

Air Cooled Screw Chiller

STURDY SERIES

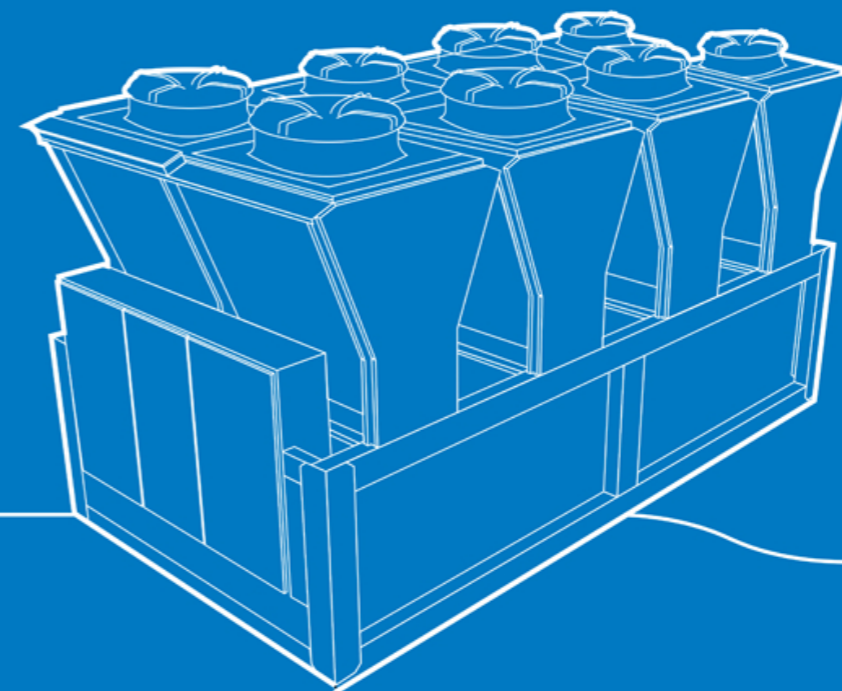
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AIR COOLED SCREW CHILLER
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INTRODUCTION

Arvand ACW chillers are manufactured to the highest design and construction standards to ensure high performance, reliability and adaptability to all types of air conditioning installations. Units are compact and highly configurable, built to fit different types of plants so to meet the needs of highly qualified engineers.

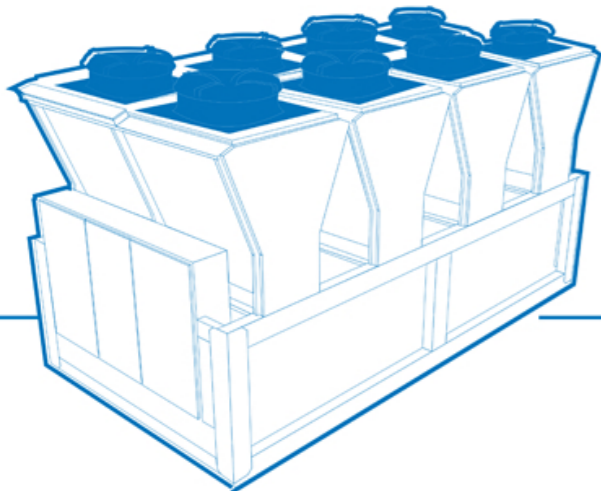
Units are water chillers condensed in air with axial fans suitable for outdoor installation, the structure and panels are robust, made of galvanized and painted steel, all fasteners are made of stainless steel or galvanized steel, the frame containing the electrical equipment and all the components exposed to weather have a minimum IP54 degree of protection. This series is composed of 60 models with standard noise level with nominal cooling capacity from 100 to 1540 kW and 60 models with low noise level with nominal capacity from 100 to 1395 kw.

The units produce cold water from 5 to 10°C and as standard they are equipped with continuous adjustment of axial fans rotating speed in order to allow the units to operate with low outdoor temperature in cooling mode as well as to reduce noise emissions.

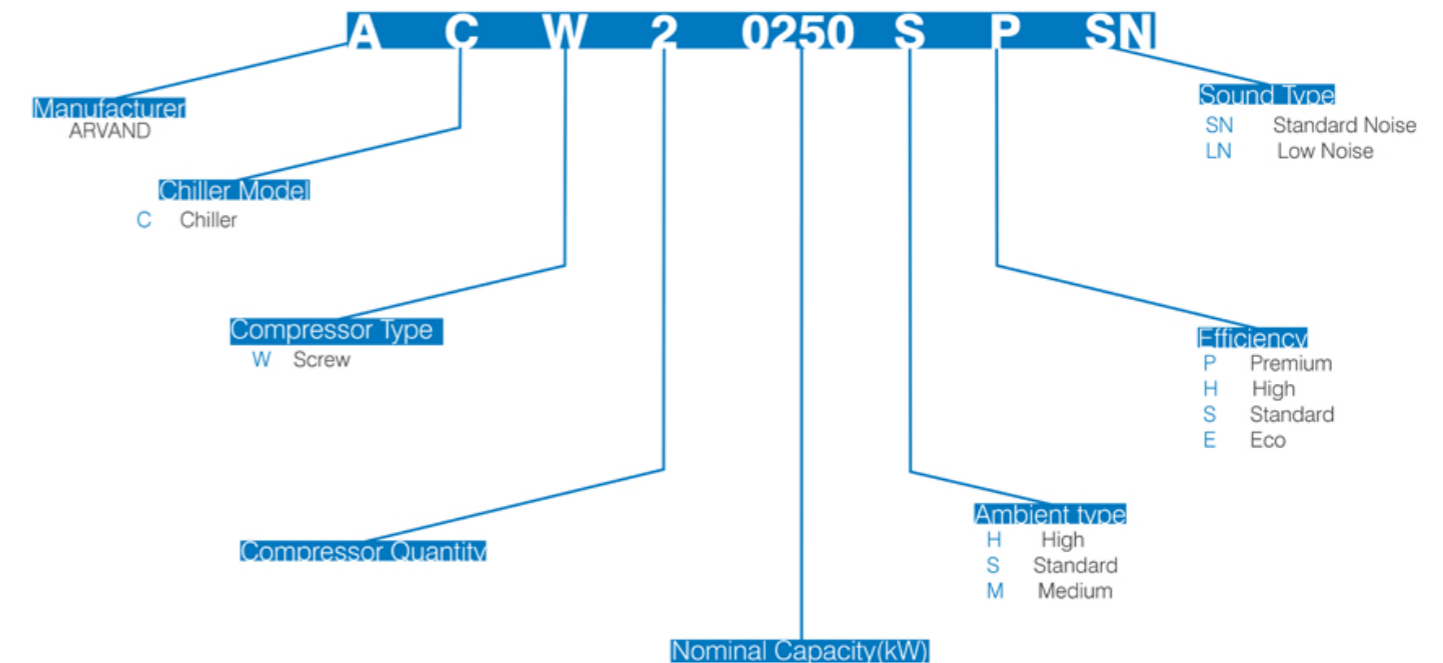
All the units are equipped with 1, 2 or 3 screw compressors arranged in 1, 2 or 3 circuit operating with environmental friendly gas R134a.

The high efficient DX evaporator is shell and tube type heat exchanger completely insulated.

The Condenser coil heat exchanger made of V-Waffles coated aluminum or copper fins (upon request) and copper tubes. axial fans with profiled blades to contain noise with thermal protection built-in and electrical control panel equipped with control system to manage the main functions.



NOMENCLATURE



The ACW units are of the most affordable air-cooled chillers to operate and maintain. The chiller offers full load EER (Energy Efficiency Ratio) up to 3.5. The use of high efficiency compressors and heat exchangers with innovative design have made ACW units high efficient in the most severe weather conditions.

Standard Ambient Temperature Version

This version of ACW units is designed for mild climates and have the lowest price between all units. Standard Ambient version units have the ability of operating in full load mode in the ambient temperature up to 46 °C. These versions of chillers are the best choice for the application that need to operate chiller in year-round and the unit has to work in temperature down to -20 °C (receiver have to install).

High Ambient Temperature Version

This version of ACW units is designed to work in high ambient climates and also have the ability of operating in year-round applications. High Ambient version units have the ability of operating in full load mode in the ambient temperature up to 50 °C. This version of chillers is the best choice for hot and tropical climates and regions that the temperature difference between day and night is high.

Low Noise Version

This version of ACW units is designed for sound sensitive applications. With reduction in fan speed, air flow rate on condenser coils will decrease, so the maximum ambient temperature in which the unit has the ability of working in full load, will decrease. Standard Ambient – Standard Noise models with reduction in fan speed convert to Low Noise models. These models keep 46 as maximum ambient temperature. Low sound type (LN) includes compressor enclosure (silencer box) and also operates with fans speed 150 rpm lower than standard noise type (SN). This makes them suitable for application including hospitals, schools and other sites located in residential neighborhoods. In part load operation, such as colder weather or night time duty, fans operate in lower speed. This results in even quieter operation.

In all "Low Noise" models "Maximum Ambient Temperature (MAT)" parameter shows maximum ambient temperature in which the units could be operating in low noise mode. Above this temperature the unit will work on "Standard Noise" mode.

Medium Ambient Temperature Version

This version of ACW units is available just in Low Noise types. Maximum ambient temperature which this units have the ability to run in full load and low noise mode is 43 °C, above that units will operate in Standard Noise mode.

Environmentally balanced

R-134a is a safe, non-toxic, efficient and environmentally Balanced refrigerant. Based on ASHRAE Standard 34-1992, R-134a is classified as an A1 (non-toxic and inflammable) refrigerant.

Standard Features

- All models use multiple BITZER easy-to-service Screw compressors.
- Controller manages the capacity of each compressor. Each compressor could operate in 4 step, 25%, 50%, 75% and 100%.
- On units with two or three compressors, Controller manages rotation in order to balance compressor operating hours and starts, so as to best deliver the required capacity.
- Easily accessible system components.
- Easy access to power and control panels.
- Heavy duty mounting chassis for the whole unit with lifting lugs.
- 3Phase control to protect the unit that install on input main power that operates in low or over voltage times.
- Internal crank case heaters prevent liquid refrigerant from accumulating in the compressors when the unit is shut down.
- High- and low-pressure switches, control discharge pressure and suction side pressure and cut-off compressors running when these pressures exceed the limits.
- Control panel that enables the operator to control and diagnoses malfunction of all controllers and compressors with thermo meter to indicate inlet and outlet chilled water temperature.

- Part winding starting for all 1-compressor models below size 330 and 2-compressors models below size 650. Star delta starting for units over size of 330 for 1-compressor models and 650 for 2-compressors models.
- One power supply entry
- After rigging the unit in its required location, installation of chiller is completed by simple connection of the power supply and water connection.
- Anti-vibration mounting for compressor
- Chilled water pump(s) and water flow switch interlock for electrical terminal field connection
- Capacity control stages through compressor unloading for superior part load performance.
- Heavy structure unit and weather proof paint polyester, powder paint for sheet metal and epoxy coating for base frame.
- IP54 power and control panel
- Anti-freeze protection that protects the evaporator from freezing and also protect compressors from slugging and flooding start.

Application Considerations

Accessing the unit

The access to the unit must be granted exclusively to qualified personnel trained to operate on this type of units and provided with the necessary protection equipment.

Important

Certain application constraints should be considered when sizing, selecting and installing ACW air-cooled chillers. Unit and system reliability are often dependent upon proper and complete compliance with these considerations.

Unit Sizing

Unit capacities are listed in the performance data section. Intentionally over sizing a unit to assure adequate capacity is not recommended. Erratic system operation and excessive compressor cycling are often a direct result of an oversized chiller. In addition, an oversized unit is usually more expensive to purchase, install, and operate. If over sizing is desired, consider using multiple units

Water Treatment

However, in designing ACW units the effect of fouling thermal resistance is considered but dirt, scale, products of corrosion and other foreign material will adversely affect heat transfer between the water and system components. Polluted chilled water in system gets more pressure drop than pure water and consequently, reduce water flow. Neither salt nor brackish water is recommended for use in ACW air-cooled chillers. Use of either will lead to a shortened life to an indeterminable degree.

Effect of Altitude

The performance data of chillers which tabled, are chillers operation in sea level. Increasing the altitude reduces the density of the air and thereby reduce the condenser capacity, which lead to decrease unit capacity and efficiency. In Appendix Table A-2 the effect of elevation mentioned as a multiplier.

Leaving Chilled Water Temperature

The chillers are rated as standard base on 7- 12°C Leaving - entering water temperature and 35°C ambient temperature. The performance data of the units are presented for customers based on 5 to 10°C range of leaving water temperatures and 30 to 52°C ambient temperatures. When the outlet water temperature decreases below 5°C, antifreeze will be activated and compressor(s) will be unloaded. Ethylene glycol is recommended to prevent freezing, if the customer needs are below the range of performance data table.

Water flow rate

Maximum and minimum water flow rates are determiner of minimum and maximum allowable temperature drop in evaporator, if the flow rate or temperature drop does not meet customer demand, a mixing loop is required like what is showed in the following picture.

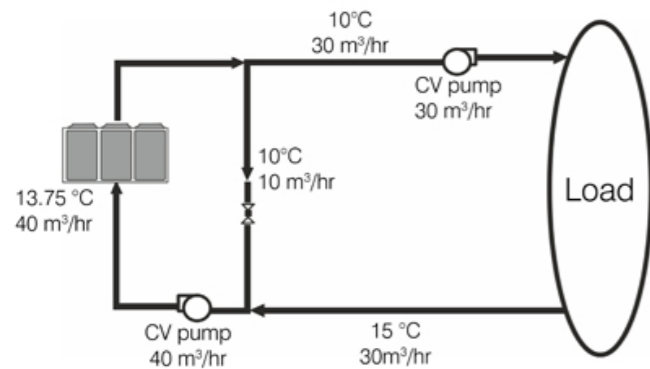


Figure 1 flow rate out of range

Leaving water temperature

If the Leaving Water Temperature (LWT) requirement is greater than 15 °C, a mixing loop is required like what is showed in the following picture.

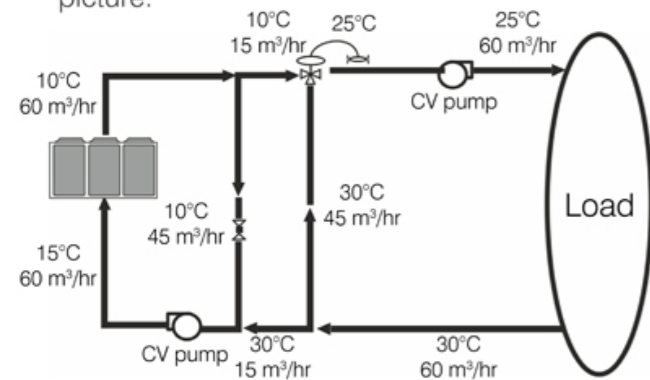


Figure 2 leaving water temperature out of range

Chilled Liquid Piping

All building water piping must be flushed prior to making the final connections to the chiller. To reduce heat loss and prevent condensation, insulation should be installed. Expansion tanks are also usually required so that chilled water volume changes can be accommodated.

The chilled liquid piping system must be laid out so that the circulating pump discharges directly into the cooler. The inlet and outlet chilled liquid connections are given in Technical Data. It is recommended to drain the circulation water circuit in out of operating season. If not able to drain, you should add the ethylene glycol with proper concentration to hydraulic circuit to protect against freeze up during low ambient periods.

Typical Unit Installation

It is recommended to install unit away from sound sensitive areas of the building or away windows. When physically isolating the unit from structures, it is a good idea to not use rigid supports, and to eliminate any metal-to-metal or hard material contact, when possible. This includes replacing spring or metal weave isolation with elastomeric isolators.

Pollution

The unit contains refrigerant gas and lubricating oil. During discarding such fluids must be recovered and eliminated according to the regulations in force in the country where the unit is installed. The unit must not be abandoned during discarding.

Foundation

Mount the unit on a level concrete foundation. Floors must be strong enough to support the unit operating weight. If necessary, use structural supports to transfer the weight of the unit to the nearest beams

Compressor

The very well-known European brand compressor designed for air conditioning by means of air-cooled liquid chillers in moderate condition. Using 4 step screw compressor capacity accompanied by controlling fan speed causes the series to become more compatible with different load condition during the application time (Partial Load Time).

REFRIGERANT CIRCUIT

Each compressor operates on an independent copper tubing refrigerant circuit. Refrigerant circuit components include the following, one each per circuit:

- Electronic expansion valve.
- Sight glass with moisture indicator.
- Shell and core filter-drier with high absorption removable core and charging port.
- Service valve on liquid line, gas discharge and suction line.
- Safety valve on high-pressure side.
- High pressure safety switch with manual reset.
- Low pressure safety switch with auto reset.
- Refrigerant circuit with copper tubing with anticondensate insulation of the suction line.
- Robust plastic capillary hoses for pressure sensors connection.

Condenser and fans

The condenser constructed with seamless inner-grooved copper tubes expanded into die-formed aluminum V-Waffle fins in staggered configuration. Coils are designed in "V" type to increase condensing surface area to maximized heat rejection.

The design working pressure is 450psig (31 bar).

"V" coils arrangement with internal baffle for fan cycling and staging.

Direct drive vertical discharge condenser fans are dynamically balanced. Three-phase condenser fan motors with permanently lubricated ball bearings and internal thermal overload protection are provided.

Evaporator

The evaporator is of the dry expansion shell and tube type with one, two or three independent refrigerant circuits and a single water circuit. The refrigerant flows inside the inner grooved copper tubes which increase exchange efficiency, while the water, which is oriented by baffles, flows over the outside of the tubes.

It is insulated with a 12-19 mm thick closed cell EPDM foam material.

Removable heads on the cooler allow access to internally-enhanced, seamless, copper tubes. Water vent and drain connections included.

ELECTRICAL PANEL

The electrical board is located in a metal case arranged outside the unit. The metal case has an IP54 protection rating and for force air ventilation a fan has located in the bottom of section and a filter in the top. In accordance with EN60204-1 norms, suitable for outdoor installation, complete with:

- Main switch.
- MCCB Circuit breaker for each Compressor and fan.
- Contactors for each load.
- Transformer for auxiliary circuit and Programable Controller supply.
- Power supply: 400/3/50.

Unit Controls

The microprocessor-based control panel is factory-installed and factory-tested. The control system is powered by a pre-wired control power supply, and will turn on, turn off and unload compressors in 4 steps to meet the load.

The panel includes machine protection for the following conditions:

- Low evaporator refrigerant temperature and pressure
- High condenser refrigerant pressure
- High compressor discharge temperature (with low temp evaporator)
- Electrical distribution faults: phase loss, phase reversal or over temperature protection
- External and local emergency stop
- Loss of evaporator water flow

Protective grilles

To protect condenser coil, evaporator and compressor from unauthorized access.

Flow switch

Paddle flow switch on the water circuit to avoid the risk of freezing if the water flow is shut off for some reason.

Compressor

All standard units' compressors are Bitzer M2 version except ACW31250HSSN, ACW31455HSSN, ACW31210SELN, ACW31395SELN. Hanbell compressors and Bitzer M1 versions are available for all models.

Condenser Coil – Anti Corrosion Coating

Our standard coils are constructed with Aluminum fins (This is not recommended for units in areas where they maybe exposed to acid rain). In Harsh and Corrosive environments like oil Field and coast area application, copper fin with Heresite or Alcotherm Bly-Gold or Thermo Guard coating uses to protect air cooled heat exchangers.

Low Ambient Kit

The Standard Units will operate to minimum 10 °C. This accessory includes all necessary components to permit chiller operation down to -15 °C. Liquid receiver-heatexchanger and variable fan speed drive will necessarily install in unit.

Low Noise Fan

Incorporate low noise fans to reduce unit sound level.

BMS System

BACnet/Modbus translator control provides an interface between the chiller and a BACnet Local Area Network (LAN, i.e., MS/TP EIA-485). The BACnet/Modbus Translator control is also available as a factory-installed option. Field programming is required

Compressor Sound Insulator

This option includes acoustical treatment for compressors.

Vibration Isolators

Level adjusting, spring type 1" (25.4mm) or seismic deflection or neoprene pad isolators for mounting under unit base rails.

Standard Noise, Standard Ambient Temperature, 46°C, 1-Compressor Units

| Refrigerant R-134a | | | | | | | | | | |
|---|---------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit ACW1.....SN | | 0100SS | 0110SS | 0130SS | 0150SS | 0185SS | 0215SS | 0245SS | 0280SS | 0310SS |
| Performance data | | | | | | | | | | |
| Cooling Capacity | kW | 100 | 112 | 132 | 152 | 184 | 214 | 245 | 280 | 312 |
| Total Power Input | kW | 32 | 36 | 44 | 50 | 63 | 69 | 81 | 91 | 104 |
| EER | kW/kW | 3.10 | 3.08 | 2.98 | 3.06 | 2.94 | 3.08 | 3.03 | 3.09 | 3.00 |
| Energy Class | - | B | B | B | B | B | B | B | B | B |
| General Unit Data | | | | | | | | | | |
| Independent Refrigerant Circuits Quantity | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant Charge | kg | 40 | 46 | 54 | 63 | 78 | 89 | 104 | 117 | 133 |
| Oil Charge | Liters | 10 | 10 | 15 | 15 | 22 | 22 | 22 | 19 | 19 |
| Compressors Qty per Chiller | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Condensers, High Efficiency Fin/Tube with Integral Subcooler | | | | | | | | | | |
| Number of Rows | - | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 4 | 3 |
| Fins per inch | - | 12 | | | | | | | | |
| Condenser Fans | | | | | | | | | | |
| Type | - | Axial | | | | | | | | |
| Number | - | 2 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 5 |
| Fan Motor | kW | 1.94 | | | | | | | | |
| Fan & Motor Speed | RPM | 900 | | | | | | | | |
| Fan Diameter | mm | 800 | | | | | | | | |
| Evaporator, Direct Expansion | | | | | | | | | | |
| Type | | Shell & Tube | | | | | | | | |
| Water Flow Rate | m3/hr | 17.2 | 19.2 | 22.6 | 26.0 | 31.6 | 36.6 | 42.1 | 48.0 | 53.5 |
| Cooler pressure drop | kpa | 4 | 5 | 14 | 18 | 23 | 31 | 25 | 14 | 18 |
| Maximum Water Side Pressure | Bar | 10 | | | | | | | | |
| Maximum Refrigerant Side Pressure | Bar | 19 | | | | | | | | |
| Maximum Chilled Water Flow Rate | m3/hr | 20.2 | 22.5 | 26.6 | 30.7 | 37.0 | 42.8 | 49.2 | 56.0 | 62.5 |
| Minimum Chilled Water Flow Rate | m3/hr | 13.8 | 15.3 | 17.7 | 20.5 | 25.3 | 29.5 | 33.5 | 38.4 | 42.9 |
| Nominal Water Connection Size | Inches | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 |
| Electrical | | | | | | | | | | |
| Power Supply | V/Ph/Hz | 380~420/3/50 | | | | | | | | |
| Dimension & Weight | | | | | | | | | | |
| Length | mm | 3100 | 3100 | 3100 | 3100 | 3100 | 3100 | 3100 | 3100 | 4000 |
| Width | mm | 1300 | 1300 | 1300 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |
| Height | mm | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 |
| Weight | kg | 1661 | 1718 | 1929 | 2220 | 2590 | 2723 | 2828 | 3117 | 3587 |

- Data referred to the following conditions:
 - Ambient air temperature 35 °C
 - Evaporator water inlet-outlet temperature 12~7 °C

Standard Noise, Standard Ambient Temperature, 46°C, 2-Compressor Units

| Refrigerant R-134a | | | | | | | | | | | |
|---|---------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit ACW2.....SN | | 0205SH | 0230SH | 0250SE | 0295SE | 0335SS | 0375SH | 0400SS | 0425SS | 0480SH | 0500SS |
| Performance data | | | | | | | | | | | |
| Cooling Capacity | kW | 204 | 228 | 252 | 296 | 336 | 377 | 398 | 427 | 480 | 498 |
| Total Power Input | kW | 65 | 73 | 91 | 103 | 112 | 121 | 132 | 139 | 147 | 163 |
| EER | kW/kW | 3.14 | 3.12 | 2.78 | 2.86 | 3.00 | 3.11 | 3.02 | 3.08 | 3.27 | 3.06 |
| Energy Class | - | A | A | C | C | B | A | B | B | A | B |
| General Unit Data | | | | | | | | | | | |
| Independent Refrigerant Circuits Quantity | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant Charge | kg | 82 | 92 | 104 | 121 | 138 | 154 | 164 | 174 | 195 | 205 |
| Oil Charge | Liters | 19 | 19 | 30 | 30 | 37 | 44 | 44 | 44 | 44 | 44 |
| Compressors Qty per Chiller | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Condensers, High Efficiency Fin/Tube with Integral Subcooler | | | | | | | | | | | |
| Number of Rows | - | 3 | 3 | 3 | 4 | 3 | 4 | 3 | 3 | 4 | 3 |
| Fins per inch | - | 12 | | | | | | | | | |
| Condenser Fans | | | | | | | | | | | |
| Type | - | Axial | | | | | | | | | |
| Number | - | 4 | 4 | 4 | 4 | 6 | 6 | 7 | 8 | 8 | 8 |
| Fan Motor | kW | 1.94 | | | | | | | | | |
| Fan & Motor Speed | RPM | 900 | | | | | | | | | |
| Fan Diameter | mm | 800 | | | | | | | | | |
| Evaporator, Direct Expansion | | | | | | | | | | | |
| Type | | Shell & Tube | | | | | | | | | |
| Water Flow Rate | m3/hr | 35.1 | 39.2 | 43.2 | 50.7 | 57.6 | 64.6 | 68.3 | 73.2 | 82.3 | 85.4 |
| Cooler pressure drop | kpa | 18 | 22 | 27 | 16 | 20 | 31 | 35 | 40 | 44 | 47 |
| Maximum Water Side Pressure | Bar | 10 | | | | | | | | | |
| Maximum Refrigerant Side Pressure | Bar | 19 | | | | | | | | | |
| Maximum Chilled Water Flow Rate | m3/hr | 41.0 | 45.8 | 50.9 | 59.7 | 67.5 | 75.4 | 79.7 | 85.4 | 96.0 | 99.7 |
| Minimum Chilled Water Flow Rate | m3/hr | 28.0 | 31.2 | 33.8 | 39.7 | 45.9 | 52.1 | 55.0 | 59.1 | 66.1 | 68.1 |
| Nominal Water Connection Size | Inches | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Electrical | | | | | | | | | | | |
| Power Supply | V/Ph/Hz | 380~420/3/50 | | | | | | | | | |
| Dimension & Weight | | | | | | | | | | | |
| Length | mm | 3100 | 3100 | 3100 | 3100 | 4000 | 4000 | 5200 | 5200 | 5200 | 5200 |
| Width | mm | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |
| Height | mm | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 |
| Weight | kg | 2594 | 2706 | 3008 | 3301 | 4199 | 4729 | 4980 | 5112 | 5555 | 5363 |

- Data referred to the following conditions:
 - Ambient air temperature 35 °C
 - Evaporator water inlet-outlet temperature 12~7 °C

Standard Noise, Standard Ambient Temperature, 46°C, 2-Compressor Units

| Refrigerant R-134a | | | | | | | | | |
|---|---------|--------------|--------|--------|--------|--------|--------|--------|--------|
| Unit ACW2.....SN | | 0565SH | 0620SS | 0710SH | 0760SH | 0830SP | 0870SH | 1035SP | 1085SH |
| Performance data | | | | | | | | | |
| Cooling Capacity | kW | 563 | 619 | 712 | 758 | 832 | 871 | 1035 | 1086 |
| Total Power Input | kW | 180 | 208 | 216 | 235 | 250 | 271 | 308 | 331 |
| EER | kW/kW | 3.13 | 2.98 | 3.29 | 3.23 | 3.33 | 3.21 | 3.36 | 3.28 |
| Energy Class | - | A | B | A | A | AA | A | AA | A |
| General Unit Data | | | | | | | | | |
| Independent Refrigerant Circuits Quantity | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant Charge | kg | 233 | 258 | 290 | 309 | 344 | 368 | 430 | 452 |
| Oil Charge | Liters | 38 | 38 | 49 | 60 | 60 | 60 | 60 | 60 |
| Compressors Qty per Chiller | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Condensers, High Efficiency Fin/Tube with Integral Subcooler | | | | | | | | | |
| Number of Rows | - | 3 | 3 | 4 | 4 | 4 | 3 | 4 | 4 |
| Fins per inch | - | 12 | | | | | | | |
| Condenser Fans | | | | | | | | | |
| Type | - | Axial | | | | | | | |
| Number | - | 10 | 10 | 12 | 12 | 13 | 14 | 16 | 16 |
| Fan Motor | kW | 1.94 | | | | | | | |
| Fan & Motor Speed | RPM | 900 | | | | | | | |
| Fan Diameter | mm | 800 | | | | | | | |
| Evaporator, Direct Expansion | | | | | | | | | |
| Type | | Shell & Tube | | | | | | | |
| Water Flow Rate | m3/hr | 96.5 | 106.1 | 122.0 | 129.9 | 142.7 | 149.3 | 177.5 | 186.2 |
| Cooler pressure drop | kpa | 44 | 52 | 55 | 62 | 58 | 63 | 58 | 63 |
| Maximum Water Side Pressure | Bar | 10 | | | | | | | |
| Maximum Refrigerant Side Pressure | Bar | 19 | | | | | | | |
| Maximum Chilled Water Flow Rate | m3/hr | 112.6 | 123.6 | 142.5 | 151.6 | 166.5 | 174.1 | 206.1 | 215.8 |
| Minimum Chilled Water Flow Rate | m3/hr | 77.6 | 85.3 | 98.0 | 103.9 | 114.3 | 119.8 | 144.8 | 152.0 |
| Nominal Water Connection Size | Inches | 5 | 5 | 6 | 6 | 6 | 6 | 8 | 8 |
| Electrical | | | | | | | | | |
| Power Supply | V/Ph/Hz | 380~420/3/50 | | | | | | | |
| Dimension & Weight | | | | | | | | | |
| Length | mm | 6400 | 6400 | 7600 | 7600 | 8900 | 8900 | 10100 | 10100 |
| Width | mm | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |
| Height | mm | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2900 | 2900 |
| Weight | kg | 6275 | 6320 | 7820 | 8249 | 9014 | 8827 | 10325 | 10377 |

- Data referred to the following conditions:
 - Ambient air temperature 35 °C
 - Evaporator water inlet-outlet temperature 12~7 °C

Standard Noise, Standard Ambient Temperature, 46°C, 3-Compressor Units

| Refrigerant R-134a | | | | | | | | | | |
|---|---------|--------------|--------|--|--|--|--|--|--|--|
| Unit ACW3.....SN | | 1510SH | 1540SP | | | | | | | |
| Performance data | | | | | | | | | | |
| Cooling Capacity | kW | 1511 | 1538 | | | | | | | |
| Total Power Input | kW | 472 | 461 | | | | | | | |
| EER | kW/kW | 3.20 | 3.34 | | | | | | | |
| Energy Class | - | A | AA | | | | | | | |
| General Unit Data | | | | | | | | | | |
| Independent Refrigerant Circuits Quantity | - | 3 | 3 | | | | | | | |
| Refrigerant Charge | kg | 622 | 628 | | | | | | | |
| Oil Charge | Liters | 90 | 90 | | | | | | | |
| Compressors Qty per Chiller | - | 3 | 3 | | | | | | | |
| Condensers, High Efficiency Fin/Tube with Integral Subcooler | | | | | | | | | | |
| Number of Rows | - | 4 | 4 | | | | | | | |
| Fins per inch | - | 12 | | | | | | | | |
| Condenser Fans | | | | | | | | | | |
| Type | - | Axial | | | | | | | | |
| Number | - | 21 | 24 | | | | | | | |
| Fan Motor | kW | 1.94 | | | | | | | | |
| Fan & Motor Speed | RPM | 900 | | | | | | | | |
| Fan Diameter | mm | 800 | | | | | | | | |
| Evaporator, Direct Expansion | | | | | | | | | | |
| Type | | Shell & Tube | | | | | | | | |
| Water Flow Rate | m³/hr | 259.0 | 263.7 | | | | | | | |
| Cooler pressure drop | kpa | 68 | 70 | | | | | | | |
| Maximum Water Side Pressure | Bar | 10 | | | | | | | | |
| Maximum Refrigerant Side Pressure | Bar | 19 | | | | | | | | |
| Maximum Chilled Water Flow Rate | m³/hr | 298.4 | 303.5 | | | | | | | |
| Minimum Chilled Water Flow Rate | m³/hr | 211.3 | 215.8 | | | | | | | |
| Nominal Water Connection Size | Inches | 10 | 10 | | | | | | | |
| Electrical | | | | | | | | | | |
| Power Supply | V/Ph/Hz | 380~420/3/50 | | | | | | | | |
| Dimension & Weight | | | | | | | | | | |
| Length | mm | 13700 | 14900 | | | | | | | |
| Width | mm | 2500 | 2500 | | | | | | | |
| Height | mm | 2900 | 2900 | | | | | | | |
| Weight | kg | 14267 | 14848 | | | | | | | |

- Data referred to the following conditions:
 - Ambient air temperature 35 °C
 - Evaporator water inlet-outlet temperature 12~7 °C

Standard Noise, High Ambient Temperature, 50°C, 1-Compressor Units

| Refrigerant R-134a | | | | | | | | | | |
|---|---------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit ACW1.....SN | | 0100HH | 0115HH | 0135HH | 0155HH | 0190HH | 0215HH | 0255HH | 0290HH | 0325HP |
| Performance data | | | | | | | | | | |
| Cooling Capacity | kW | 102 | 114 | 137 | 155 | 191 | 217 | 253 | 290 | 326 |
| Total Power Input | kW | 32 | 35 | 43 | 48 | 60 | 67 | 79 | 88 | 98 |
| EER | kW/kW | 3.23 | 3.23 | 3.15 | 3.21 | 3.17 | 3.23 | 3.23 | 3.28 | 3.32 |
| Energy Class | - | A | A | A | A | A | A | A | A | AA |
| General Unit Data | | | | | | | | | | |
| Independent Refrigerant Circuits Quantity | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant Charge | kg | 41 | 46 | 56 | 64 | 79 | 90 | 108 | 122 | 137 |
| Oil Charge | Liters | 10 | 10 | 15 | 15 | 22 | 22 | 22 | 19 | 19 |
| Compressors Qty per Chiller | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Condensers, High Efficiency Fin/Tube with Integral Subcooler | | | | | | | | | | |
| Number of Rows | - | 4 | 4 | 3 | 4 | 3 | 4 | 3 | 3 | 4 |
| Fins per inch | - | 12 | | | | | | | | |
| Condenser Fans | | | | | | | | | | |
| Type | - | Axial | | | | | | | | |
| Number | - | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 6 | 6 |
| Fan Motor | kW | 1.94 | | | | | | | | |
| Fan & Motor Speed | RPM | 900 | | | | | | | | |
| Fan Diameter | mm | 800 | | | | | | | | |
| Evaporator, Direct Expansion | | | | | | | | | | |
| Type | | Shell & Tube | | | | | | | | |
| Water Flow Rate | m³/hr | 17.5 | 19.6 | 23.4 | 26.5 | 32.8 | 37.3 | 43.4 | 49.7 | 55.9 |
| Cooler pressure drop | kpa | 4 | 5 | 15 | 19 | 25 | 32 | 27 | 15 | 19 |
| Maximum Water Side Pressure | Bar | 10 | | | | | | | | |
| Maximum Refrigerant Side Pressure | Bar | 19 | | | | | | | | |
| Maximum Chilled Water Flow Rate | m³/hr | 20.5 | 22.9 | 27.6 | 31.3 | 38.3 | 43.5 | 50.8 | 58.1 | 65.3 |
| Minimum Chilled Water Flow Rate | m³/hr | 13.2 | 14.7 | 17.2 | 19.6 | 24.9 | 28.4 | 32.6 | 37.5 | 42.4 |
| Nominal Water Connection Size | Inches | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 |
| Electrical | | | | | | | | | | |
| Power Supply | V/Ph/Hz | 380~420/3/50 | | | | | | | | |
| Dimension & Weight | | | | | | | | | | |
| Length | mm | 3100 | 3100 | 3100 | 3100 | 3100 | 3100 | 4000 | 4000 | 4000 |
| Width | mm | 1300 | 1300 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |
| Height | mm | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 |
| Weight | kg | 1715 | 1771 | 2208 | 2299 | 2713 | 2830 | 3382 | 3688 | 3872 |

- Data referred to the following conditions:
 - Ambient air temperature 35 °C
 - Evaporator water inlet-outlet temperature 12~7 °C

Standard Noise, High Ambient Temperature, 50°C, 2-Compressor Units

| Refrigerant R-134a | | | | | | | | | | | |
|---|---------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit ACW2.....SN | | 0210HH | 0235HH | 0255HH | 0270HH | 0300HH | 0315HH | 0350HH | 0385HH | 0410HH | 0435HH |
| Performance data | | | | | | | | | | | |
| Cooling Capacity | kW | 208 | 233 | 254 | 268 | 300 | 316 | 348 | 383 | 411 | 434 |
| Total Power Input | kW | 64 | 71 | 79 | 86 | 91 | 97 | 109 | 121 | 126 | 135 |
| EER | kW/kW | 3.27 | 3.28 | 3.21 | 3.11 | 3.29 | 3.25 | 3.19 | 3.17 | 3.26 | 3.23 |
| Energy Class | - | A | A | A | A | A | A | A | A | A | A |
| General Unit Data | | | | | | | | | | | |
| Independent Refrigerant Circuits Quantity | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant Charge | kg | 82 | 93 | 103 | 109 | 120 | 127 | 140 | 156 | 166 | 176 |
| Oil Charge | Liters | 19 | 19 | 25 | 30 | 30 | 30 | 37 | 44 | 44 | 44 |
| Compressors Qty per Chiller | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Condensers, High Efficiency Fin/Tube with Integral Subcooler | | | | | | | | | | | |
| Number of Rows | - | 4 | 4 | 3 | 3 | 4 | 4 | 3 | 3 | 4 | 4 |
| Fins per inch | - | 12 | | | | | | | | | |
| Condenser Fans | | | | | | | | | | | |
| Type | - | Axial | | | | | | | | | |
| Number | - | 4 | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 |
| Fan Motor | kW | 1.94 | | | | | | | | | |
| Fan & Motor Speed | RPM | 900 | | | | | | | | | |
| Fan Diameter | mm | 800 | | | | | | | | | |
| Evaporator, Direct Expansion | | | | | | | | | | | |
| Type | | Shell & Tube | | | | | | | | | |
| Water Flow Rate | m³/hr | 35.7 | 40.0 | 43.5 | 45.9 | 51.3 | 54.2 | 59.6 | 65.6 | 70.5 | 74.4 |
| Cooler pressure drop | kpa | 19 | 23 | 27 | 30 | 16 | 18 | 21 | 32 | 37 | 41 |
| Maximum Water Side Pressure | Bar | 10 | | | | | | | | | |
| Maximum Refrigerant Side Pressure | Bar | 19 | | | | | | | | | |
| Maximum Chilled Water Flow Rate | m³/hr | 41.7 | 46.8 | 51.1 | 54.1 | 60.5 | 63.8 | 69.8 | 76.6 | 82.3 | 86.8 |
| Minimum Chilled Water Flow Rate | m³/hr | 26.8 | 29.9 | 32.3 | 33.8 | 37.8 | 39.9 | 44.8 | 49.9 | 53.9 | 56.9 |
| Nominal Water Connection Size | Inches | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 |
| Electrical | | | | | | | | | | | |
| Power Supply | V/Ph/Hz | 380~420/3/50 | | | | | | | | | |
| Dimension & Weight | | | | | | | | | | | |
| Length | mm | 3100 | 3100 | 4000 | 4000 | 4000 | 4000 | 5200 | 5200 | 5200 | 5200 |
| Width | mm | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |
| Height | mm | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 |
| Weight | kg | 2700 | 2813 | 3534 | 3685 | 4020 | 4032 | 4723 | 5094 | 5316 | 5326 |

- Data referred to the following conditions:
 - Ambient air temperature 35 °C
 - Evaporator water inlet-outlet temperature 12-7 °C

Standard Noise, High Ambient Temperature, 50°C, 2-Compressor Units

| Refrigerant R-134a | | | | | | | | | | | |
|---|---------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit ACW2.....SN | | 0485HP | 0515HH | 0575HH | 0645HH | 0720HP | 0770HP | 0845HP | 0905HP | 1050HP | 1115HP |
| Performance data | | | | | | | | | | | |
| Cooling Capacity | kW | 487 | 514 | 575 | 646 | 720 | 772 | 847 | 904 | 1049 | 1114 |
| Total Power Input | kW | 145 | 158 | 176 | 196 | 214 | 230 | 246 | 260 | 304 | 322 |
| EER | kW/kW | 3.36 | 3.26 | 3.27 | 3.30 | 3.36 | 3.36 | 3.45 | 3.48 | 3.46 | 3.46 |
| Energy Class | - | AA | A | A | A | AA | AA | AA | AA | AA | AA |
| General Unit Data | | | | | | | | | | | |
| Independent Refrigerant Circuits Quantity | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant Charge | kg | 198 | 212 | 236 | 264 | 294 | 316 | 350 | 376 | 440 | 465 |
| Oil Charge | Liters | 44 | 44 | 38 | 38 | 49 | 60 | 60 | 60 | 60 | 60 |
| Compressors Qty per Chiller | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Condensers, High Efficiency Fin/Tube with Integral Subcooler | | | | | | | | | | | |
| Number of Rows | - | 4 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Fins per inch | - | 12 | | | | | | | | | |
| Condenser Fans | | | | | | | | | | | |
| Type | - | Axial | | | | | | | | | |
| Number | - | 9 | 10 | 12 | 12 | 13 | 14 | 15 | 16 | 18 | 20 |
| Fan Motor | kW | 1.94 | | | | | | | | | |
| Fan & Motor Speed | RPM | 900 | | | | | | | | | |
| Fan Diameter | mm | 800 | | | | | | | | | |
| Evaporator, Direct Expansion | | | | | | | | | | | |
| Type | | Shell & Tube | | | | | | | | | |
| Water Flow Rate | m³/hr | 83.6 | 88.2 | 98.6 | 110.7 | 123.4 | 132.4 | 145.3 | 155.0 | 179.8 | 191.0 |
| Cooler pressure drop | kpa | 45 | 50 | 46 | 56 | 56 | 64 | 60 | 67 | 59 | 66 |
| Maximum Water Side Pressure | Bar | 10 | | | | | | | | | |
| Maximum Refrigerant Side Pressure | Bar | 19 | | | | | | | | | |
| Maximum Chilled Water Flow Rate | m³/hr | 97.4 | 102.9 | 115.1 | 128.9 | 144.1 | 154.5 | 169.5 | 180.4 | 208.8 | 221.4 |
| Minimum Chilled Water Flow Rate | m³/hr | 63.2 | 66.2 | 74.8 | 84.4 | 93.1 | 99.6 | 109.5 | 117.6 | 138.9 | 148.0 |
| Nominal Water Connection Size | Inches | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 8 | 8 |
| Electrical | | | | | | | | | | | |
| Power Supply | V/Ph/Hz | 380~420/3/50 | | | | | | | | | |
| Dimension & Weight | | | | | | | | | | | |
| Length | mm | 6400 | 6400 | 7600 | 7600 | 8900 | 8900 | 10100 | 10100 | 11300 | 12500 |
| Width | mm | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |
| Height | mm | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2900 | 2900 | 2900 | 2900 |
| Weight | kg | 6255 | 6164 | 6828 | 7194 | 8274 | 8856 | 9595 | 9781 | 10960 | 11565 |

- Data referred to the following conditions:
 - Ambient air temperature 35 °C
 - Evaporator water inlet-outlet temperature 12-7 °C

Standard Noise, High Ambient Temperature, 50°C, 3-Compressor Units

| Refrigerant R-134a | | | | | | | | | | |
|---|---------|--------------|--------|--|--|--|--|--|--|--|
| Unit ACW3.....SN | | 1250HS | 1455HS | | | | | | | |
| Performance data | | | | | | | | | | |
| Cooling Capacity | kW | 1251 | 1453 | | | | | | | |
| Total Power Input | kW | 422 | 474 | | | | | | | |
| EER | kW/kW | 2.96 | 3.06 | | | | | | | |
| Energy Class | - | B | B | | | | | | | |
| General Unit Data | | | | | | | | | | |
| Independent Refrigerant Circuits Quantity | - | 3 | 3 | | | | | | | |
| Refrigerant Charge | kg | 519 | 598 | | | | | | | |
| Oil Charge | Liters | 90 | 90 | | | | | | | |
| Compressors Qty per Chiller | - | 3 | 3 | | | | | | | |
| Condensers, High Efficiency Fin/Tube with Integral Subcooler | | | | | | | | | | |
| Number of Rows | - | 3 | 4 | | | | | | | |
| Fins per inch | - | 12 | | | | | | | | |
| Condenser Fans | | | | | | | | | | |
| Type | - | Axial | | | | | | | | |
| Number | - | 18 | 18 | | | | | | | |
| Fan Motor | kW | 1.94 | | | | | | | | |
| Fan & Motor Speed | RPM | 900 | | | | | | | | |
| Fan Diameter | mm | 800 | | | | | | | | |
| Evaporator, Direct Expansion | | | | | | | | | | |
| Type | | Shell & Tube | | | | | | | | |
| Water Flow Rate | m³/hr | 214.5 | 249.1 | | | | | | | |
| Cooler pressure drop | kpa | 78 | 63 | | | | | | | |
| Maximum Water Side Pressure | Bar | 10 | | | | | | | | |
| Maximum Refrigerant Side Pressure | Bar | 19 | | | | | | | | |
| Maximum Chilled Water Flow Rate | m³/hr | 248.5 | 287.5 | | | | | | | |
| Minimum Chilled Water Flow Rate | m³/hr | 161.9 | 190.0 | | | | | | | |
| Nominal Water Connection Size | Inches | 8 | 10 | | | | | | | |
| Electrical | | | | | | | | | | |
| Power Supply | V/Ph/Hz | 380~420/3/50 | | | | | | | | |
| Dimension & Weight | | | | | | | | | | |
| Length | mm | 11300 | 11300 | | | | | | | |
| Width | mm | 2500 | 2500 | | | | | | | |
| Height | mm | 2900 | 2900 | | | | | | | |
| Weight | kg | 12172 | 13378 | | | | | | | |

- Data referred to the following conditions:
 - Ambient air temperature 35 °C
 - Evaporator water inlet-outlet temperature 12~7 °C

Low Noise, Medium and Standard Ambient Temperature, 1-Compressor Units

| Refrigerant R-134a | | | | | | | | | | |
|---|---------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit ACW1.....LN | | 0100SS | 0110SS | 0125SE | 0150SS | 0180ME | 0210SS | 0240MS | 0270MS | 0305ME |
| Performance data | | | | | | | | | | |
| Cooling Capacity | kW | 98 | 109 | 127 | 149 | 179 | 209 | 238 | 270 | 303 |
| Total Power Input | kW | 32 | 36 | 45 | 49 | 64 | 69 | 82 | 93 | 106 |
| EER | kW/kW | 3.07 | 3.01 | 2.83 | 3.02 | 2.82 | 3.02 | 2.91 | 2.91 | 2.87 |
| Energy Class | - | B | B | C | B | C | B | B | B | C |
| General Unit Data | | | | | | | | | | |
| Independent Refrigerant Circuits Quantity | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant Charge | kg | 40 | 45 | 53 | 62 | 77 | 88 | 102 | 115 | 131 |
| Oil Charge | Liters | 10 | 10 | 15 | 15 | 22 | 22 | 22 | 19 | 19 |
| Compressors Qty per Chiller | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Condensers, High Efficiency Fin/Tube with Integral Subcooler | | | | | | | | | | |
| Number of Rows | - | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 4 | 3 |
| Fins per inch | - | 12 | | | | | | | | |
| Condenser Fans | | | | | | | | | | |
| Type | - | Axial | | | | | | | | |
| Number | - | 2 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 5 |
| Fan Motor | kW | 1.21 | | | | | | | | |
| Fan & Motor Speed | RPM | 750 | | | | | | | | |
| Fan Diameter | mm | 800 | | | | | | | | |
| Evaporator, Direct Expansion | | | | | | | | | | |
| Type | | Shell & Tube | | | | | | | | |
| Water Flow Rate | m³/hr | 16.9 | 18.7 | 21.8 | 25.5 | 30.8 | 35.9 | 40.8 | 46.4 | 52.0 |
| Cooler pressure drop | kpa | 4 | 4 | 13 | 17 | 22 | 29 | 24 | 13 | 17 |
| Maximum Water Side Pressure | Bar | 10 | | | | | | | | |
| Maximum Refrigerant Side Pressure | Bar | 19 | | | | | | | | |
| Maximum Chilled Water Flow Rate | m³/hr | 19.7 | 21.9 | 25.7 | 30.0 | 35.9 | 41.9 | 47.8 | 54.1 | 60.7 |
| Minimum Chilled Water Flow Rate | m³/hr | 13.5 | 14.9 | 17.0 | 20.0 | 25.7 | 28.8 | 34.1 | 38.8 | 43.5 |
| Nominal Water Connection Size | Inches | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 |
| Electrical | | | | | | | | | | |
| Power Supply | V/Ph/Hz | 380~420/3/50 | | | | | | | | |
| Dimension & Weight | | | | | | | | | | |
| Length | mm | 3100 | 3100 | 3100 | 3100 | 3100 | 3100 | 3100 | 3100 | 4000 |
| Width | mm | 1300 | 1300 | 1300 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |
| Height | mm | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 |
| Weight | kg | 1661 | 1718 | 1929 | 2220 | 2590 | 2723 | 2828 | 3117 | 3587 |

- Data referred to the following conditions:
 - Ambient air temperature 35 °C
 - Evaporator water inlet-outlet temperature 12~7 °C

