFHC13TZBSD2	84	94	94	4	4	5	2x500	2x500	2x500	25	25	25
EWFHH13TZBSD2	84	94	94	4	4	5	2x500	2x500	2x500	25	25	25
EWFHH14TZBSD2	93	104	104	4	4	5	3x500	3x500	3x500	25	25	25
EWFHC15TZBSD2	93	104	104	4	4	5	3x500	3x500	3x500	25	25	25
EWFHH15TZBSD2	103	114	114	4	4	5	3x500	3x500	3x500	25	25	25

The above data are referred to the unit without additional optional.

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(1) Power Supply 400V/50Hz

(2) Power Supply 380V/60Hz

(3) Power Supply 460V/60Hz

EWFH TZ-D SS| Silver Efficiency, Standard Sound								
Models	Running Current	Max Running Current			Current for Wiring Sizing			Max Inrush Current
	A(1)	A(1)	A(2)	A(3)	A(1)	A(2)	A(3)	A
EWFH240TZSSD1	145	214	224	192	235	246	212	0
EWFH265TZSSD1	166	237	248	212	261	273	234	0
EWFH295TZSSD1	196	259	271	231	285	298	254	0
EWFH370TZSSD1	219	302	315	270	332	347	297	0
EWFH415TZSSD1	266	344	360	307	379	396	338	0
EWFH450TZSSD1	285	365	382	325	402	421	358	0
EWFH490TZSSD1	327	406	426	361	447	468	397	0
EWFH540TZSSD1	359	455	475	405	480	522	445	0
EWFH400TZSSD2	234	345	360	309	379	396	340	0
EWFH470TZSSD2	290	405	423	361	445	466	397	0
EWFH535TZSSD2	318	428	448	381	471	493	419	0
EWFH595TZSSD2	374	495	517	440	544	569	485	0
EWFH630TZSSD2	404	526	553	468	570	608	515	0
EWFH690TZSSD2	431	538	563	478	592	620	526	0
EWFH740TZSSD2	465	581	608	516	639	669	567	0
EWFH795TZSSD2	503	634	664	563	698	730	620	0
EWFH855TZSSD2	550	677	709	600	745	780	660	0
EWFH910TZSSD2	579	729	763	647	802	840	712	0
EWFH980TZSSD2	639	802	839	712	882	923	783	0
EWFHC10TZSSD2	663	852	891	757	937	981	832	0
EWFHC11TZSSD2	709	891	930	790	958	1023	869	0
EWFHC12TZSSD2	821	948	1026	868	958	1128	954	0
EWFHH12TZSSD2	806	1025	1074	907	1128	1181	998	0
EWFHH13TZSSD2	916	1117	1170	987	1222	1287	1085	0
EWFHC14TZSSD2	994	1393	1287	1085	1510	1415	1194	0
EWFHC15TZSSD2	1023	1351	1416	1193	1486	1557	1313	0
EWFHH15TZSSD2	1205	1410	1478	1245	1552	1626	1369	0

The above data are referred to the unit without additional optional.

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(1) Power Supply 400V/50Hz

(2) Power Supply 380V/60Hz

(3) Power Supply 460V/60Hz

EWFH TZ-D SS| Silver Efficiency, Standard Sound												
Models	Fans FLA			Auxiliary circuit			Entry cross section cable			SCC Icw 1 Sec.		
	A(1)	A(2)	A(3)	A(1)	A(2)	A(3)	q.ty x mm2(1)	q.ty x mm2(2)	q.ty x mm2(3)	kA eff(1)	kA eff(2)	kA eff(3)
EWFH240TZSSD1	31	31	31	2	3	4	240	240	240	15	15	15
EWFH265TZSSD1	31	31	31	2	3	4	240	240	240	15	15	15
EWFH295TZSSD1	31	31	31	2	3	4	240	240	240	15	15	15
EWFH370TZSSD1	42	42	42	2	3	4	2x185	2x185	2x185	20	20	20
EWFH415TZSSD1	42	42	42	2	3	4	2x185	2x185	2x185	20	20	20
EWFH450TZSSD1	42	42	42	2	3	4	2x185	2x185	2x185	20	20	20
EWFH490TZSSD1	42	42	42	2	3	4	2x185	2x185	2x185	20	20	20
EWFH540TZSSD1	52	52	52	2	3	4	2x185	2x185	2x185	20	20	20
EWFH400TZSSD2	52	52	52	4	4	5	2x185	2x185	2x185	20	20	20
EWFH470TZSSD2	52	52	52	4	4	5	2x185	2x240	2x240	20	20	20
EWFH535TZSSD2	52	52	52	4	4	5	2x185	2x240	2x240	20	20	20
EWFH595TZSSD2	62	62	62	4	4	5	2x240	2x240	2x240	20	20	20
EWFH630TZSSD2	62	62	62	4	4	5	2x240	2x240	2x240	20	20	20
EWFH690TZSSD2	62	62	62	4	4	5	2x240	2x400	2x400	20	25	25
EWFH740TZSSD2	62	62	62	4	4	5	2x240	2x400	2x400	20	25	25
EWFH795TZSSD2	73	73	73	4	4	5	2x400	2x400	2x400	25	25	25
EWFH855TZSSD2	73	73	73	4	4	5	2x400	2x400	2x400	25	25	25
EWFH910TZSSD2	83	83	83	4	4	5	2x400	2x400	2x400	25	25	25
EWFH980TZSSD2	94	94	94	4	4	5	2x400	2x400	2x400	25	25	25
EWFHC10TZSSD2	104	104	104	4	4	5	2x400	2x400	2x400	25	25	25
EWFHC11TZSSD2	104	104	104	4	4	5	2x400	2x400	2x400	25	25	25
EWFHC12TZSSD2	104	104	104	4	4	5	2x400	2x500	2x400	25	25	25
EWFHH12TZSSD2	104	104	104	4	4	5	2x500	2x500	2x500	25	25	25
EWFHH13TZSSD2	104	104	104	4	4	5	2x500	2x500	2x500	25	25	25
EWFHC14TZSSD2	114	114	114	4	4	5	3x500	3x500	3x500	25	25	25
EWFHC15TZSSD2	125	125	125	4	4	5	3x500	3x500	3x500	25	25	25
EWFHH15TZSSD2	125	125	125	4	4	5	3x500	3x500	3x500	25	25	25

The above data are referred to the unit without additional optional.

All the data are intended as guideline and are subject to change without notice. For updated information on project base refer to dedicated wiring diagram

(1) Power Supply 400V/50Hz

(2) Power Supply 380V/60Hz

(3) Power Supply 460V/60Hz

EWFH TZ-D XS| Gold Efficiency, Standard Sound

Models	Running Current	Max Running Current			Current for Wiring Sizing			Max Inrush Current
	A(1)	A(1)	A(2)	A(3)	A(1)	A(2)	A(3)	A
EWFH220TZXSD1	135	172	180	155	190	198	170	0
EWFH230TZXSD1	153	183	191	164	201	210	180	0
EWFH275TZXSD1	161	214	223	192	235	246	211	0
EWFH300TZXSD1	188	236	246	211	259	271	232	0
EWFH350TZXSD1	197	269	281	242	296	310	266	0
EWFH400TZXSD1	245	310	324	277	340	356	304	0
EWFH470TZXSD1	277	357	373	319	393	410	351	0
EWFH515TZXSD1	312	394	412	352	434	453	387	0
EWFH540TZXSD1	296	414	433	369	456	477	406	0
EWFH620TZXSD1	385	491	515	436	541	566	480	0
EWFH465TZXSD2	257	364	380	327	401	418	360	0
EWFH545TZXSD2	295	406	424	363	442	466	399	0
EWFH600TZXSD2	357	448	468	400	492	515	440	0
EWFH645TZXSD2	384	472	494	421	520	543	463	0
EWFH700TZXSD2	423	517	541	460	569	595	506	0
EWFH750TZXSD2	439	527	551	470	580	606	517	0
EWFH790TZXSD2	445	579	605	516	637	666	568	0
EWFH840TZXSD2	493	618	646	550	680	711	605	0
EWFH900TZXSD2	550	655	685	583	721	754	641	0
EWFH975TZXSD2	601	702	734	625	772	807	687	0
EWFHH10TZXSD2	661	787	823	700	866	906	770	0
EWFHH11TZXSD2	678	902	944	800	992	1038	880	0
EWFHH12TZXSD2	739	992	1038	880	1091	1142	968	0
EWFHH13TZXSD2	826	1090	1140	966	1198	1254	1062	0

The above data are referred to the unit without additional optional.

All the data are intended as guideline and are subject to change without notice. For updated information on project base refer to dedicated wiring diagram

(1) Power Supply 400V/50Hz

(2) Power Supply 380V/60Hz

(3) Power Supply 460V/60Hz

EWFH TZ-D XS| Gold Efficiency, Standard Sound

Models	Fans FLA			Auxiliary circuit			Entry cross section cable			SCC Icw 1 Sec.		
	A(1)	A(2)	A(3)	A(1)	A(2)	A(3)	q.ty x mm2(1)	q.ty x mm2(2)	q.ty x mm2(3)	kA eff(1)	kA eff(2)	kA eff(3)
EWFH220TZXSD1	21	21	21	2	3	4	120	120	120	8	8	8
EWFH230TZXSD1	21	21	21	2	3	4	120	120	120	8	8	8
EWFH275TZXSD1	31	31	31	2	3	4	240	240	240	15	15	15
EWFH300TZXSD1	31	31	31	2	3	4	240	240	240	15	15	15
EWFH350TZXSD1	42	42	42	2	3	4	2x185	2x185	2x185	20	20	20
EWFH400TZXSD1	42	42	42	2	3	4	2x185	2x185	2x185	20	20	20
EWFH470TZXSD1	52	52	52	2	3	4	2x185	2x185	2x185	20	20	20
EWFH515TZXSD1	52	52	52	2	3	4	2x185	2x185	2x185	20	20	20
EWFH540TZXSD1	52	52	52	2	3	4	2x240	2x240	2x240	20	20	20
EWFH620TZXSD1	52	52	52	2	3	4	2x240	2x240	2x240	20	20	20
EWFH465TZXSD2	62	62	62	4	4	5	2x185	2x185	2x185	20	20	20
EWFH545TZXSD2	62	62	62	4	4	5	2x185	2x185	2x185	20	20	20
EWFH600TZXSD2	62	62	62	4	4	5	2x240	2x240	2x240	20	20	20
EWFH645TZXSD2	62	62	62	4	4	5	2x400	2x400	2x400	25	25	25
EWFH700TZXSD2	62	62	62	4	4	5	2x400	2x400	2x400	25	25	25
EWFH750TZXSD2	73	73	73	4	4	5	2x400	2x400	2x400	25	25	25
EWFH790TZXSD2	83	83	83	4	4	5	2x400	2x400	2x400	25	25	25
EWFH840TZXSD2	83	83	83	4	4	5	2x400	2x400	2x400	25	25	25
EWFH900TZXSD2	83	83	83	4	4	5	2x400	2x400	2x400	25	25	25
EWFH975TZXSD2	94	94	94	4	4	5	2x400	2x400	2x400	25	25	25
EWFHH10TZXSD2	104	104	104	4	4	5	2x400	2x400	2x400	25	25	25
EWFHH11TZXSD2	104	104	104	4	4	5	2x500	2x500	2x500	25	25	25
EWFHH12TZXSD2	114	114	114	4	4	5	2x500	2x500	2x500	25	25	25
EWFHH13TZXSD2	125	125	125	4	4	5	2x500	2x500	2x500	25	25	25

The above data are referred to the unit without additional optional.

All the data are intended as guideline and are subject to change without notice. For updated information on project base refer to dedicated wiring diagram

(1) Power Supply 400V/50Hz

(2) Power Supply 380V/60Hz

(3) Power Supply 460V/60Hz

EWFH TZ-D PS| Platinum Efficiency, Standard Sound

Models	Running Current	Max Running Current			Current for Wiring Sizing			Max Inrush Current
	A(1)	A(1)	A(2)	A(3)	A(1)	A(2)	A(3)	A
EWFH225TZPSD1	121	183	191	165	201	210	182	0
EWFH265TZPSD1	136	214	223	194	235	245	213	0
EWFH295TZPSD1	161	235	245	212	258	269	233	0
EWFH340TZPSD1	170	258	268	233	283	295	256	0
EWFH395TZPSD1	213	301	313	270	331	345	297	0
EWFH435TZPSD1	219	330	344	298	363	379	327	0
EWFH490TZPSD1	259	367	383	330	404	421	363	0
EWFH545TZPSD1	269	425	444	380	467	488	418	0
EWFH500TZPSD2	259	375	391	336	412	430	370	0
EWFH540TZPSD2	268	406	423	364	444	465	401	0
EWFH615TZPSD2	332	432	451	388	476	496	426	0
EWFH645TZPSD2	348	458	478	410	503	525	450	0
EWFH700TZPSD2	385	505	528	451	556	580	496	0
EWFH770TZPSD2	414	558	583	499	614	642	548	0
EWFH845TZPSD2	445	609	636	544	670	699	598	0
EWFH900TZPSD2	503	647	676	577	712	743	635	0
EWFH960TZPSD2	696	694	725	619	764	798	681	0
EWFHC10TZPSD2	639	731	764	651	804	840	716	0
EWFHH10TZPSD2	605	779	813	694	857	895	764	0
EWFHH11TZPSD2	596	875	915	778	962	1006	856	0
EWFHC12TZPSD2	623	923	964	821	1015	1061	903	0

The above data are referred to the unit without additional optional.

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(1) Power Supply 400V/50Hz

(2) Power Supply 380V/60Hz

(3) Power Supply 460V/60Hz

EWFH TZ-D PS| Platinum Efficiency, Standard Sound

Models	Fans FLA			Auxiliary circuit			Entry cross section cable			SCC Icw 1 Sec.		
	A(1)	A(2)	A(3)	A(1)	A(2)	A(3)	q.ty x mm2(1)	q.ty x mm2(2)	q.ty x mm2(3)	kA eff(1)	kA eff(2)	kA eff(3)
EWFH225TZPSD1	31	31	31	2	2	4	240	240	240	15	15	15
EWFH265TZPSD1	42	42	42	2	2	4	240	240	240	15	15	15
EWFH295TZPSD1	42	42	42	2	2	4	240	240	240	15	15	15
EWFH340TZPSD1	52	52	52	2	2	4	2x185	2x185	2x185	20	20	20
EWFH395TZPSD1	52	52	52	2	2	4	2x185	2x185	2x185	20	20	20
EWFH435TZPSD1	62	62	62	2	2	4	2x185	2x185	2x185	20	20	20
EWFH490TZPSD1	62	62	62	2	2	4	2x185	2x185	2x185	20	20	20
EWFH545TZPSD1	62	62	62	2	2	4	2x240	2x240	2x240	20	20	20
EWFH500TZPSD2	62	62	62	4	4	5	2x185	2x185	2x185	20	20	20
EWFH540TZPSD2	73	73	73	4	4	5	2x185	2x185	2x185	20	20	20
EWFH615TZPSD2	73	73	73	4	4	5	2x400	2x400	2x400	25	25	25
EWFH645TZPSD2	73	73	73	4	4	5	2x400	2x400	2x400	25	25	25
EWFH700TZPSD2	73	73	73	4	4	5	2x400	2x400	2x400	25	25	25
EWFH770TZPSD2	83	83	83	4	4	5	2x400	2x400	2x400	25	25	25
EWFH845TZPSD2	94	94	94	4	4	5	2x400	2x400	2x400	25	25	25
EWFH900TZPSD2	94	94	94	4	4	5	2x400	2x400	2x400	25	25	25
EWFH960TZPSD2	104	104	104	4	4	5	2x400	2x400	2x400	25	25	25
EWFHC10TZPSD2	104	104	104	4	4	5	2x400	2x400	2x400	25	25	25
EWFHH10TZPSD2	114	114	114	4	4	5	2x400	2x400	2x400	25	25	25
EWFHH11TZPSD2	114	114	114	4	4	5	2x500	2x500	2x500	25	25	25
EWFHC12TZPSD2	125	125	125	4	4	5	2x500	2x500	2x500	25	25	25

The above data are referred to the unit without additional optional.