Low Noise, Medium and Standard Ambient Temperature, 2-Compressor Units

| Refrigerant R-134a | | | | | | | | | | | |
|---|---------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit ACW2.....LN | | 0200SH | 0225SS | 0245ME | 0285ME | 0330MS | 0365SS | 0390MS | 0420SS | 0470SH | 0485MS |
| Performance data | | | | | | | | | | | |
| Cooling Capacity | kW | 200 | 223 | 243 | 283 | 328 | 367 | 389 | 418 | 468 | 484 |
| Total Power Input | kW | 65 | 73 | 92 | 106 | 113 | 123 | 133 | 139 | 148 | 165 |
| EER | kW/kW | 3.10 | 3.04 | 2.65 | 2.66 | 2.91 | 2.98 | 2.93 | 3.02 | 3.16 | 2.93 |
| Energy Class | - | A | B | D | D | B | B | B | B | A | B |
| General Unit Data | | | | | | | | | | | |
| Independent Refrigerant Circuits Quantity | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant Charge | kg | 81 | 91 | 102 | 118 | 136 | 152 | 162 | 172 | 192 | 202 |
| Oil Charge | Liters | 19 | 19 | 30 | 30 | 37 | 44 | 44 | 44 | 44 | 44 |
| Compressors Qty per Chiller | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Condensers, High Efficiency Fin/Tube with Integral Subcooler | | | | | | | | | | | |
| Number of Rows | - | 3 | 3 | 3 | 4 | 3 | 4 | 3 | 3 | 4 | 3 |
| Fins per inch | - | 12 | | | | | | | | | |
| Condenser Fans | | | | | | | | | | | |
| Type | - | Axial | | | | | | | | | |
| Number | - | 4 | 4 | 4 | 4 | 6 | 6 | 7 | 8 | 8 | 8 |
| Fan Motor | kW | 1.21 | | | | | | | | | |
| Fan & Motor Speed | RPM | 750 | | | | | | | | | |
| Fan Diameter | mm | 800 | | | | | | | | | |
| Evaporator, Direct Expansion | | | | | | | | | | | |
| Type | | Shell & Tube | | | | | | | | | |
| Water Flow Rate | m³/hr | 34.3 | 38.2 | 41.7 | 48.5 | 56.2 | 62.9 | 66.7 | 71.7 | 80.3 | 82.9 |
| Cooler pressure drop | kpa | 17 | 21 | 25 | 15 | 19 | 30 | 33 | 38 | 42 | 44 |
| Maximum Water Side Pressure | Bar | 10 | | | | | | | | | |
| Maximum Refrigerant Side Pressure | Bar | 19 | | | | | | | | | |
| Maximum Chilled Water Flow Rate | m³/hr | 40.2 | 44.6 | 49.1 | 57.0 | 65.8 | 73.4 | 77.8 | 83.6 | 93.5 | 96.7 |
| Minimum Chilled Water Flow Rate | m³/hr | 27.4 | 30.3 | 34.3 | 39.9 | 46.8 | 50.5 | 56.0 | 57.7 | 64.2 | 69.1 |
| Nominal Water Connection Size | Inches | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Electrical | | | | | | | | | | | |
| Power Supply | V/Ph/Hz | 380~420/3/50 | | | | | | | | | |
| Dimension & Weight | | | | | | | | | | | |
| Length | mm | 3100 | 3100 | 3100 | 3100 | 4250 | 4250 | 5170 | 5170 | 5170 | 5170 |
| Width | mm | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |
| Height | mm | 2700 | 2700 | 2700 | 2700 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 |
| Weight | kg | 2594 | 2706 | 3008 | 3301 | 4199 | 4729 | 4980 | 5112 | 5555 | 5363 |

- Data referred to the following conditions:
 - Ambient air temperature 35 °C
 - Evaporator water inlet-outlet temperature 12~7 °C

Low Noise, Medium and Standard Ambient Temperature, 2-Compressor Units

| Refrigerant R-134a | | | | | | | | | |
|---|---------|--------------|--------|--------|--------|--------|--------|--------|--------|
| Unit ACW2.....LN | | 0550SS | 0600ME | 0695SH | 0735SH | 0810SH | 0845MH | 1010SH | 1055MH |
| Performance data | | | | | | | | | |
| Cooling Capacity | kW | 550 | 602 | 694 | 736 | 809 | 847 | 1009 | 1056 |
| Total Power Input | kW | 180 | 211 | 218 | 237 | 252 | 272 | 312 | 337 |
| EER | kW/kW | 3.05 | 2.86 | 3.19 | 3.10 | 3.21 | 3.11 | 3.24 | 3.14 |
| Energy Class | - | B | C | A | A | A | A | A | A |
| General Unit Data | | | | | | | | | |
| Independent Refrigerant Circuits Quantity | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant Charge | kg | 230 | 254 | 286 | 304 | 339 | 362 | 424 | 445 |
| Oil Charge | Liters | 38 | 38 | 49 | 60 | 60 | 60 | 60 | 60 |
| Compressors Qty per Chiller | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Condensers, High Efficiency Fin/Tube with Integral Subcooler | | | | | | | | | |
| Number of Rows | - | 3 | 3 | 4 | 4 | 4 | 3 | 4 | 4 |
| Fins per inch | - | 12 | | | | | | | |
| Condenser Fans | | | | | | | | | |
| Type | - | Axial | | | | | | | |
| Number | - | 10 | 10 | 12 | 12 | 13 | 14 | 16 | 16 |
| Fan Motor | kW | 1.21 | | | | | | | |
| Fan & Motor Speed | RPM | 750 | | | | | | | |
| Fan Diameter | mm | 800 | | | | | | | |
| Evaporator, Direct Expansion | | | | | | | | | |
| Type | | Shell & Tube | | | | | | | |
| Water Flow Rate | m³/hr | 94.3 | 103.2 | 119.0 | 126.2 | 138.7 | 145.3 | 173.0 | 181.1 |
| Cooler pressure drop | kpa | 42 | 50 | 53 | 59 | 55 | 60 | 55 | 60 |
| Maximum Water Side Pressure | Bar | 10 | | | | | | | |
| Maximum Refrigerant Side Pressure | Bar | 19 | | | | | | | |
| Maximum Chilled Water Flow Rate | m³/hr | 110.0 | 120.1 | 138.9 | 147.3 | 161.8 | 169.3 | 200.8 | 209.8 |
| Minimum Chilled Water Flow Rate | m³/hr | 75.5 | 86.5 | 95.2 | 100.5 | 110.7 | 121.7 | 140.7 | 153.6 |
| Nominal Water Connection Size | Inches | 5 | 5 | 6 | 6 | 6 | 6 | 8 | 8 |
| Electrical | | | | | | | | | |
| Power Supply | V/Ph/Hz | 380~420/3/50 | | | | | | | |
| Dimension & Weight | | | | | | | | | |
| Length | mm | 6350 | 6350 | 7700 | 7700 | 8900 | 8900 | 10100 | 10100 |
| Width | mm | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |
| Height | mm | 2800 | 2800 | 2850 | 2850 | 2800 | 2800 | 2900 | 2900 |
| Weight | kg | 6275 | 6320 | 7820 | 8249 | 9014 | 8827 | 10325 | 10377 |

- Data referred to the following conditions:
 - Ambient air temperature 35 °C
 - Evaporator water inlet-outlet temperature 12~7 °C

Low Noise, Medium and Standard Ambient Temperature, 3-Compressor Units

| Refrigerant R-134a | | | | | | | | | | |
|---|--------------------|--------------|--------|--|--|--|--|--|--|--|
| Unit ACW3.....LN | | 1465MS | 1500SH | | | | | | | |
| Performance data | | | | | | | | | | |
| Cooling Capacity | kW | 1465 | 1501 | | | | | | | |
| Total Power Input | kW | 482 | 466 | | | | | | | |
| EER | kW/kW | 3.04 | 3.22 | | | | | | | |
| Energy Class | - | B | A | | | | | | | |
| General Unit Data | | | | | | | | | | |
| Independent Refrigerant Circuits Quantity | - | 3 | 3 | | | | | | | |
| Refrigerant Charge | kg | 611 | 620 | | | | | | | |
| Oil Charge | Liters | 90 | 90 | | | | | | | |
| Compressors Qty per Chiller | - | 3 | 3 | | | | | | | |
| Condensers, High Efficiency Fin/Tube with Integral Subcooler | | | | | | | | | | |
| Number of Rows | - | 4 | 4 | | | | | | | |
| Fins per inch | - | 12 | | | | | | | | |
| Condenser Fans | | | | | | | | | | |
| Type | - | Axial | | | | | | | | |
| Number | - | 21 | 24 | | | | | | | |
| Fan Motor | kW | 1.21 | | | | | | | | |
| Fan & Motor Speed | RPM | 750 | | | | | | | | |
| Fan Diameter | mm | 800 | | | | | | | | |
| Evaporator, Direct Expansion | | | | | | | | | | |
| Type | | Shell & Tube | | | | | | | | |
| Water Flow Rate | m ³ /hr | 251.1 | 257.4 | | | | | | | |
| Cooler pressure drop | kpa | 64 | 67 | | | | | | | |
| Maximum Water Side Pressure | Bar | 10 | | | | | | | | |
| Maximum Refrigerant Side Pressure | Bar | 19 | | | | | | | | |
| Maximum Chilled Water Flow Rate | m ³ /hr | 289.5 | 296.6 | | | | | | | |
| Minimum Chilled Water Flow Rate | m ³ /hr | 212.8 | 209.8 | | | | | | | |
| Nominal Water Connection Size | Inches | 10 | 10 | | | | | | | |
| Electrical | | | | | | | | | | |
| Power Supply | V/Ph/Hz | 380~420/3/50 | | | | | | | | |
| Dimension & Weight | | | | | | | | | | |
| Length | mm | 13700 | 14900 | | | | | | | |
| Width | mm | 2500 | 2500 | | | | | | | |
| Height | mm | 2900 | 2900 | | | | | | | |
| Weight | kg | 14267 | 14848 | | | | | | | |

- Data referred to the following conditions:
 - Ambient air temperature 35 °C
 - Evaporator water inlet-outlet temperature 12-7 °C

Low Noise, Standard and High Ambient Temperature, 1-Compressor Units

| Refrigerant R-134a | | | | | | | | | | |
|---|--------------------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit ACW1.....LN | | 0100HH | 0110SH | 0135HH | 0150HH | 0190SH | 0215SH | 0250SH | 0285SH | 0320SH |
| Performance data | | | | | | | | | | |
| Cooling Capacity | kW | 100 | 111 | 134 | 151 | 188 | 213 | 248 | 285 | 320 |
| Total Power Input | kW | 31 | 35 | 43 | 48 | 60 | 67 | 78 | 87 | 98 |
| EER | kW/kW | 3.20 | 3.15 | 3.15 | 3.16 | 3.16 | 3.16 | 3.19 | 3.27 | 3.25 |
| Energy Class | - | A | A | A | A | A | A | A | A | A |
| General Unit Data | | | | | | | | | | |
| Independent Refrigerant Circuits Quantity | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant Charge | kg | 40 | 46 | 56 | 63 | 79 | 89 | 107 | 121 | 135 |
| Oil Charge | Liters | 10 | 10 | 15 | 15 | 22 | 22 | 22 | 19 | 19 |
| Compressors Qty per Chiller | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Condensers, High Efficiency Fin/Tube with Integral Subcooler | | | | | | | | | | |
| Number of Rows | - | 4 | 4 | 3 | 4 | 3 | 4 | 3 | 3 | 4 |
| Fins per inch | - | | | | | | | | | |
| Condenser Fans | | | | | | | | | | |
| Type | - | Axial | | | | | | | | |
| Number | - | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 6 | 6 |
| Fan Motor | kW | 1.21 | | | | | | | | |
| Fan & Motor Speed | RPM | 750 | | | | | | | | |
| Fan Diameter | mm | 800 | | | | | | | | |
| Evaporator, Direct Expansion | | | | | | | | | | |
| Type | | Shell & Tube | | | | | | | | |
| Water Flow Rate | m ³ /hr | 17.2 | 19.1 | 23.0 | 26.0 | 32.3 | 36.5 | 42.5 | 48.8 | 54.8 |
| Cooler pressure drop | kpa | 4 | 5 | 15 | 18 | 24 | 30 | 26 | 15 | 18 |
| Maximum Water Side Pressure | Bar | 10 | | | | | | | | |
| Maximum Refrigerant Side Pressure | Bar | 19 | | | | | | | | |
| Maximum Chilled Water Flow Rate | m ³ /hr | 20.1 | 22.4 | 27.1 | 30.6 | 37.7 | 42.6 | 49.8 | 57.0 | 63.9 |
| Minimum Chilled Water Flow Rate | m ³ /hr | 12.9 | 15.3 | 16.8 | 19.1 | 25.9 | 29.4 | 34.0 | 39.2 | 44.1 |
| Nominal Water Connection Size | Inches | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 |
| Electrical | | | | | | | | | | |
| Power Supply | V/Ph/Hz | 380~420/3/50 | | | | | | | | |
| Dimension & Weight | | | | | | | | | | |
| Length | mm | 3100 | 3100 | 3100 | 3100 | 3100 | 3100 | 4250 | 4250 | 4250 |
| Width | mm | 1300 | 1300 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |
| Height | mm | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2800 | 2800 | 2800 |
| Weight | kg | 1715 | 1771 | 2208 | 2299 | 2713 | 2830 | 3382 | 3688 | 3872 |

- Data referred to the following conditions:
 - Ambient air temperature 35 °C
 - Evaporator water inlet-outlet temperature 12-7 °C

Low Noise, Standard and High Ambient Temperature, 2-Compressor Units

| Refrigerant R-134a | | | | | | | | | | | |
|---|---------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit ACW2.....LN | | 0205HH | 0225SH | 0250HH | 0260HH | 0295SH | 0310SH | 0340SH | 0375SH | 0405SH | 0425SH |
| Performance data | | | | | | | | | | | |
| Cooling Capacity | kW | 204 | 227 | 250 | 263 | 293 | 309 | 342 | 376 | 404 | 426 |
| Total Power Input | kW | 63 | 71 | 77 | 85 | 90 | 97 | 107 | 119 | 125 | 135 |
| EER | kW/kW | 3.24 | 3.19 | 3.25 | 3.11 | 3.25 | 3.20 | 3.20 | 3.16 | 3.22 | 3.16 |
| Energy Class | - | A | A | A | A | A | A | A | A | A | A |
| General Unit Data | | | | | | | | | | | |
| Independent Refrigerant Circuits Quantity | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant Charge | kg | 82 | 92 | 102 | 108 | 119 | 126 | 139 | 154 | 165 | 174 |
| Oil Charge | Liters | 19 | 19 | 25 | 30 | 30 | 30 | 37 | 44 | 44 | 44 |
| Compressors Qty per Chiller | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Condensers, High Efficiency Fin/Tube with Integral Subcooler | | | | | | | | | | | |
| Number of Rows | - | 4 | 4 | 3 | 3 | 4 | 4 | 3 | 3 | 4 | 4 |
| Fins per inch | - | 12 | | | | | | | | | |
| Condenser Fans | | | | | | | | | | | |
| Type | - | Axial | | | | | | | | | |
| Number | - | 4 | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 |
| Fan Motor | kW | 1.21 | | | | | | | | | |
| Fan & Motor Speed | RPM | 750 | | | | | | | | | |
| Fan Diameter | mm | 800 | | | | | | | | | |
| Evaporator, Direct Expansion | | | | | | | | | | | |
| Type | | Shell & Tube | | | | | | | | | |
| Water Flow Rate | m³/hr | 35.0 | 39.0 | 42.8 | 45.1 | 50.3 | 52.9 | 58.7 | 64.5 | 69.3 | 73.0 |
| Cooler pressure drop | kpa | 18 | 22 | 26 | 29 | 16 | 17 | 21 | 31 | 36 | 39 |
| Maximum Water Side Pressure | Bar | 10 | | | | | | | | | |
| Maximum Refrigerant Side Pressure | Bar | 19 | | | | | | | | | |
| Maximum Chilled Water Flow Rate | m³/hr | 40.9 | 45.6 | 50.3 | 53.1 | 59.3 | 62.4 | 68.7 | 75.4 | 80.8 | 85.1 |
| Minimum Chilled Water Flow Rate | m³/hr | 26.2 | 31.0 | 31.7 | 33.0 | 39.6 | 41.7 | 46.9 | 52.0 | 56.0 | 59.0 |
| Nominal Water Connection Size | Inches | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 |
| Electrical | | | | | | | | | | | |
| Power Supply | V/Ph/Hz | 380~420/3/50 | | | | | | | | | |
| Dimension & Weight | | | | | | | | | | | |
| Length | mm | 3100 | 3100 | 4250 | 4250 | 4250 | 4250 | 5170 | 5170 | 5170 | 5170 |
| Width | mm | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |
| Height | mm | 2700 | 2700 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 |
| Weight | kg | 2700 | 2813 | 3534 | 3685 | 4020 | 4032 | 4723 | 5094 | 5316 | 5326 |

- Data referred to the following conditions:
 - Ambient air temperature 35 °C
 - Evaporator water inlet-outlet temperature 12~7 °C

Low Noise, Standard and High Ambient Temperature, 2-Compressor Units

| Refrigerant R-134a | | | | | | | | | | | |
|---|---------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit ACW2.....LN | | 0480SP | 0505SH | 0565SH | 0635SH | 0705SH | 0755SH | 0830SP | 0885SP | 1030SP | 1095SP |
| Performance data | | | | | | | | | | | |
| Cooling Capacity | kW | 478 | 504 | 565 | 633 | 704 | 756 | 829 | 885 | 1028 | 1094 |
| Total Power Input | kW | 145 | 157 | 174 | 196 | 214 | 230 | 245 | 258 | 304 | 321 |
| EER | kW/kW | 3.30 | 3.22 | 3.26 | 3.24 | 3.29 | 3.29 | 3.38 | 3.43 | 3.38 | 3.41 |
| Energy Class | - | AA | A | A | A | A | A | AA | AA | AA | AA |
| General Unit Data | | | | | | | | | | | |
| Independent Refrigerant Circuits Quantity | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant Charge | kg | 196 | 210 | 234 | 261 | 290 | 312 | 345 | 372 | 435 | 460 |
| Oil Charge | Liters | 44 | 44 | 38 | 38 | 49 | 60 | 60 | 60 | 60 | 60 |
| Compressors Qty per Chiller | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Condensers, High Efficiency Fin/Tube with Integral Subcooler | | | | | | | | | | | |
| Number of Rows | - | 4 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Fins per inch | - | 12 | | | | | | | | | |
| Condenser Fans | | | | | | | | | | | |
| Type | - | Axial | | | | | | | | | |
| Number | - | 9 | 10 | 12 | 12 | 13 | 14 | 15 | 16 | 18 | 20 |
| Fan Motor | kW | 1.21 | | | | | | | | | |
| Fan & Motor Speed | RPM | 750 | | | | | | | | | |
| Fan Diameter | mm | 800 | | | | | | | | | |
| Evaporator, Direct Expansion | | | | | | | | | | | |
| Type | | Shell & Tube | | | | | | | | | |
| Water Flow Rate | m³/hr | 81.9 | 86.4 | 96.9 | 108.5 | 120.7 | 129.5 | 142.1 | 151.7 | 176.2 | 187.5 |
| Cooler pressure drop | kpa | 43 | 48 | 44 | 54 | 54 | 61 | 57 | 65 | 57 | 64 |
| Maximum Water Side Pressure | Bar | 10 | | | | | | | | | |
| Maximum Refrigerant Side Pressure | Bar | 19 | | | | | | | | | |
| Maximum Chilled Water Flow Rate | m³/hr | 95.4 | 100.8 | 113.1 | 126.4 | 141.0 | 151.2 | 165.8 | 176.7 | 204.6 | 217.3 |
| Minimum Chilled Water Flow Rate | m³/hr | 65.6 | 69.0 | 78.0 | 87.6 | 96.8 | 103.6 | 113.8 | 122.1 | 143.6 | 153.2 |
| Nominal Water Connection Size | Inches | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 8 | 8 |
| Electrical | | | | | | | | | | | |
| Power Supply | V/Ph/Hz | 380~420/3/50 | | | | | | | | | |
| Dimension & Weight | | | | | | | | | | | |
| Length | mm | 6350 | 6350 | 7700 | 7700 | 8800 | 8900 | 10100 | 10100 | 11300 | 12500 |
| Width | mm | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |
| Height | mm | 2800 | 2800 | 2850 | 2850 | 2800 | 2800 | 2900 | 2900 | 2900 | 2900 |
| Weight | kg | 6255 | 6164 | 6828 | 7194 | 8274 | 8856 | 9595 | 9781 | 10960 | 11565 |

- Data referred to the following conditions:
 - Ambient air temperature 35 °C
 - Evaporator water inlet-outlet temperature 12~7 °C

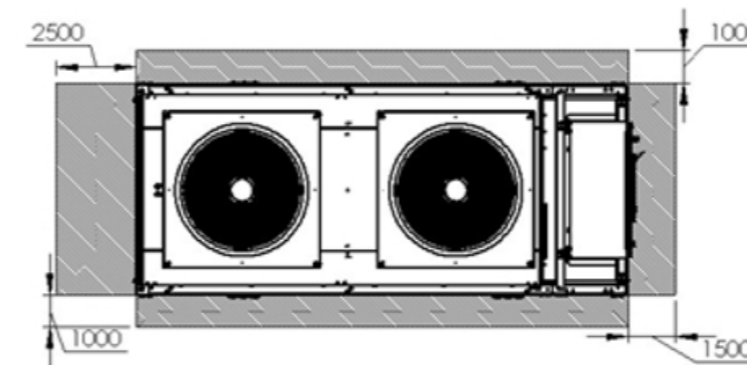
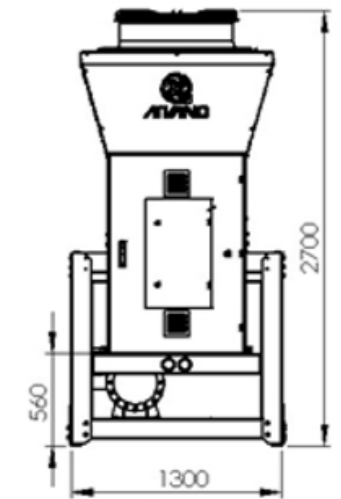
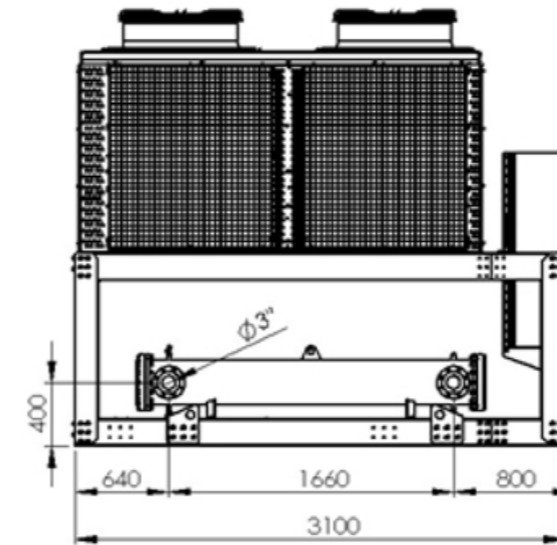
Low Noise, Standard Ambient Temperature, 3-Compressor Units

| Refrigerant R-134a | | | | |
|---|--------------------|--------------|--------|--|
| Unit ACW3.....LN | | 1210SE | 1395SE | |
| Performance data | | | | |
| Cooling Capacity | kW | 1209 | 1396 | |
| Total Power Input | kW | 429 | 490 | |
| EER | kW/kW | 2.82 | 2.85 | |
| Energy Class | - | C | C | |
| General Unit Data | | | | |
| Independent Refrigerant Circuits Quantity | - | 3 | 3 | |
| Refrigerant Charge | kg | 509 | 584 | |
| Oil Charge | Liters | 90 | 90 | |
| Compressors Qty per Chiller | - | 3 | 3 | |
| Condensers, High Efficiency Fin/Tube with Integral Subcooler | | | | |
| Number of Rows | - | 3 | 4 | |
| Fins per inch | - | 12 | | |
| Condenser Fans | | | | |
| Type | - | Axial | | |
| Number | - | 18 | 18 | |
| Fan Motor | kW | 1.21 | | |
| Fan & Motor Speed | RPM | 750 | | |
| Fan Diameter | mm | 800 | | |
| Evaporator, Direct Expansion | | | | |
| Type | | Shell & Tube | | |
| Water Flow Rate | m ³ /hr | 207.3 | 239.3 | |
| Cooler pressure drop | kpa | 73 | 58 | |
| Maximum Water Side Pressure | Bar | 10 | | |
| Maximum Refrigerant Side Pressure | Bar | 19 | | |
| Maximum Chilled Water Flow Rate | m ³ /hr | 240.3 | 276.3 | |
| Minimum Chilled Water Flow Rate | m ³ /hr | 166.1 | 193.0 | |
| Nominal Water Connection Size | Inches | 8 | 10 | |
| Electrical | | | | |
| Power Supply | V/Ph/Hz | 380~420/3/50 | | |
| Dimension & Weight | | | | |
| Length | mm | 11300 | 11300 | |
| Width | mm | 2500 | 2500 | |
| Height | mm | 2900 | 2900 | |
| Weight | kg | 12172 | 13378 | |

- Data referred to the following conditions:
 - Ambient air temperature 35 °C
 - Evaporator water inlet-outlet temperature 12-7 °C

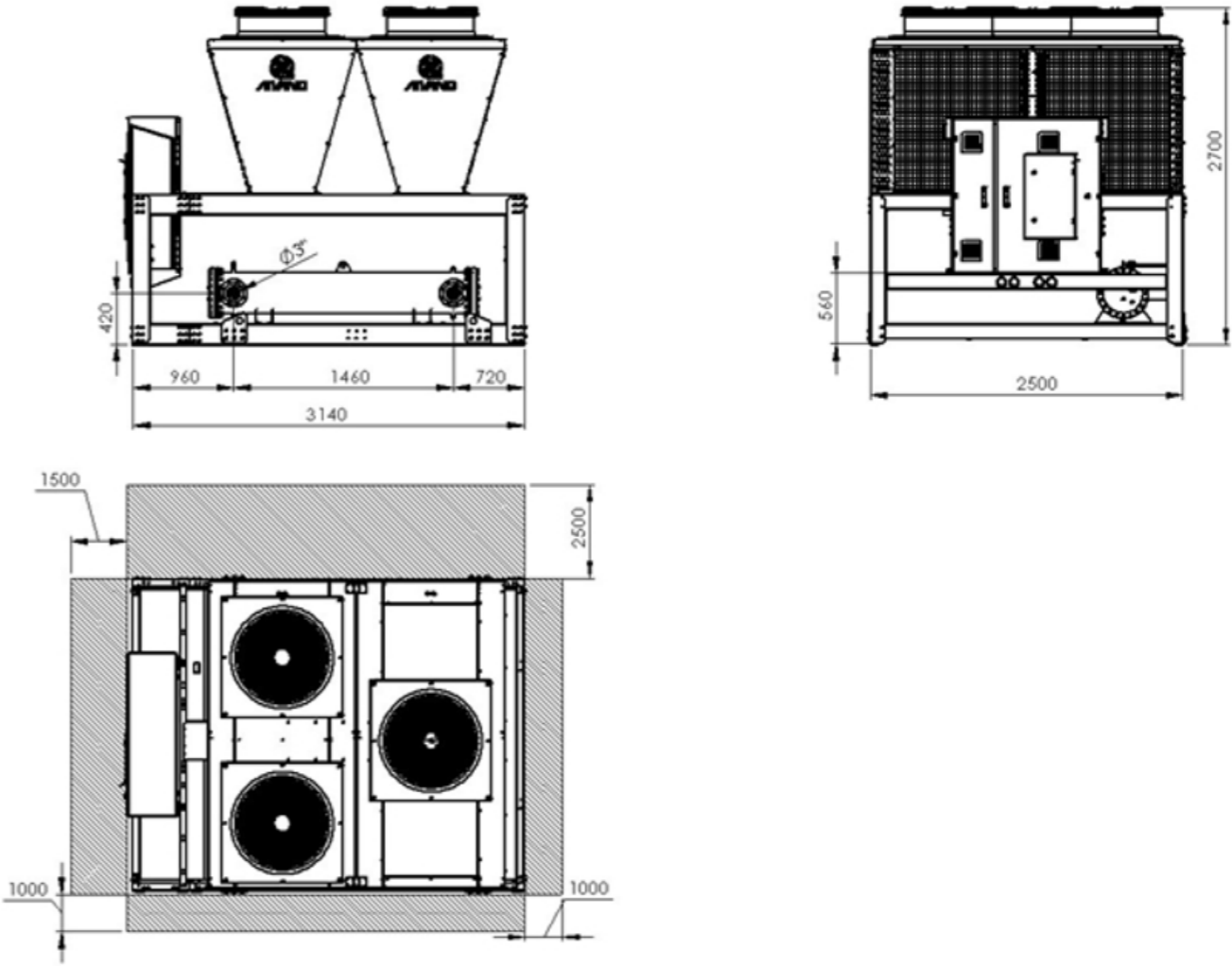
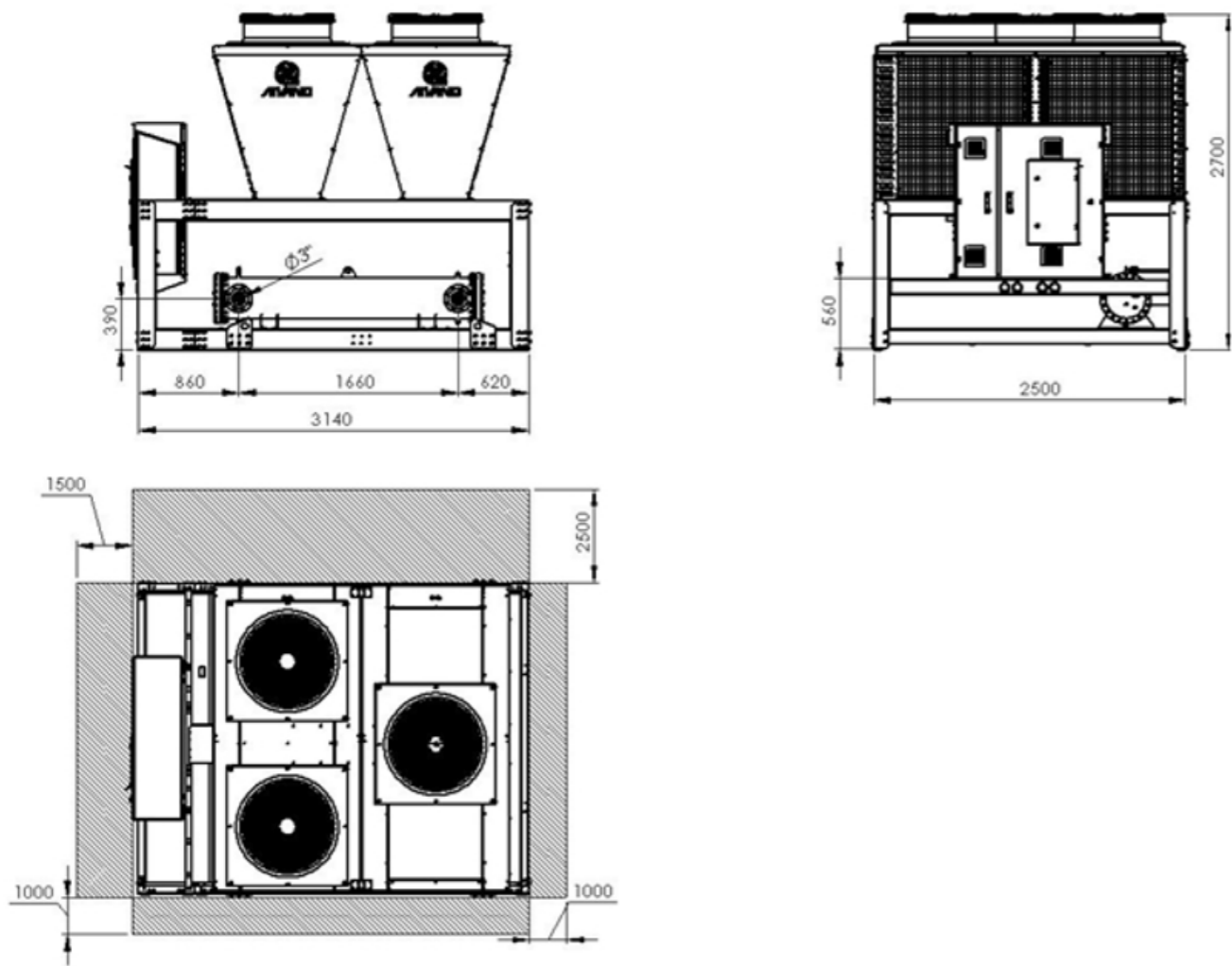
Note: Dimension may change! take last update of all model's dimension by contact Arvand experts.

| Models | | | | |
|--------------|--------------|--------------|--------------|--------------|
| ACW10100SSSN | ACW10100HHSN | ACW10110SSSN | ACW10115HHSN | ACW10130SSSN |
| ACW10100SSLN | ACW10100HHLN | ACW10110SSLN | ACW10110SHLN | ACW10125SELN |

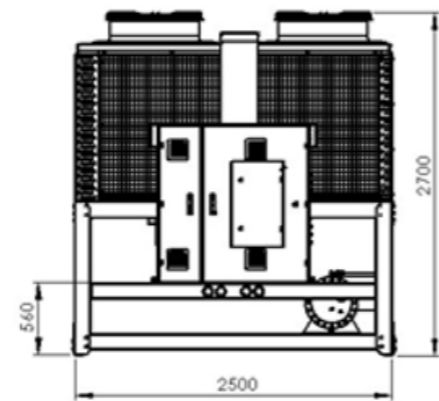
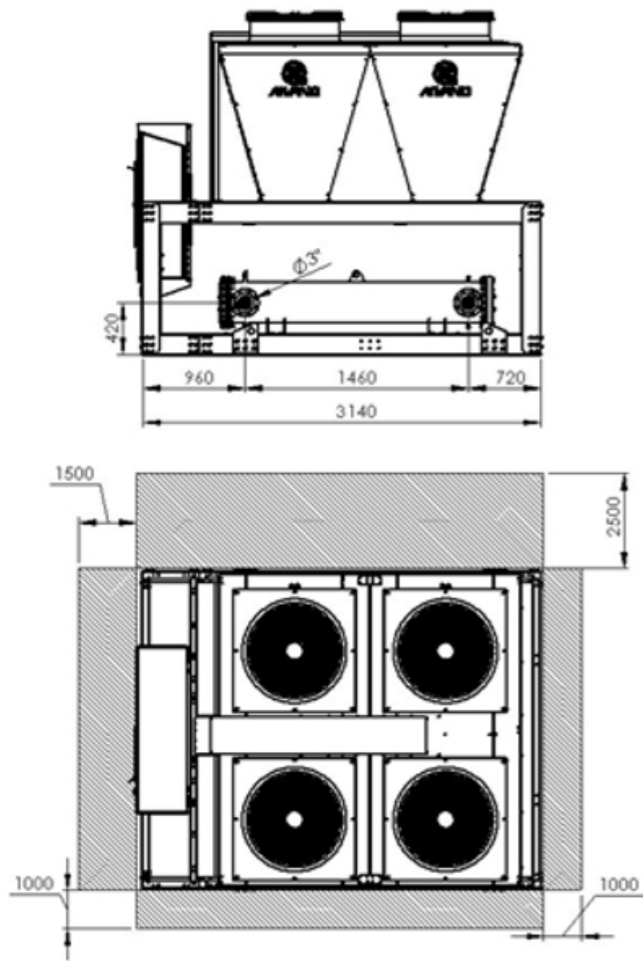


| Models | | |
|--------------|--------------|--------------|
| ACW10135HHSN | ACW10150SSSN | ACW10155HHSN |
| ACW10135HHLN | ACW10150SSLN | ACW10150HHLN |

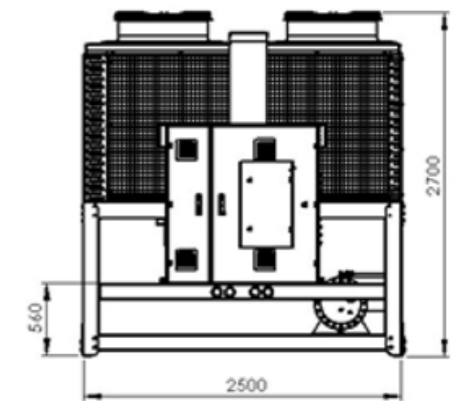
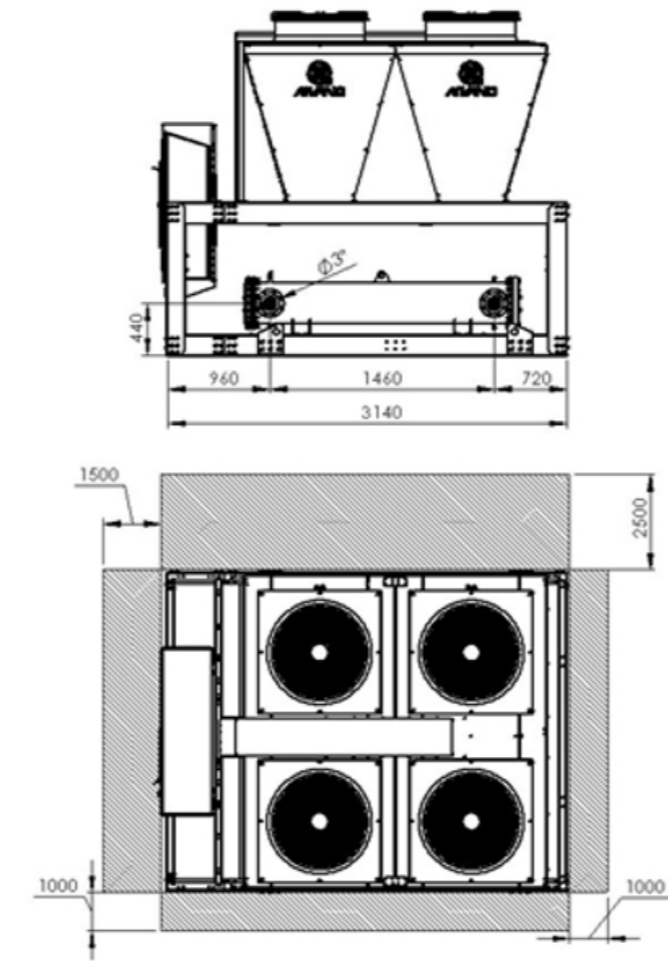
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| ACW10185SSSN | ACW10180MELN |



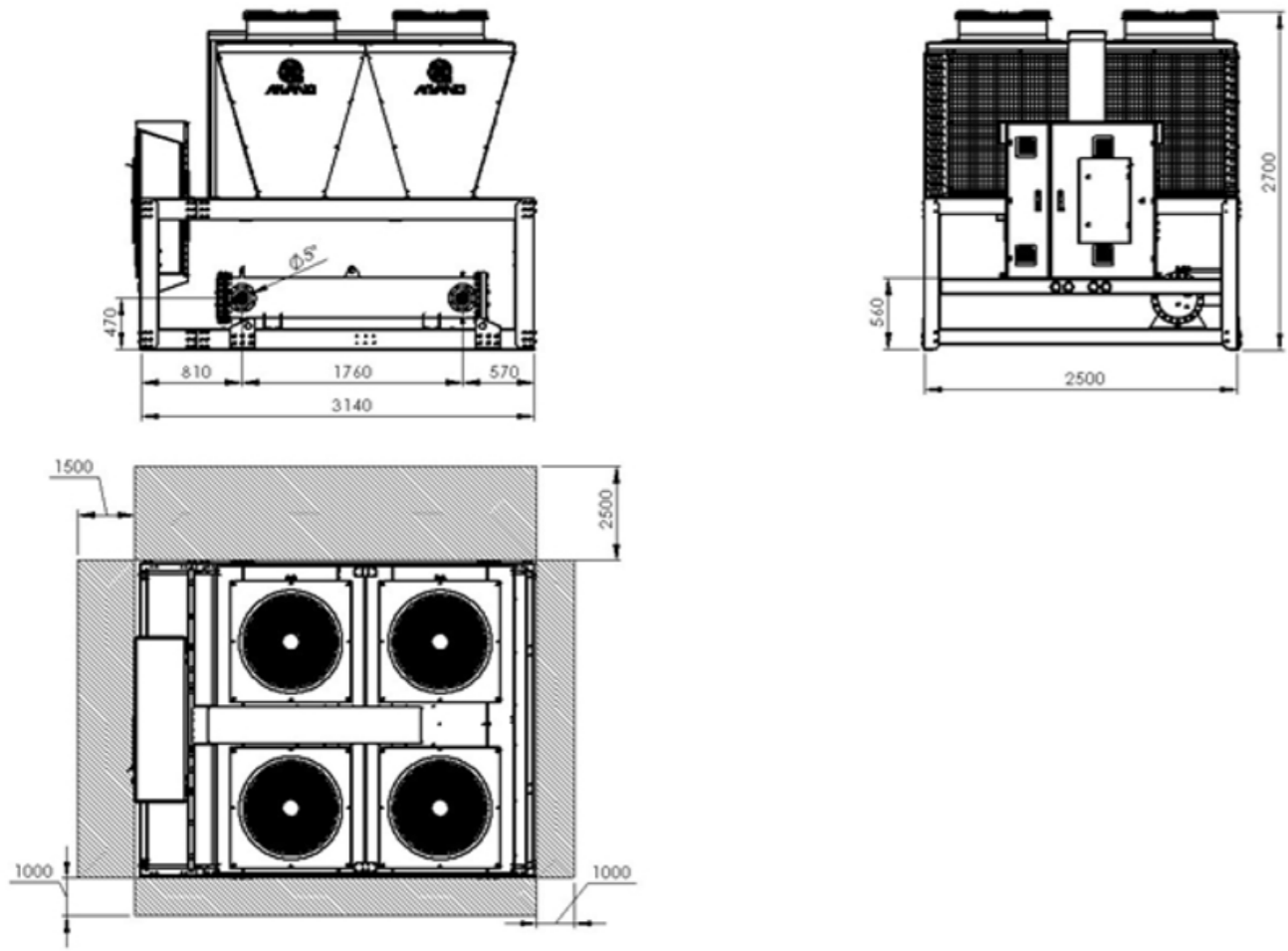
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| ACW10190HHSN | ACW10215SSSN | ACW10215HHSN |
| ACW10190SHLN | ACW10210SSLN | ACW10215SHLN |



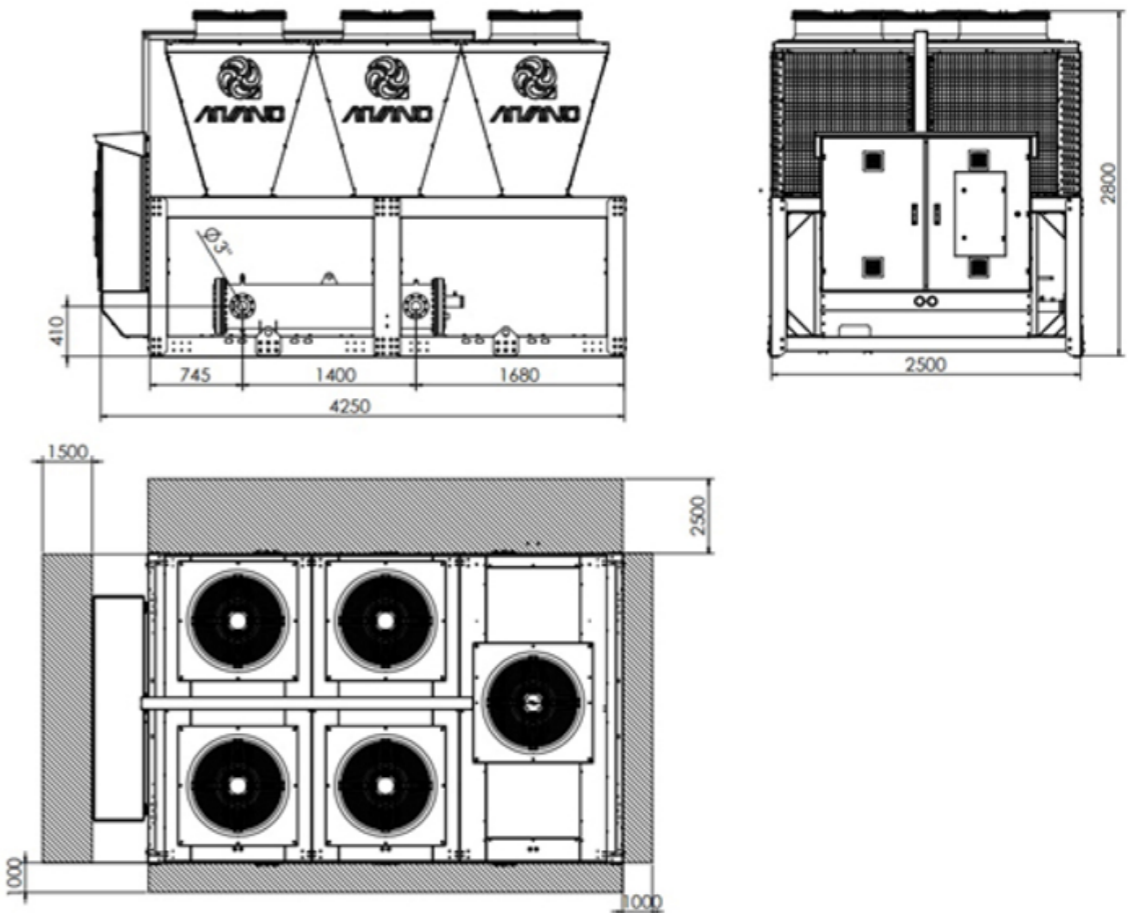
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| ACW10245SSSN | ACW20205SHSN | ACW20210HHSN | ACW20230SHSN | ACW20235HHSN | ACW20250SESN |
| ACW10240MSLN | ACW20200SHLN | ACW20205HHLN | ACW20225SSLN | ACW20225SHLN | ACW20245MELN |



| Models | | | |
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| ACW10280SSSN | ACW20295SESN | ACW10270MSLN | ACW20285MELN |



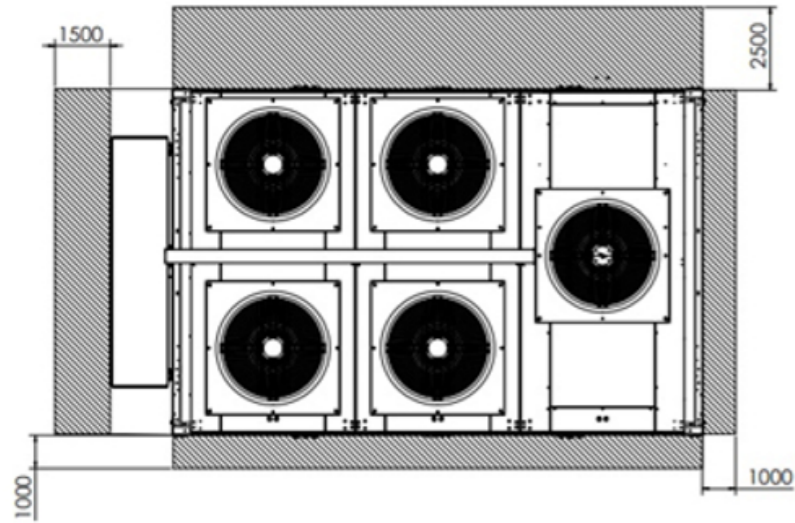
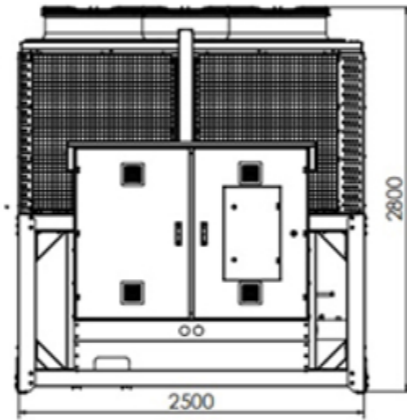
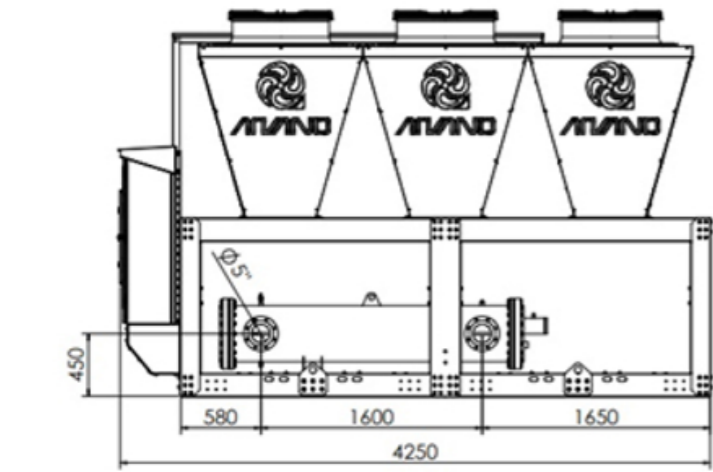
| Models | |
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| ACW10255HHSN | ACW10250SHLN |



Models

ACW10310SSSN

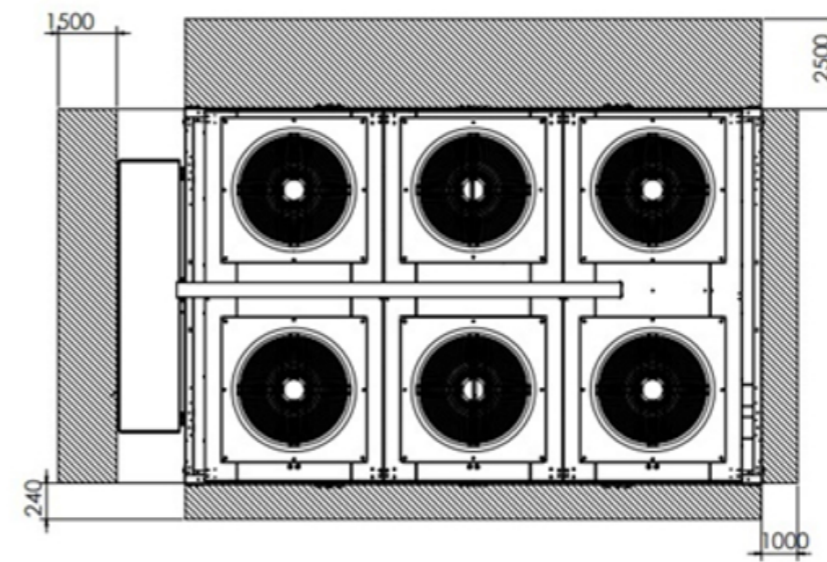
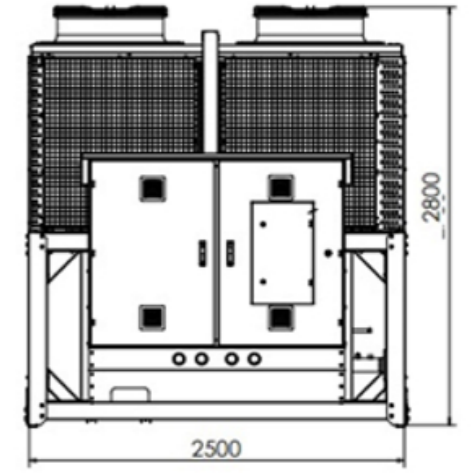
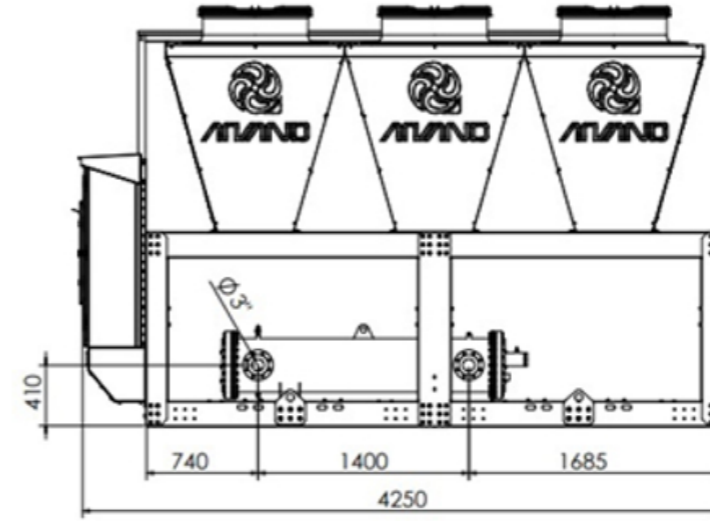
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Models