All the data are intended as guideline and are subject to change without notice. For updated information on project base refer to dedicated wiring diagram

(1) Power Supply 400V/50Hz

(2) Power Supply 380V/60Hz

(3) Power Supply 460V/60Hz

EWFS TZ-D BS| Blue Efficiency, Standard Sound

Models	Running Current	Max Running Current			Current for Wiring Sizing			Max Inrush Current
	A(1)	A(1)	A(2)	A(3)	A(1)	A(2)	A(3)	A
EWFS275TZBSD1	188	220	220	186	242	242	205	0
EWFS320TZBSD1	199	262	260	220	287	286	242	0
EWFS345TZBSD1	230	284	270	248	287	297	273	0
EWFS400TZBSD1	278	362	345	290	398	380	319	0
EWFS470TZBSD1	311	346	362	304	381	398	334	0
EWFS525TZBSD1	328	400	402	338	440	442	372	0
EWFS580TZBSD1	393	457	444	385	468	488	423	0
EWFS625TZBSD1	429	464	510	426	468	561	469	0
EWFS755TZBSD2	451	600	602	505	660	662	556	0
EWFS830TZBSD2	558	668	668	559	735	734	615	0
EWFS915TZBSD2	617	668	667	558	735	734	614	0
EWFSC10TZBSD2	700	751	754	631	826	830	694	0
EWFSH10TZBSD2	717	817	818	683	896	899	752	0
EWFSH11TZBSD2	748	884	873	743	935	960	817	0
EWFSC12TZBSD2	816	930	957	802	947	1053	882	0
EWFSC13TZBSD2	895	948	1040	870	958	1144	957	0
EWFSC14TZBSD2	991	1120	1121	937	1232	1233	1031	0
EWFSC15TZBSD2	1071	1200	1186	1008	1275	1305	1108	0
EWFSH16TZBSD2	1060	1227	1215	1031	1280	1337	1135	0
EWFSH17TZBSD2	1157	1340	1405	1182	1474	1545	1301	0
EWFSH18TZBSD2	1353	1475	1546	1301	1621	1701	1431	0
EWFSH19TZBSD2	1376	1608	1608	1422	1621	1769	1564	0

The above data are referred to the unit without additional optional.

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(1) Power Supply 400V/50Hz

(2) Power Supply 380V/60Hz

(3) Power Supply 460V/60Hz

EWFS TZ-D BS| Blue Efficiency, Standard Sound

Models	Fans FLA			Auxiliary circuit			Entry cross section cable			SCC Icw 1 Sec.		
	A(1)	A(2)	A(3)	A(1)	A(2)	A(3)	q.ty x mm2(1)	q.ty x mm2(2)	q.ty x mm2(3)	kA eff(1)	kA eff(2)	kA eff(3)
EWFS275TZBSD1	19	21	21	2	3	4	240	240	240	15	15	15
EWFS320TZBSD1	28	31	31	2	3	4	240	240	240	15	15	15
EWFS345TZBSD1	28	31	31	2	3	4	240	240	240	15	15	15
EWFS400TZBSD1	28	31	31	2	3	4	2x185	2x185	2x185	20	20	20
EWFS470TZBSD1	28	31	31	2	3	4	2x185	2x185	2x185	20	20	20
EWFS525TZBSD1	37	42	42	2	3	4	2x185	2x185	2x185	20	20	20
EWFS580TZBSD1	37	42	42	2	3	4	2x185	2x185	2x185	20	20	20
EWFS625TZBSD1	37	42	42	2	3	4	2x185	2x240	2x185	20	20	20
EWFS755TZBSD2	56	62	62	4	4	5	2x400	2x400	2x400	25	25	25
EWFS830TZBSD2	56	62	62	4	4	5	2x400	2x400	2x400	25	25	25
EWFS915TZBSD2	56	62	62	4	4	5	2x400	2x400	2x400	25	25	25
EWFSC10TZBSD2	56	62	62	4	4	5	2x400	2x400	2x400	25	25	25
EWFSH10TZBSD2	65	73	73	4	4	5	2x400	2x400	2x400	25	25	25
EWFSH11TZBSD2	75	83	83	4	4	5	2x400	2x400	2x400	25	25	25
EWFSC12TZBSD2	84	94	94	4	4	5	2x400	2x500	2x400	25	25	25
EWFSC13TZBSD2	93	104	104	4	4	5	2x400	2x500	2x400	25	25	25
EWFSC14TZBSD2	93	104	104	4	4	5	2x500	2x500	2x500	25	25	25
EWFSC15TZBSD2	103	114	114	4	4	5	2x500	2x500	2x500	25	25	25
EWFSH16TZBSD2	103	114	114	4	4	5	2x500	2x500	3x500	25	25	25
EWFSH17TZBSD2	103	114	114	4	4	5	3x500	3x500	3x500	25	25	25
EWFSH18TZBSD2	112	125	125	4	4	5	3x500	3x500	3x500	25	25	25
EWFSH19TZBSD2	112	125	125	4	4	5	3x500	3x500	3x500	25	25	25

The above data are referred to the unit without additional optional.

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(1) Power Supply 400V/50Hz

(2) Power Supply 380V/60Hz

(3) Power Supply 460V/60Hz

EWFS TZ-D SS| Silver Efficiency, Standard Sound								
Models	Running Current	Max Running Current			Current for Wiring Sizing			Max Inrush Current
	A(1)	A(1)	A(2)	A(3)	A(1)	A(2)	A(3)	A
EWFS285TZSSD1	170	231	231	196	254	254	216	0
EWFS325TZSSD1	185	272	270	230	298	297	253	0
EWFS380TZSSD1	226	294	280	258	298	308	284	0
EWFS430TZSSD1	268	357	356	300	392	391	330	0
EWFS495TZSSD1	305	372	372	314	410	410	345	0
EWFS535TZSSD1	319	411	412	349	452	453	384	0
EWFS595TZSSD1	370	467	454	395	480	500	435	0
EWFS650TZSSD1	439	474	520	437	480	572	480	0
EWFS520TZSSD2	312	421	423	358	463	465	393	0
EWFS555TZSSD2	336	450	454	383	495	499	422	0
EWFS585TZSSD2	377	481	483	407	528	532	448	0
EWFS645TZSSD2	383	523	527	445	572	579	489	0
EWFS705TZSSD2	455	566	540	494	572	594	544	0
EWFS760TZSSD2	446	610	612	516	671	673	567	0
EWFS835TZSSD2	515	679	678	569	747	746	626	0
EWFS960TZSSD2	603	706	706	593	776	777	652	0
EWFSC10TZSSD2	662	761	765	641	837	841	705	0
EWFSH10TZSSD2	667	789	788	659	868	867	725	0
EWFSH11TZSSD2	749	884	873	743	935	960	817	0
EWFSH12TZSSD2	807	948	996	837	958	1096	920	0
EWFSH13TZSSD2	878	1187	1077	893	1248	1185	983	0
EWFSH14TZSSD2	970	1156	1157	969	1271	1273	1066	0
EWFSH15TZSSD2	954	1124	1124	942	1237	1237	1036	0
EWFSH16TZSSD2	1004	1227	1215	1031	1280	1337	1135	0
EWFSH17TZSSD2	1166	1351	1415	1193	1486	1557	1312	0
EWFSH18TZSSD2	1247	1475	1546	1301	1621	1701	1431	0
EWFSH19TZSSD2	1368	1608	1608	1422	1621	1769	1564	0

The above data are referred to the unit without additional optional.

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(1) Power Supply 400V/50Hz

(2) Power Supply 380V/60Hz

(3) Power Supply 460V/60Hz

EWFS TZ-D SS| Silver Efficiency, Standard Sound												
Models	Fans FLA			Auxiliary circuit			Entry cross section cable			SCC Icw 1 Sec.		
	A(1)	A(2)	A(3)	A(1)	A(2)	A(3)	q.ty x mm2(1)	q.ty x mm2(2)	q.ty x mm2(3)	kA eff(1)	kA eff(2)	kA eff(3)
EWFS285TZSSD1	31	31	31	2	3	4	240	240	240	15	15	15
EWFS325TZSSD1	42	42	42	2	3	4	240	240	240	15	15	15
EWFS380TZSSD1	42	42	42	2	3	4	240	240	240	15	15	15
EWFS430TZSSD1	42	42	42	2	3	4	2x185	2x185	2x185	20	20	20
EWFS495TZSSD1	42	42	42	2	3	4	2x185	2x185	2x185	20	20	20
EWFS535TZSSD1	52	52	52	2	3	4	2x185	2x185	2x185	20	20	20
EWFS595TZSSD1	52	52	52	2	3	4	2x185	2x185	2x185	20	20	20
EWFS650TZSSD1	52	52	52	2	3	4	2x185	2x240	2x185	20	20	20
EWFS520TZSSD2	52	52	52	4	4	5	2x240	2x240	2x240	20	20	20
EWFS555TZSSD2	52	52	52	4	4	5	2x240	2x240	2x240	20	20	20
EWFS585TZSSD2	52	52	52	4	4	5	2x240	2x240	2x240	20	20	20
EWFS645TZSSD2	62	62	62	4	4	5	2x240	2x240	2x240	20	20	20
EWFS705TZSSD2	62	62	62	4	4	5	2x240	2x240	2x240	20	20	20
EWFS760TZSSD2	73	73	73	4	4	5	2x400	2x400	2x400	25	25	25
EWFS835TZSSD2	73	73	73	4	4	5	2x400	2x400	2x400	25	25	25
EWFS960TZSSD2	73	73	73	4	4	5	2x400	2x400	2x400	25	25	25
EWFSC10TZSSD2	73	73	73	4	4	5	2x400	2x400	2x400	25	25	25
EWFSH10TZSSD2	73	73	73	4	4	5	2x400	2x400	2x400	25	25	25
EWFSH11TZSSD2	83	83	83	4	4	5	2x400	2x400	2x400	25	25	25
EWFSH12TZSSD2	104	104	104	4	4	5	2x400	2x500	2x400	25	25	25
EWFSH13TZSSD2	114	114	114	4	4	5	2x400	2x500	2x400	25	25	25
EWFSH14TZSSD2	114	114	114	4	4	5	2x500	2x500	2x500	25	25	25
EWFSH15TZSSD2	114	114	114	4	4	5	2x500	2x500	3x500	25	25	25
EWFSH16TZSSD2	114	114	114	4	4	5	2x500	2x500	3x500	25	25	25
EWFSH17TZSSD2	125	125	125	4	4	5	3x500	3x500	3x500	25	25	25
EWFSH18TZSSD2	125	125	125	4	4	5	3x500	3x500	3x500	25	25	25
EWFSH19TZSSD2	125	125	125	4	4	5	3x500	3x500	3x500	25	25	25

The above data are referred to the unit without additional optional.

All the data are intended as guideline and are subject to change without notice. For updated information on project base refer to dedicated wiring diagram

(1) Power Supply 400V/50Hz

(2) Power Supply 380V/60Hz

(3) Power Supply 460V/60Hz

EWFS TZ-D XS| Gold Efficiency, Standard Sound								
Models	Running Current	Max Running Current			Current for Wiring Sizing			Max Inrush Current
	A(1)	A(1)	A(2)	A(3)	A(1)	A(2)	A(3)	A
EWFS295TZXSD1	181	224	224	191	246	246	210	0
EWFS345TZXSD1	204	261	259	221	288	285	243	0
EWFS380TZXSD1	234	289	280	245	298	308	269	0
EWFS440TZXSD1	238	314	313	268	345	345	294	0
EWFS515TZXSD1	309	342	340	289	376	374	318	0
EWFS565TZXSD1	328	404	405	344	444	445	379	0
EWFS635TZXSD1	385	452	452	383	491	498	422	0
EWFS705TZXSD1	415	520	518	436	572	569	480	0
EWFS760TZXSD1	469	568	568	478	625	625	525	0
EWFS525TZXSD2	292	389	389	331	428	428	364	0
EWFS565TZXSD2	331	429	417	354	472	459	390	0
EWFS610TZXSD2	342	457	457	389	503	503	428	0
EWFS670TZXSD2	389	498	500	424	548	550	467	0
EWFS725TZXSD2	425	535	522	442	585	574	486	0
EWFS805TZXSD2	446	573	554	476	607	609	524	0
EWFS880TZXSD2	491	626	606	513	689	667	564	0
EWFS950TZXSD2	569	683	660	556	751	726	612	0
EWFSC10TZXSD2	572	720	698	590	792	768	649	0
EWFSH10TZXSD2	648	782	753	634	860	828	698	0
EWFSH11TZXSD2	645	744	783	660	819	861	726	0
EWFSC12TZXSD2	731	803	834	702	883	917	772	0
EWFSH12TZXSD2	769	851	884	744	924	973	818	0
EWFSH13TZXSD2	833	899	919	796	924	1011	876	0
EWFSH14TZXSD2	828	997	1034	869	1097	1137	955	0
EWFSH15TZXSD2	909	1103	1135	952	1214	1248	1047	0
EWFSH16TZXSD2	1024	1217	1225	1042	1268	1348	1146	0
EWFSH17TZXSD2	1115	1330	1415	1193	1463	1557	1312	0

The above data are referred to the unit without additional optional.

All the data are intended as guideline and are subject to change without notice. For updated information on project base refer to dedicated wiring diagram

(1) Power Supply 400V/50Hz

(2) Power Supply 380V/60Hz

(3) Power Supply 460V/60Hz

EWFS TZ-D XS| Gold Efficiency, Standard Sound												
Models	Fans FLA			Auxiliary circuit			Entry cross section cable			SCC Icw 1 Sec.		
	A(1)	A(2)	A(3)	A(1)	A(2)	A(3)	q.ty x mm2(1)	q.ty x mm2(2)	q.ty x mm2(3)	kA eff(1)	kA eff(2)	kA eff(3)
EWFS295TZXSD1	31	31	31	2	3	4	240	240	240	15	15	15
EWFS345TZXSD1	42	42	42	2	3	4	240	240	240	15	15	15
EWFS380TZXSD1	42	42	42	2	3	4	240	240	240	15	15	15
EWFS440TZXSD1	52	52	52	2	3	4	2x185	2x185	2x185	20	20	20
EWFS515TZXSD1	52	52	52	2	3	4	2x185	2x185	2x185	20	20	20
EWFS565TZXSD1	62	62	62	2	3	4	2x185	2x185	2x185	20	20	20
EWFS635TZXSD1	62	62	62	2	3	4	2x185	2x185	2x185	20	20	20
EWFS705TZXSD1	62	62	62	2	3	4	2x240	2x240	2x300	20	20	25
EWFS760TZXSD1	62	62	62	2	3	4	2x240	2x240	2x300	20	20	25
EWFS525TZXSD2	62	62	62	4	4	5	2x240	2x240	2x240	20	20	20
EWFS565TZXSD2	62	62	62	4	4	5	2x240	2x240	2x240	20	20	20
EWFS610TZXSD2	73	73	73	4	4	5	2x240	2x240	2x240	20	20	20
EWFS670TZXSD2	73	73	73	4	4	5	2x240	2x240	2x240	20	20	20
EWFS725TZXSD2	73	73	73	4	4	5	2x240	2x240	2x240	20	20	20
EWFS805TZXSD2	83	83	83	4	4	5	2x240	2x240	2x240	20	20	20
EWFS880TZXSD2	83	83	83	4	4	5	2x400	2x400	2x400	25	25	25
EWFS950TZXSD2	83	83	83	4	4	5	2x400	2x400	2x400	25	25	25
EWFSC10TZXSD2	94	94	94	4	4	5	2x400	2x400	2x400	25	25	25
EWFSH10TZXSD2	94	94	94	4	4	5	2x400	2x400	2x400	25	25	25
EWFSH11TZXSD2	104	104	104	4	4	5	2x400	2x400	2x400	25	25	25
EWFSC12TZXSD2	104	104	104	4	4	5	2x400	2x400	2x400	25	25	25
EWFSH12TZXSD2	104	104	104	4	4	5	2x400	2x400	2x400	25	25	25
EWFSH13TZXSD2	114	114	114	4	4	5	2x400	2x400	2x400	25	25	25
EWFSH14TZXSD2	125	125	125	4	4	5	2x500	2x500	3x500	25	25	25
EWFSH15TZXSD2	125	125	125	4	4	5	2x500	2x500	3x500	25	25	25
EWFSH16TZXSD2	125	125	125	4	4	5	2x500	2x500	3x500	25	25	25
EWFSH17TZXSD2	125	125	125	4	4	5	3x500	3x500	3x500	25	25	25

The above data are referred to the unit without additional optional.