ACW20270HHSN

ACW20260HHLN



Models

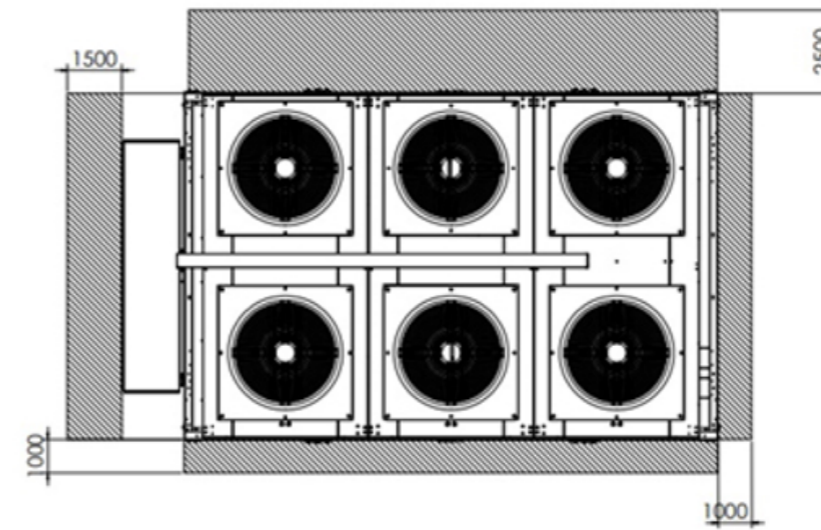
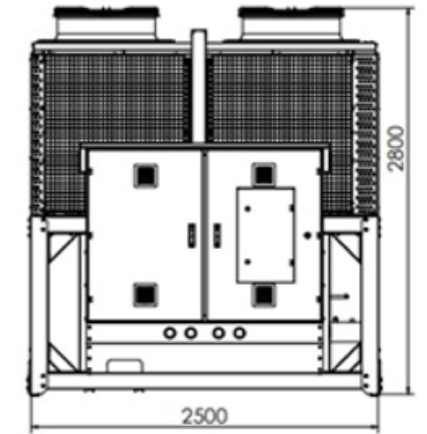
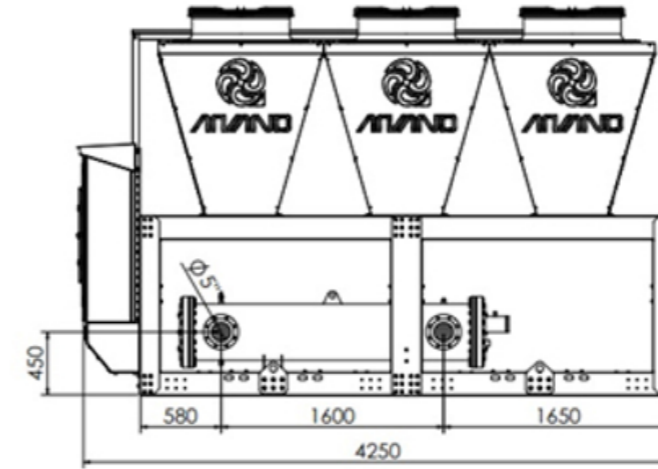
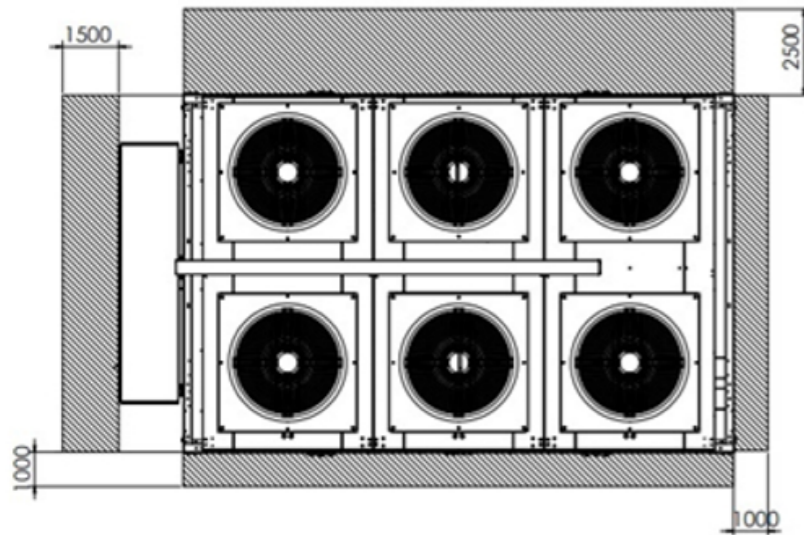
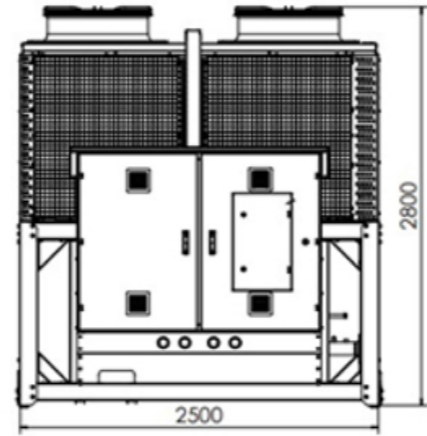
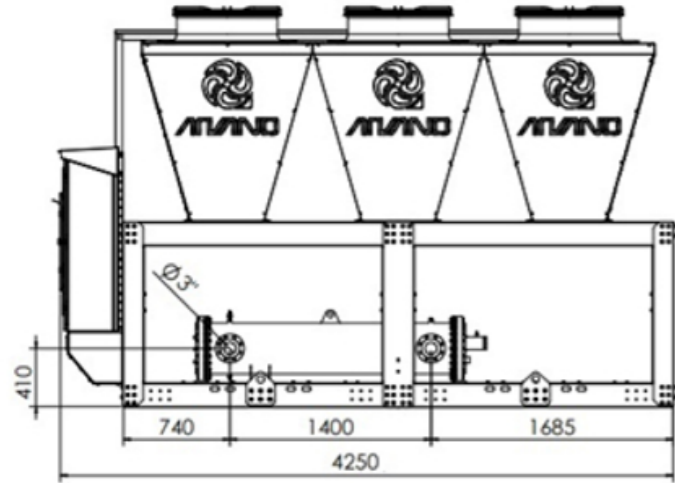
ACW20255HHSN

ACW20250HHLN

Models

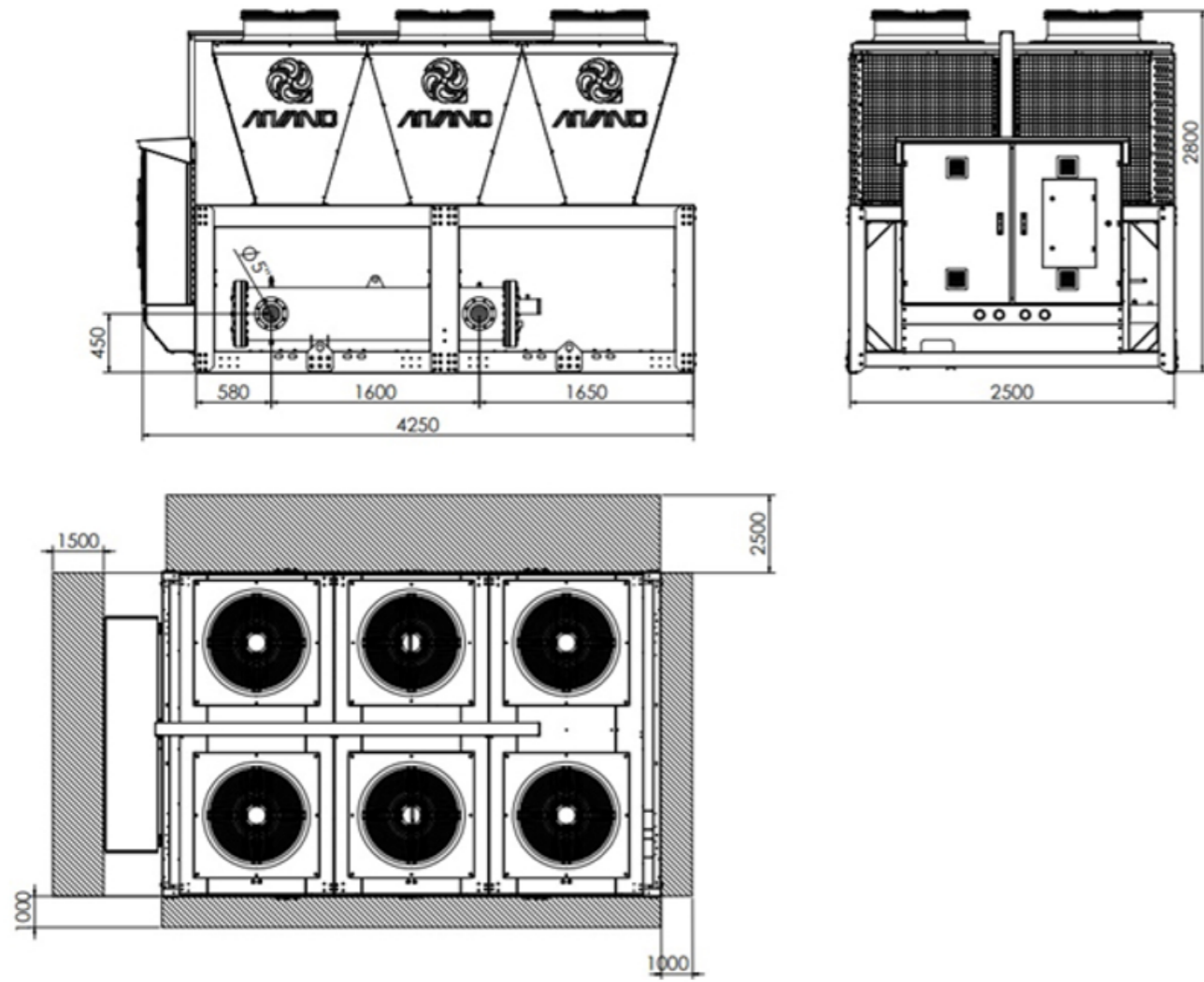
ACW20315HHSN

ACW20310SHLN



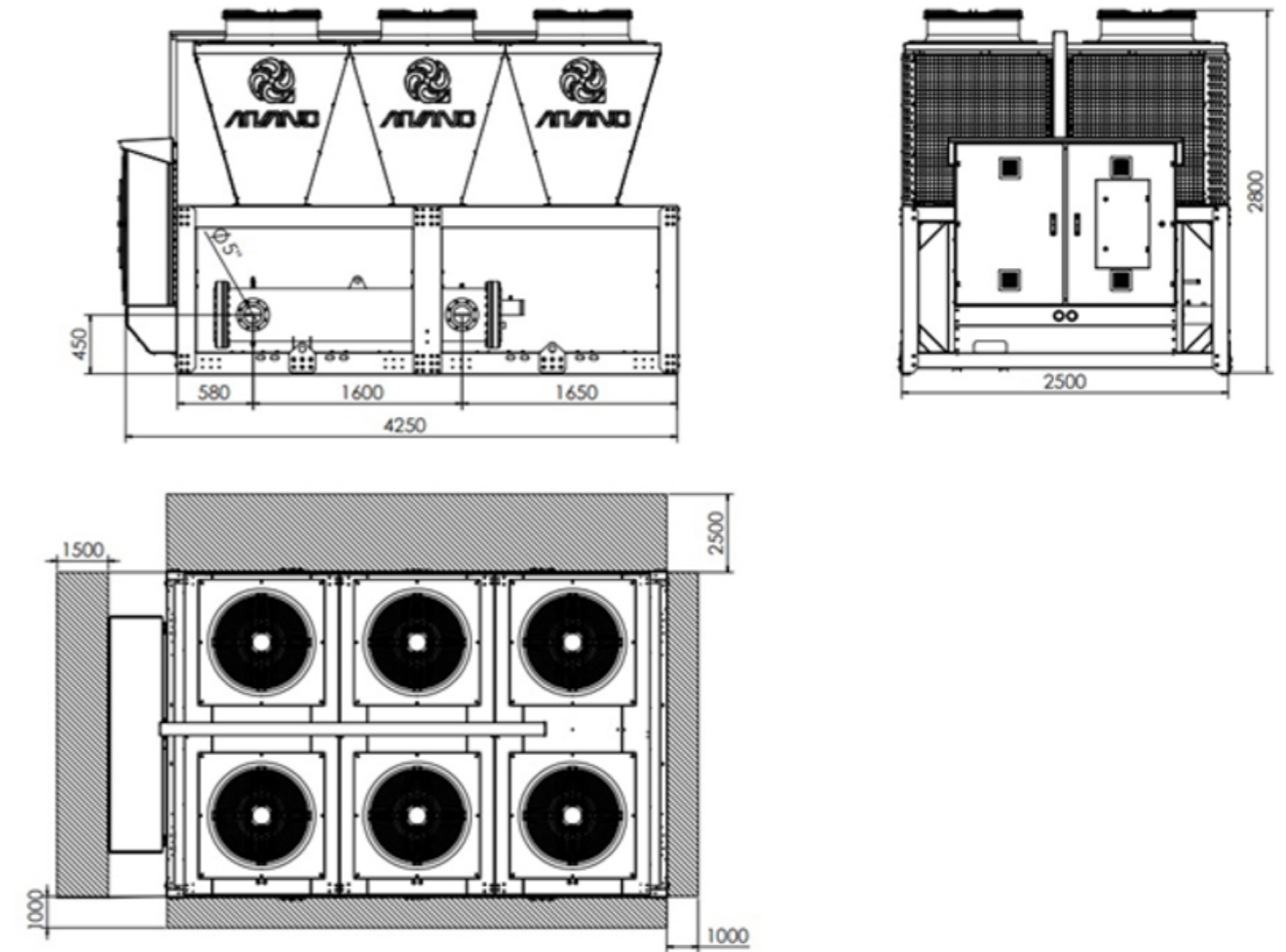
Models

| | | | |
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| ACW20300HHSN | ACW20335SSSN | ACW20295SHLN | ACW20330MSLN |
|--------------|--------------|--------------|--------------|



Models

| | | | |
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| ACW10290HHSN | ACW10325HPSN | ACW10285SHLN | ACW10320SHLN |
|--------------|--------------|--------------|--------------|



Models

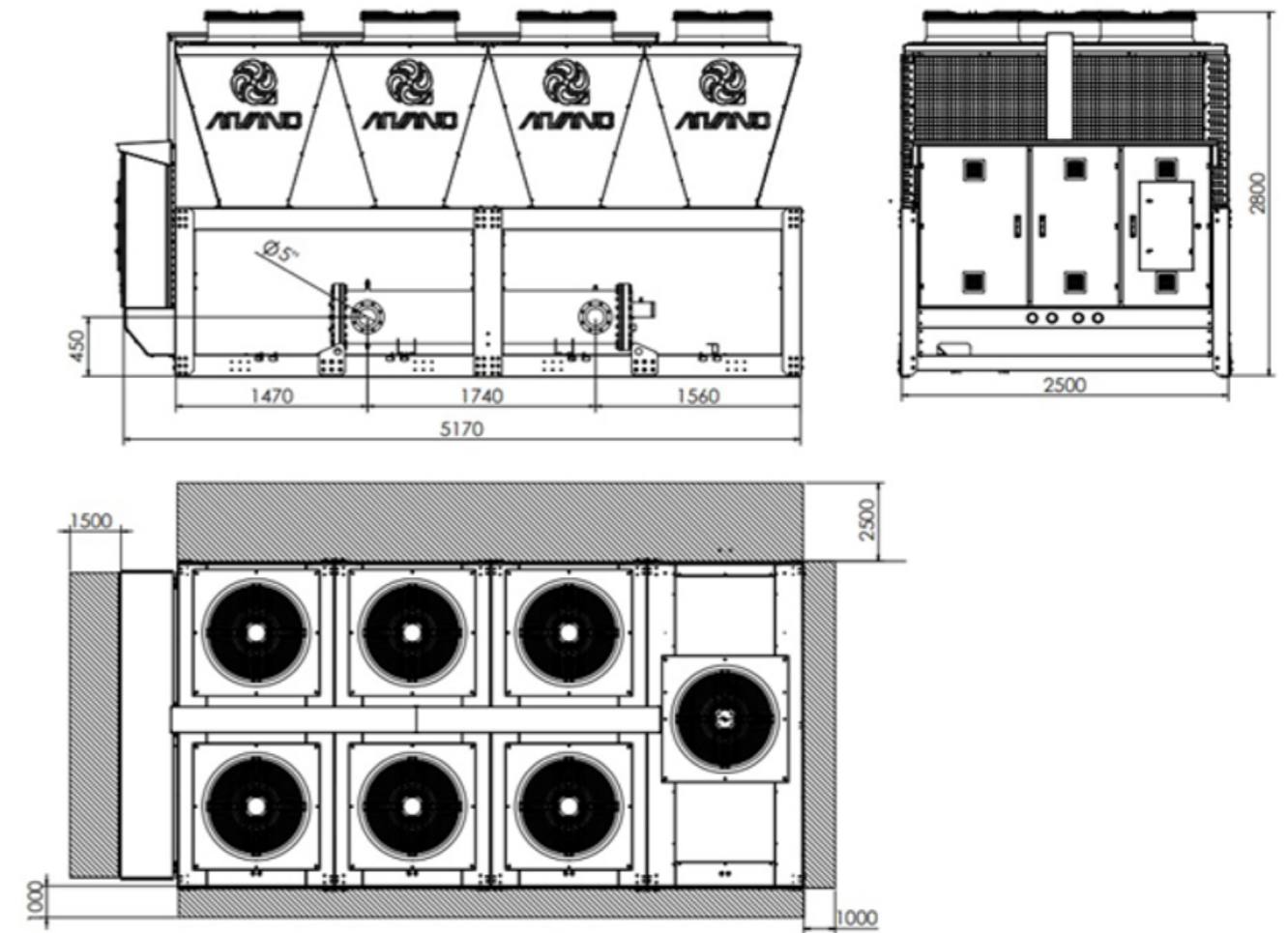
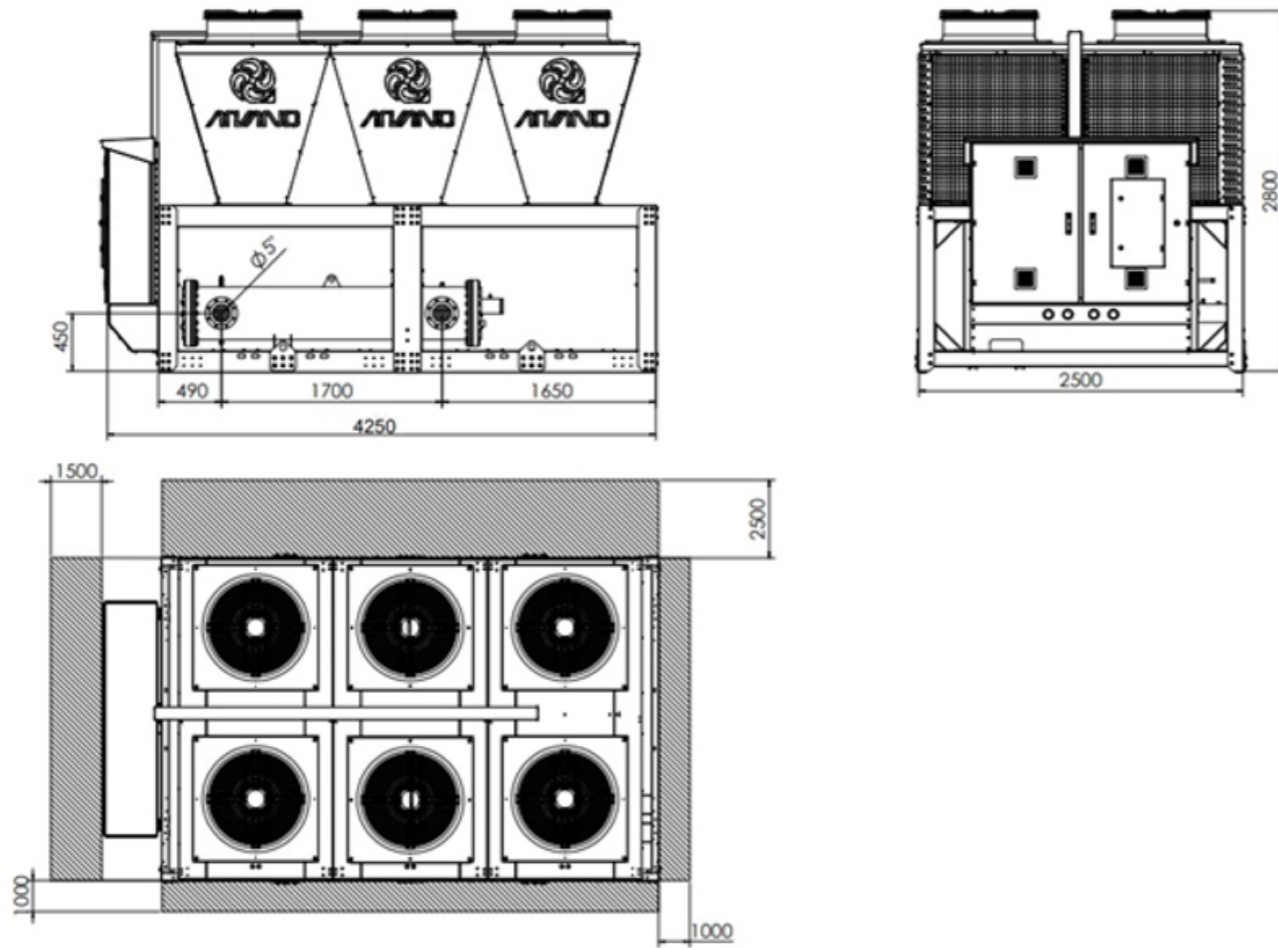
ACW20375SHSN

ACW20365SSLN

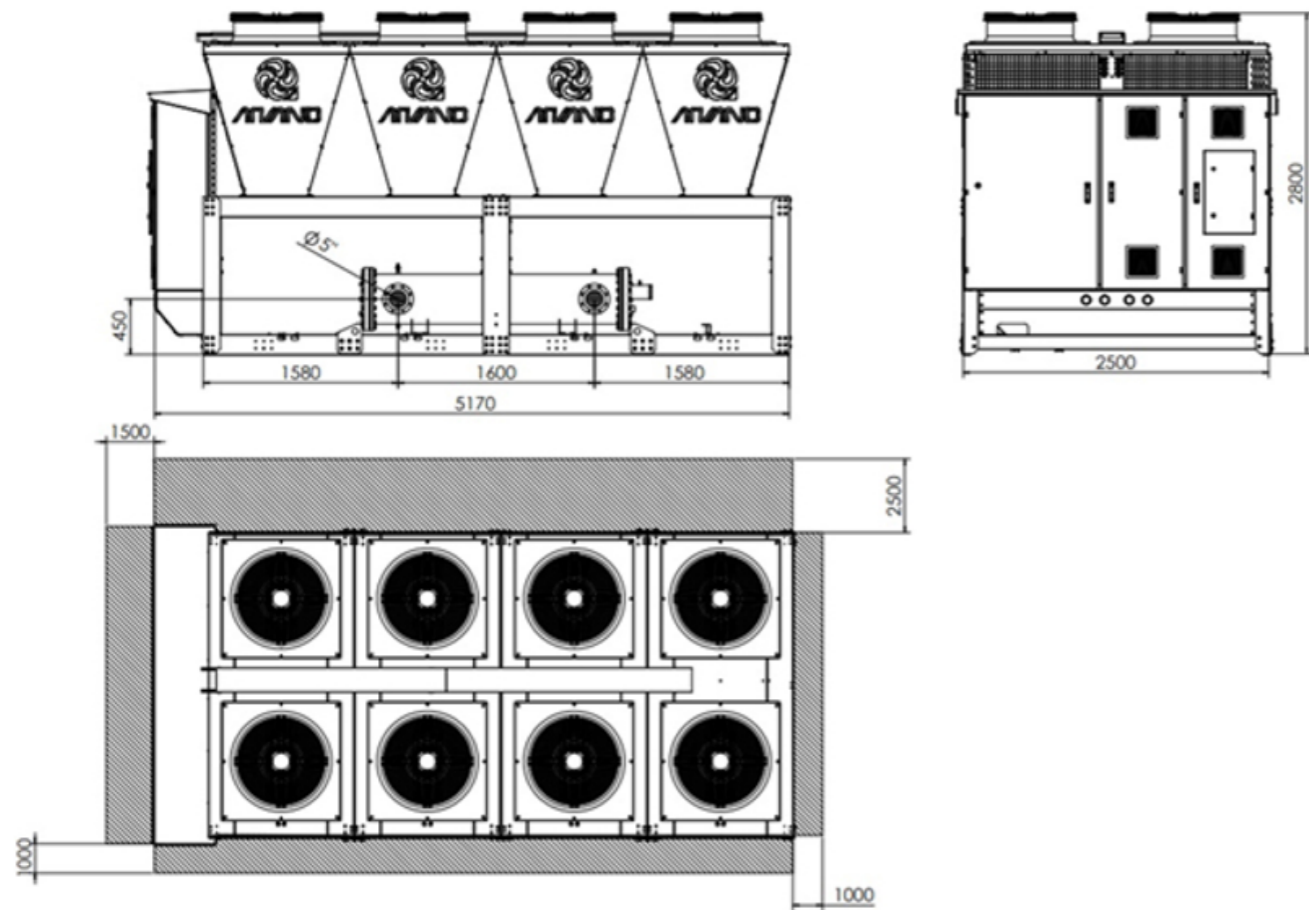
Models

ACW20400SSSN

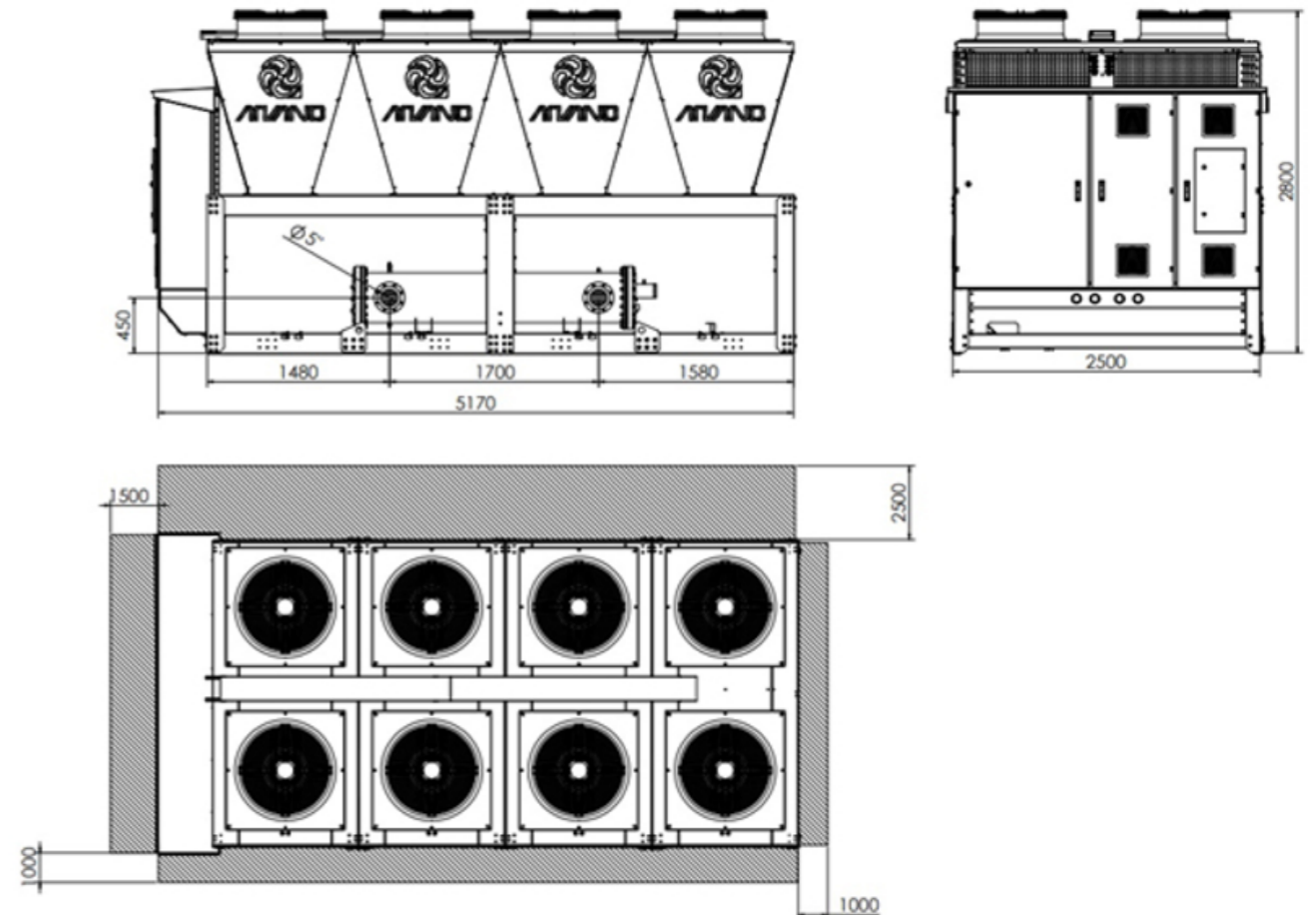
ACW20390MSLN



| Models | |
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| ACW20350HHSN | ACW20340SHLN |



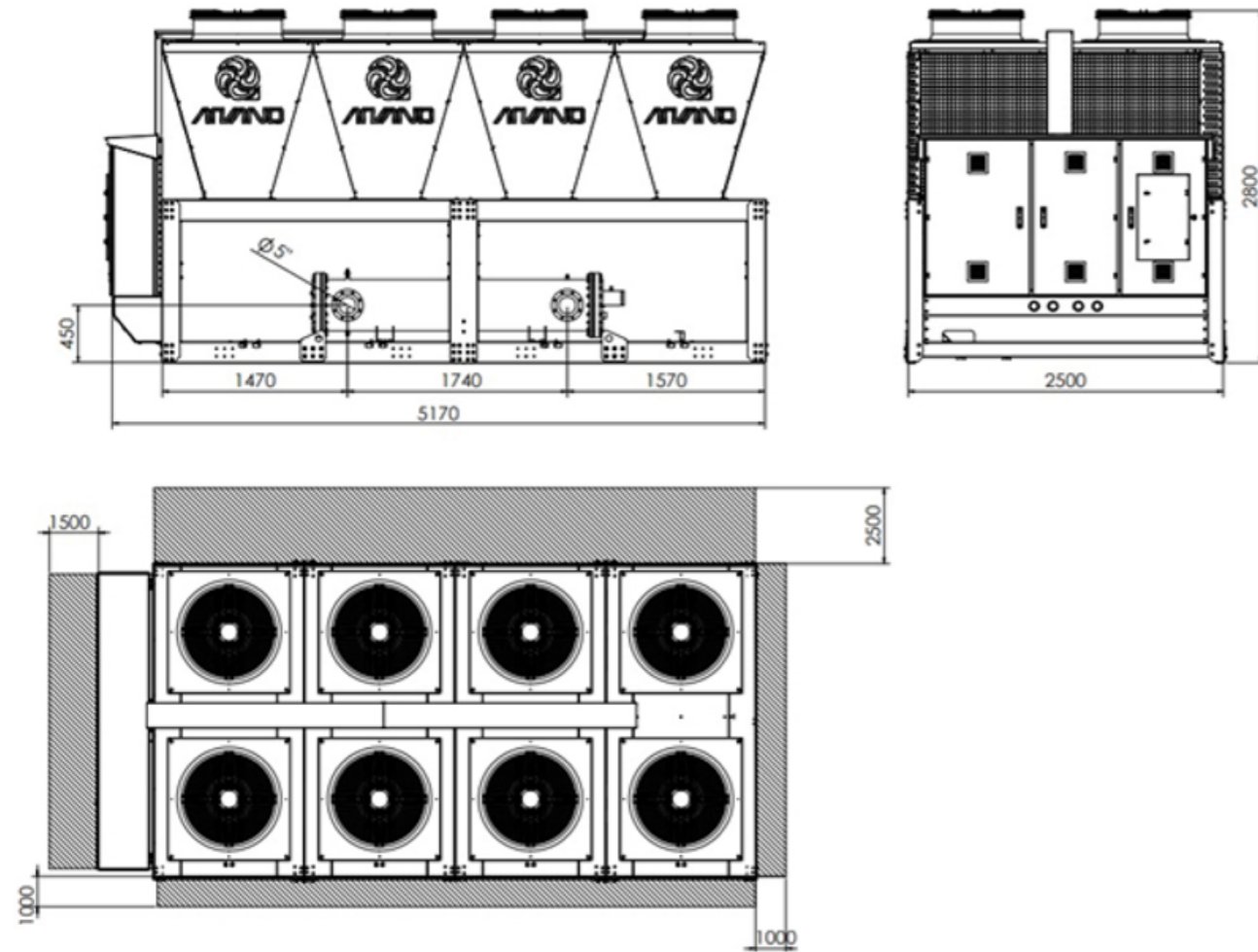
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| ACW20385HHSN | ACW20425SSSN | ACW20435HHSN |
| ACW20375SHLN | ACW20420SSLN | ACW20425SHLN |



Models

ACW20410HHSN

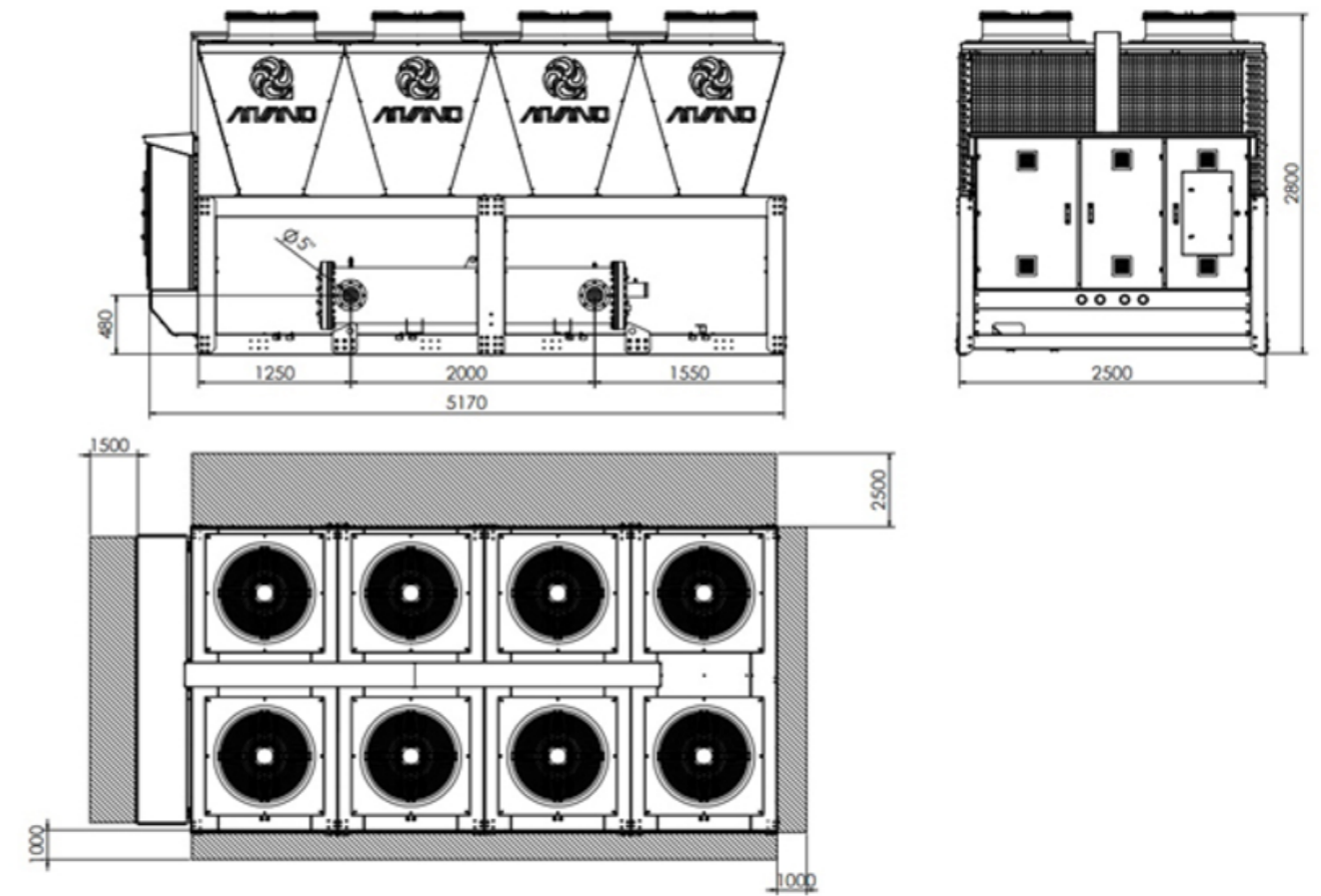
ACW20405SHLN



Models

ACW20500SSSN

ACW20485MSLN



Models

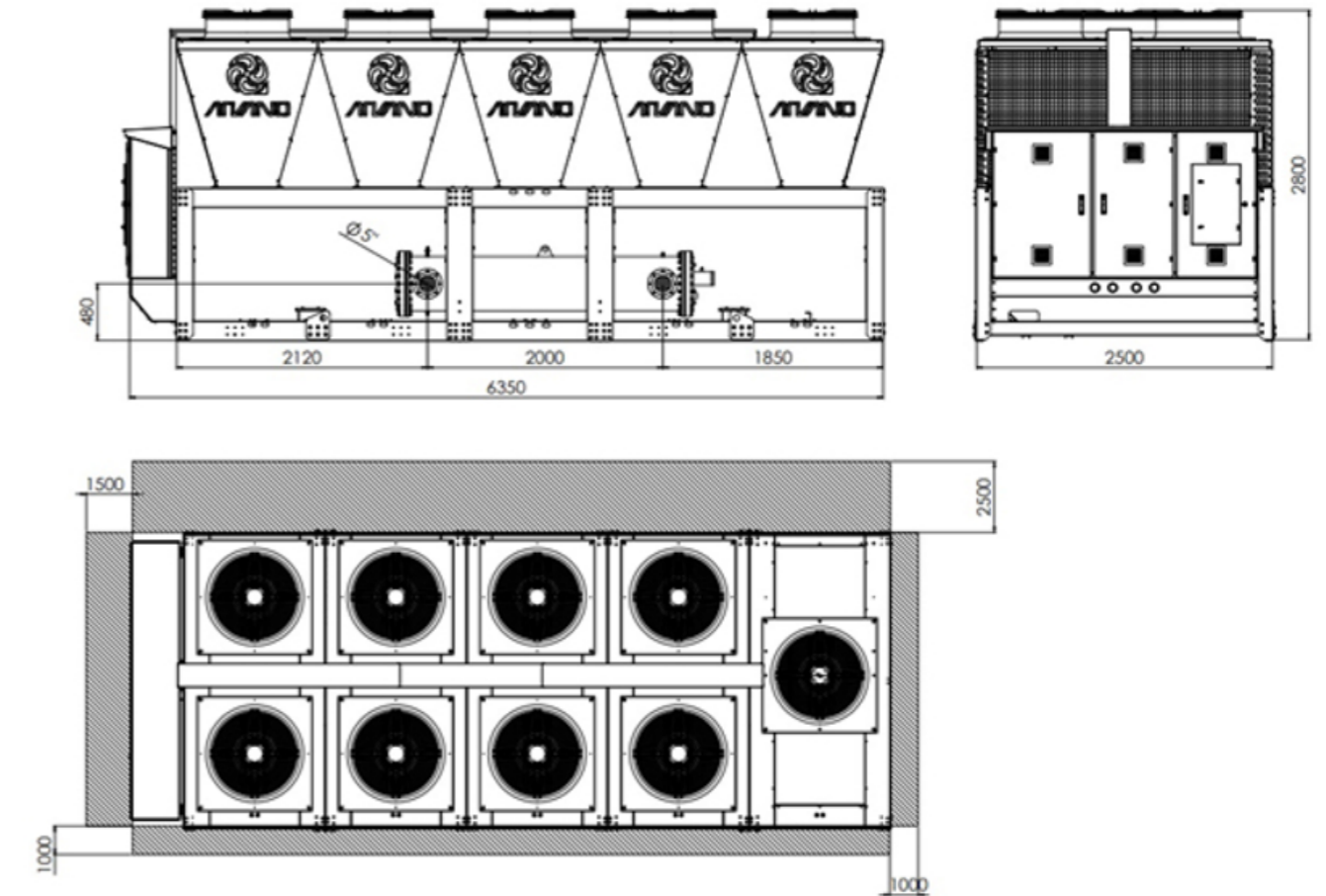
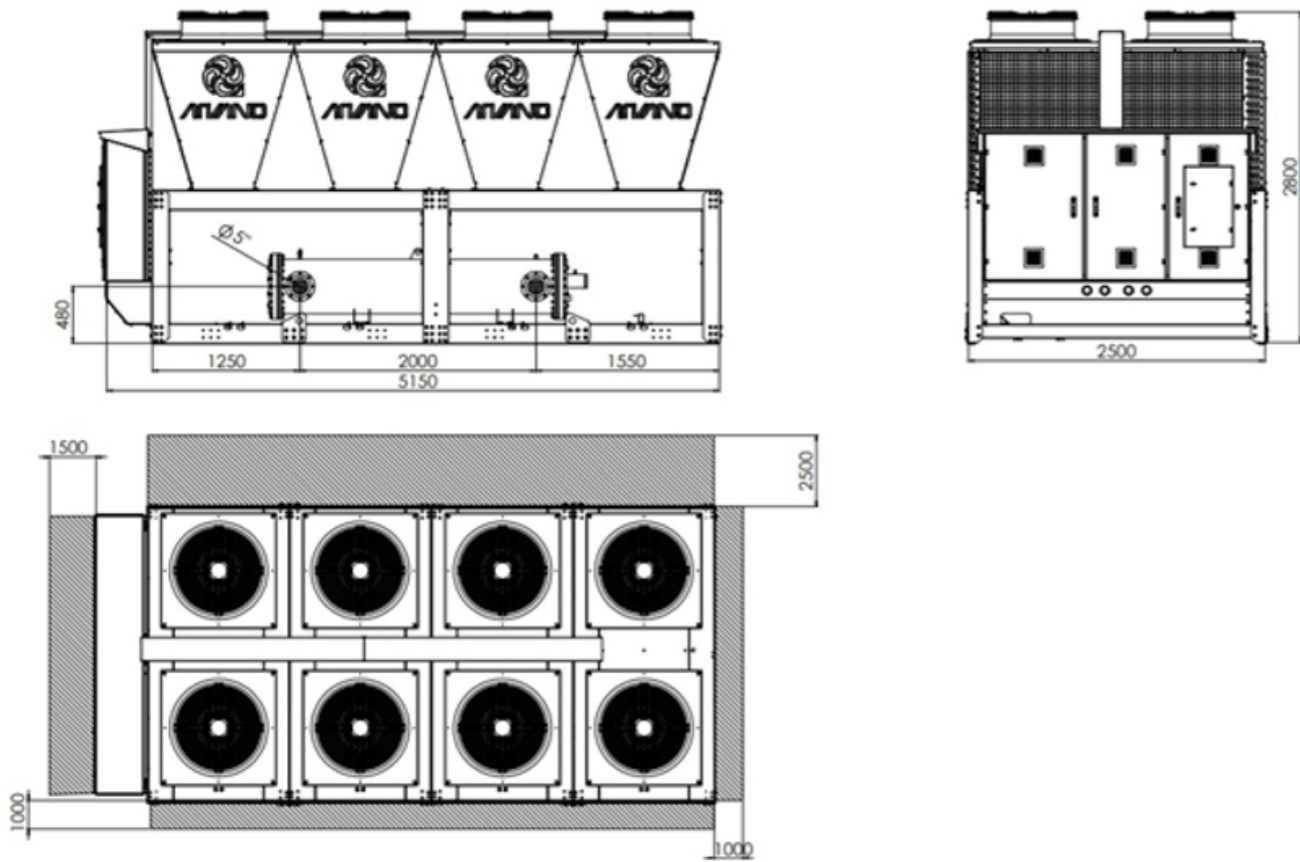
ACW20480SHSN