All the data are intended as guideline and are subject to change without notice. For updated information on project base refer to dedicated wiring diagram

(1) Power Supply 400V/50Hz

(2) Power Supply 380V/60Hz

(3) Power Supply 460V/60Hz

EWFS TZ-D PS| Platinum Efficiency, Standard Sound								
Models	Running Current	Max Running Current			Current for Wiring Sizing			Max Inrush Current
	A(1)	A(1)	A(2)	A(3)	A(1)	A(2)	A(3)	A
EWFS285TZPSD1	149	220	219	189	242	241	208	0
EWFS330TZPSD1	178	258	255	220	284	281	242	0
EWFS370TZPSD1	202	285	284	243	310	312	267	0
EWFS405TZPSD1	208	293	291	251	322	320	276	0
EWFS450TZPSD1	237	352	354	303	388	389	333	0
EWFS490TZPSD1	261	404	405	344	444	445	379	0
EWFS530TZPSD2	283	399	399	342	439	439	376	0
EWFS575TZPSD2	319	429	428	365	472	470	401	0
EWFS615TZPSD2	345	468	468	400	514	514	439	0
EWFS675TZPSD2	373	508	510	435	559	562	478	0
EWFS735TZPSD2	412	535	533	452	585	586	497	0
EWFS810TZPSD2	435	573	564	486	607	620	535	0
EWFS890TZPSD2	483	616	617	523	677	678	575	0
EWFS960TZPSD2	537	672	670	567	740	737	623	0
EWFSC10TZPSD2	553	709	709	600	780	780	660	0
EWFSH10TZPSD2	610	761	756	638	837	832	702	0
EWFSH11TZPSD2	634	796	793	671	876	873	738	0
EWFSC12TZPSD2	689	845	844	713	929	929	784	0
EWFSH12TZPSD2	757	893	895	754	982	984	830	0
EWFSH13TZPSD2	814	951	929	807	1021	1022	887	0
EWFSH14TZPSD2	816	1039	1034	869	1143	1137	955	0
EWFSH15TZPSD2	900	1135	1135	952	1248	1248	1047	0

The above data are referred to the unit without additional optional.

All the data are intended as guideline and are subject to change without notice. For updated information on project base refer to dedicated wiring diagram

(1) Power Supply 400V/50Hz

(2) Power Supply 380V/60Hz

(3) Power Supply 460V/60Hz

EWFS TZ-D PS| Platinum Efficiency, Standard Sound												
Models	Fans FLA			Auxiliary circuit			Entry cross section cable			SCC Icw 1 Sec.		
	A(1)	A(2)	A(3)	A(1)	A(2)	A(3)	q.ty x mm2(1)	q.ty x mm2(2)	q.ty x mm2(3)	kA eff(1)	kA eff(2)	kA eff(3)
EWFS285TZPSD1	42	42	42	2	3	4	240	240	240	15	15	15
EWFS330TZPSD1	52	52	52	2	3	4	240	240	240	15	15	15
EWFS370TZPSD1	52	52	52	2	3	4	240	240	240	15	15	15
EWFS405TZPSD1	62	62	62	2	3	4	2x185	2x185	2x185	20	20	20
EWFS450TZPSD1	62	62	62	2	3	4	2x185	2x185	2x185	20	20	20
EWFS490TZPSD1	62	62	62	2	3	4	2x185	2x185	2x185	20	20	20
EWFS530TZPSD2	73	73	73	4	4	5	2x240	2x240	2x240	20	20	20
EWFS575TZPSD2	73	73	73	4	4	5	2x240	2x240	2x240	20	20	20
EWFS615TZPSD2	83	83	83	4	4	5	2x240	2x240	2x240	20	20	20
EWFS675TZPSD2	83	83	83	4	4	5	2x240	2x240	2x240	20	20	20
EWFS735TZPSD2	83	83	83	4	4	5	2x240	2x240	2x240	20	20	20
EWFS810TZPSD2	94	94	94	4	4	5	2x240	2x240	2x240	20	20	20
EWFS890TZPSD2	94	94	94	4	4	5	2x400	2x400	2x400	25	25	25
EWFS960TZPSD2	94	94	94	4	4	5	2x400	2x400	2x400	25	25	25
EWFSC10TZPSD2	104	104	104	4	4	5	2x400	2x400	2x400	25	25	25
EWFSH10TZPSD2	104	104	104	4	4	5	2x400	2x400	2x400	25	25	25
EWFSH11TZPSD2	114	114	114	4	4	5	2x400	2x400	2x400	25	25	25
EWFSC12TZPSD2	114	114	114	4	4	5	2x400	2x400	2x400	25	25	25
EWFSH12TZPSD2	114	114	114	4	4	5	2x400	2x400	2x400	25	25	25
EWFSH13TZPSD2	125	125	125	4	4	5	2x400	2x400	2x400	25	25	25
EWFSH14TZPSD2	125	125	125	4	4	5	2x500	2x500	3x500	25	25	25
EWFSH15TZPSD2	125	125	125	4	4	5	2x500	2x500	3x500	25	25	25

The above data are referred to the unit without additional optional.

All the data are intended as guideline and are subject to change without notice. For updated information on project base refer to dedicated wiring diagram

(1) Power Supply 400V/50Hz

(2) Power Supply 380V/60Hz

(3) Power Supply 460V/60Hz

8. Operating Limits

8.1 EWFH~TZ D – R1234ze

At Evaporator – Brazed Plate Heat Exchanger	Unit configuration	Fluid	Min [°C]	Max [°C]
Leaving fluid temperature range	Standard unit	Water	4	18
	Hight LWT option	Water	4	30
	Brine option	Glycol Mix	-12	18
Entering fluid temperature range	Standard unit	Water	7	28
	Hight LWT option	Water	7	40
	Brine option	Glycol Mix	-9	28
Entering fluid temperature range at start up	Standard unit	Water	7	40
	Hight LWT option	Water	7	40
	Brine option	Glycol Mix	-9	40
Fluid Temperature difference across evaporator Entering - Leaving	Standard unit	Water	3	10
	Hight LWT option	Water	3	10
	Brine option	Glycol Mix	3	10

For operation below 4°C leaving from evaporator the use of glycol mixture is mandatory.
The values above are intended as guidelines, refer to unit selection on project base for actual values.

Transportation and Storage temperature	Min [°C]	Max [°C]
	-20	56

At Condenser – MCH/Tube and fin Exchanger	Unit configuration	Fluid	Min [°C]	Max [°C]
Operating Ambient Temperature	Standard unit with EC fans	Air	-20	46
	Unit with High Ambient kit (OPT142)	Air	-20	55

The values above are intended as guidelines, refer to unit selection on project base for actual values.

Condenser fans External Static pressure	Unit configuration	Pa
	Standard unit	0

If additional pressure resistance is added on airflow e.g., louvers around the unit or ducts on condenser discharge, the airflow will be affected causing a deration of unit performance. The External Static Pressure where available is referred to the nominal airflow of the standard unit. Refer to chiller selection for airflow information.

Max Operating Pressure on water side	Heat Exchanger	bar
	STD unit – BPHE	10
	STD unit – S&T	10

All above values are intended as guidelines which may change according to specific unit configurations.