ACW20470SHLN

Models

ACW20485HPSN

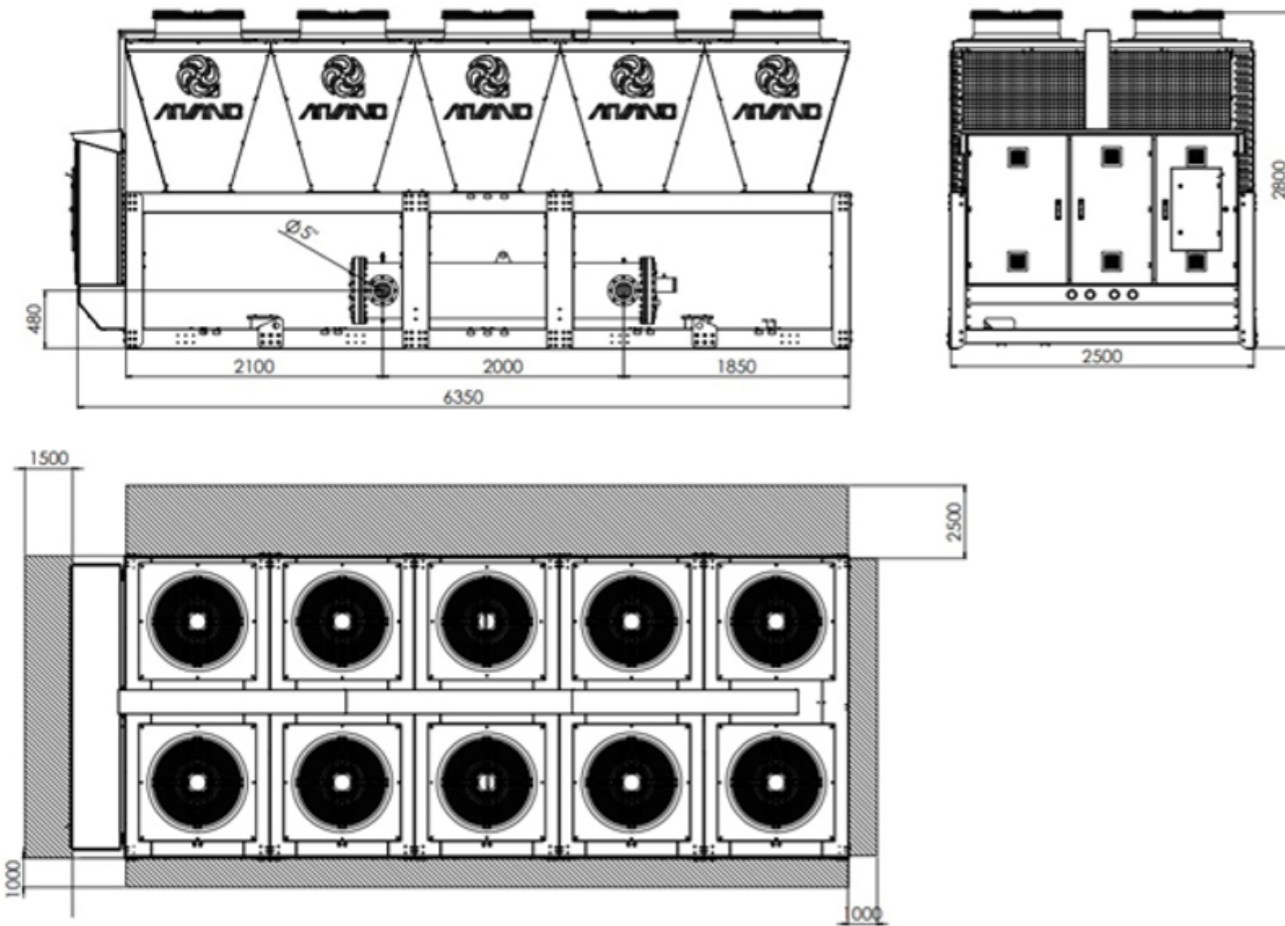
ACW20480SPLN



Models

ACW20515HHSN

ACW20505SHLN



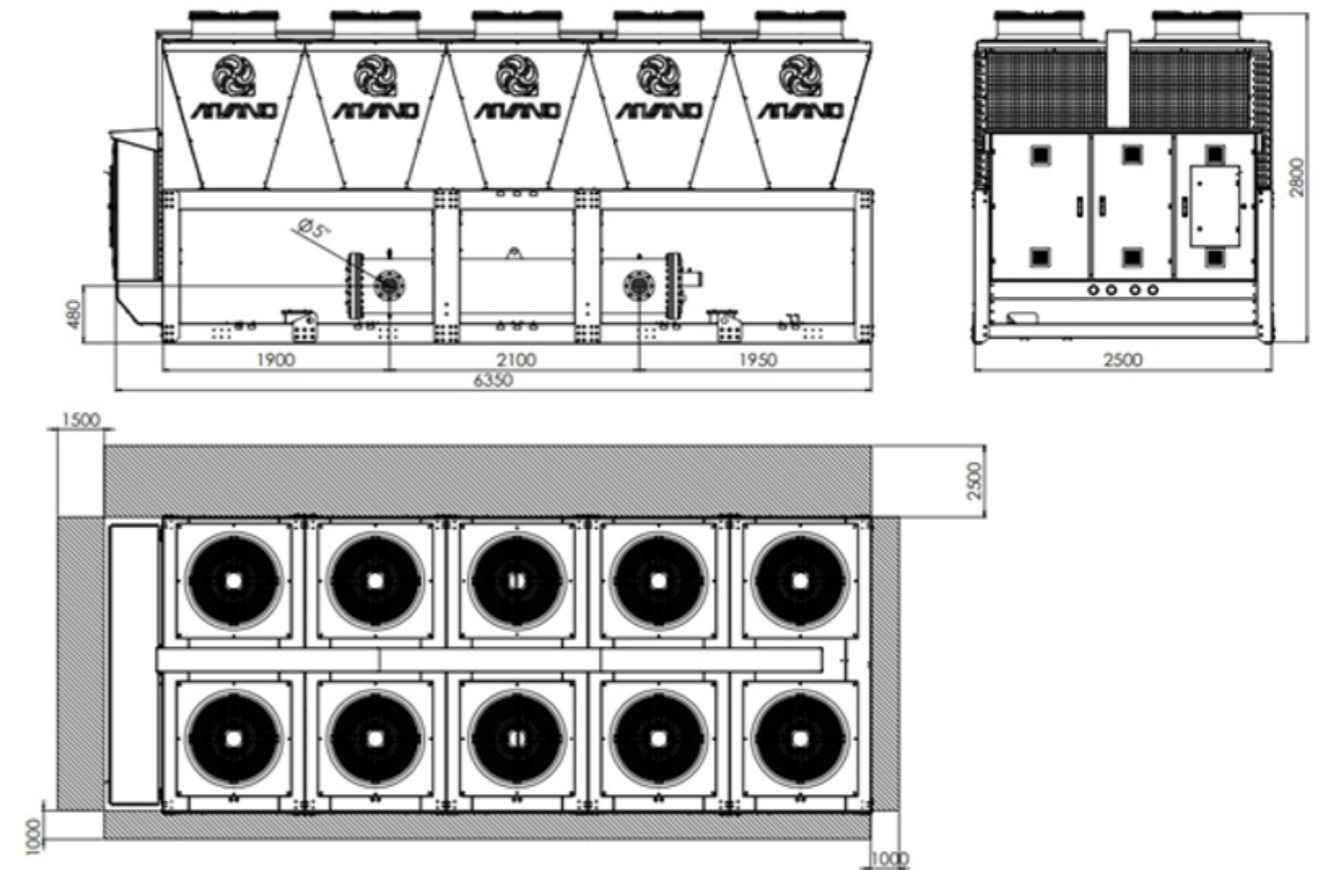
Models

ACW20565SHSN

ACW20620SSSN

ACW20550SSLN

ACW20600MELN



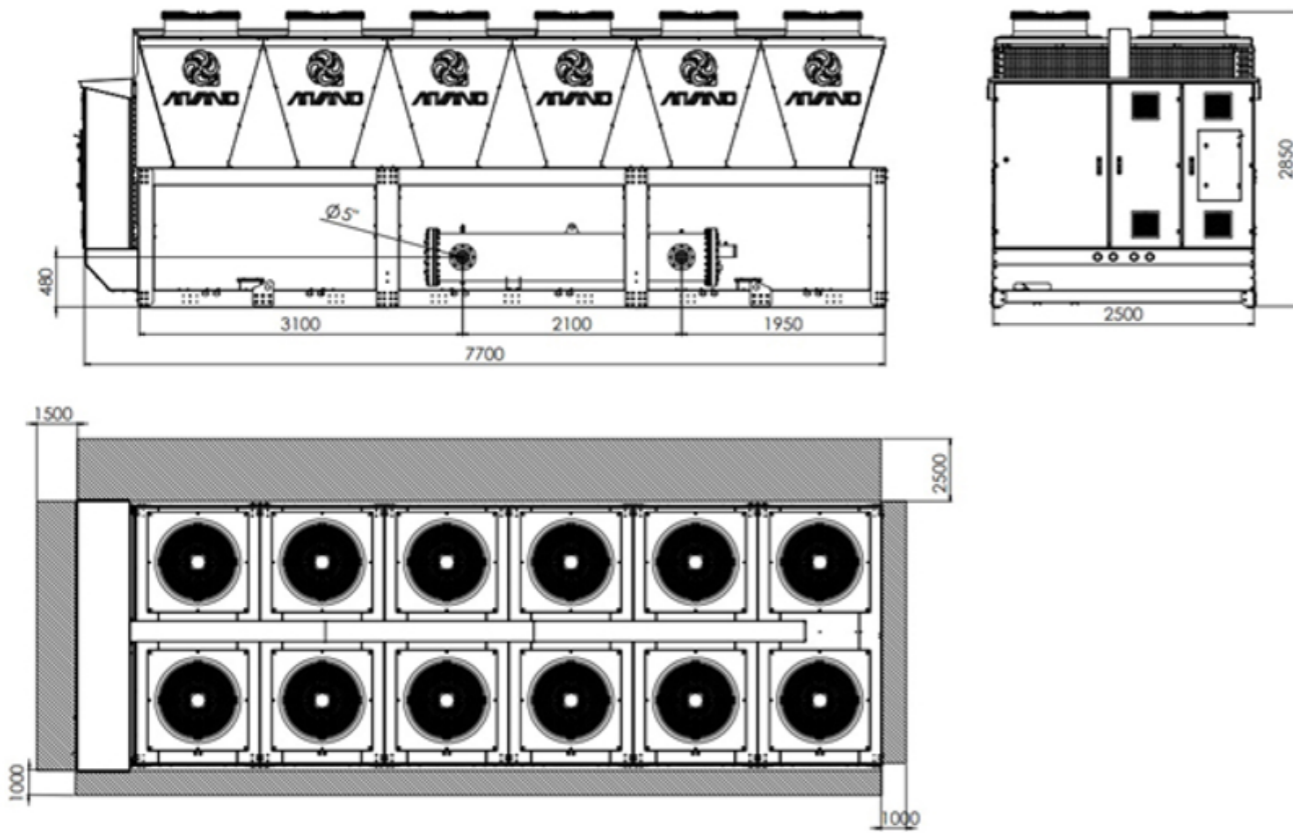
Models

ACW20575HHSN

ACW20645HHSN

ACW20565SHLN

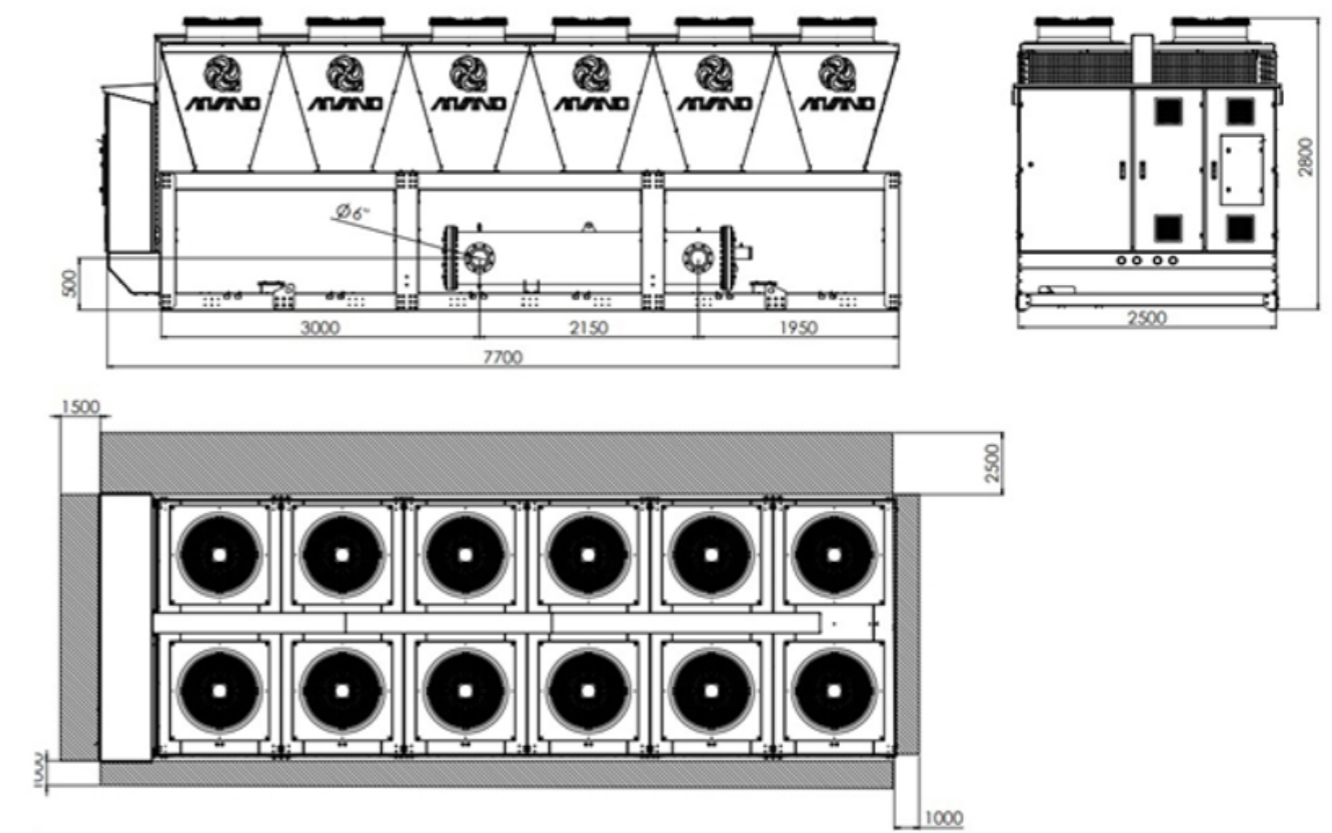
ACW20635SHLN



Models

ACW20760SHSN

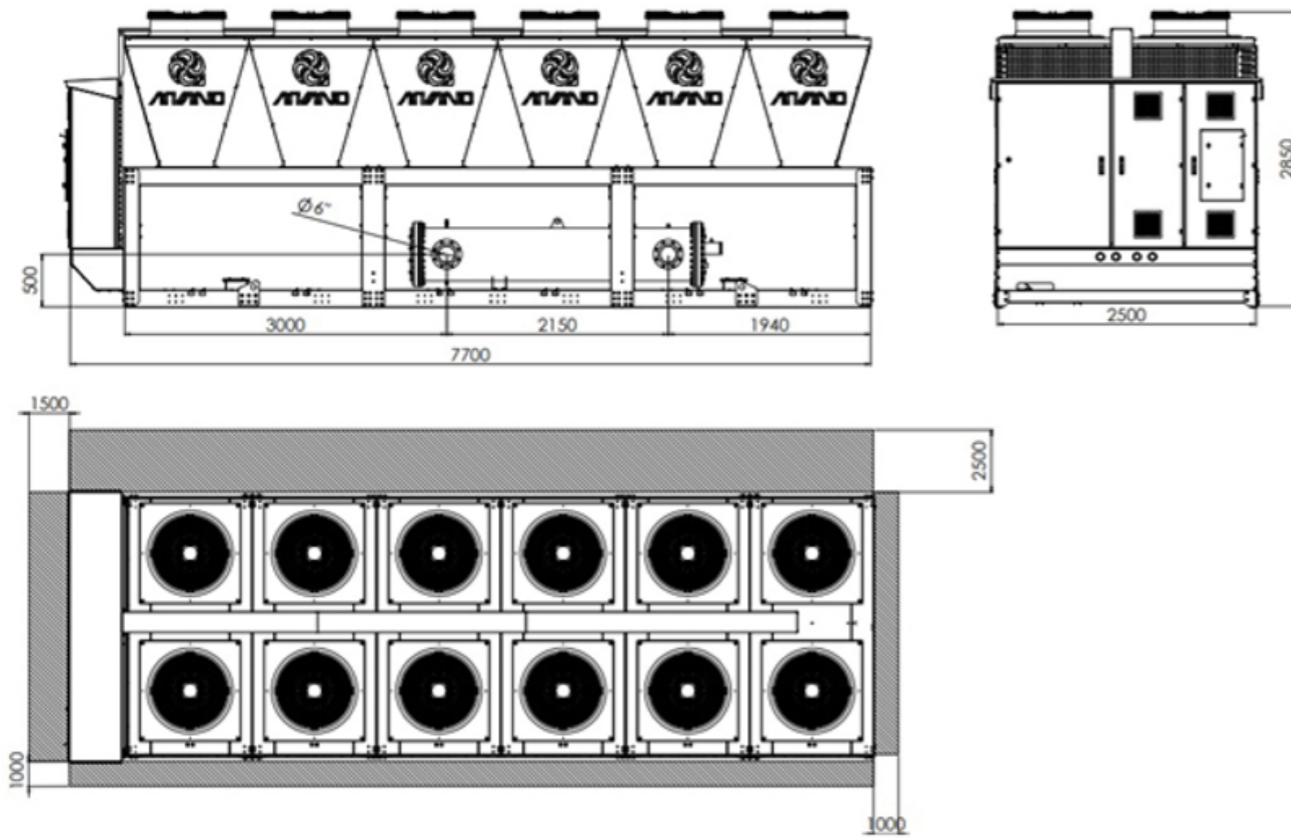
ACW20735SHLN



Models

ACW20710SHSN

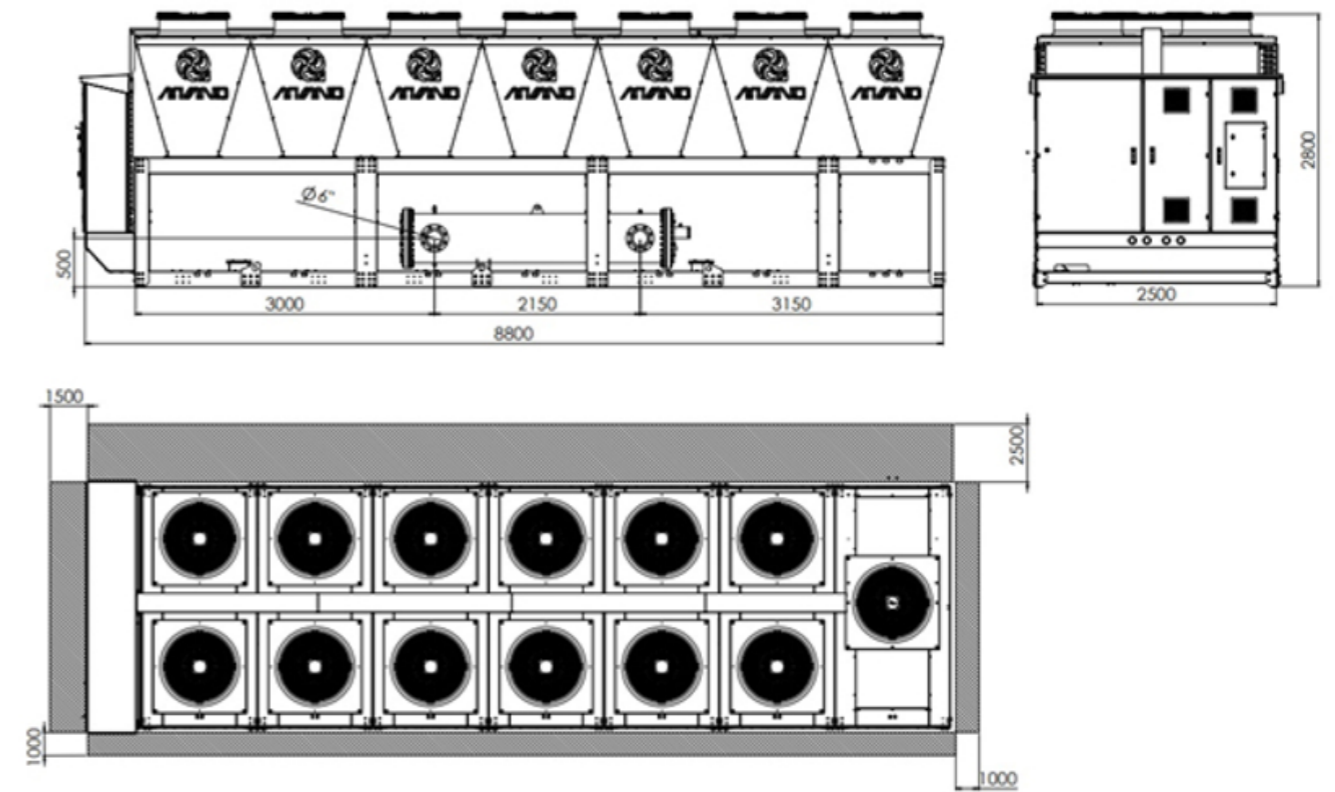
ACW20695SHLN



Models

ACW20720HPSN

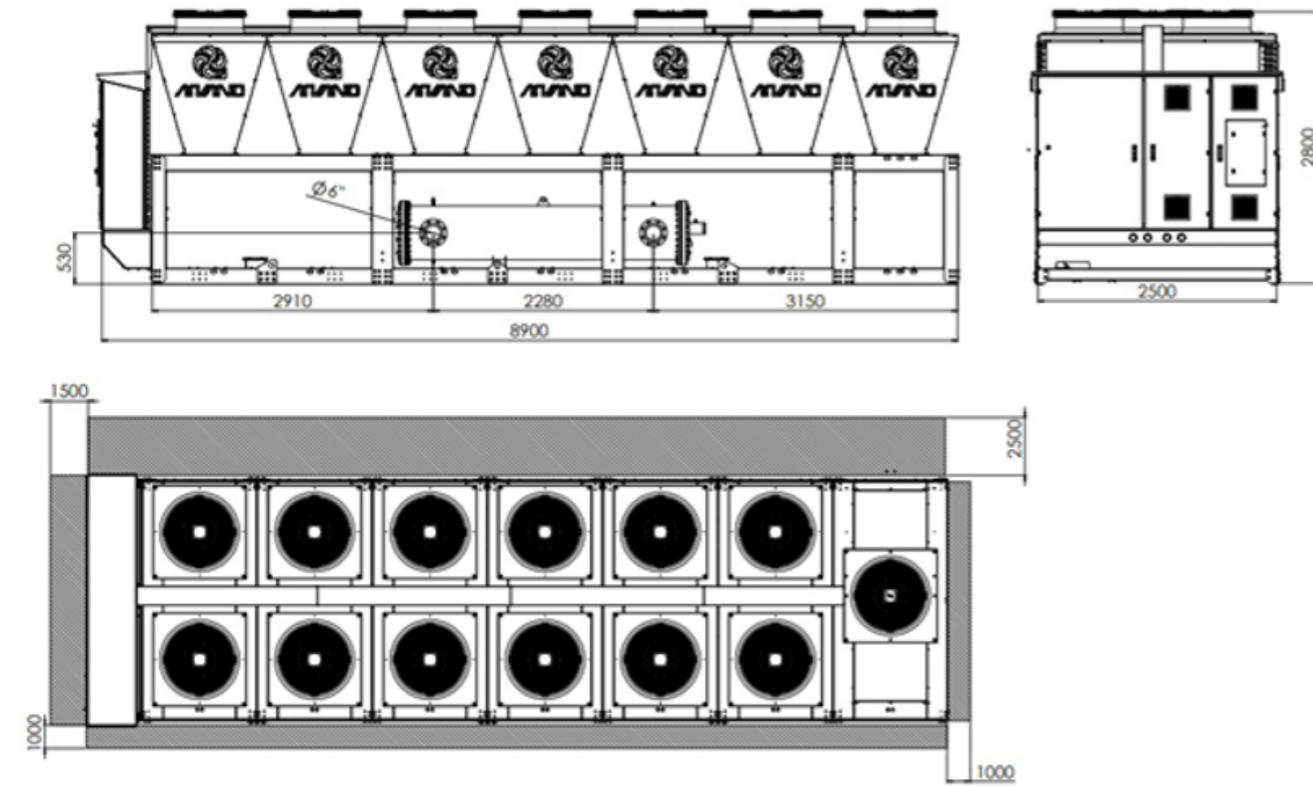
ACW20705SHLN



Models

ACW20830SPSN

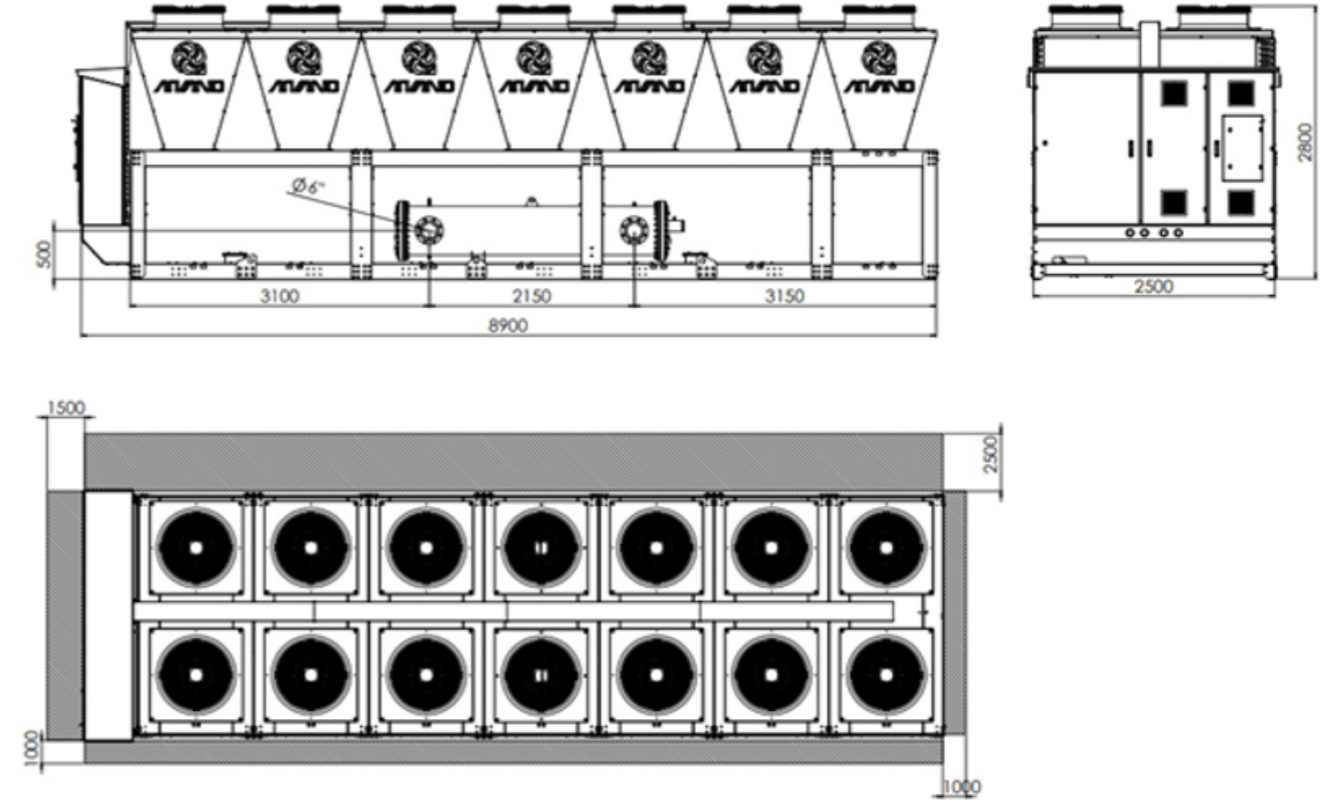
ACW20810SHLN



Models

ACW20770HPSN

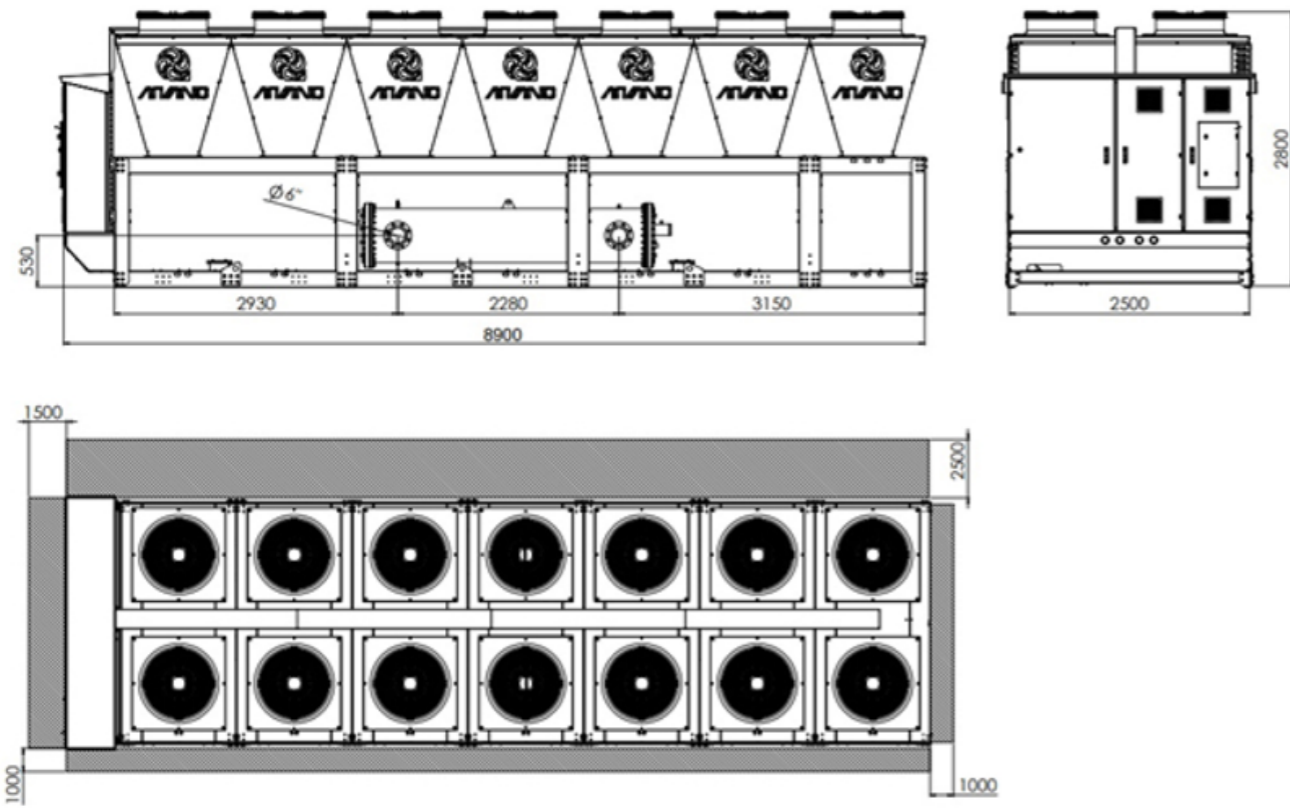
ACW20755SHLN



Models

ACW20870SHSN

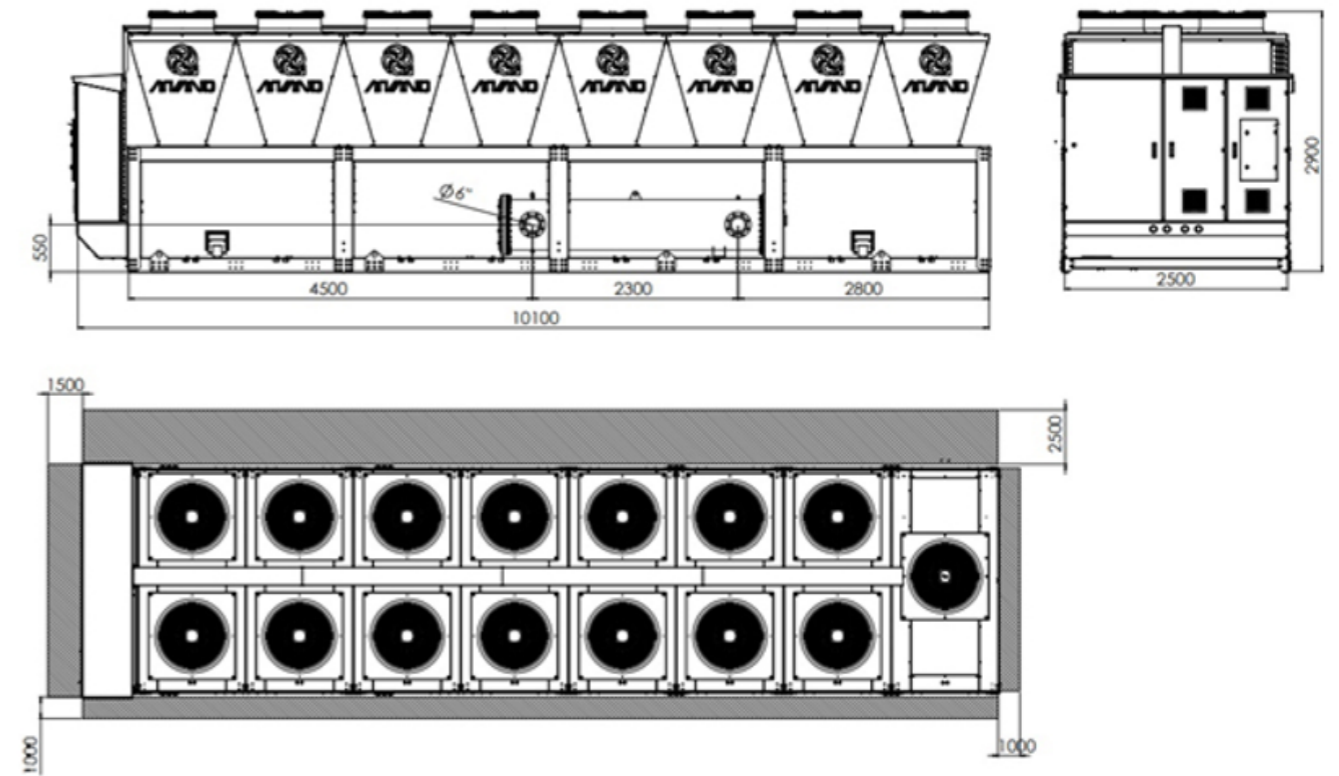
ACW20845MHLN



Models

ACW20845HPSN

ACW20830SPLN



Models

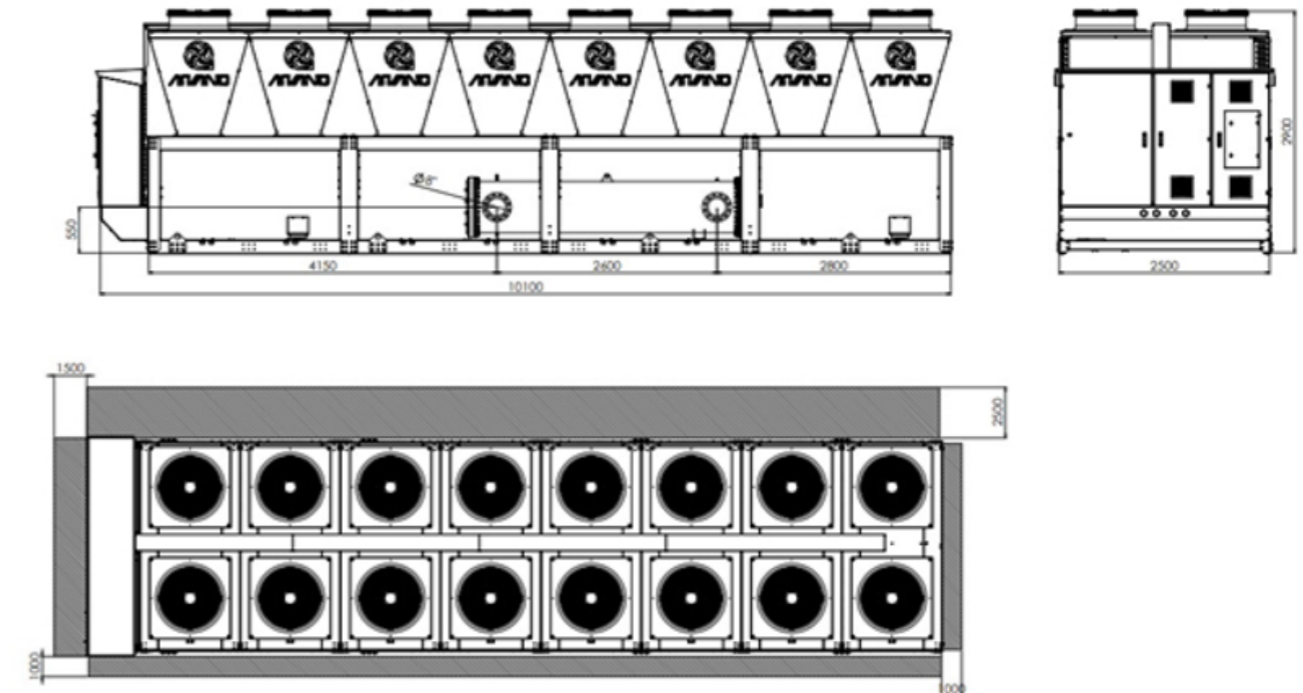
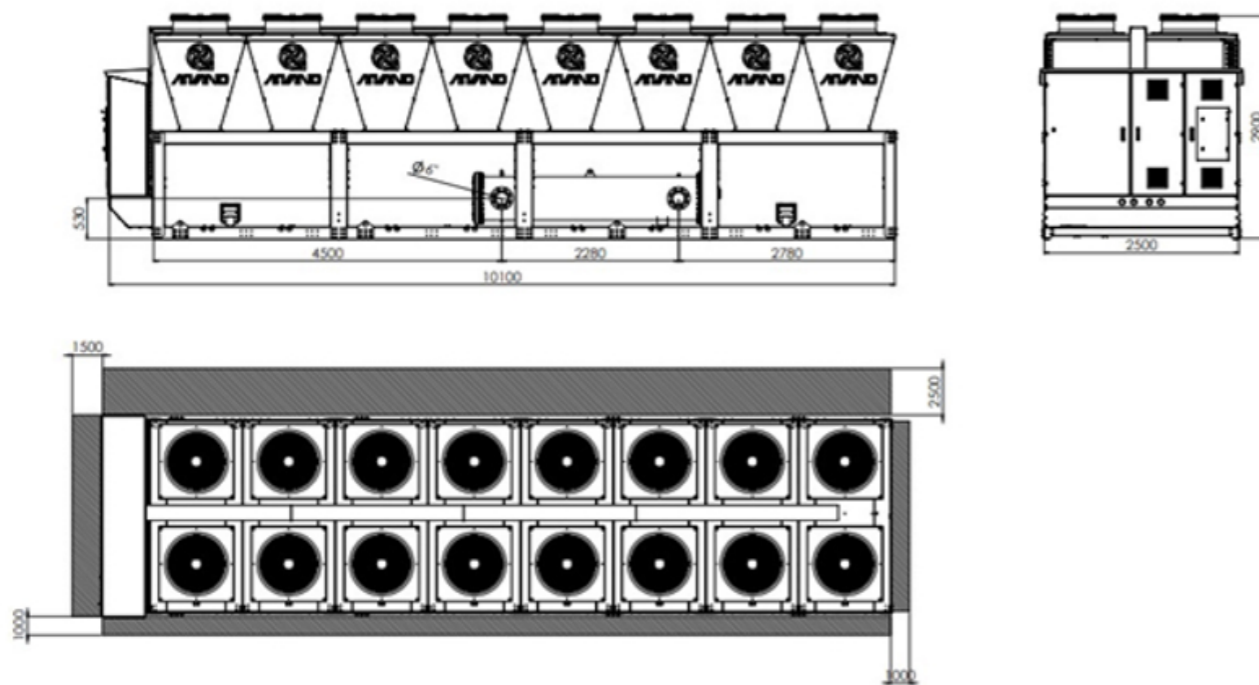
ACW20905HPSN

ACW20885SPLN

Models

ACW21035SPSN

ACW21010SHLN



Models

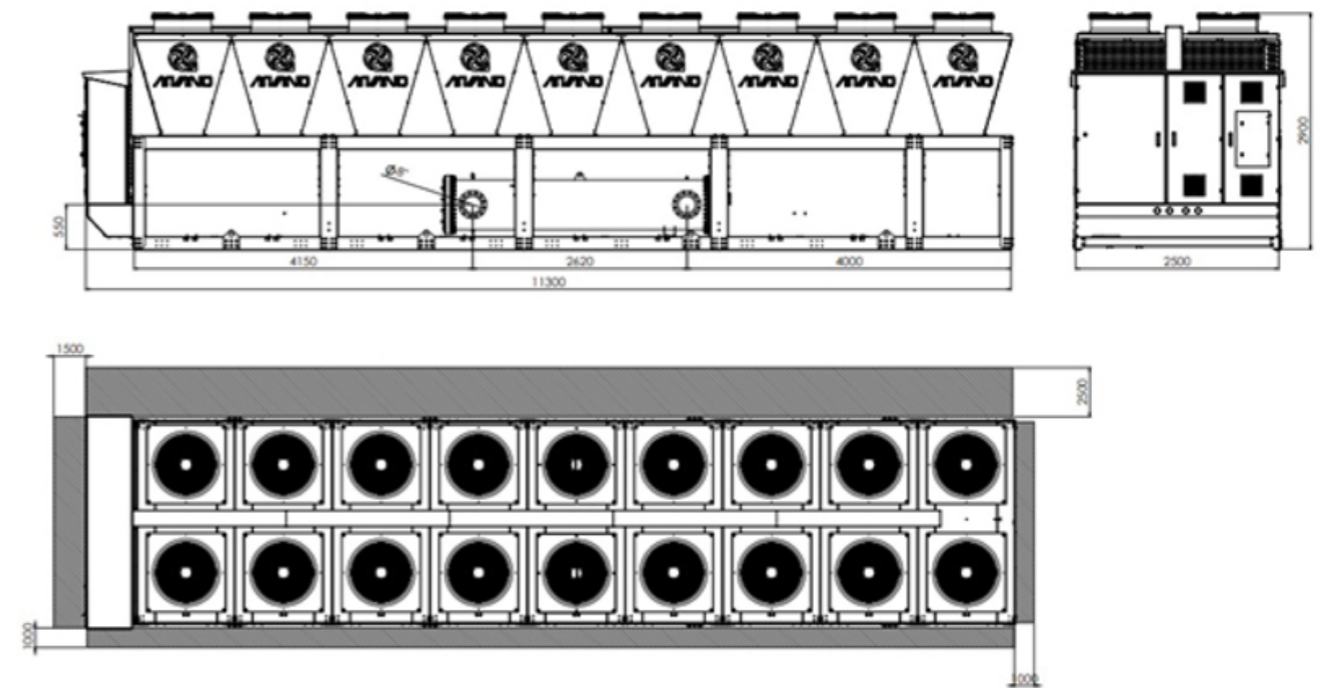
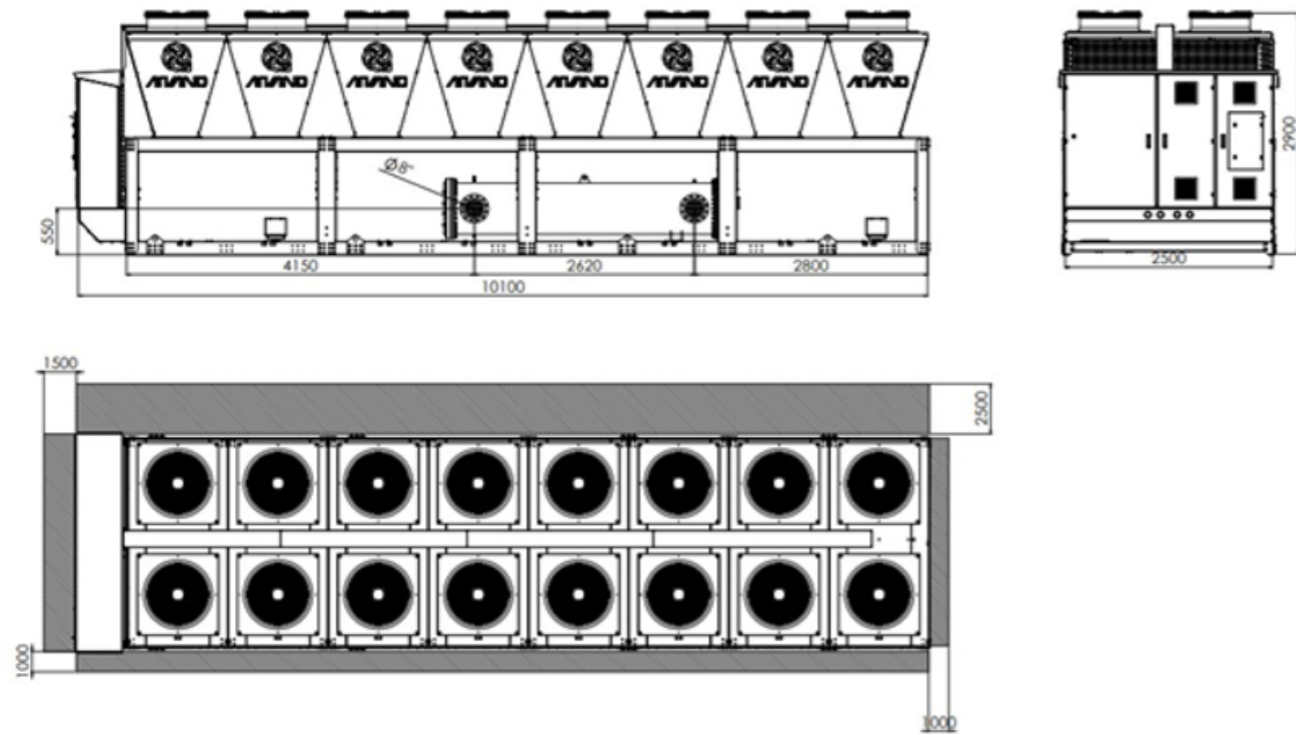
ACW21085SHSN

ACW21055MHLN

Models

ACW21050HPSN

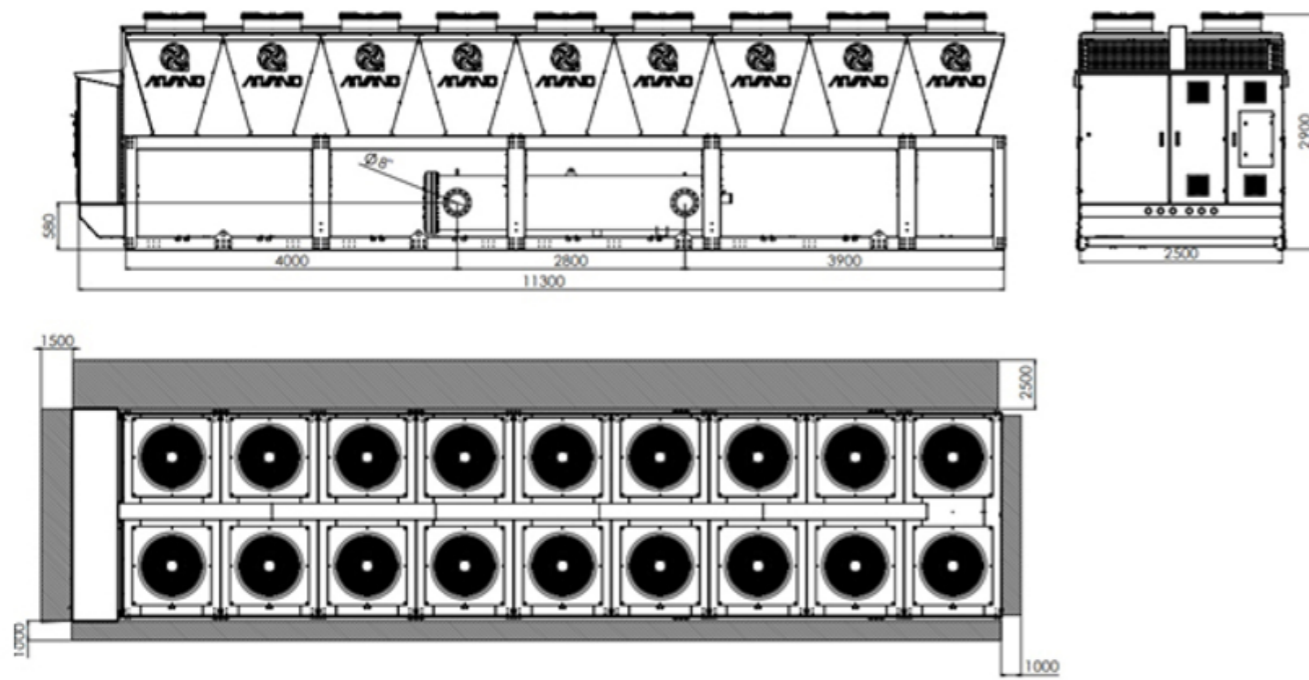
ACW21030SPLN



Models

ACW31250HSSN

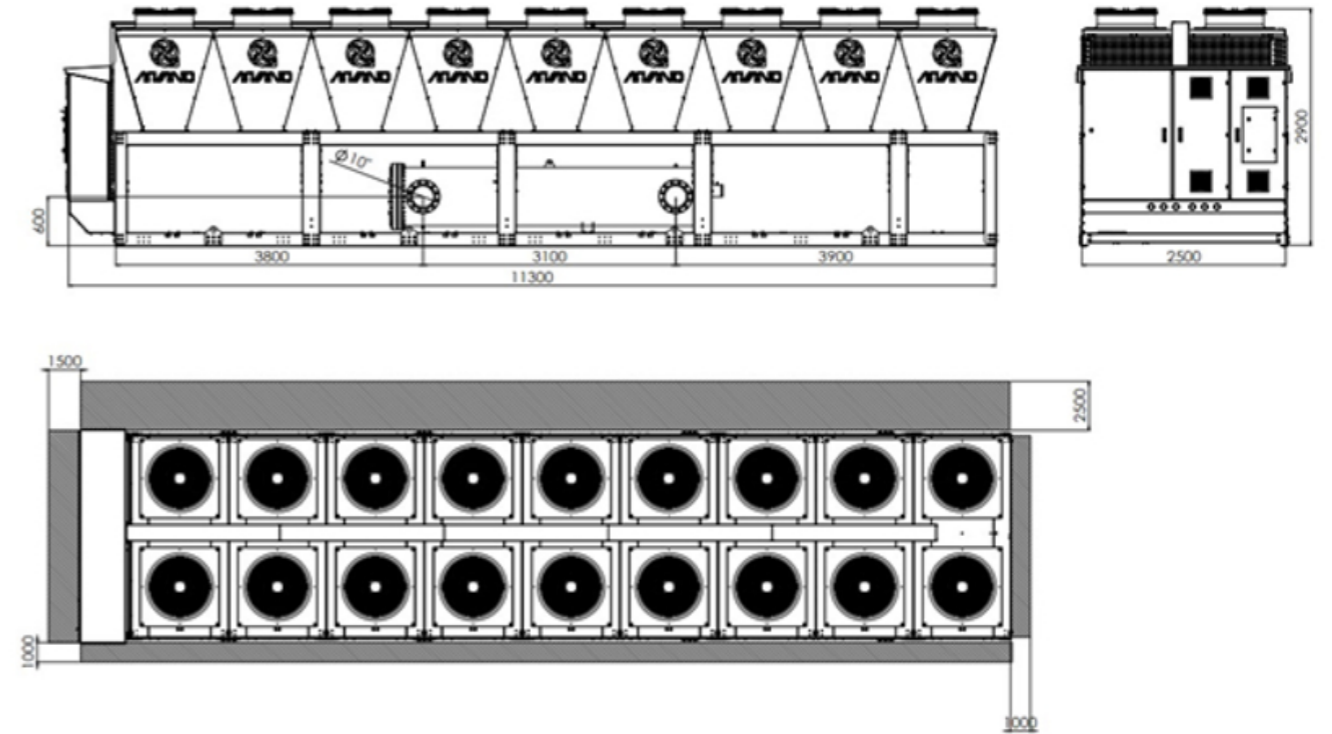
ACW31210SELN



Models

ACW31455HSSN

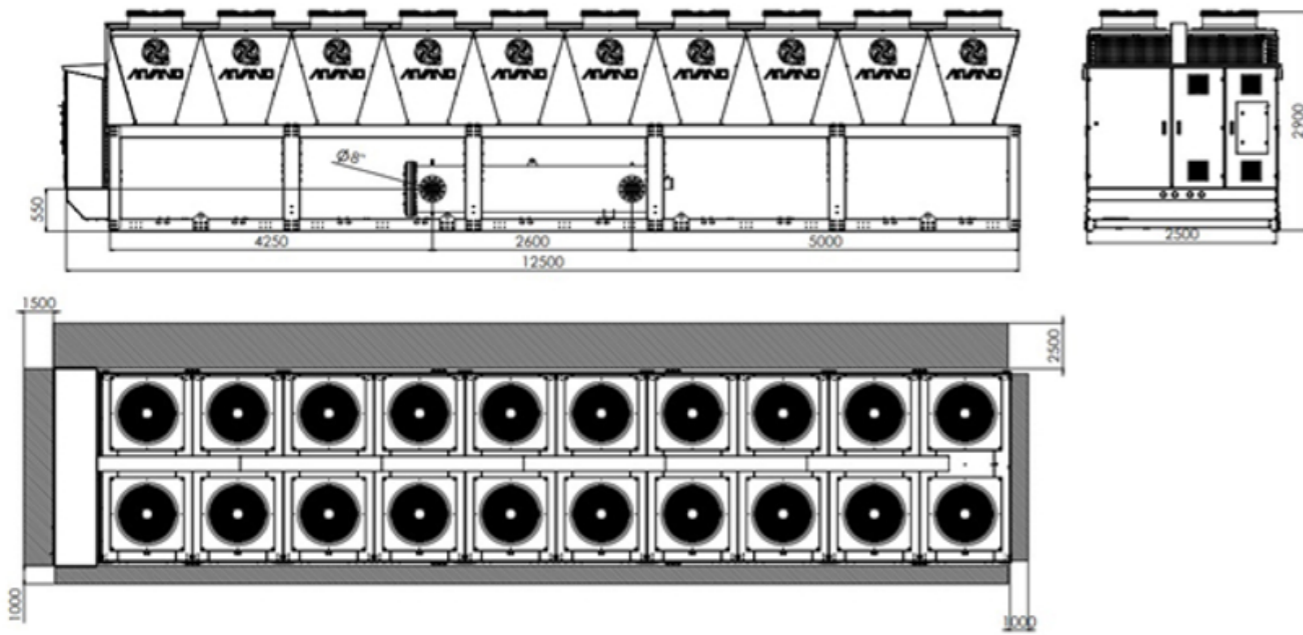
ACW31395SELN



Models

ACW21115HPSN

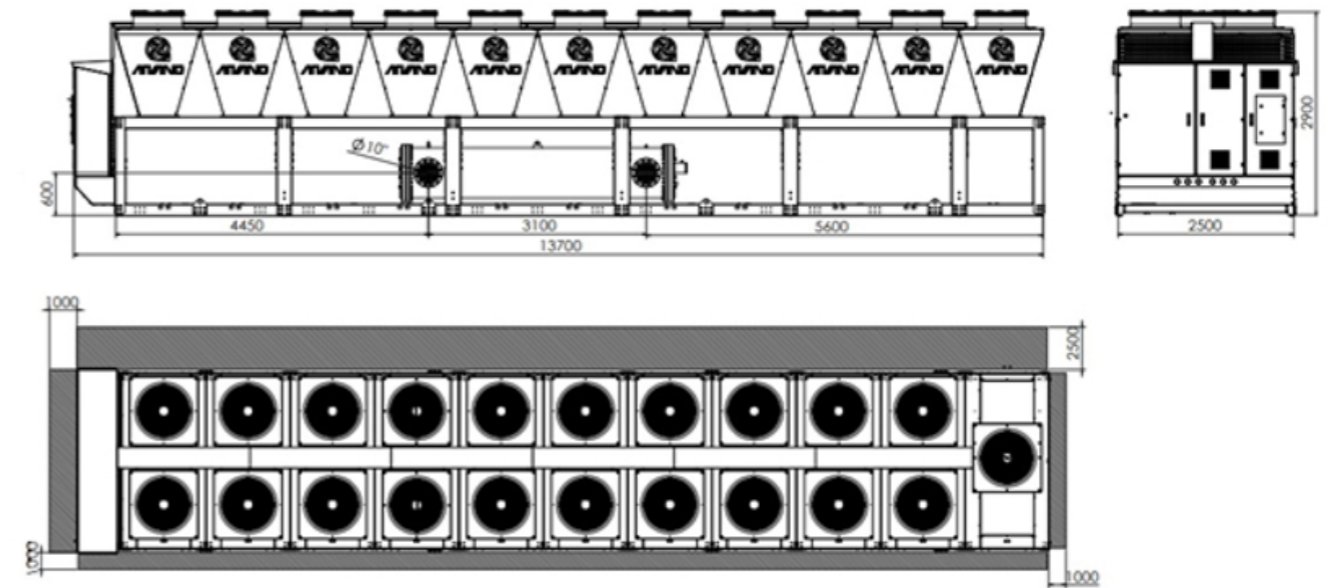
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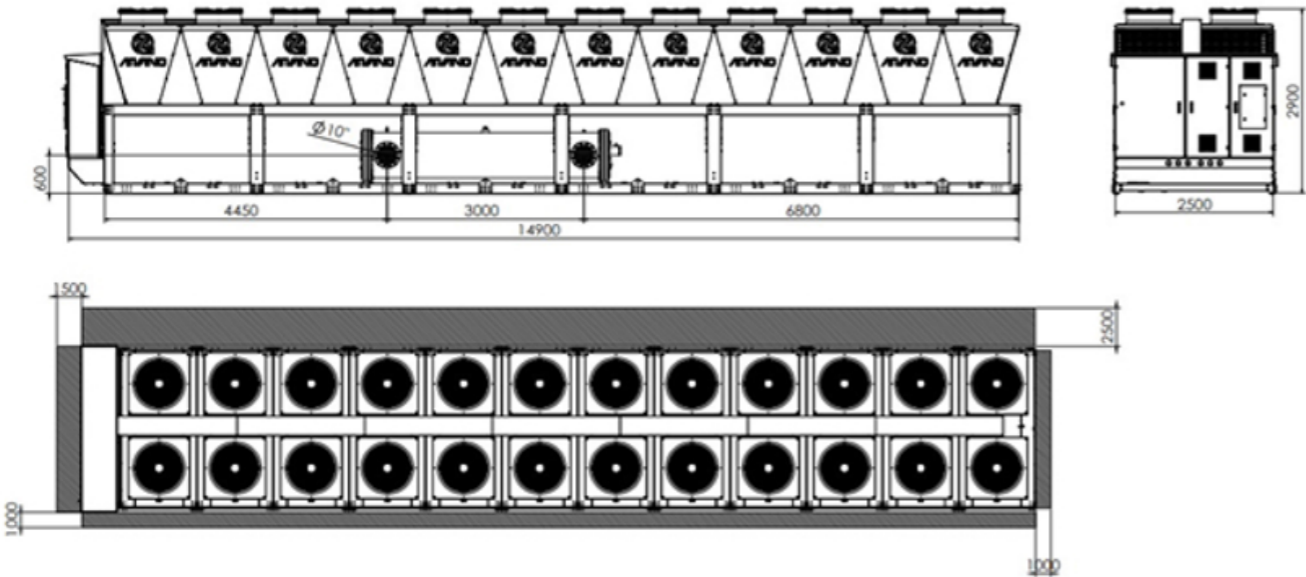
Models

ACW31510SHSN

ACW31465MSLN



| Models |
|--|
| <div style="display: flex; justify-content: space-between; width: 100%;"> ACW31540SPSN ACW31500SHLN </div> |



Standard Noise, Standard Ambient Temperature, 1-Compressor Units

| Model: ACW10100SSSN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--------------------------|------|------|-----|-------|------|------|-----|-------|------|------|-----|-------|------|------|-----|------|------|------|-----|----|---|-----|----|-----|----|---|-----|----|
| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | |
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd |
| 5 | 99.3 | 29.4 | 17.0 | 3.7 | 93.7 | 31.7 | 16.1 | 3.3 | 87.8 | 34.4 | 15.0 | 2.9 | 84.1 | 36.3 | 14.4 | 2.6 | 80.4 | 38.3 | 13.8 | 2.4 | | | | | | | | | 49 |
| 6 | 102.8 | 29.7 | 17.6 | 3.9 | 97.0 | 32.0 | 16.6 | 3.5 | 90.9 | 34.8 | 15.6 | 3.1 | 87.2 | 36.6 | 14.9 | 2.8 | 83.4 | 38.7 | 14.3 | 2.6 | | | | | | | | | 49 |
| 7 | 106.3 | 30.1 | 18.2 | 4.2 | 100.3 | 32.4 | 17.2 | 3.7 | 94.1 | 35.1 | 16.1 | 3.3 | 90.3 | 37.0 | 15.5 | 3.0 | 86.4 | 39.1 | 14.8 | 2.8 | | | | | | | | | 49 |
| 8 | 109.9 | 30.4 | 18.8 | 4.5 | 103.8 | 32.8 | 17.8 | 4.0 | 97.4 | 35.5 | 16.7 | 3.5 | 93.5 | 37.4 | 16.0 | 3.3 | 89.5 | 39.5 | 15.3 | 3.0 | | | | | | | | | 49 |
| 9 | 113.7 | 30.8 | 19.5 | 4.8 | 107.4 | 33.2 | 18.4 | 4.3 | 100.9 | 35.9 | 17.3 | 3.8 | 96.8 | 37.8 | 16.6 | 3.5 | 92.7 | 39.9 | 15.9 | 3.2 | | | | | | | | | 49 |
| 10 | 117.6 | 31.2 | 20.2 | 5.1 | 111.1 | 33.6 | 19.0 | 4.6 | 104.4 | 36.4 | 17.9 | 4.0 | 100.2 | 38.3 | 17.2 | 3.7 | 96.0 | 40.4 | 16.5 | 3.4 | | | | | | | | | 48 |

| Model: ACW10110SSSN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--------------------------|------|------|-----|-------|------|------|-----|-------|------|------|-----|-------|------|------|-----|-------|------|------|-----|----|---|-----|----|-----|----|---|-----|----|
| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | |
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd |
| 5 | 111.3 | 32.7 | 19.1 | 4.6 | 104.7 | 35.5 | 17.9 | 4.1 | 97.8 | 38.6 | 16.8 | 3.6 | 93.6 | 40.7 | 16.0 | 3.3 | 89.3 | 42.9 | 15.3 | 3.0 | | | | | | | | | 49 |
| 6 | 115.1 | 33.1 | 19.7 | 4.9 | 108.3 | 35.9 | 18.6 | 4.3 | 101.2 | 39.0 | 17.4 | 3.8 | 96.9 | 41.1 | 16.6 | 3.5 | 92.5 | 43.3 | 15.9 | 3.2 | | | | | | | | | 49 |
| 7 | 118.9 | 33.5 | 20.4 | 5.2 | 111.9 | 36.3 | 19.2 | 4.6 | 104.7 | 39.5 | 17.9 | 4.1 | 100.3 | 41.5 | 17.2 | 3.7 | 95.8 | 43.8 | 16.4 | 3.4 | | | | | | | | | 49 |
| 8 | 122.9 | 33.9 | 21.1 | 5.5 | 115.8 | 36.7 | 19.8 | 4.9 | 108.4 | 39.9 | 18.6 | 4.4 | 103.8 | 42.0 | 17.8 | 4.0 | 99.2 | 44.2 | 17.0 | 3.7 | | | | | | | | | 48 |
| 9 | 127.0 | 34.3 | 21.8 | 5.9 | 119.7 | 37.2 | 20.5 | 5.3 | 112.1 | 40.4 | 19.2 | 4.6 | 107.4 | 42.5 | 18.4 | 4.3 | 102.7 | 44.7 | 17.6 | 3.9 | | | | | | | | | 48 |
| 10 | 131.3 | 34.8 | 22.5 | 6.2 | 123.7 | 37.7 | 21.2 | 5.6 | 115.9 | 40.9 | 19.9 | 5.0 | 111.1 | 43.0 | 19.0 | 4.6 | 106.3 | 45.2 | 18.2 | 4.2 | | | | | | | | | 47 |

| Model: ACW10130SSSN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--------------------------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|----|---|-----|----|-----|----|---|-----|----|
| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | |
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd |
| 5 | 131.2 | 39.3 | 22.5 | 14.0 | 122.8 | 42.9 | 21.1 | 12.4 | 114.1 | 46.9 | 19.6 | 10.8 | 108.7 | 49.5 | 18.6 | 9.8 | 103.2 | 52.3 | 17.7 | 8.9 | | | | | | | | | 49 |
| 6 | 135.8 | 39.9 | 23.3 | 14.9 | 127.2 | 43.5 | 21.8 | 13.2 | 118.2 | 47.5 | 20.3 | 11.5 | 112.7 | 50.2 | 19.3 | 10.5 | 107.1 | 53.0 | 18.4 | 9.6 | | | | | | | | | 48 |
| 7 | 140.5 | 40.5 | 24.1 | 15.8 | 131.7 | 44.1 | 22.6 | 14.1 | 122.4 | 48.2 | 21.0 | 12.3 | 116.7 | 50.8 | 20.0 | 11.3 | 111.0 | 53.6 | 19.0 | 10.2 | | | | | | | | | 48 |
| 8 | 145.3 | 41.1 | 24.9 | 16.8 | 136.2 | 44.7 | 23.4 | 15.0 | 126.7 | 48.8 | 21.7 | 13.1 | 120.9 | 51.5 | 20.7 | 12.0 | 115.0 | 54.3 | 19.7 | 10.9 | | | | | | | | | 48 |
| 9 | 150.2 | 41.7 | 25.8 | 17.8 | 140.9 | 45.4 | 24.1 | 15.9 | 131.1 | 49.5 | 22.5 | 14.0 | 125.1 | 52.2 | 21.4 | 12.8 | 119.0 | 55.0 | 20.4 | 11.7 | | | | | | | | | 47 |
| 10 | 155.2 | 42.3 | 26.6 | 18.9 | 145.6 | 46.0 | 25.0 | 16.9 | 135.6 | 50.2 | 23.2 | 14.9 | 129.4 | 52.9 | 22.2 | 13.7 | 123.2 | 55.8 | 21.1 | 12.5 | | | | | | | | | 47 |

| Model: ACW10150SSSN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--------------------------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|----|---|-----|----|-----|----|---|-----|----|
| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | |
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd |
| 5 | 150.7 | 44.5 | 25.8 | 17.9 | 141.5 | 48.4 | 24.2 | 16.0 | 131.8 | 52.8 | 22.6 | 14.1 | 125.8 | 55.7 | 21.6 | 13.0 | 119.7 | 58.8 | 20.5 | 11.8 | | | | | | | | | 49 |
| 6 | 156.1 | 45.0 | 26.8 | 19.1 | 146.6 | 49.0 | 25.1 | 17.1 | 136.7 | 53.4 | 23.4 | 15.1 | 130.5 | 56.3 | 22.4 | 13.9 | 124.3 | 59.4 | 21.3 | 12.7 | | | | | | | | | 49 |
| 7 | 161.6 | 45.6 | 27.7 | 20.3 | 151.9 | 49.6 | 26.0 | 18.2 | 141.7 | 54.0 | 24.3 | 16.1 | 135.4 | 56.9 | 23.2 | 14.8 | 128.9 | 60.1 | 22.1 | 13.6 | | | | | | | | | 49 |
| 8 | 167.3 | 46.2 | 28.7 | 21.6 | 157.3 | 50.2 | 27.0 | 19.3 | 146.8 | 54.7 | 25.2 | 17.1 | 140.3 | 57.6 | 24.0 | 15.8 | 133.7 | 60.7 | 22.9 | 14.5 | | | | | | | | | 49 |
| 9 | 173.1 | 46.8 | 29.7 | 22.9 | 162.8 | 50.8 | 27.9 | 20.6 | 152.0 | 55.3 | 26.1 | 18.2 | 145.3 | 58.3 | 24.9 | 16.8 | 138.5 | 61.4 | 23.7 | 15.4 | | | | | | | | | 49 |
| 10 | 179.0 | 47.4 | 30.7 | 24.3 | 168.4 | 51.5 | 28.9 | 21.8 | 157.3 | 56.0 | 27.0 | 19.4 | 150.5 | 59.0 | 25.8 | 17.9 | 143.5 | 62.2 | 24.6 | 16.4 | | | | | | | | | 49 |

| Model: ACW10185SSSN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--------------------------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|----|---|-----|----|-----|----|---|-----|----|
| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | |
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd |
| 5 | 182.5 | 55.7 | 31.3 | 22.8 | 172.1 | 61.0 | 29.5 | 20.5 | 161.3 | 67.1 | 27.7 | 18.1 | 154.6 | 71.1 | 26.5 | 16.7 | 147.8 | 75.5 | 25.3 | 15.4 | | | | | | | | | 48 |
| 6 | 188.9 | 56.5 | 32.4 | 24.3 | 178.2 | 61.8 | 30.6 | 21.8 | 167.1 | 68.0 | 28.7 | 19.4 | 160.3 | 72.1 | 27.5 | 17.9 | 153.3 | 76.5 | 26.3 | 16.5 | | | | | | | | | 48 |
| 7 | 195.4 | 57.2 | 33.5 | 25.9 | 184.5 | 62.7 | 31.6 | 23.3 | 173.1 | 68.9 | 29.7 | 20.7 | 166.1 | 73.0 | 28.5 | 19.1 | 158.9 | 77.5 | 27.2 | 17.6 | | | | | | | | | 47 |
| 8 | 202.0 | 58.0 | 34.6 | 27.5 | 190.8 | 63.5 | 32.7 | 24.8 | 179.2 | 69.8 | 30.7 | 22.0 | 172.0 | 74.0 | 29.5 | 20.4 | 164.7 | 78.6 | 28.2 | 18.8 | | | | | | | | | 47 |
| 9 | 208.8 | 58.9 | 35.8 | 29.2 | 197.3 | 64.4 | 33.8 | 26.4 | 185.4 | 70.8 | 31.8 | 23.5 | 178.0 | 75.0 | 30.5 | 21.8 | 170.5 | 79.6 | 29.2 | 20.1 | | | | | | | | | 46 |
| 10 | 215.7 | 59.7 | 37.0 | 31.0 | 203.9 | 65.3 | 35.0 | 28.0 | 191.7 | 71.8 | 32.9 | 25.0 | 184.2 | 76.1 | 31.6 | 23.2 | 176.5 | 80.7 | 30.3 | 21.4 | | | | | | | | | 46 |

- Q: Cooling Capacity in kW
- P: Total Power Absorbed in kW
- WFR: Water Flow Rate in m³/hr.
- Pd: Water Pressure Drop in kPa
- CWT: Chilled Water Temperature in °C ($\Delta T = 5^\circ C$)
- MAT: Maximum Ambient Temperature in °C
- NOTES:
 - I. Data on grey background: unit switched to non-silenced operation
 - II. Waterflow and pressure drop on heat exchangers calculated with 5°C of delta T
 - III. Interpolation between rating is permissible but extrapolation is not.
 - IV. When the external air temperature is higher than the "MAT" the chiller doesn't stop but the "unloading" system capacity control is activated.

Standard Noise, Standard Ambient Temperature, 2-Compressor Units

Model: ACW20335SSSN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | |
|-----|--------------------------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|----|---|-----|----|-----|----|---|-----|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd |
| 5 | 332.9 | 100.1 | 57.1 | 19.7 | 313.5 | 109.3 | 53.7 | 17.7 | 293.1 | 119.8 | 50.3 | 15.6 | 280.6 | 126.8 | 48.1 | 14.4 | 267.7 | 134.3 | 45.9 | 13.2 | | | | | | | | 48 | |
| 6 | 344.6 | 101.4 | 59.1 | 21.0 | 324.6 | 110.7 | 55.7 | 18.8 | 303.8 | 121.3 | 52.1 | 16.7 | 290.9 | 128.4 | 49.9 | 15.4 | 277.7 | 135.9 | 47.6 | 14.1 | | | | | | | | 48 | |
| 7 | 356.5 | 102.7 | 61.1 | 22.4 | 336.1 | 112.2 | 57.6 | 20.1 | 314.7 | 122.9 | 53.9 | 17.8 | 301.4 | 129.9 | 51.7 | 16.4 | 287.9 | 137.6 | 49.4 | 15.1 | | | | | | | | 47 | |
| 8 | 368.7 | 104.1 | 63.2 | 23.8 | 347.7 | 113.6 | 59.6 | 21.4 | 325.8 | 124.4 | 55.8 | 19.0 | 312.2 | 131.6 | 53.5 | 17.5 | 298.3 | 139.3 | 51.1 | 16.1 | | | | | | | | 47 | |
| 9 | 381.2 | 105.5 | 65.3 | 25.3 | 359.6 | 115.1 | 61.6 | 22.7 | 337.1 | 126.1 | 57.8 | 20.2 | 323.2 | 133.3 | 55.4 | 18.7 | 309.0 | 141.0 | 53.0 | 17.2 | | | | | | | | 46 | |
| 10 | 393.9 | 107.0 | 67.5 | 26.9 | 371.8 | 116.7 | 63.7 | 24.2 | 348.7 | 127.7 | 59.8 | 21.5 | 334.4 | 135.0 | 57.3 | 19.9 | 319.9 | 142.8 | 54.8 | 18.3 | | | | | | | | 46 | |

Model: ACW20376SHSN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | |
|-----|--------------------------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|----|---|-----|----|-----|----|---|-----|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd |
| 5 | 371.9 | 108.0 | 63.8 | 30.7 | 351.6 | 118.1 | 60.3 | 27.7 | 330.4 | 129.7 | 56.6 | 24.7 | 317.3 | 137.5 | 54.4 | 22.9 | 303.8 | 145.9 | 52.1 | 21.2 | | | | | | | | 49 | |
| 6 | 385.0 | 109.4 | 66.0 | 32.7 | 364.2 | 119.6 | 62.4 | 29.5 | 342.5 | 131.3 | 58.7 | 26.4 | 329.0 | 139.2 | 56.4 | 24.5 | 315.2 | 147.7 | 54.0 | 22.7 | | | | | | | | 49 | |
| 7 | 398.3 | 110.8 | 68.3 | 34.8 | 377.0 | 121.2 | 64.6 | 31.5 | 354.8 | 133.0 | 60.8 | 28.1 | 341.0 | 141.0 | 58.5 | 26.2 | 326.9 | 149.5 | 56.0 | 24.2 | | | | | | | | 49 | |
| 8 | 411.9 | 112.3 | 70.6 | 37.0 | 390.1 | 122.8 | 66.9 | 33.5 | 367.3 | 134.8 | 63.0 | 30.0 | 353.2 | 142.8 | 60.6 | 27.9 | 338.8 | 151.5 | 58.1 | 25.9 | | | | | | | | 48 | |
| 9 | 425.8 | 113.9 | 73.0 | 39.4 | 403.4 | 124.4 | 69.2 | 35.6 | 380.1 | 136.5 | 65.2 | 32.0 | 365.7 | 144.7 | 62.7 | 29.8 | 351.0 | 153.4 | 60.2 | 27.6 | | | | | | | | 48 | |
| 10 | 440.0 | 115.4 | 75.4 | 41.8 | 417.1 | 126.1 | 71.5 | 37.9 | 393.2 | 138.4 | 67.4 | 34.0 | 378.5 | 146.6 | 64.9 | 31.7 | 363.4 | 155.4 | 62.3 | 29.4 | | | | | | | | 48 | |

Model: ACW20400SSSN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | |
|-----|--------------------------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|----|---|-----|----|-----|----|---|-----|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd |
| 5 | 393.4 | 117.7 | 67.4 | 34.0 | 371.8 | 128.7 | 63.7 | 30.7 | 349.2 | 141.4 | 59.9 | 27.3 | 335.2 | 149.9 | 57.5 | 25.4 | 320.9 | 159.1 | 55.0 | 23.4 | | | | | | | | 49 | |
| 6 | 407.1 | 119.2 | 69.8 | 36.2 | 385.0 | 130.4 | 66.0 | 32.7 | 361.9 | 143.2 | 62.0 | 29.2 | 347.5 | 151.7 | 59.6 | 27.1 | 332.9 | 161.0 | 57.1 | 25.0 | | | | | | | | 49 | |
| 7 | 421.1 | 120.8 | 72.2 | 38.6 | 398.5 | 132.0 | 68.3 | 34.8 | 374.8 | 145.0 | 64.3 | 31.1 | 360.1 | 153.6 | 61.7 | 28.9 | 345.1 | 163.0 | 59.2 | 26.8 | | | | | | | | 49 | |
| 8 | 435.4 | 122.4 | 74.6 | 41.0 | 412.2 | 133.8 | 70.7 | 37.1 | 388.0 | 146.9 | 66.5 | 33.2 | 373.0 | 155.6 | 63.9 | 30.9 | 357.6 | 165.1 | 61.3 | 28.6 | | | | | | | | 48 | |
| 9 | 450.1 | 124.0 | 77.2 | 43.6 | 426.3 | 135.5 | 73.1 | 39.5 | 401.5 | 148.8 | 68.8 | 35.3 | 386.1 | 157.6 | 66.2 | 32.9 | 370.4 | 167.2 | 63.5 | 30.5 | | | | | | | | 48 | |
| 10 | 465.0 | 125.7 | 79.7 | 46.3 | 440.7 | 137.3 | 75.5 | 41.9 | 415.3 | 150.7 | 71.2 | 37.6 | 399.6 | 159.7 | 68.5 | 35.0 | 383.5 | 169.3 | 65.7 | 32.5 | | | | | | | | 48 | |

Model: ACW20426SSSN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | |
|-----|--------------------------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|----|---|-----|----|-----|----|---|-----|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd |
| 5 | 420.9 | 124.0 | 72.1 | 38.5 | 398.3 | 135.5 | 68.3 | 34.8 | 374.7 | 148.6 | 64.2 | 31.1 | 360.0 | 157.4 | 61.7 | 28.9 | 345.0 | 167.0 | 59.1 | 26.7 | | | | | | | | 49 | |
| 6 | 435.6 | 125.5 | 74.7 | 41.1 | 412.5 | 137.1 | 70.7 | 37.1 | 388.3 | 150.4 | 66.6 | 33.2 | 373.3 | 159.3 | 64.0 | 30.9 | 357.9 | 168.9 | 61.4 | 28.6 | | | | | | | | 49 | |
| 7 | 450.7 | 127.1 | 77.3 | 43.7 | 427.1 | 138.7 | 73.2 | 39.6 | 402.3 | 152.2 | 69.0 | 35.5 | 386.9 | 161.1 | 66.3 | 33.0 | 371.2 | 170.9 | 63.6 | 30.6 | | | | | | | | 49 | |
| 8 | 466.1 | 128.7 | 79.9 | 46.5 | 441.9 | 140.4 | 75.8 | 42.1 | 416.5 | 154.0 | 71.4 | 37.8 | 400.8 | 163.1 | 68.7 | 35.2 | 384.7 | 172.9 | 66.0 | 32.7 | | | | | | | | 49 | |
| 9 | 481.9 | 130.3 | 82.6 | 49.5 | 457.1 | 142.2 | 78.4 | 44.9 | 431.1 | 155.9 | 73.9 | 40.3 | 415.0 | 165.1 | 71.1 | 37.6 | 398.6 | 175.0 | 68.3 | 34.9 | | | | | | | | 49 | |
| 10 | 498.0 | 132.0 | 85.4 | 52.6 | 472.6 | 144.0 | 81.0 | 47.7 | 446.0 | 157.9 | 76.5 | 42.9 | 429.6 | 167.1 | 73.6 | 40.0 | 412.7 | 177.1 | 70.8 | 37.2 | | | | | | | | 48 | |

Model: ACW20480SHSN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | |
|-----|--------------------------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|----|---|-----|----|-----|----|---|-----|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd |
| 5 | 473.6 | 131.4 | 81.2 | 42.8 | 447.3 | 143.3 | 76.7 | 38.6 | 419.8 | 157.1 | 72.0 | 34.4 | 402.8 | 166.3 | 69.0 | 31.9 | 385.5 | 176.2 | 66.1 | 29.4 | | | | | | | | 49 | |
| 6 | 490.6 | 133.1 | 84.1 | 45.7 | 463.6 | 145.1 | 79.5 | 41.2 | 435.3 | 159.0 | 74.6 | 36.7 | 417.8 | 168.3 | 71.6 | 34.1 | 400.0 | 178.3 | 68.6 | 31.5 | | | | | | | | 49 | |
| 7 | 508.0 | 134.8 | 87.1 | 48.7 | 480.2 | 147.0 | 82.3 | 43.9 | 451.1 | 161.0 | 77.3 | 39.2 | 433.1 | 170.4 | 74.3 | 36.4 | 414.9 | 180.5 | 71.1 | 33.6 | | | | | | | | 49 | |
| 8 | 524.9 | 136.5 | 90.0 | 51.7 | 496.5 | 148.8 | 85.1 | 46.7 | 466.6 | 163.0 | 80.0 | 41.7 | 448.2 | 172.4 | 76.8 | 38.7 | 429.5 | 182.6 | 73.6 | 35.8 | | | | | | | | 48 | |
| 9 | 542.2 | 138.3 | 93.0 | 54.8 | 513.0 | 150.7 | 87.9 | 49.6 | 482.5 | 165.0 | 82.7 | 44.3 | 463.6 | 174.5 | 79.5 | 41.2 | 444.3 | 184.8 | 76.2 | 38.1 | | | | | | | | 48 | |
| 10 | 559.9 | 140.1 | 96.0 | 58.2 | 529.9 | 152.7 | 90.8 | 52.6 | 498.6 | 167.1 | 85.5 | 47.0 | 479.2 | 176.7 | 82.2 | 43.8 | 459.5 | 187.1 | 78.8 | 40.5 | | | | | | | | 47 | |

- Q: Cooling Capacity in kW
- P: Total Power Absorbed in kW
- WFR: Water Flow Rate in m3/hr.
- Pd: Water Pressure Drop in kPa
- CWT: Chilled Water Temperature in °C (ΔT = 5°C)
- MAT: Maximum Ambient Temperature in °C
- NOTES:
 - Data on grey background: unit switched to non-silenced operation
 - Waterflow and pressure drop on heat exchangers calculated with 5°C of delta T
 - Interpolation between rating is permissible but extrapolation is not.
 - When the external air temperature is higher than the "MAT" the chiller doesn't stop but the "unloading" system capacity control is activated.

Standard Noise, Standard Ambient Temperature, 2-Compressor Units

Model: ACW20500SSSN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | |
|-----|--------------------------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|----|---|-----|----|-----|----|---|-----|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd |
| 5 | 494.4 | 145.0 | 84.8 | 46.3 | 465.1 | 158.6 | 79.7 | 41.4 | 434.6 | 174.2 | 74.5 | 36.6 | 415.9 | 184.6 | 71.3 | 33.8 | 397.0 | 195.9 | 68.1 | 31.0 | | | | | | | | 48 | |
| 6 | 511.6 | 146.9 | 87.7 | 49.3 | 481.4 | 160.7 | 82.5 | 44.1 | 450.0 | 176.5 | 77.1 | 39.0 | 430.7 | 187.0 | 73.8 | 36.0 | 411.2 | 198.4 | 70.5 | 33.1 | | | | | | | | 48 | |
| 7 | 529.2 | 149.0 | 90.7 | 52.5 | 498.1 | 162.9 | 85.4 | 47.0 | 465.7 | 178.9 | 79.8 | 41.5 | 445.8 | 189.5 | 76.4 | 38.4 | 425.8 | 201.0 | 73.0 | 35.3 | | | | | | | | 47 | |
| 8 | 546.3 | 151.0 | 93.6 | 55.6 | 514.4 | 165.1 | 88.2 | 49.8 | 481.1 | 181.2 | 82.5 | 44.1 | 460.6 | 191.9 | 79.0 | 40.7 | 440.0 | 203.5 | 75.4 | 37.4 | | | | | | | | 47 | |
| 9 | 563.7 | 153.1 | 96.6 | 58.9 | 530.9 | 167.3 | 91.0 | 52.8 | 496.7 | 183.6 | 85.1 | 46.7 | 475.7 | 194.4 | 81.6 | 43.2 | 454.5 | 206.1 | 77.9 | 39.7 | | | | | | | | 46 | |
| 10 | 581.4 | 155.2 | 99.7 | 62.4 | 547.7 | 169.6 | 93.9 | 55.9 | 512.6 | 186.0 | 87.9 | 49.5 | 491.0 | 197.0 | 84.2 | 45.7 | 469.2 | 208.7 | 80.4 | 42.1 | | | | | | | | 46 | |

Model: ACW20565SHSN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | |
|-----|--------------------------|-------|-------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|----|---|-----|----|-----|----|---|-----|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd |
| 5 | 557.2 | 160.5 | 95.5 | 43.1 | 525.9 | 175.2 | 90.2 | 38.8 | 493.3 | 192.2 | 84.6 | 34.6 | 473.2 | 203.5 | 81.1 | 32.0 | 452.6 | 215.8 | 77.6 | 29.6 | | | | | | | | 49 | |
| 6 | 576.4 | 162.5 | 98.8 | 45.9 | 544.3 | 177.4 | 93.3 | 41.3 | 510.8 | 194.5 | 87.6 | 36.8 | 490.1 | 206.0 | 84.0 | 34.2 | 469.1 | 218.3 | 80.4 | 31.5 | | | | | | | | 49 | |
| 7 | 596.0 | 164.6 | 102.2 | 48.8 | 563.0 | 179.6 | 96.5 | 44.0 | 528.7 | 196.9 | 90.6 | 39.2 | 507.5 | 208.5 | 87.0 | 36.4 | 485.9 | 221.0 | 83.3 | 33.6 | | | | | | | | 49 | |
| 8 | 616.0 | 166.7 | 105.6 | 51.8 | 582.1 | 181.9 | 99.8 | 46.7 | 546.9 | 199.4 | 93.8 | 41.7 | 525.2 | 211.0 | 90.0 | 38.7 | | | | | | | | | | | | | |

Standard Noise, Standard Ambient Temperature, 2-Compressor Units

| Model: ACW20760SHSN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--------------------------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-----|----|---|-----|----|--|----|---|-----|----|--|----|---|-----|----|----|---|---|-----|
| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | | | | | | | | |
| | 30 | | | | | 35 | | | | | 40 | | | | | 43 | | | | | | 46 | | | | | 50 | | | | | 52 | | | | | | | |
| | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR |
| 5 | 751.4 | 210.3 | 128.8 | 60.8 | 708.5 | 229.3 | 121.5 | 54.6 | 663.2 | 250.6 | 113.7 | 48.4 | 635.0 | 264.4 | 108.9 | 44.7 | 606.2 | 278.9 | 103.9 | 41.1 | | | | | | | | | | | | | | | | 49 | | | |
| 6 | 776.7 | 212.7 | 133.2 | 64.6 | 732.7 | 231.9 | 125.6 | 58.1 | 686.3 | 253.3 | 117.7 | 51.5 | 657.5 | 267.2 | 112.7 | 47.6 | 627.9 | 281.8 | 107.6 | 43.8 | | | | | | | | | | | | | | | 49 | | | | |
| 7 | 802.6 | 215.1 | 137.6 | 68.6 | 757.5 | 234.5 | 129.9 | 61.7 | 710.0 | 256.1 | 121.7 | 54.8 | 680.4 | 270.0 | 116.6 | 50.7 | 650.1 | 284.7 | 111.4 | 46.7 | | | | | | | | | | | | | | | 49 | | | | |
| 8 | 829.3 | 217.7 | 142.2 | 72.9 | 783.1 | 237.2 | 134.2 | 65.6 | 734.3 | 258.9 | 125.9 | 58.3 | 704.0 | 273.0 | 120.7 | 54.0 | 673.0 | 287.7 | 115.4 | 49.7 | | | | | | | | | | | | | | | 49 | | | | |
| 9 | 856.4 | 220.3 | 146.8 | 77.3 | 809.1 | 240.0 | 138.7 | 69.6 | 759.2 | 261.8 | 130.1 | 62.0 | 728.2 | 275.9 | 124.8 | 57.4 | 696.4 | 290.7 | 119.4 | 52.9 | | | | | | | | | | | | | | | 48 | | | | |
| 10 | 884.1 | 222.9 | 151.6 | 82.0 | 835.6 | 242.7 | 143.2 | 73.9 | 784.5 | 264.7 | 134.5 | 65.8 | 752.7 | 278.9 | 129.0 | 61.0 | 720.2 | 293.7 | 123.5 | 56.3 | | | | | | | | | | | | | | | 48 | | | | |

| Model: ACW20830SPSN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--------------------------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-----|----|---|-----|----|--|----|---|-----|----|--|----|---|-----|----|----|---|---|-----|
| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | | | | | | | | |
| | 30 | | | | | 35 | | | | | 40 | | | | | 43 | | | | | | 46 | | | | | 50 | | | | | 52 | | | | | | | |
| | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR |
| 5 | 823.8 | 225.0 | 141.2 | 56.8 | 777.5 | 244.1 | 133.3 | 51.1 | 728.5 | 265.5 | 124.9 | 45.3 | 698.0 | 279.5 | 119.7 | 41.9 | 666.9 | 294.4 | 114.3 | 38.6 | | | | | | | | | | | | | | | | 49 | | | |
| 6 | 852.2 | 227.6 | 146.1 | 60.5 | 804.6 | 246.9 | 137.9 | 54.4 | 754.3 | 268.5 | 129.3 | 48.3 | 723.0 | 282.6 | 123.9 | 44.7 | 691.0 | 297.6 | 118.5 | 41.1 | | | | | | | | | | | | | | | | 49 | | | |
| 7 | 881.2 | 230.3 | 151.1 | 64.3 | 832.3 | 249.8 | 142.7 | 57.9 | 780.6 | 271.6 | 133.8 | 51.5 | 748.4 | 285.7 | 128.3 | 47.6 | 715.6 | 300.9 | 122.7 | 43.9 | | | | | | | | | | | | | | | | 49 | | | |
| 8 | 910.6 | 233.1 | 156.1 | 68.4 | 860.4 | 252.8 | 147.5 | 61.6 | 807.3 | 274.7 | 138.4 | 54.7 | 774.3 | 289.0 | 132.7 | 50.7 | 740.5 | 304.2 | 126.9 | 46.7 | | | | | | | | | | | | | | | | 48 | | | |
| 9 | 940.5 | 236.0 | 161.2 | 72.7 | 889.1 | 255.8 | 152.4 | 65.4 | 834.6 | 277.9 | 143.1 | 58.2 | 800.7 | 292.2 | 137.3 | 53.9 | 766.0 | 307.5 | 131.3 | 49.7 | | | | | | | | | | | | | | | | 48 | | | |
| 10 | 971.1 | 238.9 | 166.5 | 77.2 | 918.3 | 258.9 | 157.4 | 69.5 | 862.4 | 281.1 | 147.8 | 61.8 | 827.6 | 295.6 | 141.9 | 57.3 | 791.9 | 311.0 | 135.8 | 52.8 | | | | | | | | | | | | | | | | 48 | | | |

| Model: ACW20870SHSN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--------------------------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-----|----|---|-----|----|--|----|---|-----|----|--|----|---|-----|----|----|----|---|-----|
| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | | | | | | | | |
| | 30 | | | | | 35 | | | | | 40 | | | | | 43 | | | | | | 46 | | | | | 50 | | | | | 52 | | | | | | | |
| | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR |
| 5 | 863.1 | 244.7 | 148.0 | 61.9 | 814.5 | 264.7 | 139.6 | 55.6 | 763.0 | 287.1 | 130.8 | 49.3 | 731.1 | 302.0 | 125.3 | 45.6 | 698.7 | 318.1 | 119.8 | 42.0 | | | | | | | | | | | | | | | | | 48 | | |
| 6 | 892.6 | 247.6 | 153.0 | 65.9 | 842.5 | 267.8 | 144.4 | 59.2 | 789.6 | 290.4 | 135.4 | 52.5 | 756.7 | 305.4 | 129.7 | 48.6 | 723.2 | 321.6 | 124.0 | 44.7 | | | | | | | | | | | | | | | | | 48 | | |
| 7 | 922.6 | 250.7 | 158.2 | 70.1 | 871.1 | 271.1 | 149.3 | 63.0 | 816.6 | 293.9 | 140.0 | 55.9 | 782.8 | 309.0 | 134.2 | 51.7 | 748.3 | 325.4 | 128.3 | 47.6 | | | | | | | | | | | | | | | | | 47 | | |
| 8 | 953.0 | 253.8 | 163.4 | 74.5 | 900.1 | 274.4 | 154.3 | 66.9 | 844.1 | 297.5 | 144.7 | 59.4 | 809.3 | 312.7 | 138.7 | 55.0 | 773.7 | 329.2 | 132.6 | 50.6 | | | | | | | | | | | | | | | | | 47 | | |
| 9 | 984.0 | 257.1 | 168.7 | 79.1 | 929.6 | 277.9 | 159.4 | 71.1 | 872.0 | 301.1 | 149.5 | 63.1 | 836.2 | 316.5 | 143.4 | 58.4 | 799.6 | 333.1 | 137.1 | 53.8 | | | | | | | | | | | | | | | | 46 | | | |
| 10 | 1015.6 | 260.4 | 174.1 | 84.0 | 959.7 | 281.4 | 164.5 | 75.5 | 900.5 | 304.9 | 154.4 | 67.0 | 863.7 | 320.5 | 148.1 | 62.0 | 826.0 | 337.2 | 141.6 | 57.1 | | | | | | | | | | | | | | | | 46 | | | |

| Model: ACW21035SPSN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--------------------------|-------|-------|------|--------|-------|-------|------|--------|-------|-------|------|--------|-------|-------|------|--------|-------|-------|------|-----|----|---|-----|----|--|----|---|-----|----|--|----|---|-----|----|--|----|---|-----|
| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | | | | | | | | |
| | 30 | | | | | 35 | | | | | 40 | | | | | 43 | | | | | | 46 | | | | | 50 | | | | | 52 | | | | | | | |
| | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR |
| 5 | 1021.4 | 276.4 | 175.1 | 56.3 | 968.8 | 301.2 | 166.1 | 51.1 | 913.7 | 328.2 | 156.6 | 45.9 | 879.6 | 345.5 | 150.8 | 42.9 | 844.6 | 363.4 | 144.8 | 39.8 | | | | | | | | | | | | | | | | | 49 | | |
| 6 | 1055.5 | 279.6 | 180.9 | 59.8 | 1001.7 | 304.7 | 171.7 | 54.3 | 945.3 | 332.0 | 162.1 | 48.9 | 910.4 | 349.4 | 156.1 | 45.6 | 874.6 | 367.5 | 149.9 | 42.4 | | | | | | | | | | | | | | | | | 49 | | |
| 7 | 1090.2 | 282.9 | 186.9 | 63.4 | 1035.2 | 308.2 | 177.5 | 57.7 | 977.6 | 335.8 | 167.6 | 51.9 | 941.8 | 353.4 | 161.5 | 48.5 | 905.3 | 371.7 | 155.2 | 45.2 | | | | | | | | | | | | | | | | | 49 | | |
| 8 | 1126.8 | 286.4 | 193.2 | 67.4 | 1070.5 | 312.0 | 183.5 | 61.3 | 1011.5 | 339.8 | 173.4 | 55.3 | 974.9 | 357.5 | 167.1 | 51.7 | 937.5 | 376.0 | 160.7 | 48.1 | | | | | | | | | | | | | | | | | 48 | | |
| 9 | 1164.1 | 289.9 | 199.6 | 71.6 | 1106.5 | 315.8 | 189.7 | 65.2 | 1048.1 | 343.9 | 179.3 | 58.8 | 1008.7 | 361.8 | 172.9 | 55.0 | 970.4 | 380.4 | 166.4 | 51.2 | | | | | | | | | | | | | | | | | 48 | | |
| 10 | 1202.0 | 293.5 | 206.1 | 76.0 | 1143.2 | 319.7 | 196.0 | 69.2 | 1081.5 | 348.1 | 185.4 | 62.5 | 1043.2 | 366.2 | 178.8 | 58.5 | 1004.1 | 385.0 | 172.1 | 54.5 | | | | | | | | | | | | | | | | | 47 | | |

| Model: ACW21085SHSN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--------------------------|-------|-------|------|--------|-------|-------|------|--------|-------|-------|------|--------|-------|-------|------|--------|-------|-------|------|-----|----|---|-----|----|--|----|---|-----|----|--|----|---|-----|----|--|----|---|-----|
| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | | | | | | | | |
| | 30 | | | | | 35 | | | | | 40 | | | | | 43 | | | | | | 46 | | | | | 50 | | | | | 52 | | | | | | | |
| | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR |
| 5 | 1073.1 | 296.5 | 184.0 | 61.6 | 1017.7 | 323.4 | 174.5 | 55.9 | 959.6 | 352.6 | 164.5 | 50.2 | 923.6 | 371.2 | 158.3 | 46.8 | 886.7 | 390.6 | 152.0 | 43.5 | | | | | | | | | | | | | | | | | 48 | | |
| 6 | 1108.3 | 300.1 | 190.0 | 65.4 | 1051.7 | 327.3 | 180.3 | 59.4 | 992.3 | 356.8 | 170.1 | 53.4 | 955.5 | 375.6 | 163.8 | 49.8 | 917.7 | 395.2 | 157.3 | 46.3 | | | | | | | | | | | | | | | | | 47 | | |
| 7 | 1144.1 | 303.7 | 196.1 | 69.3 | 1086.3 | 331.2 | 186.2 | 63.0 | 1025.6 | 361.0 | 175.8 | 56.7 | 988.0 | 380.0 | 169.4 | 53.0 | 949.4 | 399.8 | 162.8 | 49.2 | | | | | | | | | | | | | | | | | 47 | | |
| 8 | 1181.8 | 307.6 | 202.6 | 73.6 | 1122.7 | 335.4 | 192.5 | 66.9 | 1060.7 | 365.5 | 181.8 | 60.3 | 1022.2 | 384.7 | 175.2 | 56.3 | 982.8 | 404.6 | 168.5 | 52.4 | | | | | | | | | | | | | | | | | 46 | | |
| 9 | 1220.1 | 311.5 | 209.2 | 78.2 | 1159.7 | 339.6 | 198.8 | 71.1 | 1096.4 | 370.1 | 188.0 | 64.1 | 1057.0 | 389.4 | 181.2 | 59.9 | 1016.8 | 409.5 | 174.3 | 55.8 | | | | | | | | | | | | | | | | | 46 | | |
| 10 | 1259.0 | 315.5 | 215.8 | 82.9 | 1197.5 | 343.9 | 205.3 | 75.5 | 1132.8 | 374.7 | 194.2 | 68.1 | 1092.6 | 394.3 | 187.3 | 63.7 | 1051.5 | 414.5 | 180.3 | 59.3 | | | | | | | | | | | | | | | | | 46 | | |

- Q: Cooling Capacity in kW
- P: Total Power Absorbed in kW
- WFR: Water Flow Rate in m3/hr.
- Pd: Water Pressure Drop in kPa
- CWT: Chilled Water Temperature in °C (ΔT = 5°C)
- MAT: Maximum Ambient Temperature in °C
- NOTES:
 - Data on grey background: unit switched to non-silenced operation
 - Waterflow and pressure drop on heat exchangers calculated with 5°C of delta T
 - Interpolation between rating is permissible but extrapolation is not.
 - When the external air temperature is higher than the "MAT" the chiller doesn't stop but the "unloading" system capacity control is activated.