8.2 EWFD~TZ D – R134a

At Evaporator – Brazed Plate Heat Exchanger	Unit configuration	Fluid	Min [°C]	Max [°C]
Leaving fluid temperature range	Standard unit	Water	4	18
	Hight LWT option	Water	4	25
	Brine option	Glycol Mix	-12	18
Entering fluid temperature range	Standard unit	Water	7	28
	Hight LWT option	Water	7	35
	Brine option	Glycol Mix	-9	28
Entering fluid temperature range at start up	Standard unit	Water	7	35
	Hight LWT option	Water	7	35
	Brine option	Glycol Mix	-9	35
Fluid Temperature difference across evaporator Entering - Leaving	Standard unit	Water	3	10
	Hight LWT option	Water	3	10
	Brine option	Glycol Mix	3	10

For operation below 4°C leaving from evaporator the use of glycol mixture is mandatory.
The values above are intended as guidelines, refer to unit selection on project base for actual values.

Transportation and Storage temperature	Min [°C]	Max [°C]
	-20	56

At Condenser – MCH/Tube and fin Exchanger	Unit configuration	Fluid	Min [°C]	Max [°C]
Operating Ambient Temperature	Standard unit with EC fans	Air	-20	46
	Unit with High Ambient kit (OPT142)	Air	-20	52

The values above are intended as guidelines, refer to unit selection on project base for actual values.

Condenser fans External Static pressure	Unit configuration	Pa
	Standard unit	0

If additional pressure resistance is added on airflow e.g., louvers around the unit or ducts on condenser discharge, the airflow will be affected causing a deration of unit performance. The External Static Pressure where available is referred to the nominal airflow of the standard unit. Refer to chiller selection for airflow information.

Max Operating Pressure on water side	Heat Exchanger	bar
	STD unit – BPHE	10
	STD unit – S&T	10

All above values are intended as guidelines which may change according to specific unit configurations.

8.3 EWFS~TZ D – R513A

At Evaporator – Brazed Plate Heat Exchanger	Unit configuration	Fluid	Min [°C]	Max [°C]
Leaving fluid temperature range	Standard unit	Water	4	18
	Hight LWT option	Water	4	25
	Brine option	Glycol Mix	-12	18
Entering fluid temperature range	Standard unit	Water	7	28
	Hight LWT option	Water	7	35
	Brine option	Glycol Mix	-9	28
Entering fluid temperature range at start up	Standard unit	Water	7	35
	Hight LWT option	Water	7	35
	Brine option	Glycol Mix	-9	35
Fluid Temperature difference across evaporator Entering - Leaving	Standard unit	Water	3	10
	Hight LWT option	Water	3	10
	Brine option	Glycol Mix	3	10

For operation below 4°C leaving from evaporator the use of glycol mixture is mandatory.
The values above are intended as guidelines, refer to unit selection on project base for actual values.

Transportation and Storage temperature	Min [°C]	Max [°C]
	-20	56

At Condenser – MCH/Tube and fin Exchanger	Unit configuration	Fluid	Min [°C]	Max [°C]
Operating Ambient Temperature	Standard unit with EC fans	Air	-20	42
	Unit with High Ambient kit (OPT142)	Air	-20	46

The values above are intended as guidelines, refer to unit selection on project base for actual values.

Condenser fans External Static pressure	Unit configuration	Pa
	Standard unit	0

If additional pressure resistance is added on airflow e.g., louvers around the unit or ducts on condenser discharge, the airflow will be affected causing a deration of unit performance. The External Static Pressure where available is referred to the nominal airflow of the standard unit. Refer to chiller selection for airflow information.

Max Operating Pressure on water side	Heat Exchanger	bar
	STD unit – BPHE	10
	STD unit – S&T	10

All above values are intended as guidelines which may change according to specific unit configurations.

NOTES

- All data are referred to installation of the unit at sea level. For information on operation of the unit at different altitudes refer to Chiller Selection Software. Contact factory if the unit has to be installed 1000 m above the sea level.
- For installation where ambient can reach temperature below +4°C, freeze protection is mandatory.
- Installation of filter at chiller inlet is mandatory.
- Performance of the unit are available with Water, Ethylene glycol and Propylene glycol. In case different substance is required, contact factory to evaluate compatibility and performances.
- All data and information on unit operation are referred to the unit installed in compliance with Installation requirements (refer to Installation and Operation manual).
- Installation conditions may have impact on the above operating conditions, refer to Daikin representative for confirmation.
- Unit options and/or special execution may affect operating limit. Contact factory for specific information.
- All data and information are subject to change without notice. Always refer to latest information available from factory on project base.

9. Coolant Fluid Quality requirements for microchannel coils

To ensure the long operating lifespan for microchannel free cooling coil, the following conditions for coolant shall be in place:

- PH: Ideal case pH neutral at 20-25°C (7.5 < pH < 8.5)

- Ammonium NH4+< 2 mg/L.

- Cl- chloride ions < 10 mg/L. (water temp. < 65°C)

- Sulfate ions SO4-2 < 30 mg/L.

- Fluoride ions < 0.1 mg/L.

- No Fe2+ and Fe3+ ions if non negligible levels of dissolved oxygen present (>5mg/L) , Fe2+ and Fe3+ ions < 5mg/L if dissolved oxygen < 5mg/L.

- Zn ions is not allowed (ethylene glycol solution application).

- Dissolved silicon < 1mg/L

- Water hardness: > 0.5 mmol/L. Value between 1 and 2.5 mmol/L is recommended.

- Total alkalimetric title (TAC) < 100 mg/L.

- Specific resistance – electric conductivity : > 30 Ohm.m is expected. For electric conductivity value in the order of 20 to 60 mS/m is expected.

Notes:
- Dissolved oxygen: Any sudden change in water oxygenation conditions is not expected.
- The addition of corrosion inhibitor is necessary for ensured coil protection, e.g., those based on monopropylene glycol or sodium molybdate.
- High coolant velocity may lead to corrosion of microchannel tubes. To avoid the issue, it is recommended not to exceed tube side coolant velocity higher than 1.5m/s.
- Filter with > 20 mesh is recommended to prevent the tubes from blocking.

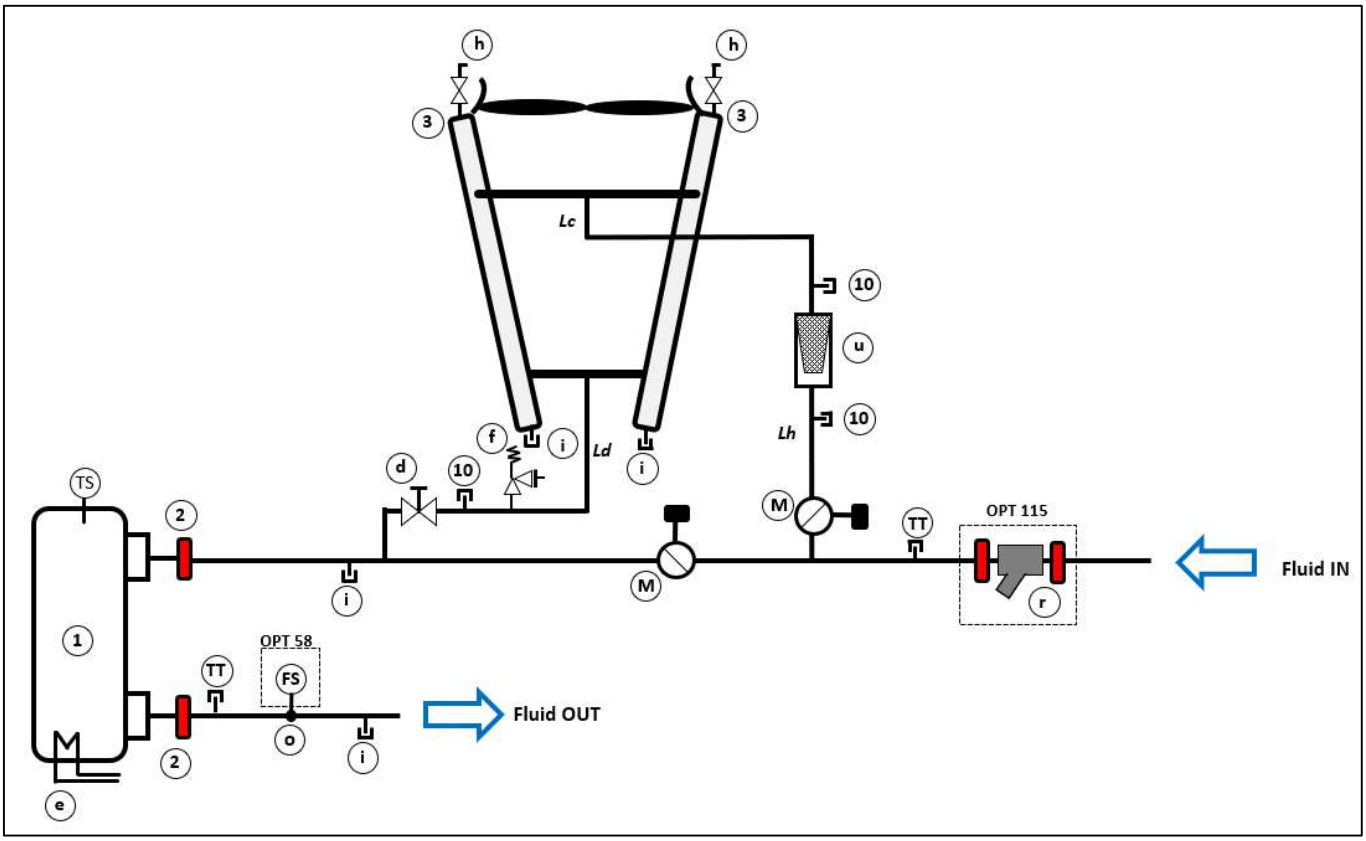
It is important to point out that this coolant requirement is not a guarantee against corrosion but must be considered as a tool to avoid the most critical issue .