Standard Noise, Standard Ambient Temperature, 3-Compressor Units

| Model: ACW31510SHSN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--------------------------|-------|-------|------|--------|-------|-------|------|--------|-------|-------|------|--------|-------|-------|------|--------|-------|-------|------|-----|----|---|-----|----|--|----|---|-----|----|--|----|---|-----|----|----|----|---|-----|
| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | | | | | | | | |
| | 30 | | | | | 35 | | | | | 40 | | | | | 43 | | | | | | 46 | | | | | 50 | | | | | 52 | | | | | | | |
| | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR |
| 5 | 1492.6 | 421.2 | 255.9 | 66.1 | 1415.7 | 459.9 | 242.7 | 60.0 | 1334.6 | 501.8 | 228.8 | 53.8 | 1284.2 | 528.4 | 220.2 | 50.1 | 1232.5 | 556.1 | 211.3 | 46.5 | | | | | | | | | | | | | | | | | 48 | | |
| 6 | 1541.2 | 426.5 | 264.2 | 70.1 | 1462.8 | 465.6 | 250.8 | 63.7 | 1380.1 | 508.0 | 236.6 | 57.2 | 1328.6 | 534.9 | 227.8 | 53.3 | 1275.8 | 562.9 | 218.7 | 49.5 | | | | | | | | | | | | | | | | | 47 | | |
| 7 | 1590.4 | 431.9 | 272.6 | 74.3 | 1510.7 | 471.5 | 259.0 | 67.6 | 1426.3 | 514.3 | 244.5 | 60.8 | 1373.8 | 541.5 | 235.5 | 56.7 | 1319.9 | 569.7 | 226.3 | 52.7 | | | | | | | | | | | | | | | | 47 | | | |
| 8 | 1640.1 | 437.4 | 281.2 | 78.7 | 1559.1 | 477.5 | 267.3 | 71.6 | 1473.3 | 520.8 | 252.6 | 64.5 | 1419.7 | 548.2 | 243.4 | 60.3 | 1364.7 | 576.7 | 234.0 | 56.0 | | | | | | | | | | | | | | | | 46 | | | |
| 9 | 1690.2 | 442.9 | 289.7 | 83.2 | 1608. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Standard Noise, High Ambient Temperature, 1-Compressor Units

| Model: ACW10100HHSN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--------------------------|------|------|-----|-------|------|------|-----|-------|------|------|-----|-------|------|------|-----|------|------|------|-----|------|------|------|-----|----|----|---|-----|----|---|---|-----|
| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | |
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | | 50 | | | | 52 | | | | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR |
| 5 | 100.8 | 28.7 | 17.3 | 3.8 | 95.2 | 30.9 | 16.3 | 3.4 | 89.4 | 33.5 | 15.3 | 3.0 | 85.8 | 35.3 | 14.7 | 2.7 | 82.1 | 37.2 | 14.1 | 2.5 | 77.0 | 40.2 | 13.2 | 2.2 | | | | | | | | 51 |
| 6 | 104.3 | 29.1 | 17.9 | 4.0 | 98.6 | 31.3 | 16.9 | 3.6 | 92.6 | 33.8 | 15.9 | 3.2 | 88.9 | 35.6 | 15.2 | 2.9 | 85.1 | 37.6 | 14.6 | 2.7 | 79.9 | 40.6 | 13.7 | 2.4 | | | | | | | | 51 |
| 7 | 107.9 | 29.4 | 18.5 | 4.3 | 102.0 | 31.6 | 17.5 | 3.9 | 95.9 | 34.2 | 16.4 | 3.4 | 92.1 | 36.0 | 15.8 | 3.2 | 88.2 | 38.0 | 15.1 | 2.9 | 82.9 | 41.0 | 14.2 | 2.5 | | | | | | | | 51 |
| 8 | 111.7 | 29.7 | 19.1 | 4.6 | 105.6 | 32.0 | 18.1 | 4.1 | 99.3 | 34.6 | 17.0 | 3.7 | 95.4 | 36.4 | 16.4 | 3.4 | 91.4 | 38.4 | 15.7 | 3.1 | 86.0 | 41.3 | 14.7 | 2.7 | | | | | | | | 51 |
| 9 | 115.6 | 30.1 | 19.8 | 4.9 | 109.3 | 32.3 | 18.7 | 4.4 | 102.8 | 35.0 | 17.6 | 3.9 | 98.8 | 36.8 | 16.9 | 3.6 | 94.7 | 38.8 | 16.2 | 3.3 | 89.2 | 41.8 | 15.3 | 3.0 | | | | | | | | 51 |
| 10 | 119.5 | 30.5 | 20.5 | 5.2 | 113.1 | 32.7 | 19.4 | 4.7 | 106.4 | 35.4 | 18.2 | 4.2 | 102.3 | 37.2 | 17.5 | 3.9 | 98.1 | 39.2 | 16.8 | 3.6 | 92.4 | 42.2 | 15.8 | 3.2 | | | | | | | | 51 |

| Model: ACW10115HHSN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--------------------------|------|------|-----|-------|------|------|-----|-------|------|------|-----|-------|------|------|-----|-------|------|------|-----|------|------|------|-----|----|----|---|-----|----|---|---|-----|
| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | |
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | | 50 | | | | 52 | | | | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR |
| 5 | 113.3 | 31.9 | 19.4 | 4.7 | 106.7 | 34.6 | 18.3 | 4.2 | 99.9 | 37.5 | 17.1 | 3.7 | 95.7 | 39.5 | 16.4 | 3.4 | 91.4 | 41.6 | 15.7 | 3.1 | 85.7 | 44.7 | 14.7 | 2.7 | | | | | | | | 51 |
| 6 | 117.2 | 32.2 | 20.1 | 5.1 | 110.4 | 34.9 | 18.9 | 4.5 | 103.4 | 37.9 | 17.7 | 4.0 | 99.1 | 39.9 | 17.0 | 3.7 | 94.8 | 42.0 | 16.2 | 3.3 | 88.8 | 45.1 | 15.2 | 2.9 | | | | | | | | 51 |
| 7 | 121.1 | 32.6 | 20.8 | 5.4 | 114.2 | 35.3 | 19.6 | 4.8 | 107.0 | 38.3 | 18.3 | 4.3 | 102.6 | 40.3 | 17.6 | 3.9 | 98.1 | 42.5 | 16.8 | 3.6 | 92.1 | 45.5 | 15.8 | 3.2 | | | | | | | | 50 |
| 8 | 125.3 | 33.0 | 21.5 | 5.7 | 118.1 | 35.7 | 20.3 | 5.1 | 110.8 | 38.8 | 19.0 | 4.5 | 106.3 | 40.8 | 18.2 | 4.2 | 101.7 | 42.9 | 17.4 | 3.8 | 95.5 | 46.0 | 16.4 | 3.4 | | | | | | | | 50 |
| 9 | 129.5 | 33.4 | 22.2 | 6.1 | 122.2 | 36.1 | 20.9 | 5.5 | 114.6 | 39.2 | 19.7 | 4.9 | 110.0 | 41.2 | 18.9 | 4.5 | 105.3 | 43.4 | 18.1 | 4.1 | 99.0 | 46.5 | 17.0 | 3.6 | | | | | | | | 50 |
| 10 | 133.8 | 33.8 | 22.9 | 6.5 | 126.4 | 36.6 | 21.7 | 5.8 | 118.6 | 39.7 | 20.3 | 5.2 | 113.8 | 41.7 | 19.5 | 4.8 | 109.0 | 43.9 | 18.7 | 4.4 | | | | | | | | | | | | 49 |

| Model: ACW10135HHSN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--------------------------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|----|----|---|-----|----|---|---|-----|
| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | |
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | | 50 | | | | 52 | | | | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR |
| 5 | 135.2 | 39.0 | 23.2 | 14.8 | 127.0 | 42.4 | 21.8 | 13.2 | 118.4 | 46.1 | 20.3 | 11.6 | 113.1 | 48.6 | 19.4 | 10.6 | 107.6 | 51.2 | 18.4 | 9.6 | 100.2 | 55.0 | 17.2 | 8.4 | | | | | | | | 51 |
| 6 | 140.1 | 39.5 | 24.0 | 15.8 | 131.7 | 42.8 | 22.6 | 14.1 | 122.9 | 46.6 | 21.1 | 12.4 | 117.4 | 49.1 | 20.1 | 11.4 | 111.8 | 51.7 | 19.2 | 10.4 | 104.2 | 55.5 | 17.9 | 9.1 | | | | | | | | 51 |
| 7 | 145.2 | 40.0 | 24.9 | 16.8 | 136.5 | 43.3 | 23.4 | 15.0 | 127.4 | 47.1 | 21.8 | 13.3 | 121.8 | 49.6 | 20.9 | 12.2 | 116.0 | 52.3 | 19.9 | 11.1 | 108.2 | 56.1 | 18.6 | 9.8 | | | | | | | | 51 |
| 8 | 150.4 | 40.4 | 25.8 | 17.9 | 141.5 | 43.9 | 24.3 | 16.0 | 132.1 | 47.7 | 22.6 | 14.2 | 126.3 | 50.2 | 21.7 | 13.1 | 120.4 | 52.8 | 20.6 | 11.9 | 112.4 | 56.7 | 19.3 | 10.5 | | | | | | | | 51 |
| 9 | 155.7 | 40.9 | 26.7 | 19.0 | 146.5 | 44.4 | 25.1 | 17.1 | 136.9 | 48.2 | 23.5 | 15.1 | 131.0 | 50.7 | 22.5 | 13.9 | 124.9 | 53.4 | 21.4 | 12.8 | 116.6 | 57.3 | 20.0 | 11.2 | | | | | | | | 51 |
| 10 | 161.2 | 41.5 | 27.6 | 20.2 | 151.7 | 44.9 | 26.0 | 18.2 | 141.8 | 48.8 | 24.3 | 16.1 | 135.7 | 51.3 | 23.3 | 14.9 | 129.5 | 54.0 | 22.2 | 13.7 | 121.0 | 57.9 | 20.7 | 12.0 | | | | | | | | 50 |

| Model: ACW10155HHSN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--------------------------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|----|----|---|-----|----|---|---|-----|
| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | |
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | | 50 | | | | 52 | | | | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR |
| 5 | 153.1 | 43.3 | 26.2 | 18.5 | 144.0 | 47.1 | 24.7 | 16.6 | 134.5 | 51.4 | 23.0 | 14.6 | 128.5 | 54.2 | 22.0 | 13.5 | 122.5 | 57.1 | 21.0 | 12.3 | 114.2 | 61.4 | 19.6 | 10.8 | | | | | | | | 51 |
| 6 | 158.7 | 43.8 | 27.2 | 19.7 | 149.3 | 47.6 | 25.6 | 17.7 | 139.5 | 51.9 | 23.9 | 15.6 | 133.4 | 54.7 | 22.9 | 14.4 | 127.2 | 57.7 | 21.8 | 13.2 | 118.7 | 62.0 | 20.3 | 11.6 | | | | | | | | 51 |
| 7 | 164.4 | 44.4 | 28.2 | 20.9 | 154.8 | 48.2 | 26.5 | 18.8 | 144.7 | 52.5 | 24.8 | 16.7 | 138.4 | 55.4 | 23.7 | 15.4 | 132.0 | 58.4 | 22.6 | 14.1 | 123.3 | 62.7 | 21.1 | 12.5 | | | | | | | | 51 |
| 8 | 170.2 | 44.9 | 29.2 | 22.2 | 160.3 | 48.8 | 27.5 | 20.0 | 149.9 | 53.1 | 25.7 | 17.8 | 143.5 | 56.0 | 24.6 | 16.4 | 136.9 | 59.0 | 23.5 | 15.1 | 127.9 | 63.3 | 21.9 | 13.4 | | | | | | | | 51 |
| 9 | 176.2 | 45.5 | 30.2 | 23.6 | 166.0 | 49.4 | 28.5 | 21.3 | 155.3 | 53.8 | 26.6 | 18.9 | 148.7 | 56.6 | 25.5 | 17.5 | 141.9 | 59.7 | 24.3 | 16.1 | 132.7 | 64.0 | 22.8 | 14.3 | | | | | | | | 51 |
| 10 | 182.3 | 46.1 | 31.3 | 25.1 | 171.8 | 50.0 | 29.5 | 22.6 | 160.8 | 54.4 | 27.6 | 20.1 | 154.0 | 57.3 | 26.4 | 18.7 | 147.1 | 60.3 | 25.2 | 17.2 | 137.6 | 64.7 | 23.6 | 15.3 | | | | | | | | 51 |

| Model: ACW10190HHSN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--------------------------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|----|----|---|-----|----|---|---|-----|
| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | |
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | | 50 | | | | 52 | | | | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR |
| 5 | 188.3 | 54.2 | 32.3 | 24.2 | 178.1 | 58.9 | 30.5 | 21.8 | 167.6 | 64.5 | 28.7 | 19.5 | 161.0 | 68.2 | 27.6 | 18.1 | 154.3 | 72.2 | 26.5 | 16.7 | 145.1 | 78.0 | 24.9 | 14.9 | | | | | | | | 51 |
| 6 | 195.0 | 54.8 | 33.4 | 25.8 | 184.7 | 59.6 | 31.7 | 23.3 | 173.8 | 65.2 | 29.8 | 20.8 | 167.1 | 68.9 | 28.6 | 19.4 | 160.2 | 72.9 | 27.5 | 17.9 | 150.8 | 78.8 | 25.9 | 16.0 | | | | | | | | 51 |
| 7 | 202.0 | 55.4 | 34.6 | 27.5 | 191.4 | 60.3 | 32.8 | 24.9 | 180.3 | 65.9 | 30.9 | 22.3 | 173.4 | 69.7 | 29.7 | 20.7 | 166.4 | 73.7 | 28.5 | 19.2 | 156.7 | 79.7 | 26.9 | 17.2 | | | | | | | | 51 |
| 8 | 209.1 | 56.1 | 35.8 | 29.3 | 198.2 | 61.0 | 34.0 | 26.6 | 186.8 | 66.6 | 32.0 | 23.8 | 179.8 | 70.4 | 30.8 | 22.2 | 172.6 | 74.6 | 29.6 | 20.6 | 162.7 | 80.6 | 27.9 | 18.4 | | | | | | | | 51 |
| 9 | 216.3 | 56.7 | 37.1 | 31.2 | 205.1 | 61.7 | 35.2 | 28.3 | 193.5 | 67.4 | 33.2 | 25.4 | 186.3 | 71.2 | 31.9 | 23.7 | 178.9 | 75.4 | 30.7 | 22.0 | 168.9 | 81.4 | 28.9 | 19.7 | | | | | | | | 50 |
| 10 | 223.7 | 57.4 | 38.3 | 33.2 | 212.3 | 62.4 | 36.4 | 30.1 | 200.3 | 68.2 | 34.3 | 27.1 | 193.0 | 72.1 | 33.1 | 25.3 | 185.4 | 76.2 | 31.8 | 23.5 | 175.1 | 82.3 | 30.0 | 21.1 | | | | | | | | 50 |

- Q: Cooling Capacity in kW
- P: Total Power Absorbed in kW
- WFR: Water Flow Rate in m³/hr.
- Pd: Water Pressure Drop in kPa
- CWT: Chilled Water Temperature in °C (ΔT = 5°C)
- MAT: Maximum Ambient Temperature in °C
- NOTES:
 - I. Data on grey background: unit switched to non-silenced operation
 - II. Waterflow and pressure drop on heat exchangers calculated with 5°C of delta T
 - III. Interpolation between rating is permissible but extrapolation is not.
 - IV. When the external air temperature is higher than the "MAT" the chiller doesn't stop but the "unloading" system capacity control is activated.

Standard Noise, High Ambient Temperature, 1-Compressor Units

| Model: ACW10215HHSN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--------------------------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|----|----|---|-----|----|---|----|
| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | |
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | | 50 | | | | 52 | | | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P |
| 5 | 213.8 | 60.4 | 36.7 | 30.6 | 202.5 | 65.8 | 34.7 | 27.6 | 190.7 | 72.1 | 32.7 | 24.7 | 183.4 | 76.3 | 31.4 | 23.0 | 175.8 | 80.8 | 30.1 | 21.3 | 165.6 | 87.5 | 28.4 | 19.0 | | | | | | | 51 |
| 6 | 221.5 | 61.1 | 38.0 | 32.6 | 209.9 | 66.6 | 36.0 | 29.5 | 197.8 | 72.9 | 33.9 | 26.5 | 190.2 | 77.1 | 32.6 | 24.6 | 182.5 | 81.7 | 31.3 | 22.8 | 172.0 | 88.4 | 29.5 | 20.4 | | | | | | | 51 |
| 7 | 229.3 | 61.8 | 39.3 | 34.7 | 217.4 | 67.4 | 37.3 | 31.5 | 205.0 | 73.7 | 35.1 | 28.3 | 197.3 | 78.0 | 33.8 | 26.4 | 189.5 | 82.7 | 32.5 | 24.4 | 178.7 | 89.4 | 30.6 | 21.9 | | | | | | | 51 |
| 8 | 237.3 | 62.6 | 40.7 | 37.0 | 225.1 | 68.2 | 38.6 | 33.6 | 212.4 | 74.6 | 36.4 | 30.2 | 204.5 | 78.9 | 35.1 | 28.2 | 196.5 | 83.6 | 33.7 | 26.1 | 185.4 | 90.4 | 31.8 | 23.5 | | | | | | | 51 |
| 9 | 245.4 | 63.3 | 42.1 | 39.3 | 233.0 | 69.0 | 39.9 | 35.7 | 220.0 | 75.5 | 37.7 | 32.2 | 211.9 | 79.8 | 36.3 | 30.0 | 203.6 | 84.6 | 34.9 | 27.9 | 192.4 | 91.5 | 33.0 | 25.1 | | | | | | | 50 |
| 10 | 253.8 | 64.1 | 43.5 | 41.8 | 241.0 | 69.8 | 41.3 | 38.0 | 227.7 | 76.4 | 39.0 | 34.3 | 219.4 | 80.8 | 37.6 | 32.0 | 211.0 | 85.6 | 36.2 | 29.8 | 199.4 | 92.5 | 34.2 | 26.9 | | | | | | | 50 |

Standard Noise, High Ambient Temperature, 2-Compressor Units

| Model: ACW20210HHSN | | | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | | | | |
|--------------------------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|----|---|-----|----|---|----|-----|----|---|---|-----|----|
| Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | 35 | | | | | 40 | | | | | 43 | | | | | 46 | | | | | 50 | | | | | 52 | | | | | | |
| CWT | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd |
| 5 | 205.4 | 57.8 | 35.2 | 18.1 | 193.9 | 62.2 | 33.2 | 16.2 | 181.9 | 67.3 | 31.2 | 14.3 | 174.5 | 70.9 | 29.9 | 13.2 | 166.9 | 74.8 | 28.6 | 12.1 | 156.6 | 80.7 | 26.8 | 10.6 | | | | | | | | | | | | 51 |
| 6 | 212.7 | 58.5 | 36.5 | 19.3 | 200.9 | 62.9 | 34.4 | 17.3 | 188.6 | 68.1 | 32.3 | 15.3 | 180.9 | 71.6 | 31.0 | 14.1 | 173.2 | 75.5 | 29.7 | 13.0 | 162.6 | 81.5 | 27.9 | 11.4 | | | | | | | | | | | | 51 |
| 7 | 220.2 | 59.2 | 37.8 | 20.6 | 208.1 | 63.6 | 35.7 | 18.5 | 195.4 | 68.8 | 33.5 | 16.4 | 187.6 | 72.4 | 32.2 | 15.2 | 179.6 | 76.3 | 30.8 | 13.9 | 168.7 | 82.3 | 28.9 | 12.3 | | | | | | | | | | | | 51 |
| 8 | 227.8 | 59.9 | 39.0 | 22.0 | 215.3 | 64.3 | 36.9 | 19.8 | 202.3 | 69.6 | 34.7 | 17.6 | 194.3 | 73.1 | 33.3 | 16.2 | 186.1 | 77.1 | 31.9 | 14.9 | 174.9 | 83.1 | 30.0 | 13.2 | | | | | | | | | | | | 51 |
| 9 | 235.5 | 60.6 | 40.4 | 23.4 | 222.7 | 65.1 | 38.2 | 21.1 | 209.3 | 70.3 | 35.9 | 18.7 | 201.1 | 73.9 | 34.5 | 17.4 | 192.7 | 77.9 | 33.0 | 16.0 | 181.3 | 83.9 | 31.1 | 14.2 | | | | | | | | | | | | 51 |
| 10 | 243.4 | 61.3 | 41.7 | 24.9 | 230.2 | 65.9 | 39.5 | 22.4 | 216.5 | 71.1 | 37.1 | 20.0 | 208.1 | 74.7 | 35.7 | 18.5 | 199.5 | 78.7 | 34.2 | 17.1 | 187.8 | 84.7 | 32.2 | 15.2 | | | | | | | | | | | | 50 |

| Model: ACW20235HHSN | | | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | | | | | |
|--------------------------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|----|---|-----|----|---|----|-----|----|---|---|-----|----|----|
| Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | 35 | | | | | 40 | | | | | 43 | | | | | 46 | | | | | 50 | | | | | 52 | | | | | | | |
| CWT | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | |
| 5 | 231.1 | 64.2 | 39.6 | 22.6 | 217.6 | 69.5 | 37.3 | 20.2 | 203.6 | 75.5 | 34.9 | 17.8 | 194.9 | 79.4 | 33.4 | 16.4 | 186.2 | 83.7 | 31.9 | 15.0 | 174.4 | 89.8 | 29.9 | 13.2 | | | | | | | | | | | | 51 | |
| 6 | 239.2 | 64.9 | 41.0 | 24.1 | 225.3 | 70.3 | 38.6 | 21.5 | 210.9 | 76.3 | 36.2 | 19.0 | 202.0 | 80.3 | 34.6 | 17.5 | 193.1 | 84.5 | 33.1 | 16.1 | 180.9 | 90.7 | 31.0 | 14.1 | | | | | | | | | | | | 51 | |
| 7 | 247.4 | 65.7 | 42.4 | 25.6 | 233.2 | 71.1 | 40.0 | 23.0 | 218.4 | 77.2 | 37.4 | 20.3 | 209.3 | 81.2 | 35.9 | 18.7 | 200.1 | 85.4 | 34.3 | 17.2 | 187.7 | 91.6 | 32.2 | 15.2 | | | | | | | | | | | | 50 | |
| 8 | 255.7 | 66.4 | 43.8 | 27.2 | 241.1 | 71.9 | 41.3 | 24.4 | 225.9 | 78.0 | 38.7 | 21.7 | 216.6 | 82.0 | 37.1 | 20.0 | 207.2 | 86.3 | 35.5 | 18.4 | 194.5 | 92.5 | 33.3 | 16.3 | | | | | | | | | | | | 50 | |
| 9 | 264.2 | 67.2 | 45.3 | 28.9 | 249.2 | 72.8 | 42.7 | 26.0 | 233.6 | 78.9 | 40.0 | 23.1 | 224.1 | 83.0 | 38.4 | 21.3 | 214.4 | 87.3 | 36.8 | 19.6 | | | | | | | | | | | | | | | | | 49 |
| 10 | 272.8 | 68.0 | 46.8 | 30.6 | 257.4 | 73.6 | 44.1 | 27.6 | 241.5 | 79.8 | 41.4 | 24.5 | 231.7 | 83.9 | 39.7 | 22.7 | 221.9 | 88.2 | 38.0 | 20.9 | | | | | | | | | | | | | | | | | 49 |

| Model: ACW20255HHSN | | | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | | | | | |
|--------------------------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|-------|------|------|----|---|-----|----|---|----|-----|----|---|---|-----|----|----|
| Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | 35 | | | | | 40 | | | | | 43 | | | | | 46 | | | | | 50 | | | | | 52 | | | | | | | |
| CWT | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | |
| 5 | 250.6 | 71.4 | 43.0 | 26.2 | 236.0 | 77.3 | 40.5 | 23.5 | 220.7 | 83.9 | 37.8 | 20.7 | 211.2 | 88.2 | 36.2 | 19.1 | 201.6 | 92.8 | 34.6 | 17.4 | 188.4 | 99.5 | 32.3 | 15.3 | | | | | | | | | | | | | 51 |
| 6 | 259.7 | 72.2 | 44.5 | 28.0 | 244.7 | 78.1 | 41.9 | 25.1 | 229.0 | 84.7 | 39.2 | 22.2 | 219.2 | 89.1 | 37.6 | 20.5 | 209.3 | 93.7 | 35.9 | 18.7 | 195.8 | 100.4 | 33.6 | 16.5 | | | | | | | | | | | | | 51 |
| 7 | 269.0 | 72.9 | 46.1 | 29.9 | 253.6 | 78.9 | 43.5 | 26.8 | 237.4 | 85.6 | 40.7 | 23.8 | 227.4 | 89.9 | 39.0 | 21.9 | 217.2 | 94.6 | 37.2 | 20.1 | 203.3 | 101.3 | 34.9 | 17.7 | | | | | | | | | | | | | 51 |
| 8 | 278.4 | 73.7 | 47.7 | 31.8 | 262.6 | 79.7 | 45.0 | 28.6 | 245.9 | 86.4 | 42.2 | 25.4 | 235.7 | 90.8 | 40.4 | 23.4 | 225.2 | 95.5 | 38.6 | 21.5 | 211.0 | 102.3 | 36.2 | 19.0 | | | | | | | | | | | | | 51 |
| 9 | 288.0 | 74.5 | 49.4 | 33.8 | 271.7 | 80.6 | 46.6 | 30.4 | 254.7 | 87.3 | 43.7 | 27.0 | 244.1 | 91.7 | 41.9 | 25.0 | 233.4 | 96.5 | 40.0 | 23.0 | 218.8 | 103.2 | 37.5 | 20.4 | | | | | | | | | | | | | 51 |
| 10 | 297.9 | 75.4 | 51.1 | 35.9 | 281.2 | 81.5 | 48.2 | 32.4 | 263.7 | 88.3 | 45.2 | 28.8 | 252.8 | 92.7 | 43.3 | 26.7 | 241.8 | 97.4 | 41.5 | 24.6 | 226.8 | 104.2 | 38.9 | 21.8 | | | | | | | | | | | | | 50 |

| Model: ACW20270HHSN | | | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | | | | | |
|--------------------------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|----|---|-----|----|---|----|-----|----|---|---|-----|----|----|
| Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | 35 | | | | | 40 | | | | | 43 | | | | | 46 | | | | | 50 | | | | | 52 | | | | | | | |
| CWT | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | |
| 5 | 265.0 | 77.6 | 45.4 | 29.0 | 249.1 | 84.3 | 42.7 | 26.0 | 232.5 | 91.8 | 39.8 | 22.8 | 222.1 | 96.7 | 38.1 | 21.0 | 211.6 | 102.0 | 36.3 | 19.1 | 197.2 | 109.5 | 33.8 | 16.7 | | | | | | | | | | | | | 51 |
| 6 | 274.7 | 78.5 | 47.1 | 31.0 | 258.4 | 85.2 | 44.3 | 27.7 | 241.2 | 92.8 | 41.4 | 24.5 | 230.6 | 97.7 | 39.5 | 22.5 | 219.7 | 103.0 | 37.7 | 20.6 | 205.0 | 110.6 | 35.1 | 18.0 | | | | | | | | | | | | | 51 |
| 7 | 284.6 | 79.4 | 48.8 | 33.1 | 267.8 | 86.1 | 45.9 | 29.6 | 250.2 | 93.8 | 42.9 | 26.2 | 239.3 | 98.8 | 41.0 | 24.1 | 228.1 | 104.1 | 39.1 | 22.1 | 212.9 | 111.7 | 36.5 | 19.4 | | | | | | | | | | | | | 51 |
| 8 | 294.7 | 80.3 | 50.5 | 35.2 | 277.4 | 87.1 | 47.6 | 31.6 | 259.3 | 94.8 | 44.5 | 27.9 | 248.1 | 99.8 | 42.5 | 25.8 | 236.6 | 105.2 | 40.6 | 23.6 | 221.0 | 112.8 | 37.9 | 20.8 | | | | | | | | | | | | | 51 |
| 9 | 305.0 | 81.3 | 52.3 | 37.5 | 287.2 | 88.2 | 49.2 | 33.6 | 268.6 | 95.9 | 46.0 | 29.8 | 257.1 | 100.9 | 44.1 | 27.5 | 245.3 | 106.3 | 42.0 | 25.2 | 229.2 | 114.0 | 39.3 | 22.2 | | | | | | | | | | | | | 51 |
| 10 | 315.5 | 82.3 | 54.1 | 39.9 | 297.3 | 89.2 | 51.0 | 35.8 | 278.1 | 97.0 | 47.7 | 31.7 | 266.3 | 102.0 | 45.6 | 29.3 | 254.1 | 107.4 | 43.6 | 26.9 | 237.7 | 115.1 | 40.7 | 23.8 | | | | | | | | | | | | | 51 |

| Model: ACW20300HHSN | | | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | | | | | |
|--------------------------|-------|------|------|------|-------|------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|----|---|-----|----|---|----|-----|----|---|---|-----|----|----|
| Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | 35 | | | | | 40 | | | | | 43 | | | | | 46 | | | | | 50 | | | | | 52 | | | | | | | |
| CWT | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | |
| 5 | 296.3 | 82.0 | 50.8 | 35.9 | 278.6 | 89.0 | 47.8 | 34.2 | 260.0 | 96.9 | 44.6 | 31.2 | 248.5 | 102.1 | 42.6 | 30.5 | 236.7 | 107.6 | 40.6 | 28.9 | 220.6 | 115.6 | 37.8 | 24.2 | | | | | | | | | | | | 51 | |
| 6 | 307.2 | 83.0 | 52.7 | 37.9 | 288.9 | 90.0 | 49.5 | 36.1 | 269.8 | 98.0 | 46.3 | 33.4 | 257.9 | 103.2 | 44.2 | 32.3 | 245.8 | 108.7 | 42.1 | 30.1 | 229.3 | 116.7 | 39.3 | 25.9 | | | | | | | | | | | | | 51 |
| 7 | 318.3 | 84.0 | 54.6 | 40.0 | 299.5 | 91.1 | 51.3 | 38.2 | 279.8 | 99.1 | 48.0 | 35.6 | 267.6 | 104.3 | 45.9 | 34.2 | 255.2 | 109.9 | 43.7 | 32.1 | 238.2 | 117.9 | 40.8 | 27.6 | | | | | | | | | | | | | 51 |
| 8 | 329.6 | 85.0 | 56.5 | 42.1 | 310.4 | 92.2 | 53.2 | 40.3 | 290.1 | 100.2 | 49.7 | 37.3 | 277.6 | 105.5 | 47.6 | 36.1 | 264.8 | 111.1 | 45.4 | 33.9 | 247.3 | 119.1 | 42.4 | 29.1 | | | | | | | | | | | | | 51 |
| 9 | 341.3 | 86.1 | 58.5 | 44.2 | 321.5 | 93.3 | 55.1 | 42.4 | 300.6 | 101.4 | 51.5 | 39.4 | 287.8 | 106.7 | 49.3 | 38.2 | 274.6 | 112.3 | 47.1 | 36.0 | 256.7 | 120.4 | 44.0 | 30.2 | | | | | | | | | | | | | 51 |
| 10 | 353.2 | 87.2 | 60.5 | 46.3 | 332.8 | 94.5 | 57.0 | 44.5 | 311.4 | 102.6 | 53.4 | 41.5 | 298.2 | 108.0 | 51.1 | 40.1 | 284.7 | 113.6 | 48.8 | 38.1 | 266.3 | 121.7 | 45.6 | 31.3 | | | | | | | | | | | | | 50 |

- Q: Cooling Capacity in kW
- P: Total Power Absorbed in kW
- WFR: Water Flow Rate in m3/hr.
- Pd: Water Pressure Drop in kPa
- CWT: Chilled Water Temperature in °C (ΔT = 5°C)
- MAT: Maximum Ambient Temperature in °C
- NOTES:
 - I. Data on grey background: unit switched to non-silenced operation
 - II. Waterflow and pressure drop on heat exchangers calculated with 5°C of delta T
 - III. Interpolation between rating is permissible but extrapolation is not.
 - IV. When the external air temperature is higher than the "MAT" the chiller doesn't stop but the "unloading" system capacity control is activated.

Standard Noise, High Ambient Temperature, 2-Compressor Units

| Model: ACW20315HHSN | | | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | | | | | |
|--------------------------|-------|------|------|------|-------|------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|----|---|-----|----|---|----|-----|----|---|---|-----|----|----|
| Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | 35 | | | | | 40 | | | | | 43 | | | | | 46 | | | | | 50 | | | | | 52 | | | | | | | |
| CWT | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | |
| 5 | 312.8 | 87.2 | 53.6 | 38.0 | 294.0 | 94.8 | 50.4 | 40.0 | 274.3 | 103.3 | 47.0 | 33.8 | 262.1 | 108.9 | 44.9 | 32.7 | 249.7 | 114.9 | 42.8 | 30.1 | 232.7 | 123.4 | 39.9 | 28.1 | | | | | | | | | | | | | 51 |
| 6 | 324.1 | 88.3 | 55.6 | 40.1 | 304.8 | 95.9 | 52.3 | 42.1 | 284.6 | 104.5 | 48.8 | 35.0 | 272.0 | 110.1 | 46.6 | 34.6 | 259.2 | 116.1 | 44.4 | 32.4 | 241.8 | 124.7 | 41.5 | 29.9 | | | | | | | | | | | | | 51 |
| 7 | 335.7 | 89.4 | 57.6 | 42.2 | 315.9 | 97.1 | 54.2 | 44.2 | 295.1 | 105.7 | 50.6 | 37.1 | 282.2 | 111.4 | 48.4 | 36.1 | 269.0 | 117.4 | 46.1 | 34.3 | 251.1 | 126.0 | 4 | | | | | | | | | | | | | | |

Standard Noise, High Ambient Temperature, 2-Compressor Units

| Model: ACW20485HPSN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|----|---|-----|----|-----|
| Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CWT | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | 52 | | | | MAT |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | |
| 5 | 479.5 | 130.0 | 82.2 | 43.8 | 453.6 | 141.6 | 77.8 | 39.6 | 426.2 | 154.8 | 73.1 | 35.3 | 409.3 | 163.7 | 70.2 | 32.8 | 392.0 | 173.3 | 67.2 | 30.3 | 368.5 | 187.3 | 63.2 | 27.1 | | | | | 51 |
| 6 | 496.9 | 131.6 | 85.2 | 46.7 | 470.3 | 143.2 | 80.6 | 42.3 | 442.2 | 156.6 | 75.8 | 37.8 | 424.8 | 165.5 | 72.8 | 35.1 | 407.0 | 175.2 | 69.8 | 32.5 | 382.9 | 189.3 | 65.6 | 29.0 | | | | | 51 |
| 7 | 514.8 | 133.2 | 88.2 | 49.9 | 487.4 | 144.9 | 83.6 | 45.1 | 458.6 | 158.4 | 78.6 | 40.4 | 440.7 | 167.4 | 75.5 | 37.5 | 422.4 | 177.2 | 72.4 | 34.8 | 397.6 | 191.4 | 68.2 | 31.1 | | | | | 51 |
| 8 | 532.2 | 134.8 | 91.2 | 53.0 | 504.2 | 146.6 | 86.4 | 48.0 | 474.6 | 160.2 | 81.4 | 43.0 | 456.3 | 169.3 | 78.2 | 40.0 | 437.5 | 179.1 | 75.0 | 37.1 | 412.1 | 193.5 | 70.6 | 33.2 | | | | | 50 |
| 9 | 550.1 | 136.4 | 94.3 | 56.3 | 521.3 | 148.3 | 89.4 | 51.0 | 491.0 | 162.1 | 84.2 | 45.7 | 472.2 | 171.2 | 80.9 | 42.6 | 453.0 | 181.1 | 77.7 | 39.5 | 426.9 | 195.6 | 73.2 | 35.4 | | | | | 50 |
| 10 | 568.3 | 138.1 | 97.4 | 59.8 | 538.8 | 150.1 | 92.4 | 54.2 | 507.7 | 163.9 | 87.0 | 48.6 | 488.5 | 173.2 | 83.7 | 45.3 | 468.8 | 183.2 | 80.4 | 42.0 | 442.0 | 197.8 | 75.8 | 37.8 | | | | | 50 |
| Model: ACW20515HHSN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CWT | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | 52 | | | | MAT |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | |
| 5 | 507.8 | 141.5 | 87.1 | 48.6 | 479.2 | 154.2 | 82.2 | 43.8 | 449.1 | 168.6 | 77.0 | 38.9 | 430.5 | 178.3 | 73.8 | 36.0 | 411.7 | 188.8 | 70.6 | 33.2 | 386.3 | 204.2 | 66.2 | 29.5 | | | | | 51 |
| 6 | 526.0 | 143.2 | 90.2 | 51.9 | 496.6 | 156.0 | 85.1 | 46.7 | 465.6 | 170.6 | 79.8 | 41.5 | 446.4 | 180.3 | 76.5 | 38.4 | 427.0 | 190.9 | 73.2 | 35.4 | 400.8 | 206.4 | 68.7 | 31.6 | | | | | 50 |
| 7 | 544.6 | 145.0 | 93.4 | 55.3 | 514.4 | 157.8 | 88.2 | 49.8 | 482.5 | 172.6 | 82.7 | 44.3 | 462.7 | 182.4 | 79.3 | 41.0 | 442.7 | 193.1 | 75.9 | 37.9 | 415.6 | 208.6 | 71.3 | 33.7 | | | | | 50 |
| 8 | 562.8 | 146.7 | 96.5 | 58.7 | 531.7 | 159.7 | 91.2 | 52.9 | 499.0 | 174.5 | 85.5 | 47.1 | 478.7 | 184.5 | 82.1 | 43.7 | 458.1 | 195.2 | 78.5 | 40.3 | 430.2 | 210.9 | 73.8 | 35.9 | | | | | 50 |
| 9 | 581.3 | 148.5 | 99.7 | 62.4 | 549.4 | 161.6 | 94.2 | 56.2 | 515.8 | 176.6 | 88.4 | 50.0 | 495.0 | 186.6 | 84.8 | 46.4 | 473.8 | 197.4 | 81.2 | 42.9 | | | | | | | | | 49 |
| 10 | 600.3 | 150.3 | 102.9 | 66.2 | 567.5 | 163.5 | 97.3 | 59.6 | 532.9 | 178.6 | 91.4 | 53.1 | 511.6 | 188.7 | 87.7 | 49.3 | 489.8 | 199.6 | 84.0 | 45.5 | | | | | | | | | 49 |
| Model: ACW20575HHSN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CWT | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | 52 | | | | MAT |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | |
| 5 | 567.5 | 158.4 | 97.3 | 44.6 | 536.7 | 172.3 | 92.0 | 40.3 | 504.4 | 188.3 | 86.5 | 36.0 | 484.5 | 199.0 | 83.1 | 33.5 | 464.1 | 210.6 | 79.6 | 30.9 | 436.3 | 227.6 | 74.8 | 27.7 | | | | | 51 |
| 6 | 587.5 | 160.2 | 100.7 | 47.5 | 555.8 | 174.2 | 95.3 | 42.9 | 522.7 | 190.3 | 89.6 | 38.4 | 502.2 | 201.1 | 86.1 | 35.7 | 481.3 | 212.9 | 82.5 | 33.1 | 452.8 | 230.0 | 77.6 | 29.6 | | | | | 51 |
| 7 | 607.8 | 162.0 | 104.2 | 50.5 | 575.3 | 176.2 | 98.6 | 45.7 | 541.4 | 192.4 | 92.8 | 40.9 | 520.4 | 203.3 | 89.2 | 38.1 | 498.9 | 215.1 | 85.5 | 35.3 | 469.7 | 232.4 | 80.5 | 31.6 | | | | | 51 |
| 8 | 628.6 | 163.9 | 107.8 | 53.7 | 595.2 | 178.2 | 102.0 | 48.6 | 560.4 | 194.6 | 96.1 | 43.6 | 538.9 | 205.5 | 92.4 | 40.6 | 516.9 | 217.4 | 88.6 | 37.6 | 486.9 | 234.8 | 83.5 | 33.8 | | | | | 51 |
| 9 | 649.8 | 165.8 | 111.4 | 57.1 | 615.6 | 180.2 | 105.5 | 51.7 | 579.9 | 196.8 | 99.4 | 46.4 | 557.8 | 207.8 | 95.6 | 43.2 | 535.3 | 219.8 | 91.8 | 40.1 | 504.6 | 237.3 | 86.5 | 36.0 | | | | | 50 |
| 10 | 671.5 | 167.8 | 115.1 | 60.6 | 636.4 | 182.3 | 109.1 | 55.0 | 599.9 | 199.0 | 102.8 | 49.3 | 577.2 | 210.2 | 99.0 | 46.0 | 554.1 | 222.2 | 95.0 | 42.7 | 522.6 | 239.9 | 89.6 | 38.4 | | | | | 50 |
| Model: ACW20645HHSN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CWT | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | 52 | | | | MAT |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | |
| 5 | 636.7 | 175.9 | 109.2 | 55.0 | 602.9 | 191.7 | 103.4 | 49.8 | 567.4 | 209.8 | 97.3 | 44.6 | 545.5 | 222.0 | 93.5 | 41.5 | 523.0 | 235.1 | 89.7 | 38.4 | 492.3 | 254.4 | 84.4 | 34.4 | | | | | 51 |
| 6 | 658.8 | 177.9 | 112.9 | 58.6 | 624.1 | 193.8 | 107.0 | 53.0 | 587.8 | 212.1 | 100.8 | 47.5 | 565.3 | 224.4 | 96.9 | 44.3 | 542.2 | 237.7 | 93.0 | 41.0 | 510.7 | 257.1 | 87.6 | 36.8 | | | | | 51 |
| 7 | 681.5 | 180.0 | 116.8 | 62.3 | 645.9 | 196.0 | 110.7 | 56.5 | 608.6 | 214.5 | 104.3 | 50.7 | 585.5 | 226.9 | 100.4 | 47.2 | 561.9 | 240.2 | 96.3 | 43.8 | 529.6 | 259.8 | 90.8 | 39.3 | | | | | 51 |
| 8 | 704.5 | 182.1 | 120.8 | 66.2 | 668.0 | 198.3 | 114.5 | 60.1 | 629.9 | 216.9 | 108.0 | 53.9 | 606.2 | 229.4 | 103.9 | 50.3 | 582.0 | 242.9 | 99.8 | 46.7 | 548.9 | 262.6 | 94.1 | 42.0 | | | | | 51 |
| 9 | 728.0 | 184.3 | 124.8 | 70.3 | 690.7 | 200.6 | 118.4 | 63.8 | 651.5 | 219.4 | 111.7 | 57.4 | 627.3 | 232.0 | 107.5 | 53.5 | 602.5 | 245.6 | 103.3 | 49.7 | 568.6 | 265.5 | 97.5 | 44.7 | | | | | 50 |
| 10 | 752.0 | 186.5 | 128.9 | 74.7 | 713.8 | 203.0 | 122.4 | 67.8 | 673.7 | 222.0 | 115.5 | 61.0 | 648.9 | 234.7 | 111.2 | 56.9 | 623.4 | 248.4 | 106.9 | 52.9 | 588.7 | 268.4 | 100.9 | 47.7 | | | | | 50 |
| Model: ACW20720HPSN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CWT | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | 52 | | | | MAT |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | |
| 5 | 711.1 | 192.5 | 121.9 | 55.0 | 671.9 | 209.5 | 115.2 | 49.6 | 630.7 | 228.8 | 108.1 | 44.2 | 605.1 | 241.6 | 103.7 | 41.0 | 578.9 | 255.2 | 99.2 | 37.8 | 543.2 | 274.8 | 93.1 | 33.6 | | | | | 51 |
| 6 | 735.7 | 194.7 | 126.1 | 58.5 | 695.5 | 211.8 | 119.2 | 52.8 | 653.3 | 231.2 | 112.0 | 47.1 | 627.0 | 244.1 | 107.5 | 43.7 | 600.2 | 257.8 | 102.9 | 40.3 | 563.5 | 277.5 | 96.6 | 36.0 | | | | | 51 |
| 7 | 760.8 | 196.8 | 130.4 | 62.2 | 719.6 | 214.1 | 123.4 | 56.2 | 676.3 | 233.7 | 115.9 | 50.2 | 649.4 | 246.6 | 111.3 | 46.6 | 621.9 | 260.4 | 106.6 | 43.0 | 584.3 | 280.2 | 100.2 | 38.4 | | | | | 51 |
| 8 | 786.8 | 199.1 | 134.9 | 66.2 | 744.5 | 216.5 | 127.6 | 59.8 | 700.1 | 236.2 | 120.0 | 53.4 | 672.6 | 249.2 | 115.3 | 49.7 | 644.3 | 263.1 | 110.5 | 45.9 | 605.8 | 283.0 | 103.8 | 41.0 | | | | | 50 |
| 9 | 813.3 | 201.4 | 139.4 | 70.3 | 770.0 | 218.9 | 132.0 | 63.6 | 724.5 | 238.8 | 124.2 | 56.9 | 696.2 | 251.9 | 119.4 | 52.9 | 667.3 | 265.9 | 114.4 | 49.0 | 627.8 | 285.9 | 107.6 | 43.8 | | | | | 50 |
| 10 | 840.4 | 203.8 | 144.1 | 74.7 | 796.0 | 221.4 | 136.5 | 67.6 | 749.4 | 241.5 | 128.5 | 60.5 | 720.4 | 254.7 | 123.5 | 56.3 | 690.8 | 268.7 | 118.4 | 52.1 | 650.3 | 288.8 | 111.5 | 46.7 | | | | | 50 |

- Q: Cooling Capacity in kW
- P: Total Power Absorbed in kW
- WFR: Water Flow Rate in m3/hr.
- Pd: Water Pressure Drop in kPa
- CWT: Chilled Water Temperature in °C (ΔT = 5°C)
- MAT: Maximum Ambient Temperature in °C

- NOTES:
- Data on grey background: unit switched to non-silenced operation
 - Waterflow and pressure drop on heat exchangers calculated with 5°C of delta T
 - Interpolation between rating is permissible but extrapolation is not.
 - When the external air temperature is higher than the "MAT" the chiller doesn't stop but the "unloading" system capacity control is activated.

Standard Noise, High Ambient Temperature, 2-Compressor Units

| Model: ACW20770HPSN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|----|---|-----|----|-----|
| Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CWT | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | 52 | | | | MAT |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | |
| 5 | 763.6 | 207.3 | 130.9 | 62.6 | 721.4 | 225.5 | 123.7 | 56.4 | 676.7 | 246.0 | 116.0 | 50.2 | 648.8 | 259.4 | 111.2 | 46.5 | 620.2 | 273.5 | 106.3 | 42.8 | 581.0 | 293.5 | 99.6 | 38.0 | | | | | 51 |
| 6 | 789.7 | 209.4 | 135.4 | 66.6 | 746.5 | 227.8 | 128.0 | 60.1 | 700.8 | 248.4 | 120.1 | 53.5 | 672.2 | 261.9 | 115.2 | 49.6 | 642.9 | 276.0 | 110.2 | 45.7 | 602.7 | 296.1 | 103.3 | 40.7 | | | | | 51 |
| 7 | 816.5 | 211.6 | 140.0 | 70.8 | 772.2 | 230.1 | 132.4 | 63.9 | 725.3 | 250.9 | 124.3 | 57.0 | 696.1 | 264.4 | 119.3 | 52.9 | 666.0 | 278.6 | 114.2 | 48.8 | 624.9 | 298.8 | 107.1 | 43.4 | | | | | 51 |
| 8 | 844.1 | 213.9 | 144.7 | 75.3 | 798.8 | 232.5 | 136.9 | 68.0 | 750.7 | 253.4 | 128.7 | 60.7 | 720.7 | 267.0 | 123.6 | 56.4 | 690.0 | 281.3 | 118.3 | 52.0 | 647.8 | 301.5 | 111.1 | 46.4 | | | | | 51 |
| 9 | 872.3 | 216.2 | 149.5 | 80.0 | 825.9 | 235.0 | 141.6 | 72.3 | 776.7 | 256.0 | 133.1 | 64.6 | 746.0 | 269.6 | 127.9 | 60.0 | 714.4 | 284.0 | 122.5 | 55.5 | 671.3 | 304.2 | 115.1 | 49.5 | | | | | 50 |
| 10 | 901.0 | 218.6 | 154.5 | 84.9 | 853.5 | 237.5 | 146.3 | 76.8 | 803.1 | 258.6 | 137.7 | 68.7 | 771.7 | 272.3 | 132.3 | 63.9 | 739.4 | 286.7 | 126.8 | 59.1 | 695.2 | 307.0 | 119.2 | 52.8 | | | | | 50 |
| Model: ACW20845HPSN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CWT | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | 52 | | | | MAT |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | |
| 5 | 836.0 | 222.3 | 143 | | | | | | | | | | | | | | | | | | | | | | | | | | |

Standard Noise, High Ambient Temperature, 3-Compressor Units

Model: ACW31250HSSN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | |
|-----|--------------------------|-------|-------|-------|--------|-------|-------|------|--------|-------|-------|------|--------|-------|-------|------|--------|-------|-------|------|--------|-------|-------|------|-----|----|---|-----|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd |
| 5 | 1243.8 | 379.7 | 213.2 | 77.2 | 1172.6 | 411.7 | 201.0 | 69.0 | 1098.3 | 447.0 | 188.3 | 60.9 | 1052.6 | 470.0 | 180.4 | 56.1 | 1006.4 | 494.6 | 172.5 | 51.5 | 944.3 | 530.1 | 161.9 | 45.6 | | | | | 51 |
| 6 | 1284.3 | 384.7 | 220.2 | 82.0 | 1211.5 | 417.0 | 207.7 | 73.4 | 1135.4 | 452.7 | 194.6 | 64.9 | 1088.7 | 475.9 | 186.6 | 59.9 | 1041.4 | 500.8 | 178.5 | 55.0 | 977.7 | 536.5 | 167.6 | 48.7 | | | | | 51 |
| 7 | 1325.3 | 389.8 | 227.2 | 87.0 | 1251.0 | 422.5 | 214.5 | 78.0 | 1173.3 | 458.5 | 201.1 | 69.1 | 1125.4 | 482.0 | 192.9 | 63.8 | 1077.0 | 507.0 | 184.6 | 58.6 | 1011.8 | 543.1 | 173.5 | 52.0 | | | | | 50 |
| 8 | 1366.3 | 394.8 | 234.2 | 92.2 | 1290.4 | 427.9 | 221.2 | 82.8 | 1211.1 | 464.3 | 207.6 | 73.4 | 1162.2 | 488.0 | 199.2 | 67.8 | 1112.7 | 513.3 | 190.7 | 62.4 | 1046.0 | 549.7 | 179.3 | 55.5 | | | | | 50 |
| 9 | 1407.8 | 399.9 | 241.3 | 97.5 | 1330.5 | 433.4 | 228.1 | 87.7 | 1249.5 | 470.2 | 214.2 | 77.9 | 1199.6 | 494.2 | 205.6 | 72.1 | 1149.0 | 519.7 | 197.0 | 66.4 | | | | | | | | | 49 |
| 10 | 1449.8 | 405.2 | 248.5 | 103.0 | 1371.1 | 439.0 | 235.1 | 92.8 | 1288.6 | 476.3 | 220.9 | 82.5 | 1237.6 | 500.5 | 212.2 | 76.5 | 1185.9 | 526.3 | 203.3 | 70.5 | | | | | | | | | 49 |

Model: ACW31455HSSN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | |
|-----|--------------------------|-------|-------|------|--------|-------|-------|------|--------|-------|-------|------|--------|-------|-------|------|--------|-------|-------|------|--------|-------|-------|------|-----|----|---|-----|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd |
| 5 | 1441.2 | 422.5 | 247.1 | 62.0 | 1363.5 | 461.5 | 233.7 | 56.0 | 1282.0 | 503.6 | 219.8 | 49.9 | 1231.2 | 530.2 | 211.1 | 46.4 | 1179.3 | 557.7 | 202.2 | 42.8 | 1108.3 | 595.9 | 190.0 | 38.2 | | | | | 51 |
| 6 | 1487.3 | 428.3 | 255.0 | 65.7 | 1408.0 | 467.8 | 241.4 | 59.4 | 1324.5 | 510.3 | 227.1 | 53.0 | 1272.6 | 537.2 | 218.2 | 49.3 | 1219.5 | 565.0 | 209.1 | 45.6 | 1146.9 | 603.5 | 196.6 | 40.7 | | | | | 50 |
| 7 | 1534.1 | 434.2 | 263.0 | 69.5 | 1453.1 | 474.2 | 249.1 | 62.9 | 1367.8 | 517.2 | 234.5 | 56.3 | 1314.7 | 544.4 | 225.4 | 52.3 | 1260.4 | 572.4 | 216.1 | 48.4 | 1186.1 | 611.2 | 203.3 | 43.3 | | | | | 50 |
| 8 | 1581.3 | 440.3 | 271.1 | 73.5 | 1498.7 | 480.8 | 256.9 | 66.6 | 1411.6 | 524.2 | 242.0 | 59.6 | 1357.4 | 551.7 | 232.7 | 55.5 | 1301.9 | 580.0 | 223.2 | 51.4 | | | | | | | | | 49 |
| 9 | 1629.0 | 446.4 | 279.3 | 77.7 | 1545.0 | 487.4 | 264.9 | 70.5 | 1456.1 | 531.4 | 249.6 | 63.2 | 1400.8 | 559.1 | 240.1 | 58.8 | 1344.1 | 587.7 | 230.4 | 54.5 | | | | | | | | | 49 |
| 10 | 1677.1 | 452.6 | 287.5 | 82.0 | 1591.8 | 494.2 | 272.9 | 74.4 | 1501.3 | 538.7 | 257.4 | 66.8 | 1444.8 | 566.6 | 247.7 | 62.3 | 1387.0 | 595.5 | 237.8 | 57.7 | | | | | | | | | 48 |

- Q: Cooling Capacity in kW
- P: Total Power Absorbed in kW
- WFR: Water Flow Rate in m³/hr.
- Pd: Water Pressure Drop in kPa
- CWT: Chilled Water Temperature in °C (ΔT = 5°C)
- MAT: Maximum Ambient Temperature in °C

NOTES:
 I. Data on grey background: unit switched to non-silenced operation
 II. Waterflow and pressure drop on heat exchangers calculated with 5°C of delta T
 III. Interpolation between rating is permissible but extrapolation is not.
 IV. When the external air temperature is higher than the "MAT" the chiller doesn't stop but the "unloading" system capacity control is activated.