10. Water Quality (closed loop version)

Water quality requirements		
	BPHE	S&T
Ph (25 °C)	7.5 – 9.0	6.8 – 8.4
Electrical conductivity [µS/cm] (25°C)	< 500	< 800
Chloride ion [mg Cl^- / l]	< 300	< 150
Sulphate ion [mg SO_4^{2-} / l]	< 100	< 100
Alkalinity [mg $CaCO_3$ / l]	< 200	< 100
Total Hardness [mg $CaCO_3$ / l]	75 ÷ 150	< 200
Iron [mg Fe / l]	< 1	< 0.2
Ammonium ion [mg NH^{4+} / l]	< 2	< 0.5
Silica [mg SiO_2 / l]	< 50	-
Chlorine molecular (mg Cl_2/l)	< 5	< 0.5

The values above are intended as guidelines and not exhaustive for a complete analysis on compatibility with unit component.
All data and information are subject to change without notice. Always refer to latest information available from factory on project base.

11. Hydronic scheme



Legend	
1	**Brazed Plate heat Exchanger – Evaporator**
2	Victaulic connection
3	Free Cooling Heat Exchanger
10	Access fitting ¼" NPT
i	Drain ¼" NPT
o	Flow switch fitting ½"G or 1" G
r	Filter (available as option – OPT115)
e	electric heater
d	Valve
f	Safety valve – 10 bar 1/2" MF
h	Air vent 3/8" NPT
M	Two-way valve with actuator
u	Free cooling exchangers filter
TT	Temperature sensor
TS	Temperature switch
FS	Flow switch
Ld	Coil out - flexible
Lh	Free cooling inlet manifold

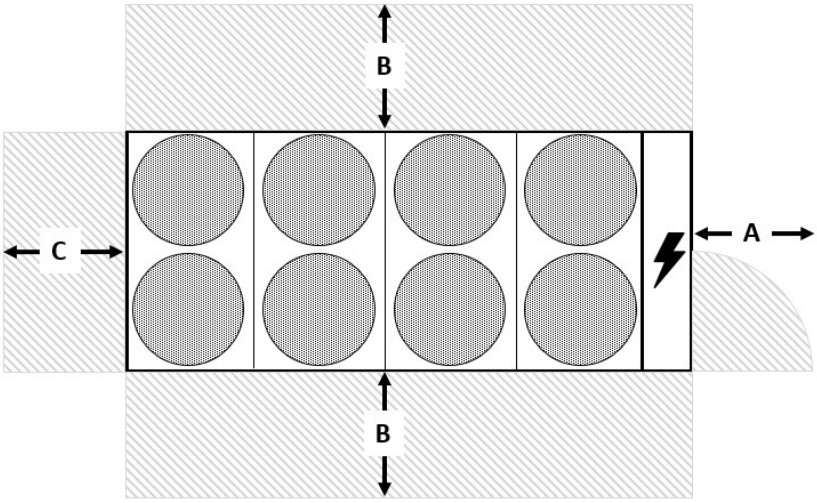
NOTE:
installation of filter and flow switch is mandatory.
Circuit must be protected from freezing.

12. Installation notes

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

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 cabinet.

The units are produced for outdoor 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 leveled; 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 Each side of the unit must be accessible after installation for periodic service.
The following pictures shows you minimum recommended clearance requirements for service activities.

- A at least 1500 mm
- B at least 1800 mm
- C at least 1800 mm for single circuit units
- C at least 3000 mm for dual circuit units

The above values are general guidelines. When consider unit installation is fundamental to consider proper clearances around the unit to perform all possible maintenance activities and replacing of unit's components in respect of safety standard. Deviation from guidelines should be evaluated by local service provider.

Is important also to consider proper space around the unit to prevent/mitigate hot air recirculation. In most of the cases hot air recirculation results in higher temperature entering the condenser affecting the unit performances.
In case of unit to be installed close to a wall with same eight a general rule is to have at least 3 meters between the wall and the unit. If the wall taller than the unit countermeasures could be necessary to mitigate hot air recirculation (see option list and contact Daikin representative to discuss possible solutions).
In case of multiple chillers installed side by side general rule is to have 3,6 meters between each chiller if the installation does not allow for this there are countermeasures could be necessary to mitigate hot air recirculation.
The above are general guidelines and different solutions could be considered based on specific installation constrains.

Refer to Installation and Operation Manual for details on storage, handling, and installation of the unit

13. Technical Specifications

General information

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

- Construction of pressure vessel 2014/68/EU
- Machinery Directive 2006/42/EC
- Low Voltage 2014/35/EU
- Electromagnetic Compatibility 2014/30/EU
- Harmonized standard EN 60204–1 Safety of Machinery
- Manufacturing Quality Standards UNI – UNI EN 14000

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:

HFO	R1234ze
HFO - HFC	R513A
HFC	R134a

Performance

Chiller shall supply the following performances:

Number of Chiller(s)		unit(s)
Fluid		type
Cooling capacity for single chiller		kW
Power input for single chiller		kW
Evaporator Entering Temperature (EET)		°C
Evaporator Leaving Temperature (ELT)		°C
Evaporator Water Flow rate		l/s
Design outdoor temperature		°C
Full Free Cooling temperature		°C
Minimum full load efficiency (EER)		kW/kW
Minimum part load efficiency (SEER)		kW/kW
Minimum part load efficiency (SEPR)		kW/kW
Minimum part load efficiency (IPLV)		kW/kW
Minimum part load efficiency (ESEER)		kW/kW

Operating voltage range should be 400V ±10%, 3ph, 50Hz (or 380V ±10%, 3ph, 60Hz), voltage unbalance maximum 3%, without neutral conductor and shall only have one power connection point.

Unit description

Chiller shall include one or two independent refrigerant circuits, semi-hermetic type rotary single screw compressors, electronic expansion device (EEXV), direct expansion brazed plate heat exchanger evaporator for single circuit and 'shell & tube' evaporator for dual circuit units, air-cooled condenser section made with aluminum Microchannel technology, R1234ze, R-134a, or R513A refrigerant, lubrication system, motor starting components, suction and discharge line shut-off valve, control system and all components necessary for a safe and stable unit operation.

Sound level and vibrations

Sound power level shall not exceed ……dB(A). The sound power levels must be rated in accordance with ISO 9614 (other types of rating cannot be used).

Dimensions

Unit dimensions shall not exceed following indications:

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

Compressors

The unit shall be equipped with a semi-hermetic, single screw type compressor with one main helical rotor (screw) engaging with one or two (depending on the model) gate rotors. The gate rotors shall be made of composite material (used in aerospace industry) to ensure high resistance to the mechanical stress and preventing the risk of "metal to metal" contact. The support of the gate rotor shall be of cast iron.
The compressor shall be provided with integral oil separator and oil filter. The oil injection shall be achieved without external mechanical pump but by means of pressure differential between compressor's suction and discharge. The compressor's oil cooling must be realized, when necessary, by refrigerant liquid injection. External dedicated heat exchanger and additional piping to carry the oil from the compressor to heat exchanger and vice versa will be not accepted. The compressor's oil cooling must be realized, when necessary, by refrigerant liquid injection. External dedicated heat exchanger and additional piping to carry the oil from the compressor to heat exchanger and vice versa will be not accepted. The compressor shall be direct electrical driven, without gear transmission between the screw and the electrical motor. The capacity of the compressor shall be controlled by Variable Frequency Driver. The drive shall be integrated on the compressor frame and cooled by the refrigerant. Other type of cooling system requiring dedicated maintenance activities (e.g., air or water / glycol mixtures) shall not be accepted. The drive casing shall be of UV resistant material and accessible without dismounting the compressor from the unit. Compressor shall be fully field serviceable. Compressor that must be removed and returned to the factory for service shall be unacceptable.

Evaporator

Single circuit units:

The units shall be equipped with a direct expansion plate to plate type evaporator The evaporator will be made of stainless-steel brazed plates and shall be linked with an electrical heater controlled by a thermostat and shall be insulated with flexible, closed cell polyurethaneinsulation material. The water connections shall be VICTAULIC type connections as standard to ensure quickmechanical disconnection between the unit and the hydronic network.
As option flanged connection can be provided.
The evaporator will be manufactured in accordance with PED approval.
Flow switch on evaporator available as option (shipped loose on Modular V)
Water filter on evaporator available as option (shipped loose)

Dual circuit units:
The units shall be equipped with a direct expansion shell & tube evaporator with copper tubes rolled into steel tube sheets.
The external shell shall insulate with flexible, closed cell polyurethane insulation material (20 -mm thick).

- The evaporator will have 2 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.
- Flow switch on evaporator available as option (shipped loose).
- Water filter needs to be provided on the plant.

Condenser Heat Exchanger

Full Aluminum - Microchannel type (standard Configuration)
The condenser is made entirely of aluminum with flat tubes containing small channels. Full - depth louvered aluminum fins are inserted between the tubes maximizing the heat exchange. The Microchannel technology ensures the highest performance with the minimum surface for the exchanger. The quantity of refrigerant is also reduced compared to Tube and fins condenser. Anticorrosion treatments ensure resistance to the corrosion by atmospheric agents extending the lifetime (available on request).

Additional treatments available as option

- **Blue Coat for Microchannel (available as option):**
  Epoxy powder is sprayed and electrostatically fixed to the coil. Once the external surface is completely covered by the epoxy material, the coil is sent into a furnace for the drying and curing phase. The result is a uniform and durable coating on the external surface of the coil that enhance the resistance to the corrosion. The treatment is recommended in all application where moderate risk of corrosion exist (e.g.: light polluted urban and industrial environments).

- **E-coating (available as option):**
  A layer of an epoxy polymer is added on the surface of the exchanger. The process consists in the complete immersion of the exchanger in the epoxy polymer solution. An electric voltage applied to the exchanger causes a difference with the electrical charge of the polymer molecules that, as result, are drawn to the metal. The thickness of the coating is controlled by the applied voltage. The result is a uniform layer of epoxy polymers applied all over the exchanger surface. A final UV top-coat treatment is applied on the coil surface.

  The heat exchanger provided with e-coating shall Pass 3000 hours in SWAAT test according to ASTM G85 Annex 3 without leakage.

Condenser

The condenser fans used in conjunction with the condenser coils, shall be propeller 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 AC or EC type (depending on model and option selected). Fan shall be rated IP55.
The condenser fans shall have as a standard a thermally protection by internal thermal motor.

Free Cooling circuit

The free cooling circuit is integrated in the chiller footprint. Pipes are made of steel with integrated filter for free cooling circuit. Motorized valves managed by unit control send the fluid to the evaporator or to free cooling exchanger first based on the operating conditions.

Standard unit is with “open loop” configuration meaning that the fluid from the system is sent directly in the free cooling heat exchanger. Fluid must be a brine mixture to prevent freeze and burst when temperature is equal or lower than 4°C. As option the unit can be provided with “closed loop” configuration. In this configuration a closed loop is created between the free cooling heat exchanger and an additional brazed plate heat exchanger with a circulating pump. Fluid in the closed loop is with glycol. The fluid returning from the system is chilled by the glycol coming from the free cooling exchanger in the intermediate heat exchanger. The glycol is confined in the closed loop and the fluid in the system can be pure water or lower concentration of glycol.

Refrigerant circuit

The unit shall have one or two independent refrigerant circuits.

The circuit shall include as standard: electronic expansion device controlled by unit’s microprocessor control, liquid line shut-off valve, sight glass with moisture indicator, 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 (SPEEDTROL) which ensures the working at low external temperatures down to -20°C (operation down to -30°C on request)

The unit 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.

The compressor shall be connected to unit’s metal base frame by rubber anti vibration supports to prevent the transmission of vibrations to all metal unit structure, to limit the unit noise emissions.

The chiller shall be provided with an acoustical compressor enclosure (available as option on specific version). This enclosure shall be realized with a light, corrosion resisting aluminum structure and metal panels. The compressor sound-proof enclosure (available as option) shall be internally fitted with flexible, multi-layer, high density materials.

Rapid Restart (available as option)

When unit is equipped with rapid restart, unit controller is powered by UPS unit. In case of power failure UPS unit keeps unit controller powered for 180 sec. When power is restored within that period unit start compressor within 30 seconds and reach full capacity within 180 seconds.

Master/Slave

The unit shell be able to operate in Master / Slave mode to be connected with another similar unit (up to 4), The master unit shall manage the slave units connected in series on the hydraulic plant with the aim of balancing compressors running hours and the load between of the units.

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 against possible accidental contact with live parts.

The main panel shall be fitted with a main switch interlocked door that shuts off power supply when opening.

The power section will include compressors and fans starter devices.

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 A mobile App HMI (Daikin mAP) will show chiller operating status plus temperatures and pressures of water, refrigerant and air, programmable values and set points. With Daikin mAP it is possible to access to unit documentation, spare parts list and making live Trend of unit operating values.
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 maximize chiller energy efficiency and reliability.
The controller will be able to protect critical components based on external signals received from the unit itself (such as motor temperatures, refrigerant gas and oil pressures, correct phase sequence, pressure switches and evaporator flow switch). The input coming from the high-pressure switch cuts all digital output from the controller in less than 50ms, this will be an additional safety for the equipment.
Floating point calculations supported for increased accuracy in P/T conversions.

Controller features

Controller shall be guarantee following minimum functions:

Management of the compressors,
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
- Compressor and evaporator pumps hours counter
- Display of Status Safety Devices
- Number of starts and compressor working hours.
- Optimized management of unit load
- Fan management according to condensing pressure
- Re-start in case of power failure (automatic / manual)
- Soft Load (optimized management of the unit 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) set-point reset.

Set point Reset from external signal (optional)
Application and system upgrade with commercial SD cards
Ethernet port for remote or local servicing using standard web browsers.

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:

- Modbus RTU
- BACnet BTP certified over IP

Performance monitoring (available as option)

Unit shall be capable of providing both instantaneous and integrated information of Capacity, Power Absorption and Efficiency. This information shall be accessible from unit controller with mobile App and remotely via communication protocol (Modbus, BACnet)

Integrated Active Harmonic Filter – iAHF (available as option)

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