Low Noise, Medium and Standard Ambient Temperature, 1-Compressor Units

Model: ACW10100SSLN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | |
|-----|--------------------------|------|------|-----|-------|------|------|-----|-------|------|------|-----|------|------|------|-----|------|------|------|-----|----|---|-----|----|-----|----|---|-----|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd |
| 5 | 97.7 | 28.8 | 16.7 | 3.6 | 92.0 | 31.3 | 15.8 | 3.1 | 86.0 | 34.1 | 14.7 | 2.7 | 82.3 | 36.1 | 14.1 | 2.5 | 78.6 | 38.3 | 13.5 | 2.3 | | | | | | | | | 49 |
| 6 | 101.0 | 29.2 | 17.3 | 3.8 | 95.1 | 31.6 | 16.3 | 3.4 | 89.0 | 34.5 | 15.3 | 2.9 | 85.2 | 36.5 | 14.6 | 2.7 | 81.4 | 38.8 | 14.0 | 2.4 | | | | | | | | | 49 |
| 7 | 104.3 | 29.6 | 17.9 | 4.0 | 98.3 | 32.0 | 16.9 | 3.6 | 92.1 | 35.0 | 15.8 | 3.2 | 88.2 | 37.0 | 15.1 | 2.9 | 84.3 | 39.2 | 14.4 | 2.6 | | | | | | | | | 48 |
| 8 | 107.9 | 30.0 | 18.5 | 4.3 | 101.7 | 32.5 | 17.4 | 3.8 | 95.3 | 35.4 | 16.3 | 3.4 | 91.3 | 37.4 | 15.7 | 3.1 | 87.3 | 39.7 | 15.0 | 2.8 | | | | | | | | | 48 |
| 9 | 111.5 | 30.4 | 19.1 | 4.6 | 105.1 | 32.9 | 18.0 | 4.1 | 98.5 | 35.9 | 16.9 | 3.6 | 94.5 | 37.9 | 16.2 | 3.3 | 90.3 | 40.1 | 15.5 | 3.0 | | | | | | | | | 47 |
| 10 | 115.2 | 30.8 | 19.7 | 4.9 | 108.6 | 33.3 | 18.6 | 4.4 | 101.9 | 36.3 | 17.5 | 3.9 | 97.7 | 38.4 | 16.7 | 3.6 | 93.4 | 40.6 | 16.0 | 3.3 | | | | | | | | | 47 |

Model: ACW10110SSLN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | |
|-----|--------------------------|------|------|-----|-------|------|------|-----|-------|------|------|-----|-------|------|------|-----|-------|------|------|-----|----|---|-----|----|-----|----|---|-----|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd |
| 5 | 109.0 | 32.5 | 18.7 | 4.4 | 102.3 | 35.4 | 17.5 | 3.9 | 95.4 | 38.6 | 16.3 | 3.4 | 91.1 | 40.8 | 15.6 | 3.1 | 86.9 | 43.1 | 14.9 | 2.8 | | | | | | | | | 47 |
| 6 | 112.6 | 32.9 | 19.3 | 4.7 | 105.7 | 35.8 | 18.1 | 4.2 | 98.6 | 39.1 | 16.9 | 3.6 | 94.3 | 41.3 | 16.2 | 3.3 | 89.9 | 43.6 | 15.4 | 3.0 | | | | | | | | | 47 |
| 7 | 116.2 | 33.3 | 19.9 | 5.0 | 109.2 | 36.3 | 18.7 | 4.4 | 101.9 | 39.6 | 17.5 | 3.9 | 97.5 | 41.8 | 16.7 | 3.5 | 93.0 | 44.1 | 15.9 | 3.2 | | | | | | | | | 47 |
| 8 | 120.0 | 33.8 | 20.6 | 5.3 | 112.8 | 36.8 | 19.3 | 4.7 | 105.4 | 40.1 | 18.1 | 4.1 | 100.8 | 42.3 | 17.3 | 3.8 | 96.2 | 44.6 | 16.5 | 3.5 | | | | | | | | | 46 |
| 9 | 124.0 | 34.3 | 21.2 | 5.6 | 116.5 | 37.3 | 20.0 | 5.0 | 108.9 | 40.6 | 18.7 | 4.4 | 104.2 | 42.8 | 17.9 | 4.0 | 99.5 | 45.2 | 17.1 | 3.7 | | | | | | | | | 46 |
| 10 | 127.9 | 34.7 | 21.9 | 6.0 | 120.3 | 37.8 | 20.6 | 5.3 | 112.5 | 41.2 | 19.3 | 4.7 | 107.7 | 43.4 | 18.5 | 4.3 | 106.3 | 45.2 | 18.2 | 4.2 | | | | | | | | | 45 |

Model: ACW10125SSLN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | |
|-----|--------------------------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|----|---|-----|----|-----|----|---|-----|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd |
| 5 | 127.3 | 39.8 | 21.8 | 13.2 | 118.8 | 43.6 | 20.4 | 11.7 | 110.0 | 47.8 | 18.9 | 10.1 | 104.6 | 50.6 | 17.9 | 9.1 | 99.2 | 53.5 | 17.0 | 8.2 | | | | | | | | | 46 |
| 6 | 131.7 | 40.4 | 22.6 | 14.1 | 122.9 | 44.3 | 21.1 | 12.4 | 113.9 | 48.5 | 19.5 | 10.7 | 108.3 | 51.3 | 18.6 | 9.8 | 102.7 | 54.2 | 17.6 | 8.8 | | | | | | | | | 46 |
| 7 | 136.1 | 41.1 | 23.3 | 15.0 | 127.1 | 44.9 | 21.8 | 13.2 | 117.8 | 49.2 | 20.2 | 11.5 | 112.1 | 52.0 | 19.2 | 10.4 | 111.0 | 53.6 | 19.0 | 10.2 | | | | | | | | | 45 |
| 8 | 140.5 | 41.8 | 24.1 | 15.8 | 131.3 | 45.7 | 22.5 | 14.0 | 121.7 | 50.0 | 20.9 | 12.2 | 115.9 | 52.8 | 19.9 | 11.1 | 115.0 | 54.3 | 19.7 | 10.9 | | | | | | | | | 45 |
| 9 | 145.1 | 42.4 | 24.9 | 16.8 | 135.6 | 46.4 | 23.2 | 14.9 | 125.8 | 50.7 | 21.6 | 13.0 | 119.8 | 53.5 | 20.5 | 11.8 | 119.0 | 55.0 | 20.4 | 11.7 | | | | | | | | | 44 |
| 10 | 149.7 | 43.2 | 25.7 | 17.7 | 139.9 | 47.1 | 24.0 | 15.7 | 129.9 | 51.5 | 22.3 | 13.7 | 123.7 | 54.4 | 21.2 | 12.6 | 123.2 | 55.8 | 21.1 | 12.5 | | | | | | | | | 44 |

Model: ACW10150SSLN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | |
|-----|--------------------------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|----|---|-----|----|-----|----|---|-----|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd |
| 5 | 147.8 | 43.8 | 25.3 | 17.3 | 138.5 | 47.9 | 23.7 | 15.4 | 128.8 | 52.5 | 22.1 | 13.5 | 122.8 | 55.5 | 21.0 | 12.4 | 116.6 | 58.7 | 20.0 | 11.3 | | | | | | | | | 49 |
| 6 | 153.1 | 44.4 | 26.2 | 18.4 | 143.5 | 48.6 | 24.6 | 16.4 | 133.4 | 53.2 | 22.9 | 14.4 | 127.2 | 56.2 | 21.8 | 13.2 | 121.0 | 59.4 | 20.7 | 12.0 | | | | | | | | | 49 |
| 7 | 158.4 | 45.1 | 27.2 | 19.6 | 148.5 | 49.2 | 25.5 | 17.5 | 138.2 | 53.9 | 23.7 | 15.4 | 131.8 | 56.9 | 22.6 | 14.1 | 125.4 | 60.1 | 21.5 | 12.9 | | | | | | | | | 48 |
| 8 | 163.8 | 45.7 | 28.1 | 20.8 | 153.6 | 49.9 | 26.3 | 18.6 | 143.0 | 54.6 | 24.5 | 16.4 | 136.5 | 57.6 | 23.4 | 15.0 | 129.9 | 60.8 | 22.3 | 13.7 | | | | | | | | | 48 |
| 9 | 169.3 | 46.4 | 29.0 | 22.0 | 158.9 | 50.6 | 27.2 | 19.7 | 148.0 | 55.3 | 25.4 | 17.4 | 141.3 | 58.4 | 24.2 | 16.0 | 134.5 | 61.6 | 23.1 | 14.6 | | | | | | | | | 47 |
| 10 | 175.0 | 47.1 | 30.0 | 23.3 | 164.2 | 51.3 | 28.2 | 20.9 | 153.0 | 56.1 | 26.2 | 18.4 | 146.2 | 59.2 | 25.1 | 17.0 | 139.2 | 62.4 | 23.9 | 15.6 | | | | | | | | | 47 |

Model: ACW10180MELN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | |
|-----|--------------------------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|----|---|-----|----|-----|----|---|-----|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd |
| 5 | 178.3 | 56.0 | 30.6 | 21.8 | 167.7 | 61.7 | 28.8 | 19.5 | 156.7 | 68.1 | 26.9 | 17.2 | 150.0 | 72.5 | 25.7 | 15.8 | 147.8 | 75.5 | 25.3 | 15.4 | | | | | | | | | 45 |
| 6 | 184.3 | 56.9 | 31.6 | 23.2 | 173.5 | 62.6 | 29.7 | 20.8 | 162.3 | 69.2 | 27.8 | 18.3 | 155.3 | 73.5 | 26.6 | 16.9 | 153.3 | 76.5 | 26.3 | 16.5 | | | | | | | | | 45 |
| 7 | 190.5 | 57.8 | 32.7 | 24.7 | 179.4 | 63.6 | 30.8 | 22.1 | 167.9 | 70.2 | 28.8 | 19.5 | 160.8 | 74.6 | 27. | | | | | | | | | | | | | | |

Low Noise, Medium and Standard Ambient Temperature, 1-Compressor Units

Model: ACW10210SSLN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | |
|-----|--------------------------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|----|---|-----|----|-----|----|---|-----|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd |
| 5 | 207.0 | 61.5 | 35.5 | 28.8 | 195.4 | 67.5 | 33.5 | 25.9 | 183.3 | 74.4 | 31.4 | 23.0 | 175.8 | 79.0 | 30.1 | 21.3 | 168.1 | 84.1 | 28.8 | 19.6 | | | | | | | | | 48 |
| 6 | 214.2 | 62.3 | 36.7 | 30.7 | 202.3 | 68.4 | 34.7 | 27.6 | 189.9 | 75.4 | 32.5 | 24.5 | 182.2 | 80.1 | 31.2 | 22.7 | 174.3 | 85.2 | 29.9 | 20.9 | | | | | | | | | 48 |
| 7 | 221.6 | 63.2 | 38.0 | 32.6 | 209.4 | 69.4 | 35.9 | 29.4 | 196.7 | 76.5 | 33.7 | 26.2 | 188.8 | 81.2 | 32.4 | 24.3 | 180.7 | 86.3 | 31.0 | 22.4 | | | | | | | | | 47 |
| 8 | 229.0 | 64.1 | 39.3 | 34.7 | 216.5 | 70.3 | 37.1 | 31.3 | 203.5 | 77.5 | 34.9 | 27.9 | 195.4 | 82.3 | 33.5 | 25.9 | 187.2 | 87.5 | 32.1 | 23.9 | | | | | | | | | 47 |
| 9 | 236.7 | 65.0 | 40.6 | 36.8 | 223.8 | 71.3 | 38.4 | 33.2 | 210.5 | 78.6 | 36.1 | 29.7 | 202.2 | 83.4 | 34.7 | 27.6 | 193.8 | 88.7 | 33.2 | 25.5 | | | | | | | | | 46 |
| 10 | 244.4 | 66.0 | 41.9 | 39.0 | 231.3 | 72.4 | 39.7 | 35.3 | 217.6 | 79.7 | 37.3 | 31.6 | 209.2 | 84.6 | 35.9 | 29.3 | 200.6 | 89.9 | 34.4 | 27.2 | | | | | | | | | 46 |

Model: ACW10240MSLN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | |
|-----|--------------------------|------|------|------|-------|------|------|------|-------|------|------|------|-------|-------|------|------|-------|-------|------|------|----|---|-----|----|-----|----|---|-----|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd |
| 5 | 237.9 | 72.3 | 40.8 | 23.8 | 223.1 | 79.6 | 38.2 | 21.2 | 207.9 | 87.8 | 35.6 | 18.5 | 198.7 | 93.3 | 34.1 | 17.0 | 195.6 | 97.5 | 33.5 | 16.5 | | | | | | | | | 45 |
| 6 | 245.8 | 73.4 | 42.1 | 25.3 | 230.6 | 80.7 | 39.5 | 22.5 | 215.0 | 89.1 | 36.9 | 19.7 | 205.4 | 94.7 | 35.2 | 18.1 | 202.5 | 98.7 | 34.7 | 17.6 | | | | | | | | | 45 |
| 7 | 253.9 | 74.6 | 43.5 | 26.9 | 238.3 | 81.9 | 40.8 | 23.9 | 222.1 | 90.4 | 38.1 | 21.0 | 212.3 | 96.0 | 36.4 | 19.3 | 209.6 | 99.9 | 35.9 | 18.8 | | | | | | | | | 45 |
| 8 | 262.0 | 75.7 | 44.9 | 28.5 | 245.9 | 83.2 | 42.2 | 25.3 | 229.3 | 91.7 | 39.3 | 22.3 | 219.2 | 97.4 | 37.6 | 20.5 | 216.7 | 101.2 | 37.2 | 20.0 | | | | | | | | | 44 |
| 9 | 270.2 | 76.9 | 46.3 | 30.1 | 253.7 | 84.4 | 43.5 | 26.8 | 236.6 | 93.1 | 40.6 | 23.6 | 226.2 | 98.8 | 38.8 | 21.7 | 224.0 | 102.5 | 38.4 | 21.3 | | | | | | | | | 44 |
| 10 | 278.6 | 78.1 | 47.8 | 31.8 | 261.6 | 85.7 | 44.8 | 28.4 | 244.0 | 94.5 | 41.8 | 25.0 | 233.3 | 100.3 | 40.0 | 23.0 | 231.4 | 103.8 | 39.7 | 22.6 | | | | | | | | | 43 |

Model: ACW10270MSLN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | |
|-----|--------------------------|------|------|------|-------|------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|----|---|-----|----|-----|----|---|-----|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd |
| 5 | 269.9 | 81.8 | 46.3 | 13.4 | 253.5 | 90.1 | 43.5 | 11.9 | 236.6 | 99.5 | 40.6 | 10.5 | 226.2 | 105.8 | 38.8 | 9.6 | 224.2 | 109.0 | 38.4 | 9.5 | | | | | | | | | 45 |
| 6 | 278.7 | 83.1 | 47.8 | 14.2 | 261.9 | 91.5 | 44.9 | 12.7 | 244.5 | 101.0 | 41.9 | 11.1 | 233.8 | 107.3 | 40.1 | 10.3 | 232.2 | 110.4 | 39.8 | 10.1 | | | | | | | | | 45 |
| 7 | 287.7 | 84.5 | 49.3 | 15.1 | 270.4 | 92.9 | 46.4 | 13.4 | 252.6 | 102.6 | 43.3 | 11.8 | 241.6 | 109.0 | 41.4 | 10.9 | 240.3 | 111.9 | 41.2 | 10.8 | | | | | | | | | 44 |
| 8 | 296.9 | 85.8 | 50.9 | 16.0 | 279.1 | 94.4 | 47.8 | 14.3 | 260.8 | 104.2 | 44.7 | 12.6 | 249.6 | 110.7 | 42.8 | 11.6 | 248.7 | 113.4 | 42.6 | 11.5 | | | | | | | | | 44 |
| 9 | 306.1 | 87.2 | 52.5 | 16.9 | 287.9 | 95.9 | 49.4 | 15.1 | 269.1 | 105.8 | 46.1 | 13.3 | 257.6 | 112.4 | 44.2 | 12.3 | 257.1 | 114.9 | 44.1 | 12.2 | | | | | | | | | 43 |
| 10 | 315.5 | 88.7 | 54.1 | 17.9 | 296.8 | 97.5 | 50.9 | 16.0 | 277.6 | 107.5 | 47.6 | 14.1 | 265.7 | 114.1 | 45.6 | 13.0 | 265.8 | 116.5 | 45.6 | 13.0 | | | | | | | | | 43 |

Model: ACW10305MELN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | |
|-----|--------------------------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|----|---|-----|----|-----|----|---|-----|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd |
| 5 | 302.4 | 93.2 | 51.8 | 16.5 | 284.1 | 102.6 | 48.7 | 14.7 | 265.2 | 113.4 | 45.5 | 13.0 | 253.6 | 120.5 | 43.5 | 11.9 | 250.0 | 125.6 | 42.9 | 11.6 | | | | | | | | | 45 |
| 6 | 312.4 | 94.7 | 53.5 | 17.5 | 293.6 | 104.2 | 50.3 | 15.6 | 274.2 | 115.0 | 47.0 | 13.8 | 262.3 | 122.3 | 45.0 | 12.7 | 258.9 | 127.2 | 44.4 | 12.4 | | | | | | | | | 45 |
| 7 | 322.5 | 96.1 | 55.3 | 18.6 | 303.2 | 105.7 | 52.0 | 16.6 | 283.3 | 116.7 | 48.6 | 14.6 | 271.1 | 124.1 | 46.5 | 13.5 | 268.0 | 128.8 | 45.9 | 13.2 | | | | | | | | | 45 |
| 8 | 332.8 | 97.6 | 57.0 | 19.7 | 313.0 | 107.4 | 53.7 | 17.6 | 292.6 | 118.5 | 50.2 | 15.5 | 280.0 | 125.9 | 48.0 | 14.3 | 277.2 | 130.5 | 47.5 | 14.1 | | | | | | | | | 44 |
| 9 | 343.2 | 99.2 | 58.8 | 20.9 | 322.9 | 109.0 | 55.4 | 18.6 | 302.0 | 120.3 | 51.8 | 16.5 | 289.1 | 127.8 | 49.6 | 15.2 | 286.7 | 132.2 | 49.1 | 15.0 | | | | | | | | | 44 |
| 10 | 353.9 | 100.7 | 60.7 | 22.1 | 333.0 | 110.7 | 57.1 | 19.7 | 311.5 | 122.2 | 53.4 | 17.5 | 298.3 | 129.7 | 51.1 | 16.1 | 296.3 | 134.0 | 50.8 | 15.9 | | | | | | | | | 43 |

• Q: Cooling Capacity in kW
 • P: Total Power Absorbed in kW
 • WFR: Water Flow Rate in m3/hr.
 • Pd: Water Pressure Drop in kPa
 • CWT: Chilled Water Temperature in °C (ΔT = 5°C)
 • MAT: Maximum Ambient Temperature in °C
 • NOTES:

- I. Data on grey background: unit switched to non-silenced operation
- II. Waterflow and pressure drop on heat exchangers calculated with 5°C of delta T
- III. Interpolation between rating is permissible but extrapolation is not.
- IV. When the external air temperature is higher than the "MAT" the chiller doesn't stop but the "unloading" system capacity control is activated.

Low Noise, Medium and Standard Ambient Temperature, 2-Compressor Units

Model: ACW20200SHLN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | |
|-----|--------------------------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|----|---|-----|----|-----|----|---|-----|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd |
| 5 | 198.8 | 58.0 | 34.1 | 17.0 | 187.1 | 62.9 | 32.1 | 15.1 | 174.9 | 68.7 | 30.0 | 13.2 | 167.3 | 72.6 | 28.7 | 12.1 | 159.7 | 77.1 | 27.4 | 11.0 | | | | | | | | | 49 |
| 6 | 205.7 | 58.8 | 35.3 | 18.1 | 193.6 | 63.7 | 33.2 | 16.1 | 181.1 | 69.5 | 31.0 | 14.2 | 173.4 | 73.5 | 29.7 | 13.0 | 165.5 | 78.0 | 28.4 | 11.9 | | | | | | | | | 48 |
| 7 | 212.7 | 59.6 | 36.5 | 19.3 | 200.3 | 64.5 | 34.3 | 17.2 | 187.4 | 70.4 | 32.1 | 15.2 | 179.5 | 74.4 | 30.8 | 13.9 | 171.4 | 78.9 | 29.4 | 12.7 | | | | | | | | | 48 |
| 8 | 219.8 | 60.4 | 37.7 | 20.6 | 207.0 | 65.4 | 35.5 | 18.4 | 193.8 | 71.3 | 33.2 | 16.2 | 185.7 | 75.3 | 31.8 | 14.9 | 177.4 | 79.8 | 30.4 | 13.6 | | | | | | | | | 48 |
| 9 | 226.9 | 61.2 | 38.9 | 21.8 | 213.9 | 66.2 | 36.7 | 19.5 | 200.3 | 72.2 | 34.3 | 17.2 | 192.0 | 76.2 | 32.9 | 15.9 | 183.5 | 80.7 | 31.5 | 14.5 | | | | | | | | | 47 |
| 10 | 234.3 | 62.1 | 40.2 | 23.2 | 220.8 | 67.1 | 37.9 | 20.8 | 207.0 | 73.1 | 35.5 | 18.3 | 198.4 | 77.2 | 34.0 | 16.9 | 189.7 | 81.7 | 32.5 | 15.5 | | | | | | | | | 47 |

Model: ACW20225SSLN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | |
|-----|--------------------------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|----|---|-----|----|-----|----|---|-----|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd |
| 5 | 222.1 | 65.5 | 38.1 | 21.0 | 208.3 | 71.3 | 35.7 | 18.6 | 194.1 | 77.8 | 33.3 | 16.2 | 185.4 | 82.0 | 31.8 | 14.8 | 176.6 | 86.6 | 30.3 | 13.5 | | | | | | | | | 47 |
| 6 | 229.5 | 66.3 | 39.3 | 22.3 | 215.4 | 72.2 | 36.9 | 19.8 | 200.8 | 78.7 | 34.4 | 17.3 | 191.9 | 83.0 | 32.9 | 15.9 | 182.9 | 87.6 | 31.4 | 14.5 | | | | | | | | | 47 |
| 7 | 237.1 | 67.2 | 40.6 | 23.7 | 222.6 | 73.1 | 38.2 | 21.1 | 207.7 | 79.7 | 35.6 | 18.5 | 198.6 | 84.1 | 34.0 | 16.9 | 189.4 | 88.7 | 32.5 | 15.5 | | | | | | | | | 46 |
| 8 | 244.7 | 68.1 | 42.0 | 25.1 | 229.9 | 74.1 | 39.4 | 22.4 | 214.6 | 80.8 | 36.8 | 19.7 | 205.2 | 85.1 | 35.2 | 18.1 | 195.8 | 89.8 | 33.6 | 16.5 | | | | | | | | | 46 |
| 9 | 252.5 | 69.1 | 43.3 | 26.6 | 237.3 | 75.1 | 40.7 | 23.7 | 221.6 | 81.8 | 38.0 | 20.9 | 212.0 | 86.2 | 36.4 | 19.2 | 209.0 | 90.0 | 35.8 | 18.7 | | | | | | | | | 45 |
| 10 | 260.4 | 70.0 | 44.6 | 28.1 | 244.8 | 76.1 | 42.0 | 25.1 | 228.7 | 82.9 | 39.2 | 22.2 | 219.0 | 87.3 | 37.5 | 20.4 | 216.2 | 91.0 | 37.1 | 19.9 | | | | | | | | | 45 |

Model: ACW20245MELN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | |
|-----|--------------------------|------|------|------|-------|------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|----|---|-----|----|-----|----|---|-----|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd |
| 5 | 244.5 | 81.4 | 41.9 | 25.1 | 227.9 | 89.2 | 39.1 | 22.0 | 210.6 | 98.0 | 36.1 | 19.0 | 200.1 | 103.6 | 34.3 | 17.2 | 197.1 | 107.6 | 33.8 | 16.7 | | | | | | | | | 45 |
| 6 | 252.7 | 82.7 | 43.3 | 26.6 | 235.6 | 90.6 | 40.4 | 23.4 | 217.9 | 99.4 | 37.4 | 20.2 | 207.0 | 105.1 | 35.5 | 18.4 | 204.3 | 109.0 | 35.0 | 17.9 | | | | | | | | | 45 |
| 7 | 261.1 | 84.0 | 44.8 | 28.3 | 243.5 | 92.0 | 41.7 | 24.9 | 225.3 | 100.9 | 38.6 | 21.5 | 214.1 | 106.6 | 36.7 | 19.6 | 211.6 | 110.3 | 36.3 | 19.1 | | | | | | | | | 44 |
| 8 | 269.4 | 85.4 | 46.2 | 29.9 | 251.3 | 93.4 | 43.1 | 26.4 | 232.7 | 102.4 | 39.9 | 22.9 | | | | | | | | | | | | | | | | | |

Low Noise, Medium and Standard Ambient Temperature, 2-Compressor Units

Model: ACW20365SSLN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | | | | | | |
|-----|--------------------------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|----|---|-----|----|-----|----|---|-----|----|--|--|--|--|--|--|--|--|--|--|--|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | | | | | | | | | | | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd | | | | | | | | | | | | |
| 5 | 363.7 | 108.7 | 62.3 | 29.5 | 343.0 | 119.6 | 58.8 | 26.5 | 321.4 | 132.0 | 55.1 | 23.5 | 308.1 | 140.3 | 52.8 | 21.7 | 294.5 | 149.3 | 50.5 | 20.0 | | | | | | | | | | | | | | | | | | | | | 47 |
| 6 | 376.1 | 110.4 | 64.5 | 31.3 | 354.9 | 121.3 | 60.8 | 28.2 | 332.8 | 133.9 | 57.1 | 25.0 | 319.2 | 142.3 | 54.7 | 23.2 | 305.2 | 151.4 | 52.3 | 21.4 | | | | | | | | | | | | | | | | | | | | | 47 |
| 7 | 388.8 | 112.0 | 66.6 | 33.3 | 367.1 | 123.1 | 62.9 | 30.0 | 344.5 | 135.9 | 59.1 | 26.7 | 330.5 | 144.4 | 56.7 | 24.7 | 316.2 | 153.6 | 54.2 | 22.8 | | | | | | | | | | | | | | | | | | | | | 46 |
| 8 | 401.7 | 113.7 | 68.9 | 35.4 | 379.5 | 125.0 | 65.0 | 31.8 | 356.3 | 137.9 | 61.1 | 28.4 | 342.0 | 146.5 | 58.6 | 26.3 | 327.4 | 155.8 | 56.1 | 24.3 | | | | | | | | | | | | | | | | | | | | | 46 |
| 9 | 414.8 | 115.5 | 71.1 | 37.5 | 392.1 | 126.9 | 67.2 | 33.8 | 368.4 | 140.0 | 63.1 | 30.2 | 353.7 | 148.7 | 60.6 | 28.0 | 351.0 | 153.4 | 60.2 | 27.6 | | | | | | | | | | | | | | | | | | | | | 45 |
| 10 | 428.2 | 117.3 | 73.4 | 39.8 | 404.9 | 128.9 | 69.4 | 35.9 | 380.6 | 142.1 | 65.2 | 32.0 | 365.6 | 150.9 | 62.7 | 29.8 | 363.4 | 155.4 | 62.3 | 29.4 | | | | | | | | | | | | | | | | | | | | | 45 |

Model: ACW20390MSLN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | | | | | | |
|-----|--------------------------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|----|---|-----|----|-----|----|---|-----|----|---|---|-----|----|--|--|--|--|--|--|--|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | | | | | | | | | | | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd | Q | P | WFR | Pd | | | | | | | | |
| 5 | 385.6 | 117.5 | 66.1 | 32.8 | 363.6 | 129.2 | 62.3 | 29.5 | 340.7 | 142.6 | 58.4 | 26.1 | 326.5 | 151.6 | 56.0 | 24.2 | 320.9 | 159.1 | 55.0 | 23.4 | | | | | | | | | | | | | | | | | | | | | 47 |
| 6 | 398.8 | 119.1 | 68.4 | 34.9 | 376.3 | 131.0 | 64.5 | 31.4 | 352.8 | 144.6 | 60.5 | 27.9 | 338.3 | 153.7 | 58.0 | 25.8 | 332.9 | 161.0 | 57.1 | 25.0 | | | | | | | | | | | | | | | | | | | | | 47 |
| 7 | 412.2 | 120.9 | 70.7 | 37.1 | 389.2 | 132.9 | 66.7 | 33.4 | 365.1 | 146.7 | 62.6 | 29.7 | 350.3 | 155.9 | 60.0 | 27.5 | 345.1 | 163.0 | 59.2 | 26.8 | | | | | | | | | | | | | | | | | | | | | 46 |
| 8 | 425.9 | 122.7 | 73.0 | 39.4 | 402.3 | 134.9 | 69.0 | 35.5 | 377.7 | 148.8 | 64.7 | 31.6 | 362.5 | 158.1 | 62.1 | 29.3 | 357.6 | 165.1 | 61.3 | 28.6 | | | | | | | | | | | | | | | | | | | | | 46 |
| 9 | 439.8 | 124.5 | 75.4 | 41.8 | 415.7 | 136.9 | 71.3 | 37.7 | 390.5 | 151.0 | 66.9 | 33.6 | 374.9 | 160.4 | 64.3 | 31.1 | 370.4 | 167.2 | 63.5 | 30.5 | | | | | | | | | | | | | | | | | | | | | 45 |
| 10 | 454.0 | 126.5 | 77.8 | 44.3 | 429.3 | 139.0 | 73.6 | 40.0 | 403.5 | 153.3 | 69.2 | 35.7 | 387.5 | 162.8 | 66.4 | 33.1 | 383.5 | 169.3 | 65.7 | 32.5 | | | | | | | | | | | | | | | | | | | | | 45 |

Model: ACW20420SSLN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | | | | | | |
|-----|--------------------------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|----|---|-----|----|-----|----|---|-----|----|---|---|-----|----|--|--|--|--|--|--|--|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | | | | | | | | | | | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd | Q | P | WFR | Pd | | | | | | | | |
| 5 | 413.7 | 122.9 | 70.9 | 37.3 | 390.7 | 135.0 | 67.0 | 33.6 | 366.8 | 148.9 | 62.9 | 29.9 | 351.9 | 158.1 | 60.3 | 27.7 | 336.7 | 168.2 | 57.7 | 25.6 | | | | | | | | | | | | | | | | | | | | | 48 |
| 6 | 427.9 | 124.5 | 73.4 | 39.7 | 404.4 | 136.8 | 69.3 | 35.8 | 379.9 | 150.8 | 65.1 | 31.9 | 364.7 | 160.2 | 62.5 | 29.6 | 349.1 | 170.4 | 59.8 | 27.3 | | | | | | | | | | | | | | | | | | | | | 48 |
| 7 | 442.5 | 126.3 | 75.9 | 42.2 | 418.4 | 138.7 | 71.7 | 38.1 | 393.3 | 152.9 | 67.4 | 34.0 | 377.7 | 162.4 | 64.8 | 31.6 | 361.8 | 172.7 | 62.0 | 29.2 | | | | | | | | | | | | | | | | | | | | | 47 |
| 8 | 457.3 | 128.1 | 78.4 | 44.9 | 432.7 | 140.6 | 74.2 | 40.5 | 406.9 | 155.0 | 69.8 | 36.2 | 391.0 | 164.6 | 67.0 | 33.7 | 374.7 | 175.0 | 64.2 | 31.1 | | | | | | | | | | | | | | | | | | | | | 47 |
| 9 | 472.4 | 129.9 | 81.0 | 47.7 | 447.2 | 142.6 | 76.7 | 43.1 | 420.9 | 157.2 | 72.1 | 38.5 | 404.6 | 166.9 | 69.4 | 35.8 | 387.9 | 177.4 | 66.5 | 33.2 | | | | | | | | | | | | | | | | | | | | | 46 |
| 10 | 487.9 | 131.8 | 83.6 | 50.6 | 462.0 | 144.7 | 79.2 | 45.8 | 435.1 | 159.4 | 74.6 | 41.0 | 418.4 | 169.2 | 71.7 | 38.1 | 401.3 | 179.8 | 68.8 | 35.3 | | | | | | | | | | | | | | | | | | | | | 46 |

Model: ACW20470SHLN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | | | | | | |
|-----|--------------------------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|----|---|-----|----|-----|----|---|-----|----|---|---|-----|----|--|--|--|--|--|--|--|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | | | | | | | | | | | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd | Q | P | WFR | Pd | | | | | | | | |
| 5 | 463.7 | 131.4 | 79.5 | 41.2 | 436.9 | 144.1 | 74.9 | 37.0 | 409.1 | 158.8 | 70.1 | 32.8 | 391.9 | 168.5 | 67.2 | 30.3 | 374.6 | 179.1 | 64.2 | 27.9 | | | | | | | | | | | | | | | | | | | | | 47 |
| 6 | 479.9 | 133.3 | 82.3 | 43.9 | 452.4 | 146.2 | 77.5 | 39.4 | 423.7 | 161.0 | 72.6 | 35.0 | 406.1 | 170.9 | 69.6 | 32.4 | 388.2 | 181.5 | 66.6 | 29.8 | | | | | | | | | | | | | | | | | | | | | 47 |
| 7 | 496.4 | 135.3 | 85.1 | 46.7 | 468.1 | 148.3 | 80.3 | 41.9 | 438.7 | 163.3 | 75.2 | 37.2 | 420.6 | 173.3 | 72.1 | 34.5 | 402.2 | 184.0 | 69.0 | 31.8 | | | | | | | | | | | | | | | | | | | | | 46 |
| 8 | 512.5 | 137.2 | 87.9 | 49.5 | 483.5 | 150.4 | 82.9 | 44.5 | 453.4 | 165.6 | 77.7 | 39.5 | 434.8 | 175.6 | 74.5 | 36.6 | 416.0 | 186.5 | 71.3 | 33.8 | | | | | | | | | | | | | | | | | | | | | 46 |
| 9 | 528.9 | 139.2 | 90.7 | 52.4 | 499.2 | 152.6 | 85.6 | 47.1 | 468.3 | 167.9 | 80.3 | 41.9 | 449.2 | 178.1 | 77.0 | 38.9 | 444.3 | 184.8 | 76.2 | 38.1 | | | | | | | | | | | | | | | | | | | | | 45 |
| 10 | 545.6 | 141.3 | 93.5 | 55.5 | 515.1 | 154.8 | 88.3 | 49.9 | 483.4 | 170.3 | 82.9 | 44.5 | 463.9 | 180.6 | 79.5 | 41.2 | 459.5 | 187.1 | 78.8 | 40.5 | | | | | | | | | | | | | | | | | | | | | 45 |

Model: ACW20485MSLN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | | | | | | |
|-----|--------------------------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|----|---|-----|----|-----|----|---|-----|----|---|---|-----|----|--|--|--|--|--|--|--|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | | | | | | | | | | | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd | Q | P | WFR | Pd | | | | | | | | |
| 5 | 482.3 | 145.6 | 82.7 | 44.3 | 452.5 | 160.1 | 77.6 | 39.4 | 421.8 | 176.7 | 72.3 | 34.7 | 403.0 | 187.8 | 69.1 | 31.9 | 397.0 | 195.9 | 68.1 | 31.0 | | | | | | | | | | | | | | | | | | | | | 45 |
| 6 | 498.6 | 147.8 | 85.5 | 47.0 | 467.9 | 162.5 | 80.2 | 41.9 | 436.2 | 179.3 | 74.8 | 36.9 | 416.9 | 190.5 | 71.5 | 33.9 | 411.2 | 198.4 | 70.5 | 33.1 | | | | | | | | | | | | | | | | | | | | | 45 |
| 7 | 515.1 | 150.2 | 88.3 | 49.9 | 483.6 | 165.0 | 82.9 | 44.5 | 450.9 | 182.0 | 77.3 | 39.2 | 431.0 | 193.3 | 73.9 | 36.1 | 425.8 | 201.0 | 73.0 | 35.3 | | | | | | | | | | | | | | | | | | | | | 45 |
| 8 | 531.2 | 152.4 | 91.1 | 52.8 | 498.8 | 167.5 | 85.5 | 47.1 | 465.2 | 184.7 | 79.8 | 41.5 | 444.8 | 196.1 | 76.2 | 38.2 | 440.0 | 203.5 | 75.4 | 37.4 | | | | | | | | | | | | | | | | | | | | | 44 |
| 9 | 547.5 | 154.8 | 93.9 | 55.8 | 514.2 | 170.0 | 88.2 | 49.8 | 479.8 | 187.4 | 82.2 | 43.8 | 458.7 | 198.9 | 78.6 | 40.4 | 454.5 | 206.1 | 77.9 | 39.7 | | | | | | | | | | | | | | | | | | | | | 44 |
| 10 | 564.1 | 157.2 | 96.7 | 59.0 | 529.9 | 172.6 | 90.8 | 52.6 | 494.5 | 190.2 | 84.8 | 46.3 | 472.9 | 201.8 | 81.1 | 42.7 | 469.2 | 208.7 | 80.4 | 42.1 | | | | | | | | | | | | | | | | | | | | | 43 |

• Q: Cooling Capacity in kW
 • P: Total Power Absorbed in kW
 • WFR: Water Flow Rate in m³/hr.
 • Pd: Water Pressure Drop in kPa
 • CWT: Chilled Water Temperature in °C (ΔT = 5°C)
 • MAT: Maximum Ambient Temperature in °C
 • NOTES:
 I. Data on grey background: unit switched to non-silenced operation
 II. Waterflow and pressure drop on heat exchangers calculated with 5°C of delta T
 III. Interpolation between rating is permissible but extrapolation is not.
 IV. When the external air temperature is higher than the "MAT" the chiller doesn't stop but the "unloading" system capacity control is activated.

Low Noise, Medium and Standard Ambient Temperature, 2-Compressor Units

Model: ACW20550SSLN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | | | | | | |
|-----|--------------------------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|----|---|-----|----|-----|----|---|-----|----|---|---|-----|----|--|--|--|--|--|--|--|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | | | | | | | | | | | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd | Q | P | WFR | Pd | | | | | | | | |
| 5 | 546.3 | 159.5 | 93.7 | 41.6 | 514.6 | 175.2 | 88.2 | 37.3 | 481.6 | 193.1 | 82.6 | 33.1 | 461.3 | 205.1 | 79.1 | 30.6 | 440.6 | 218.0 | 75.5 | 28.2 | | | | | | | | | | | | | | | | | | | | | 47 |
| 6 | 564.7 | 161.8 | 96.8 | 44.2 | 532.1 | 177.6 | 91.2 | 39.7 | 498.3 | 195.7 | 85.4 | 35.2 | 477.4 | 207.8 | 81.8 | 32.6 | 456.2 | 220.9 | 78.2 | 30.0 | | | | | | | | | | | | | | | | | | | | | |

Low Noise, Medium and Standard Ambient Temperature, 1-Compressor Units

| Model: ACW10100HHLN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--------------------------|------|------|-----|-------|------|------|-----|-------|------|------|-----|------|------|------|-----|------|------|------|-----|------|------|------|-----|----|----|---|-----|----|---|---|-----|----|
| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | | |
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | | 50 | | | | 52 | | | | | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd |
| 5 | 99.2 | 28.2 | 17.0 | 3.7 | 93.5 | 30.5 | 16.0 | 3.3 | 87.6 | 33.3 | 15.0 | 2.9 | 84.0 | 35.2 | 14.4 | 2.6 | 80.3 | 37.3 | 13.8 | 2.4 | 77.0 | 40.2 | 13.2 | 2.2 | | | | | | | | | 49 |
| 6 | 102.6 | 28.5 | 17.6 | 3.9 | 96.8 | 30.9 | 16.6 | 3.5 | 90.7 | 33.7 | 15.6 | 3.1 | 87.0 | 35.6 | 14.9 | 2.8 | 83.2 | 37.7 | 14.3 | 2.6 | 79.9 | 40.6 | 13.7 | 2.4 | | | | | | | | | 49 |
| 7 | 106.0 | 28.9 | 18.2 | 4.2 | 100.1 | 31.3 | 17.2 | 3.7 | 93.9 | 34.1 | 16.1 | 3.3 | 90.0 | 36.0 | 15.4 | 3.0 | 86.1 | 38.1 | 14.8 | 2.8 | 82.9 | 41.0 | 14.2 | 2.5 | | | | | | | | | 49 |
| 8 | 109.7 | 29.3 | 18.8 | 4.5 | 103.5 | 31.7 | 17.7 | 4.0 | 97.2 | 34.5 | 16.7 | 3.5 | 93.2 | 36.4 | 16.0 | 3.2 | 89.2 | 38.5 | 15.3 | 3.0 | 86.0 | 41.3 | 14.7 | 2.7 | | | | | | | | | 49 |
| 9 | 113.4 | 29.7 | 19.4 | 4.7 | 107.1 | 32.1 | 18.4 | 4.3 | 100.5 | 34.9 | 17.2 | 3.8 | 96.5 | 36.8 | 16.5 | 3.5 | 92.4 | 39.0 | 15.8 | 3.2 | 89.2 | 41.8 | 15.3 | 3.0 | | | | | | | | | 49 |
| 10 | 117.2 | 30.1 | 20.1 | 5.1 | 110.7 | 32.5 | 19.0 | 4.5 | 104.0 | 35.3 | 17.8 | 4.0 | 99.8 | 37.3 | 17.1 | 3.7 | 95.6 | 39.4 | 16.4 | 3.4 | 92.4 | 42.2 | 15.8 | 3.2 | | | | | | | | | 48 |

| Model: ACW10110SHLN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--------------------------|------|------|-----|-------|------|------|-----|-------|------|------|-----|-------|------|------|-----|-------|------|------|-----|------|------|------|-----|----|----|---|-----|----|---|---|-----|----|----|---|
| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | | | | |
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | | 50 | | | | 52 | | | | | | | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P |
| 5 | 111.0 | 31.7 | 19.0 | 4.6 | 104.3 | 34.5 | 17.9 | 4.0 | 97.5 | 37.6 | 16.7 | 3.5 | 93.2 | 39.7 | 16.0 | 3.2 | 89.0 | 41.9 | 15.3 | 2.9 | 85.7 | 44.7 | 14.7 | 2.7 | | | | | | | | | 49 | | |
| 6 | 114.7 | 32.1 | 19.7 | 4.9 | 107.8 | 34.9 | 18.5 | 4.3 | 100.8 | 38.1 | 17.3 | 3.8 | 96.5 | 40.1 | 16.5 | 3.5 | 92.1 | 42.4 | 15.8 | 3.2 | 88.8 | 45.1 | 15.2 | 2.9 | | | | | | | | | | 48 | |
| 7 | 118.4 | 32.5 | 20.3 | 5.2 | 111.4 | 35.3 | 19.1 | 4.6 | 104.2 | 38.5 | 17.9 | 4.0 | 99.8 | 40.6 | 17.1 | 3.7 | 95.3 | 42.9 | 16.3 | 3.4 | 92.1 | 45.5 | 15.8 | 3.2 | | | | | | | | | | 48 | |
| 8 | 122.4 | 32.9 | 21.0 | 5.5 | 115.2 | 35.8 | 19.7 | 4.9 | 107.8 | 39.0 | 18.5 | 4.3 | 103.3 | 41.1 | 17.7 | 4.0 | 98.7 | 43.4 | 16.9 | 3.6 | 95.5 | 46.0 | 16.4 | 3.4 | | | | | | | | | | 48 | |
| 9 | 126.4 | 33.4 | 21.7 | 5.8 | 119.0 | 36.3 | 20.4 | 5.2 | 111.5 | 39.5 | 19.1 | 4.6 | 106.8 | 41.6 | 18.3 | 4.2 | 102.1 | 43.9 | 17.5 | 3.9 | 99.0 | 46.5 | 17.0 | 3.6 | | | | | | | | | | 47 | |
| 10 | 130.5 | 33.8 | 22.4 | 6.2 | 123.0 | 36.7 | 21.1 | 5.5 | 115.2 | 40.0 | 19.7 | 4.9 | 110.4 | 42.2 | 18.9 | 4.5 | 105.6 | 44.4 | 18.1 | 4.1 | | | | | | | | | | | | | | 47 | |

| Model: ACW10135HHLN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--------------------------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|----|---|---|-----|----|---|---|
| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | | | | |
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | | 50 | | | | 52 | | | | | | | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P |
| 5 | 135.1 | 37.2 | 23.2 | 14.8 | 126.9 | 40.5 | 21.7 | 13.2 | 118.2 | 44.3 | 20.3 | 11.5 | 112.9 | 46.8 | 19.4 | 10.6 | 107.5 | 49.4 | 18.4 | 9.6 | 100.1 | 53.2 | 17.2 | 8.4 | 98.7 | 55.5 | 16.9 | 8.1 | | | | | 51 | | |
| 6 | 140.0 | 37.6 | 24.0 | 15.7 | 131.5 | 41.0 | 22.5 | 14.1 | 122.7 | 44.8 | 21.0 | 12.4 | 117.2 | 47.3 | 20.1 | 11.4 | 111.6 | 50.0 | 19.1 | 10.3 | 104.0 | 53.8 | 17.8 | 9.0 | 102.7 | 56.1 | 17.6 | 8.8 | | | | | 51 | | |
| 7 | 145.0 | 38.1 | 24.9 | 16.8 | 136.3 | 41.6 | 23.4 | 15.0 | 127.2 | 45.4 | 21.8 | 13.2 | 121.6 | 47.9 | 20.8 | 12.2 | 115.8 | 50.5 | 19.9 | 11.1 | 108.0 | 54.4 | 18.5 | 9.7 | 106.7 | 56.6 | 18.3 | 9.5 | | | | | 51 | | |
| 8 | 150.2 | 38.7 | 25.7 | 17.8 | 141.2 | 42.1 | 24.2 | 16.0 | 131.8 | 45.9 | 22.6 | 14.1 | 126.1 | 48.5 | 21.6 | 13.0 | 120.1 | 51.1 | 20.6 | 11.9 | 112.1 | 55.0 | 19.2 | 10.4 | 110.9 | 57.2 | 19.0 | 10.2 | | | | | 51 | | |
| 9 | 155.4 | 39.2 | 26.6 | 18.9 | 146.2 | 42.6 | 25.1 | 17.0 | 136.6 | 46.5 | 23.4 | 15.1 | 130.6 | 49.0 | 22.4 | 13.9 | 124.6 | 51.7 | 21.4 | 12.7 | 116.3 | 55.6 | 19.9 | 11.2 | 115.2 | 57.7 | 19.7 | 11.0 | | | | | 50 | | |
| 10 | 160.8 | 39.7 | 27.6 | 20.1 | 151.3 | 43.2 | 25.9 | 18.1 | 141.4 | 47.1 | 24.2 | 16.0 | 135.3 | 49.7 | 23.2 | 14.8 | 129.1 | 52.4 | 22.1 | 13.6 | 120.6 | 56.2 | 20.7 | 12.0 | 119.6 | 58.3 | 20.5 | 11.8 | | | | | 50 | | |

| Model: ACW10150HHLN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--------------------------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|----|----|---|-----|----|---|---|-----|----|---|---|
| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | | | | |
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | | 50 | | | | 52 | | | | | | | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P |
| 5 | 150.4 | 42.7 | 25.8 | 17.9 | 141.1 | 46.7 | 24.2 | 16.0 | 131.4 | 51.1 | 22.5 | 14.0 | 125.5 | 54.0 | 21.5 | 12.9 | 119.4 | 57.1 | 20.5 | 11.8 | 114.2 | 61.4 | 19.6 | 10.8 | | | | | | | | | 49 | | |
| 6 | 155.7 | 43.3 | 26.7 | 19.0 | 146.2 | 47.3 | 25.1 | 17.0 | 136.3 | 51.8 | 23.4 | 15.0 | 130.1 | 54.7 | 22.3 | 13.8 | 123.9 | 57.8 | 21.2 | 12.6 | 118.7 | 62.0 | 20.3 | 11.6 | | | | | | | | | 49 | | |
| 7 | 161.2 | 43.9 | 27.6 | 20.2 | 151.4 | 47.9 | 26.0 | 18.1 | 141.2 | 52.4 | 24.2 | 16.0 | 134.9 | 55.4 | 23.1 | 14.7 | 128.4 | 58.5 | 22.0 | 13.5 | 123.3 | 62.7 | 21.1 | 12.5 | | | | | | | | | 49 | | |
| 8 | 166.8 | 44.5 | 28.6 | 21.4 | 156.7 | 48.6 | 26.9 | 19.2 | 146.2 | 53.1 | 25.1 | 17.0 | 139.7 | 56.1 | 24.0 | 15.7 | 133.1 | 59.2 | 22.8 | 14.4 | 127.9 | 63.3 | 21.9 | 13.4 | | | | | | | | | 49 | | |
| 9 | 172.5 | 45.2 | 29.6 | 22.7 | 162.1 | 49.3 | 27.8 | 20.4 | 151.3 | 53.8 | 25.9 | 18.1 | 144.7 | 56.8 | 24.8 | 16.7 | 137.9 | 60.0 | 23.6 | 15.3 | 132.7 | 64.0 | 22.8 | 14.3 | | | | | | | | | 49 | | |
| 10 | 178.3 | 45.8 | 30.6 | 24.1 | 167.7 | 50.0 | 28.7 | 21.6 | 156.6 | 54.6 | 26.8 | 19.2 | 149.7 | 57.6 | 25.7 | 17.7 | 142.7 | 60.7 | 24.5 | 16.3 | 137.6 | 64.7 | 23.6 | 15.3 | | | | | | | | | 48 | | |

| Model: ACW10190SHLN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--------------------------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|----|----|---|-----|----|---|---|-----|----|---|---|
| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | | | | |
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | | 50 | | | | 52 | | | | | | | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P |
| 5 | 185.6 | 53.0 | 31.8 | 23.5 | 175.3 | 58.0 | 30.1 | 21.2 | 164.6 | 63.8 | 28.2 | 18.8 | 158.0 | 67.7 | 27.1 | 17.4 | 151.2 | 71.9 | 25.9 | 16.1 | 145.1 | 78.0 | 24.9 | 14.9 | | | | | | | | | 49 | | |
| 6 | 192.1 | 53.7 | 32.9 | 25.1 | 181.6 | 58.8 | 31.1 | 22.6 | 170.7 | 64.6 | 29.3 | 20.1 | 163.9 | 68.5 | 28.1 | 18.7 | 157.0 | 72.8 | 26.9 | 17.2 | 150.8 | 78.8 | 25.9 | 16.0 | | | | | | | | | 49 | | |
| 7 | 198.9 | 54.4 | 34.1 | 26.7 | 188.1 | 59.5 | 32.3 | 24.1 | 176.9 | 65.4 | 30.3 | 21.5 | 170.0 | 69.4 | 29.1 | 20.0 | 162.9 | 73.7 | 27.9 | 18.4 | 156.7 | 79.7 | 26.9 | 17.2 | | | | | | | | | 49 | | |
| 8 | 205.8 | 55.1 | 35.3 | 28.5 | 194.7 | 60.3 | 33.4 | 25.7 | 183.2 | 66.3 | 31.4 | 23.0 | 176.1 | 70.3 | 30.2 | 21.3 | 168.9 | 74.6 | 28.9 | 19.7 | 162.7 | 80.6 | 27.9 | 18.4 | | | | | | | | | 49 | | |
| 9 | 212.8 | 55.9 | 36.5 | 30.3 | 201.5 | 61.1 | 34.5 | 27.4 | 189.7 | 67.1 | 32.5 | 24.5 | 182.4 | 71.2 | 31.3 | 22.8 | 175.0 | 75.5 | 30.0 | 21.1 | 168.9 | 81.4 | 28.9 | 19.7 | | | | | | | | | 48 | | |
| 10 | 219.9 | 56.6 | 37.7 | 32.2 | 208.3 | 61.9 | 35.7 | 29.1 | 196.3 | 68.0 | 33.6 | 26.1 | 188.8 | 72.1 | 32.4 | 24.3 | 181.2 | 76.5 | 31.1 | 22.5 | 175.1 | 82.3 | 30.0 | 21.1 | | | | | | | | | 48 | | |

- Q: Cooling Capacity in kW
- P: Total Power Absorbed in kW
- WFR: Water Flow Rate in m³/hr.
- Pd: Water Pressure Drop in kPa
- CWT: Chilled Water Temperature in °C (ΔT = 5°C)
- MAT: Maximum Ambient Temperature in °C
- NOTES:
 - Data on grey background: unit switched to non-silenced operation
 - Waterflow and pressure drop on heat exchangers calculated with 5°C of delta T
 - Interpolation between rating is permissible but extrapolation is not.
 - When the external air temperature is higher than the "MAT" the chiller doesn't stop but the "unloading" system capacity control is activated.

Low Noise, Medium and Standard Ambient Temperature, 1-Compressor Units

| Model: ACW10215SHLN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--------------------------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|----|----|---|-----|----|---|---|-----|----|---|---|
| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | | | | |
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | | 50 | | | | 52 | | | | | | | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P |
| 5 | 210.3 | 59.8 | 36.0 | 29.6 | 198.8 | 65.6 | 34.1 | 26.7 | 186.8 | 72.3 | 32.0 | 23.8 | 179.4 | 76.7 | 30.7 | 22.1 | 171.8 | 81.5 | 29.4 | 20.4 | 165.6 | 87.5 | 28.4 | 19.0 | | | | | | | | | 49 | | |
| 6 | 217.7 | 60.6 | 37.3 | 31.6 | 205.9 | 66.5 | 35.3 | 28.5 | 193.6 | 73.2 | 33.2 | 25.4 | 186.0 | 77.7 | 31.9 | 23.6 | 178.2 | 82.6 | 30.5 | 21.8 | 172.0 | 88.4 | 29.5 | 20.4 | | | | | | | | | 49 | | |
| 7 | 225.2 | 61.5 | 38.6 | 33.6 | 213.2 | 67.4 | 36.5 | 30.4 | 200.6 | 74.2 | 34.4 | 27.2 | 192.8 | 78.7 | 33.0 | 25.2 | 184.8 | 83.7 | 31.7 | 23.3 | 178.7 | 89.4 | 30.6 | 21.9 | | | | | | | | | 49 | | |
| 8 | 232.9 | 62.3 | 39.9 | 35.7 | 220.5 | 68.3 | 37.8 | 32.3 | 207.6 | 75.2 | 35.6 | 28.9 | 199.6 | 79.8 | 34.2 | 26.9 | 191.5 | 84.7 | 32.8 | 24.9 | 185.4 | 90.4 | 31.8 | 23.5 | | | | | | | | | 48 | | |
| 9 | 240.7 | 63.2 | 41.3 | 37.9 | 228.0 | 69.3 | 39.1 | 34.4 | 214.8 | 76.2 | 36.8 | 30.8 | 206.7 | 80. | | | | | | | | | | | | | | | | | | | | | |

Low Noise, Medium and Standard Ambient Temperature, 2-Compressor Units

Model: ACW20205HHLN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | | | | | | | | |
|-----|--------------------------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|----|--|----|---|-----|----|--|----|---|-----|----|----|---|---|-----|
| | 30 | | | | | 35 | | | | | 40 | | | | | 43 | | | | | | 46 | | | | | 50 | | | | | 52 | | | | | | | |
| | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR |
| 5 | 202.0 | 56.8 | 34.6 | 17.5 | 190.3 | 61.4 | 32.6 | 15.6 | 178.2 | 66.9 | 30.6 | 13.7 | 170.8 | 70.7 | 29.3 | 12.6 | 163.1 | 74.9 | 28.0 | 11.5 | 156.6 | 80.7 | 26.8 | 10.6 | | | | | | | | | | | | 49 | | | |
| 6 | 209.0 | 57.5 | 35.8 | 18.7 | 197.1 | 62.2 | 33.8 | 16.7 | 184.6 | 67.7 | 31.7 | 14.7 | 177.0 | 71.5 | 30.3 | 13.5 | 169.1 | 75.7 | 29.0 | 12.4 | 162.6 | 81.5 | 27.9 | 11.4 | | | | | | | | | | | | 49 | | | |
| 7 | 216.2 | 58.3 | 37.1 | 19.9 | 203.9 | 63.0 | 35.0 | 17.8 | 191.2 | 68.5 | 32.8 | 15.8 | 183.3 | 72.4 | 31.4 | 14.5 | 175.3 | 76.6 | 30.0 | 13.3 | 168.7 | 82.3 | 28.9 | 12.3 | | | | | | | | | | | | 49 | | | |
| 8 | 223.5 | 59.0 | 38.3 | 21.2 | 210.9 | 63.8 | 36.1 | 19.0 | 197.8 | 69.4 | 33.9 | 16.8 | 189.7 | 73.2 | 32.5 | 15.5 | 181.5 | 77.5 | 31.1 | 14.2 | 174.9 | 83.1 | 30.0 | 13.2 | | | | | | | | | | | | 49 | | | |
| 9 | 230.9 | 59.8 | 39.6 | 22.6 | 217.9 | 64.6 | 37.4 | 20.2 | 204.5 | 70.2 | 35.1 | 17.9 | 196.2 | 74.1 | 33.6 | 16.6 | 187.8 | 78.4 | 32.2 | 15.2 | 181.3 | 83.9 | 31.1 | 14.2 | | | | | | | | | | | | 49 | | | |
| 10 | 238.5 | 60.6 | 40.9 | 23.9 | 225.1 | 65.5 | 38.6 | 21.5 | 211.3 | 71.1 | 36.2 | 19.1 | 202.8 | 75.0 | 34.8 | 17.7 | 194.2 | 79.3 | 33.3 | 16.2 | 187.8 | 84.7 | 32.2 | 15.2 | | | | | | | | | | | | 48 | | | |

Model: ACW20225SHLN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | | | | | | | | |
|-----|--------------------------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|----|--|----|---|-----|----|--|----|---|-----|----|----|---|---|-----|
| | 30 | | | | | 35 | | | | | 40 | | | | | 43 | | | | | | 46 | | | | | 50 | | | | | 52 | | | | | | | |
| | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR |
| 5 | 226.2 | 63.8 | 38.8 | 21.7 | 212.5 | 69.4 | 36.4 | 19.3 | 198.4 | 75.7 | 34.0 | 16.9 | 189.8 | 79.8 | 32.5 | 15.5 | 181.0 | 84.2 | 31.0 | 14.2 | 174.4 | 89.8 | 29.9 | 13.2 | | | | | | | | | | | | 49 | | | |
| 6 | 233.9 | 64.6 | 40.1 | 23.1 | 219.9 | 70.3 | 37.7 | 20.6 | 205.4 | 76.6 | 35.2 | 18.1 | 196.5 | 80.8 | 33.7 | 16.6 | 187.5 | 85.2 | 32.1 | 15.2 | 180.9 | 90.7 | 31.0 | 14.1 | | | | | | | | | | | | 48 | | | |
| 7 | 241.7 | 65.5 | 41.4 | 24.6 | 227.3 | 71.2 | 39.0 | 21.9 | 212.5 | 77.6 | 36.4 | 19.3 | 203.4 | 81.8 | 34.9 | 17.7 | 194.2 | 86.2 | 33.3 | 16.2 | 187.7 | 91.6 | 32.2 | 15.2 | | | | | | | | | | | 48 | | | | |
| 8 | 249.6 | 66.4 | 42.8 | 26.1 | 234.8 | 72.1 | 40.3 | 23.3 | 219.6 | 78.6 | 37.6 | 20.5 | 210.3 | 82.8 | 36.1 | 18.9 | 200.9 | 87.3 | 34.4 | 17.3 | 194.5 | 92.5 | 33.3 | 16.3 | | | | | | | | | | | 47 | | | | |
| 9 | 257.7 | 67.2 | 44.2 | 27.6 | 242.5 | 73.1 | 41.6 | 24.7 | 226.9 | 79.6 | 38.9 | 21.8 | 217.4 | 83.8 | 37.3 | 20.1 | 207.7 | 88.3 | 35.6 | 18.5 | | | | | | | | | | | | | | | | 47 | | | |
| 10 | 265.8 | 68.2 | 45.6 | 29.2 | 250.3 | 74.0 | 42.9 | 26.2 | 234.3 | 80.6 | 40.2 | 23.2 | 224.6 | 84.9 | 38.5 | 21.4 | 214.7 | 89.4 | 36.8 | 19.7 | | | | | | | | | | | | | | | | 46 | | | |

Model: ACW20250HHLN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | | | | | | | | |
|-----|--------------------------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|-------|------|------|----|--|----|---|-----|----|--|----|---|-----|----|----|---|---|-----|
| | 30 | | | | | 35 | | | | | 40 | | | | | 43 | | | | | | 46 | | | | | 50 | | | | | 52 | | | | | | | |
| | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR |
| 5 | 247.2 | 69.0 | 42.4 | 25.6 | 232.5 | 75.1 | 39.9 | 22.8 | 217.0 | 81.9 | 37.2 | 20.1 | 207.5 | 86.3 | 35.6 | 18.4 | 197.8 | 91.1 | 33.9 | 16.8 | 192.7 | 108.5 | 33.0 | 14.7 | | | | | | | | | | | | 51 | | | |
| 6 | 256.1 | 69.8 | 43.9 | 27.3 | 240.9 | 75.9 | 41.3 | 24.4 | 225.0 | 82.8 | 38.6 | 21.5 | 215.3 | 87.3 | 36.9 | 19.8 | 205.3 | 92.1 | 35.2 | 18.1 | 200.2 | 109.7 | 34.3 | 15.9 | | | | | | | | | | | | 50 | | | |
| 7 | 265.1 | 70.7 | 45.4 | 29.1 | 249.5 | 76.8 | 42.8 | 26.0 | 233.2 | 83.7 | 40.0 | 23.0 | 223.2 | 88.3 | 38.3 | 21.2 | 212.9 | 93.1 | 36.5 | 19.4 | 207.8 | 110.9 | 35.6 | 17.0 | | | | | | | | | | | | 50 | | | |
| 8 | 274.2 | 71.5 | 47.0 | 30.9 | 258.2 | 77.8 | 44.3 | 27.7 | 241.5 | 84.7 | 41.4 | 24.5 | 231.2 | 89.2 | 39.6 | 22.6 | 220.7 | 94.1 | 37.8 | 20.7 | 211.0 | 102.3 | 36.2 | 19.0 | | | | | | | | | | | | 49 | | | |
| 9 | 283.6 | 72.4 | 48.6 | 32.9 | 267.1 | 78.7 | 45.8 | 29.5 | 249.9 | 85.7 | 42.8 | 26.1 | 239.3 | 90.2 | 41.0 | 24.1 | 228.6 | 95.1 | 39.2 | 22.1 | 218.8 | 103.2 | 37.5 | 20.4 | | | | | | | | | | | | 49 | | | |
| 10 | 293.1 | 73.4 | 50.3 | 34.9 | 276.2 | 79.7 | 47.3 | 31.3 | 258.6 | 86.7 | 44.3 | 27.8 | 247.7 | 91.3 | 42.5 | 25.7 | 236.6 | 96.2 | 40.6 | 23.6 | 226.8 | 104.2 | 38.9 | 21.8 | | | | | | | | | | | | 49 | | | |

Model: ACW20260HHLN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | | | | | | | | |
|-----|--------------------------|------|------|------|-------|------|------|------|-------|------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|----|--|----|---|-----|----|--|----|---|-----|----|----|---|---|-----|
| | 30 | | | | | 35 | | | | | 40 | | | | | 43 | | | | | | 46 | | | | | 50 | | | | | 52 | | | | | | | |
| | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR |
| 5 | 261.0 | 75.5 | 44.7 | 28.3 | 244.9 | 82.5 | 42.0 | 25.2 | 228.1 | 90.2 | 39.1 | 22.0 | 217.7 | 95.3 | 37.3 | 20.2 | 207.1 | 100.8 | 35.5 | 18.4 | 197.2 | 109.5 | 33.8 | 16.7 | | | | | | | | | | | | 49 | | | |
| 6 | 270.4 | 76.5 | 46.4 | 30.1 | 253.9 | 83.5 | 43.5 | 26.9 | 236.6 | 91.3 | 40.6 | 23.6 | 225.9 | 96.4 | 38.7 | 21.6 | 215.0 | 101.9 | 36.9 | 19.7 | 205.0 | 110.6 | 35.1 | 18.0 | | | | | | | | | | | | 49 | | | |
| 7 | 280.0 | 77.5 | 48.0 | 32.1 | 263.0 | 84.5 | 45.1 | 28.7 | 245.2 | 92.4 | 42.0 | 25.2 | 234.2 | 97.6 | 40.2 | 23.2 | 223.0 | 103.1 | 38.2 | 21.1 | 212.9 | 111.7 | 36.5 | 19.4 | | | | | | | | | | | | 49 | | | |
| 8 | 289.7 | 78.5 | 49.7 | 34.2 | 272.2 | 85.6 | 46.7 | 30.5 | 254.0 | 93.6 | 43.5 | 26.9 | 242.7 | 98.7 | 41.6 | 24.7 | 231.1 | 104.3 | 39.6 | 22.6 | 221.0 | 112.8 | 37.9 | 20.8 | | | | | | | | | | | | 49 | | | |
| 9 | 299.7 | 79.6 | 51.4 | 36.3 | 281.7 | 86.8 | 48.3 | 32.5 | 262.9 | 94.7 | 45.1 | 28.6 | 251.3 | 100.0 | 43.1 | 26.4 | 239.4 | 105.5 | 41.0 | 24.1 | 229.2 | 114.0 | 39.3 | 22.2 | | | | | | | | | | | | 49 | | | |
| 10 | 309.8 | 80.7 | 53.1 | 38.6 | 291.3 | 87.9 | 49.9 | 34.5 | 272.0 | 96.0 | 46.6 | 30.5 | 260.1 | 101.2 | 44.6 | 28.1 | 247.9 | 106.8 | 42.5 | 25.7 | 237.7 | 115.1 | 40.7 | 23.8 | | | | | | | | | | | | 49 | | | |

Model: ACW20295SHLN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | | | | | | | | |
|-----|--------------------------|------|------|------|-------|------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|----|--|----|---|-----|----|--|----|---|-----|----|----|---|---|-----|
| | 30 | | | | | 35 | | | | | 40 | | | | | 43 | | | | | | 46 | | | | | 50 | | | | | 52 | | | | | | | |
| | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR |
| 5 | 291.2 | 80.5 | 49.9 | 15.4 | 273.2 | 87.8 | 46.8 | 13.7 | 254.4 | 96.1 | 43.6 | 12.0 | 242.8 | 101.4 | 41.6 | 11.0 | 231.0 | 107.1 | 39.6 | 10.0 | 220.6 | 115.6 | 37.8 | 9.2 | | | | | | | | | | | | 49 | | | |
| 6 | 301.7 | 81.6 | 51.7 | 16.4 | 283.2 | 89.0 | 48.5 | 14.6 | 263.8 | 97.3 | 45.2 | 12.8 | 251.9 | 102.7 | 43.2 | 11.8 | 239.7 | 108.4 | 41.1 | 10.7 | 229.3 | 116.7 | 39.3 | 9.9 | | | | | | | | | | | | 49 | | | |
| 7 | 312.3 | 82.7 | 53.5 | 17.5 | 293.3 | 90.2 | 50.3 | 15.6 | 273.5 | 98.5 | 46.9 | 13.7 | 261.2 | 103.9 | 44.8 | 12.6 | 248.7 | 109.7 | 42.6 | 11.5 | 238.2 | 117.9 | 40.8 | 10.6 | | | | | | | | | | | | 49 | | | |
| 8 | 323.3 | 83.9 | 55.4 | 18.7 | 303.7 | 91.4 | 52.1 | 16.7 | 283.3 | 99.8 | 48.6 | 14.6 | 270.6 | 105.2 | 46.4 | 13.5 | 257.8 | 111.0 | 44.2 | 12.3 | 247.3 | 119.1 | 42.4 | 11.4 | | | | | | | | | | | | 49 | | | |
| 9 | 334.4 | 85.1 | 57.3 | 19.9 | 314.3 | 92.6 | 53.9 | 17.7 | 293.3 | 101.1 | 50.3 | 15.6 | 280.3 | 106.6 | 48.1 | 14.4 | 267.1 | 112.4 | 45.8 | 13.1 | 256.7 | 120.4 | 44.0 | 12.2 | | | | | | | | | | | | 48 | | | |
| 10 | 345.8 | 86.3 | 59.3 | 21.1 | 325.1 | 93.9 | 55.7 | 18.9 | 303.5 | 102.4 | 52.0 | 16.6 | 290.2 | 108.0 | 49.7 | 15.3 | 276.7 | 113.9 | 47.4 | 14.0 | 266.3 | 121.7 | 45.6 | 13.1 | | | | | | | | | | | | 48 | | | |

- Q: Cooling Capacity in kW
- P: Total Power Absorbed in kW
- WFR: Water Flow Rate in m³/hr.
- Pd: Water Pressure Drop in kPa
- CWT: Chilled Water Temperature in °C (ΔT = 5°C)
- MAT: Maximum Ambient Temperature in °C
- NOTES:
 - Data on grey background: unit switched to non-silenced operation
 - Waterflow and pressure drop on heat exchangers calculated with 5°C of delta T
 - Interpolation between rating is permissible but extrapolation is not.
 - When the external air temperature is higher than the "MAT" the chiller doesn't stop but the "unloading" system capacity control is activated.

Low Noise, Medium and Standard Ambient Temperature, 2-Compressor Units

Model: ACW20310SHLN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | | | | | | | | | | | |
|-----|--------------------------|------|------|------|-------|------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|----|--|----|---|-----|----|--|----|---|-----|----|--|---|---|-----|
| | 30 | | | | | 35 | | | | | 40 | | | | | 43 | | | | | | 46 | | | | | 50 | | | | | 52 | | | | | | | |
| | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR | Pd | | Q | P | WFR |
| 5 | 306.9 | 86.1 | 52.6 | 17.0 | 287.9 | 94.1 | 49.4 | 15.1 | 268.0 | 103.0 | 45.9 | 13.2 | 255.7 | 108.8 | 43.8 | 12.1 | 243.2 | 114.9 | 41.7 | 11.0 | 232.7 | 123.4 | 39.9 | 10.2 | | | | | | | | | | | 49 | | | | |
| 6 | 317.8 | 87.3 | 54.5 | 18.1 | 298.2 | 95.3 | 51.1 | 16.1 | 277.8 | 104.3 | 47.6 | 14.1 | 265.2 | 110.1 | 45.5 | 13.0 | 252.3 | 116.3 | 43.3 | 11.8 | 241.8 | 124.7 | 41.5 | 10.9 | | | | | | | | | | | 49 | | | | |
| 7 | 329.0 | 88.5 | 56.4 | 19.3 | 308.8 | 96.6 | 52.9 | 17.2 | 287.8 | 105.6 | 49.3 | 15.1 | 274.8 | 111.5 | 47.1 | 13.8 | 261.6 | 117.7 | 44.8 | 12.6 | 251.1 | 126.0 | 43.0 | 11.7 | | | | | | | | | | | 49 | | | | |
| 8 | 340.3 | 89.8 | 58.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Low Noise, Medium and Standard Ambient Temperature, 2-Compressor Units

Model: ACW20480SPLN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | |
|-----|--------------------------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-----|----|---|-----|----|---|---|-----|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | | | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd | Q | P | WFR | Pd |
| 5 | 471.5 | 128.5 | 80.8 | 42.5 | 445.1 | 140.7 | 76.3 | 38.2 | 417.4 | 154.7 | 71.6 | 34.0 | 400.3 | 164.1 | 68.6 | 31.5 | 382.9 | 174.2 | 65.6 | 29.1 | 368.5 | 187.3 | 63.2 | 27.1 | | | | | | | | | 49 |
| 6 | 488.3 | 130.3 | 83.7 | 45.3 | 461.1 | 142.6 | 79.1 | 40.8 | 432.7 | 156.7 | 74.2 | 36.3 | 415.1 | 166.2 | 71.2 | 33.7 | 397.2 | 176.4 | 68.1 | 31.1 | 382.9 | 189.3 | 65.6 | 29.0 | | | | | | | | | 49 |
| 7 | 505.5 | 132.1 | 86.7 | 48.2 | 477.6 | 144.5 | 81.9 | 43.5 | 448.3 | 158.8 | 76.9 | 38.8 | 430.3 | 168.4 | 73.8 | 36.0 | 411.9 | 178.7 | 70.6 | 33.2 | 397.6 | 191.4 | 68.2 | 31.1 | | | | | | | | | 48 |
| 8 | 522.2 | 133.9 | 89.5 | 51.2 | 493.6 | 146.5 | 84.6 | 46.2 | 463.7 | 160.9 | 79.5 | 41.2 | 445.2 | 170.5 | 76.3 | 38.3 | 426.3 | 181.0 | 73.1 | 35.3 | 412.1 | 193.5 | 70.6 | 33.2 | | | | | | | | | 48 |
| 9 | 539.3 | 135.7 | 92.5 | 54.3 | 510.0 | 148.4 | 87.4 | 49.0 | 479.3 | 163.0 | 82.2 | 43.8 | 460.3 | 172.7 | 78.9 | 40.7 | 441.0 | 183.3 | 75.6 | 37.6 | 426.9 | 195.6 | 73.2 | 35.4 | | | | | | | | | 48 |
| 10 | 556.8 | 137.6 | 95.4 | 57.6 | 526.7 | 150.4 | 90.3 | 52.0 | 495.2 | 165.2 | 84.9 | 46.5 | 475.8 | 175.0 | 81.6 | 43.2 | 456.0 | 185.6 | 78.2 | 40.0 | 442.0 | 197.8 | 75.8 | 37.8 | | | | | | | | | 47 |

Model: ACW20505SHLN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | |
|-----|--------------------------|-------|-------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-----|----|---|-----|----|---|---|-----|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | | | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd | Q | P | WFR | Pd |
| 5 | 499.3 | 139.2 | 85.6 | 47.2 | 470.2 | 152.5 | 80.6 | 42.3 | 439.8 | 167.7 | 75.4 | 37.4 | 421.2 | 177.8 | 72.2 | 34.6 | 402.3 | 188.8 | 69.0 | 31.8 | 386.3 | 204.2 | 66.2 | 29.5 | | | | | | | | | 49 |
| 6 | 516.8 | 141.1 | 88.6 | 50.2 | 486.9 | 154.5 | 83.5 | 45.0 | 455.6 | 169.9 | 78.1 | 39.9 | 436.3 | 180.1 | 74.8 | 36.9 | 416.9 | 191.2 | 71.5 | 33.9 | 400.8 | 206.4 | 68.7 | 31.6 | | | | | | | | | 49 |
| 7 | 534.8 | 143.0 | 91.7 | 53.5 | 504.0 | 156.6 | 86.4 | 48.0 | 471.7 | 172.1 | 80.9 | 42.5 | 451.9 | 182.5 | 77.5 | 39.3 | 431.8 | 193.6 | 74.0 | 36.2 | 415.6 | 208.6 | 71.3 | 33.7 | | | | | | | | | 48 |
| 8 | 552.2 | 145.0 | 94.7 | 56.7 | 520.6 | 158.7 | 89.2 | 50.9 | 487.5 | 174.3 | 83.6 | 45.1 | 467.1 | 184.8 | 80.1 | 41.8 | 446.5 | 196.0 | 76.5 | 38.5 | 430.2 | 210.9 | 73.8 | 35.9 | | | | | | | | | 48 |
| 9 | 570.0 | 146.9 | 97.7 | 60.1 | 537.5 | 160.8 | 92.1 | 54.0 | 503.5 | 176.6 | 86.3 | 47.9 | 482.6 | 187.1 | 82.7 | 44.3 | 461.4 | 198.5 | 79.1 | 40.8 | | | | | | | | | | | | | 47 |
| 10 | 588.1 | 149.0 | 100.8 | 63.7 | 554.7 | 162.9 | 95.1 | 57.2 | 519.8 | 178.9 | 89.1 | 50.8 | 498.3 | 189.5 | 85.4 | 47.0 | 476.5 | 201.0 | 81.7 | 43.3 | | | | | | | | | | | | | 47 |

Model: ACW20565SHLN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | |
|-----|--------------------------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-----|----|---|-----|----|---|---|-----|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | | | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd | Q | P | WFR | Pd |
| 5 | 559.3 | 154.8 | 95.9 | 43.4 | 528.1 | 169.4 | 90.5 | 39.1 | 495.5 | 186.1 | 84.9 | 34.8 | 475.4 | 197.3 | 81.5 | 32.3 | 454.9 | 209.5 | 78.0 | 29.8 | 436.3 | 227.6 | 74.8 | 27.7 | | | | | | | | | 49 |
| 6 | 578.6 | 156.7 | 99.2 | 46.2 | 546.6 | 171.5 | 93.7 | 41.6 | 513.2 | 188.4 | 88.0 | 37.1 | 492.5 | 199.7 | 84.4 | 34.5 | 471.5 | 212.0 | 80.8 | 31.8 | 452.8 | 230.0 | 77.6 | 29.6 | | | | | | | | | 49 |
| 7 | 598.4 | 158.8 | 102.6 | 49.1 | 565.5 | 173.7 | 96.9 | 44.3 | 531.2 | 190.7 | 91.1 | 39.5 | 510.0 | 202.2 | 87.4 | 36.7 | 488.4 | 214.5 | 83.7 | 34.0 | 469.7 | 232.4 | 80.5 | 31.6 | | | | | | | | | 49 |
| 8 | 618.4 | 160.9 | 106.0 | 52.2 | 584.7 | 175.9 | 100.2 | 47.1 | 549.5 | 193.1 | 94.2 | 42.1 | 527.8 | 204.7 | 90.5 | 39.1 | 505.7 | 217.1 | 86.7 | 36.2 | 486.9 | 234.8 | 83.5 | 33.8 | | | | | | | | | 49 |
| 9 | 638.9 | 163.0 | 109.5 | 55.4 | 604.3 | 178.2 | 103.6 | 50.0 | 568.3 | 195.6 | 97.4 | 44.7 | 546.0 | 207.2 | 93.6 | 41.6 | 523.4 | 219.8 | 89.7 | 38.5 | 504.6 | 237.3 | 86.5 | 36.0 | | | | | | | | | 48 |
| 10 | 659.9 | 165.2 | 113.1 | 58.7 | 624.4 | 180.5 | 107.0 | 53.1 | 587.4 | 198.1 | 100.7 | 47.5 | 564.6 | 209.9 | 96.8 | 44.2 | 541.4 | 222.6 | 92.8 | 40.9 | 522.6 | 239.9 | 89.6 | 38.4 | | | | | | | | | 48 |

Model: ACW20635SHLN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | |
|-----|--------------------------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-----|----|---|-----|----|---|---|-----|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | | | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd | Q | P | WFR | Pd |
| 5 | 626.2 | 174.0 | 107.3 | 53.4 | 591.8 | 190.7 | 101.5 | 48.1 | 555.9 | 209.9 | 95.3 | 43.0 | 533.7 | 222.8 | 91.5 | 39.9 | 511.0 | 236.7 | 87.6 | 36.9 | 492.3 | 254.4 | 84.4 | 34.4 | | | | | | | | | 49 |
| 6 | 647.5 | 176.3 | 111.0 | 56.7 | 612.3 | 193.2 | 105.0 | 51.2 | 575.5 | 212.6 | 98.7 | 45.7 | 552.7 | 225.6 | 94.8 | 42.5 | 529.4 | 239.6 | 90.8 | 39.3 | 510.7 | 257.1 | 87.6 | 36.8 | | | | | | | | | 49 |
| 7 | 669.3 | 178.6 | 114.7 | 60.3 | 633.2 | 195.7 | 108.5 | 54.5 | 595.5 | 215.3 | 102.1 | 48.7 | 572.1 | 228.4 | 98.1 | 45.3 | 548.2 | 242.6 | 94.0 | 41.9 | 529.6 | 259.8 | 90.8 | 39.3 | | | | | | | | | 49 |
| 8 | 691.5 | 181.0 | 118.5 | 64.0 | 654.4 | 198.3 | 112.2 | 57.8 | 615.7 | 218.1 | 105.6 | 51.7 | 591.8 | 231.3 | 101.5 | 48.1 | 567.3 | 245.6 | 97.3 | 44.6 | 548.9 | 262.6 | 94.1 | 42.0 | | | | | | | | | 49 |
| 9 | 714.1 | 183.5 | 122.4 | 67.9 | 676.1 | 200.9 | 115.9 | 61.4 | 636.5 | 221.0 | 109.1 | 55.0 | 611.9 | 234.3 | 104.9 | 51.2 | 586.9 | 248.8 | 100.6 | 47.4 | 568.6 | 265.5 | 97.5 | 44.7 | | | | | | | | | 48 |
| 10 | 737.1 | 186.0 | 126.4 | 72.0 | 698.2 | 203.7 | 119.7 | 65.1 | 657.6 | 223.9 | 112.7 | 58.3 | 632.4 | 237.4 | 108.4 | 54.3 | 606.8 | 252.0 | 104.0 | 50.4 | 588.7 | 268.4 | 100.9 | 47.7 | | | | | | | | | 48 |

Model: ACW20705SHLN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | |
|-----|--------------------------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-----|----|---|-----|----|---|---|-----|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | | | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd | Q | P | WFR | Pd |
| 5 | 698.4 | 190.7 | 119.7 | 53.2 | 658.5 | 208.6 | 112.9 | 47.8 | 616.8 | 228.9 | 105.7 | 42.4 | 590.9 | 242.2 | 101.3 | 39.2 | 564.5 | 256.5 | 96.8 | 36.1 | 543.2 | 274.8 | 93.1 | 33.6 | | | | | | | | | 49 |
| 6 | 722.0 | 193.1 | 123.8 | 56.5 | 681.1 | 211.2 | 116.8 | 50.8 | 638.4 | 231.7 | 109.4 | 45.1 | 611.9 | 245.1 | 104.9 | 41.8 | 584.8 | 259.4 | 100.3 | 38.5 | 563.5 | 277.5 | 96.6 | 36.0 | | | | | | | | | 49 |
| 7 | 746.1 | 195.5 | 127.9 | 60.0 | 704.2 | 213.8 | 120.7 | 54.0 | 660.4 | 234.5 | 113.2 | 48.0 | 633.2 | 248.0 | 108.5 | 44.5 | 605.5 | 262.4 | 103.8 | 41.0 | 584.3 | 280.2 | 100.2 | 38.4 | | | | | | | | | 49 |
| 8 | 771.0 | 198.1 | 132.2 | 63.8 | 728.1 | 216.6 | 124.8 | 57.4 | 683.1 | 237.4 | 117.1 | 51.1 | 655.2 | 251.0 | 112.3 | 47.3 | 626.8 | 265.5 | 107.5 | 43.7 | 605.8 | 283.0 | 103.8 | 41.0 | | | | | | | | | 48 |
| 9 | 796.4 | 200.7 | 136.5 | 67.7 | 752.3 | 219.3 | 129.0 | 61.0 | 706.2 | 240.3 | 121.1 | 54.3 | 677.7 | 254.1 | 116.2 | 50.4 | 648.6 | 268.7 | 111.2 | 46.5 | 627.8 | 285.9 | 107.6 | 43.8 | | | | | | | | | 48 |
| 10 | 822.3 | 203.4 | 141.0 | 71.7 | 777.1 | 222.2 | 133.2 | 64.7 | 729.9 | 243.3 | 125.1 | 57.7 | 700.6 | 257.2 | 120.1 | 53.5 | 670.8 | 271.9 | 115.0 | 49.4 | 650.3 | 288.8 | 111.5 | 46.7 | | | | | | | | | 47 |

- Q: Cooling Capacity in kW
- P: Total Power Absorbed in kW
- WFR: Water Flow Rate in m³/hr.
- Pd: Water Pressure Drop in kPa
- CWT: Chilled Water Temperature in °C (ΔT = 5°C)
- MAT: Maximum Ambient Temperature in °C
- NOTES:

- Data on grey background: unit switched to non-silenced operation
- Waterflow and pressure drop on heat exchangers calculated with 5°C of delta T
- Interpolation between rating is permissible but extrapolation is not.
- When the external air temperature is higher than the "MAT" the chiller doesn't stop but the "unloading" system capacity control is activated.

Low Noise, Medium and Standard Ambient Temperature, 2-Compressor Units

Model: ACW20755SHLN

| CWT | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | MAT | | | | | | | | |
|-----|--------------------------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-----|----|---|-----|----|---|---|-----|----|
| | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | | 52 | | | | | | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | Q | P | WFR | Pd | Q | P | WFR | Pd |
| 5 | 749.9 | 205.2 | 128.5 | 60.6 | 706.8 | 224.4 | 121.2 | 54.4 | 661.5 | 245.8 | 113.4 | 48.2 | 633.3 | 259.6 | 108.6 | 44.5 | 604.4 | 274.2 | 103.6 | 40.9 | 581.0 | 293.5 | 99.6 | 38.0 | | | | | | | | | 49 |
| 6 | 775.1 | 207.7 | 132.9 | 64.4 | 731.0 | 227.0 | 125.3 | 57.8 | 684.5 | 248.6 | 117.3 | 51.3 | 655.6 | 262.5 | 112.4 | 47.4 | 626.0 | 277.1 | 107.3 | 43.6 | 602.7 | 296.1 | 103.3 | 40.7 | | | | | | | | | 49 |
| 7 | 800.8 | 210.2 | 137.3 | 68.3 | 755.6 | 229.7 | 129.5 | 61.4 | 708.0 | 251.4 | 121.4 | 54.5 | 678.4 | 265.4 | 116.3 | 50.4 | 648.1 | 280.1 | 111.1 | 46.4 | 624.9 | 298.8 | 107.1 | 43.4 | | | | | | | | | 49 |
| 8 | 827.3 | 212.8 | 141.8 | 72.6 | 781.0 | 232.4 | 133.9 | 65.3 | 732.2 | 254.2 | 125.5 | 58.0 | 701.9 | 268.3 | 120.3 | 53.7 | 670.8 | 283.1 | 115.0 | 49.4 | 647.8 | 301.5 | 111.1 | 46.4 | | | | | | | | | 48 |
| 9 | 854.3 | 215.4 | 146.4 | 77.0 | 806.8 | 235. | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Low Noise, Standard Ambient Temperature, 3-Compressor Units

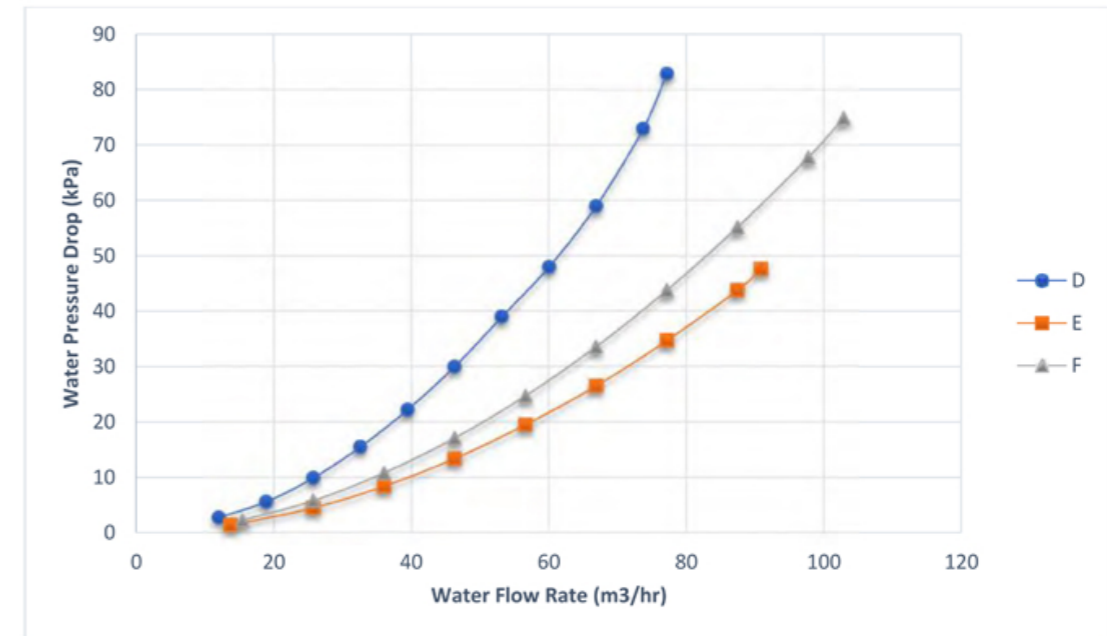
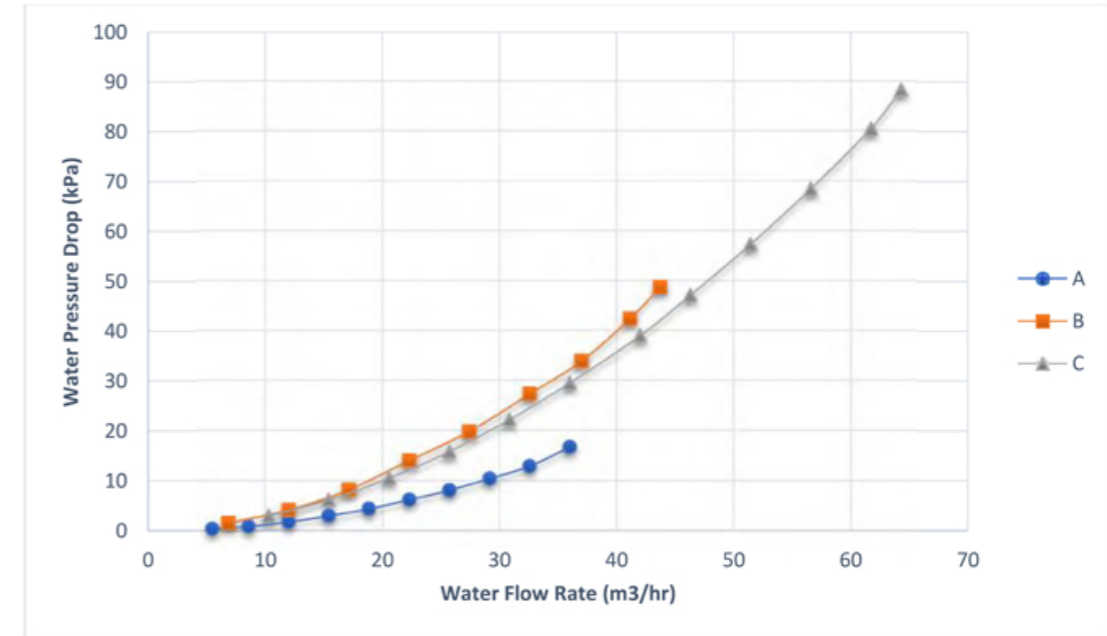
| Model: ACW31210SELN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|--------|-------|-------|------|--------|-------|-------|------|--------|-------|-------|------|--------|-------|-------|------|--------|-------|-------|------|--------|-------|-------|------|----|---|-----|----|-----|--|----|
| Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CWT | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | 52 | | | | MAT | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | | |
| 5 | 1208.4 | 383.8 | 207.2 | 73.1 | 1135.9 | 417.4 | 194.7 | 64.9 | 1061.0 | 454.6 | 181.9 | 57.0 | 1015.2 | 478.9 | 174.0 | 52.4 | 969.0 | 504.9 | 166.1 | 47.9 | 944.3 | 530.1 | 161.9 | 45.6 | | | | | | | 49 |
| 6 | 1246.5 | 389.4 | 213.7 | 77.5 | 1172.3 | 423.4 | 201.0 | 69.0 | 1095.6 | 461.0 | 187.8 | 60.6 | 1048.8 | 485.6 | 179.8 | 55.7 | 1001.5 | 511.9 | 171.7 | 51.0 | 977.7 | 536.5 | 167.6 | 48.7 | | | | | | | 48 |
| 7 | 1285.1 | 395.1 | 220.3 | 82.1 | 1209.3 | 429.5 | 207.3 | 73.2 | 1130.8 | 467.6 | 193.9 | 64.4 | 1082.8 | 492.4 | 185.6 | 59.3 | 1034.4 | 519.0 | 177.3 | 54.3 | 1011.8 | 543.1 | 173.5 | 52.0 | | | | | | | 47 |
| 8 | 1323.5 | 400.8 | 226.9 | 86.8 | 1246.1 | 435.6 | 213.6 | 77.5 | 1165.9 | 474.2 | 199.9 | 68.3 | 1116.9 | 499.3 | 191.5 | 62.9 | 1067.4 | 526.1 | 183.0 | 57.6 | 1046.0 | 549.7 | 179.3 | 55.5 | | | | | | | 47 |
| 9 | 1362.3 | 406.6 | 233.5 | 91.7 | 1283.4 | 441.9 | 220.0 | 81.9 | 1201.5 | 480.9 | 206.0 | 72.3 | 1151.4 | 506.3 | 197.4 | 66.6 | 1100.8 | 533.4 | 188.7 | 61.2 | | | | | | | | | | | 46 |
| 10 | 1401.7 | 412.5 | 240.3 | 96.7 | 1321.1 | 448.3 | 226.5 | 86.5 | 1237.6 | 487.7 | 212.2 | 76.5 | 1186.4 | 513.4 | 203.4 | 70.6 | 1134.7 | 540.8 | 194.5 | 64.8 | | | | | | | | | | | 46 |

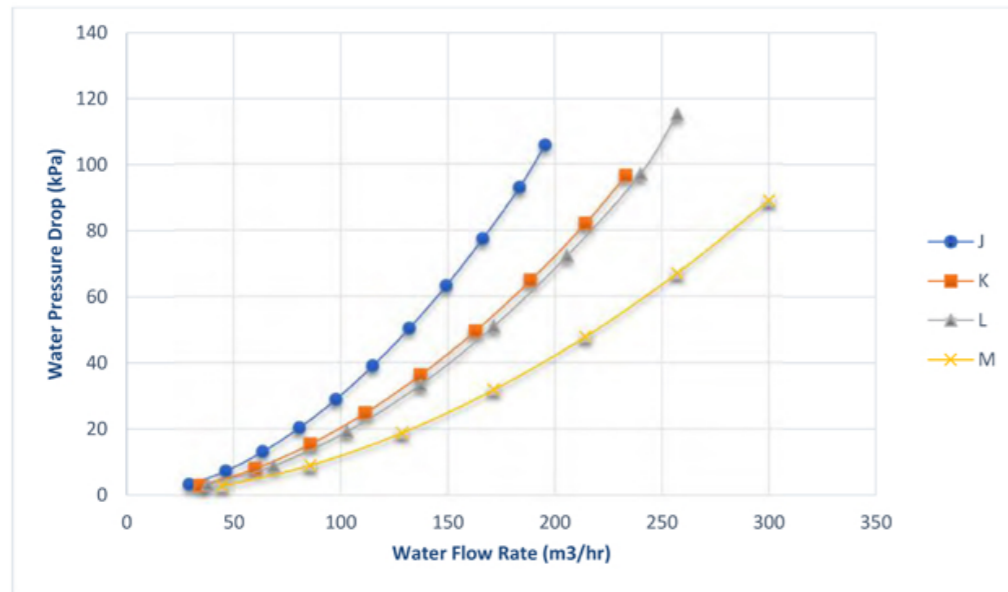
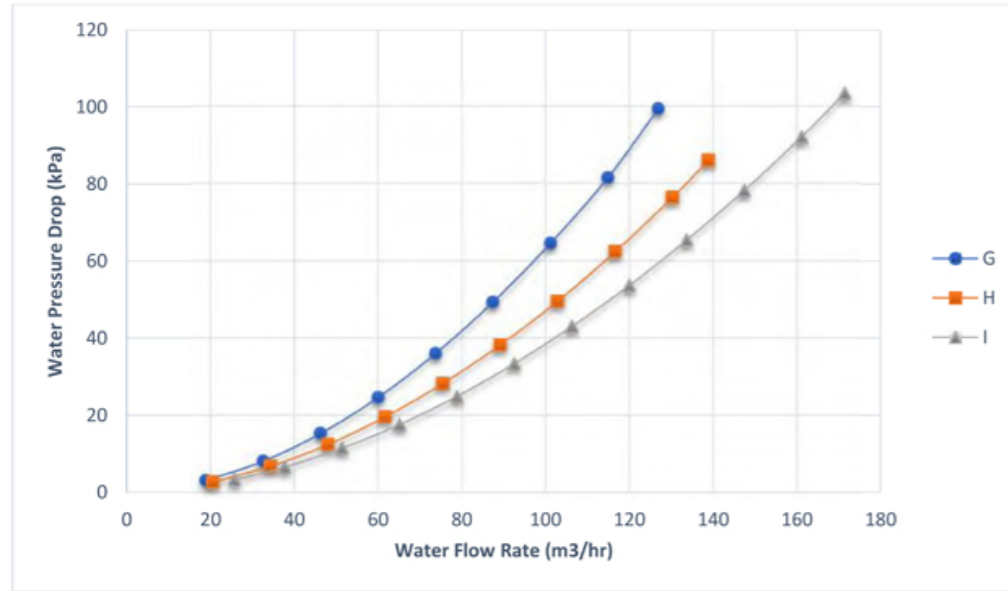
| Model: ACW31395SELN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|--------|-------|-------|------|--------|-------|-------|------|--------|-------|-------|------|--------|-------|-------|------|--------|-------|-------|------|--------|-------|-------|------|----|---|-----|----|-----|--|----|
| Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CWT | 30 | | | | 35 | | | | 40 | | | | 43 | | | | 46 | | | | 50 | | | | 52 | | | | MAT | | |
| | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | Q | P | WFR | Pd | | | |
| 5 | 1393.1 | 434.7 | 238.8 | 58.2 | 1313.4 | 475.7 | 225.1 | 52.2 | 1230.1 | 519.6 | 210.9 | 46.3 | 1178.5 | 547.1 | 202.0 | 42.8 | 1125.9 | 575.6 | 193.0 | 39.3 | 1108.3 | 595.9 | 190.0 | 38.2 | | | | | | | 48 |
| 6 | 1436.0 | 441.5 | 246.2 | 61.6 | 1354.4 | 483.0 | 232.2 | 55.3 | 1269.1 | 527.3 | 217.6 | 49.0 | 1216.4 | 555.2 | 208.5 | 45.4 | 1162.6 | 583.9 | 199.3 | 41.7 | 1146.9 | 603.5 | 196.6 | 40.7 | | | | | | | 47 |
| 7 | 1479.3 | 448.4 | 253.6 | 65.0 | 1395.9 | 490.4 | 239.3 | 58.4 | 1308.7 | 535.2 | 224.3 | 51.9 | 1254.7 | 563.4 | 215.1 | 48.0 | 1199.7 | 592.4 | 205.7 | 44.2 | 1186.1 | 611.2 | 203.3 | 43.3 | | | | | | | 46 |
| 8 | 1523.0 | 455.4 | 261.1 | 68.6 | 1437.8 | 497.9 | 246.5 | 61.7 | 1348.6 | 543.3 | 231.2 | 54.8 | 1293.5 | 571.7 | 221.7 | 50.8 | 1237.3 | 601.0 | 212.1 | 46.8 | | | | | | | | | | | 46 |
| 9 | 1567.1 | 462.5 | 268.6 | 72.3 | 1480.1 | 505.6 | 253.7 | 65.1 | 1389.0 | 551.5 | 238.1 | 57.9 | 1332.7 | 580.2 | 228.5 | 53.7 | 1344.1 | 587.7 | 230.4 | 54.5 | | | | | | | | | | | 45 |
| 10 | 1611.5 | 469.8 | 276.3 | 76.2 | 1522.8 | 513.4 | 261.1 | 68.6 | 1429.9 | 559.8 | 245.1 | 61.1 | 1372.4 | 588.9 | 235.3 | 56.6 | 1387.0 | 595.5 | 237.8 | 57.7 | | | | | | | | | | | 45 |

- Q; Cooling Capacity in kW
- P; Total Power Absorbed in kW
- WFR; Water Flow Rate in m3/hr.
- Pd; Water Pressure Drop in kPa
- CWT; Chilled Water Temperature in °C (ΔT = 5°C)
- MAT; Maximum Ambient Temperature in °C
- NOTES:

- I. Data on grey background: unit switched to non-silenced operation
- II. Waterflow and pressure drop on heat exchangers calculated with 5°C of delta T
- III. Interpolation between rating is permissible but extrapolation is not.
- IV. When the external air temperature is higher than the "MAT" the chiller doesn't stop but the "unloading" system capacity control is activated.

Water Side Evaporator Pressure Drop Curves





| Curve | Model |
|-------|---|
| A | ACW10100SSSN, ACW10100HHSN, ACW10110SSSN, ACW10115HHSN, ACW10100SSLN, ACW10100HHLN, ACW10110SSLN, ACW10110SHLN |
| B | ACW10130SSSN, ACW10135HHSN, ACW10150SSSN, ACW10155HHSN, ACW10125SELN, ACW10135HHLN, ACW10150SSLN, ACW10150HHLN |
| C | ACW10185SSSN, ACW10190HHSN, ACW10215SSSN, ACW10215HHSN, ACW10180MELN, ACW10190SHLN, ACW10210SSLN, ACW10215SHLN |
| D | ACW10245SSSN, ACW10255HHSN, ACW20205SHSN, ACW20210HHSN, ACW20230SHSN, ACW20235HHSN, ACW20255HHSN, ACW20250SESN, ACW20270HHSN, ACW10240MSLN, ACW10250SHLN, ACW20200SHLN, ACW20205HHLN, ACW20225SSLN, ACW20225SHLN, ACW20250HHLN, ACW20245MELN, ACW20260HHLN, |
| E | ACW10280SSSN, ACW10290HHSN, ACW10310SSSN, ACW10325HPSN, ACW20300HHSN, ACW20295SESN, ACW20315HHSN, ACW20335SSSN, ACW20350HHSN, ACW10270MSLN, ACW10285SHLN, ACW10305MELN, ACW10320SHLN, ACW20295SHLN, ACW20285MELN, ACW20310SHLN, ACW20330MSLN, ACW20340SHLN |
| F | ACW20375SHSN, ACW20385HHSN, ACW20400SSSN, ACW20410HHSN, ACW20425SSSN, ACW20435HHSN, ACW20365SSLN, ACW20375SHLN, ACW20390MSLN, ACW20405SHLN, ACW20420SSLN, ACW20425SHLN |
| G | ACW20480SHSN, ACW20485HPSN, ACW20500SSSN, ACW20515HHSN, ACW20470SHLN, ACW20480SPLN, ACW20485MSLN, ACW20505SHLN |
| H | ACW20565SHSN, ACW20575HHSN, ACW20620SSSN, ACW20645HHSN, ACW20550SSLN, ACW20565SHLN, ACW20600MELN, ACW20635SHLN |
| I | ACW20710SHSN, ACW20720HPSN, ACW20760SHSN, ACW20770HPSN, ACW20695SHLN, ACW20705SHLN, ACW20735SHLN, ACW20755SHLN |
| J | ACW20830SPSN, ACW20845HPSN, ACW20870SHSN, ACW20905HPSN, ACW20810SHLN, ACW20830SPLN, ACW20845MHLN, ACW20885SPLN |
| K | ACW21035SPSN, ACW21050HPSN, ACW21085SHSN, ACW21115HPSN, ACW21010SHLN, ACW21030SPLN, ACW21055MHLN, ACW21095SPLN |
| L | ACW31250HSSN, ACW31210SELN |
| M | ACW31510SHSN, ACW31540SPSN, ACW31455HSSN, ACW31465MSLN, ACW31500SHLN, ACW31395SELN |

Ambient Limitations

Arvand air-cooled chillers are designed for year-round operation over a range of ambient temperatures. Medium ambient, Standard ambient and High ambient units could be operating in condition inside envelope charts A, B and C in respect. With the low ambient options, these units will operate in lower ambient temperature. Our customers can always order a unit out of envelope condition, for this, contact to our specialist in Arvand company.

Water Flow Limits

The minimum and maximum water flow rates are given in the General Data tables. Evaporator flow rates below the tabulated values will result in laminar flow causing freeze up problems, scaling, stratification and poor control. Flow rates exceeding those listed may result in excessive tube erosion.

Note: Flow rates in General Data tables are for water only. They do not include glycol.

Leaving Water Temperature Limits

Arvand air-cooled ACW chillers have the standard leaving solution temperature range 5 to 15°C. Since water supply temperature setpoint less than 4.4°C ,result in suction temperatures at or below the freezing point of water, a glycol solution is required for all low temperature machines.

Chart A

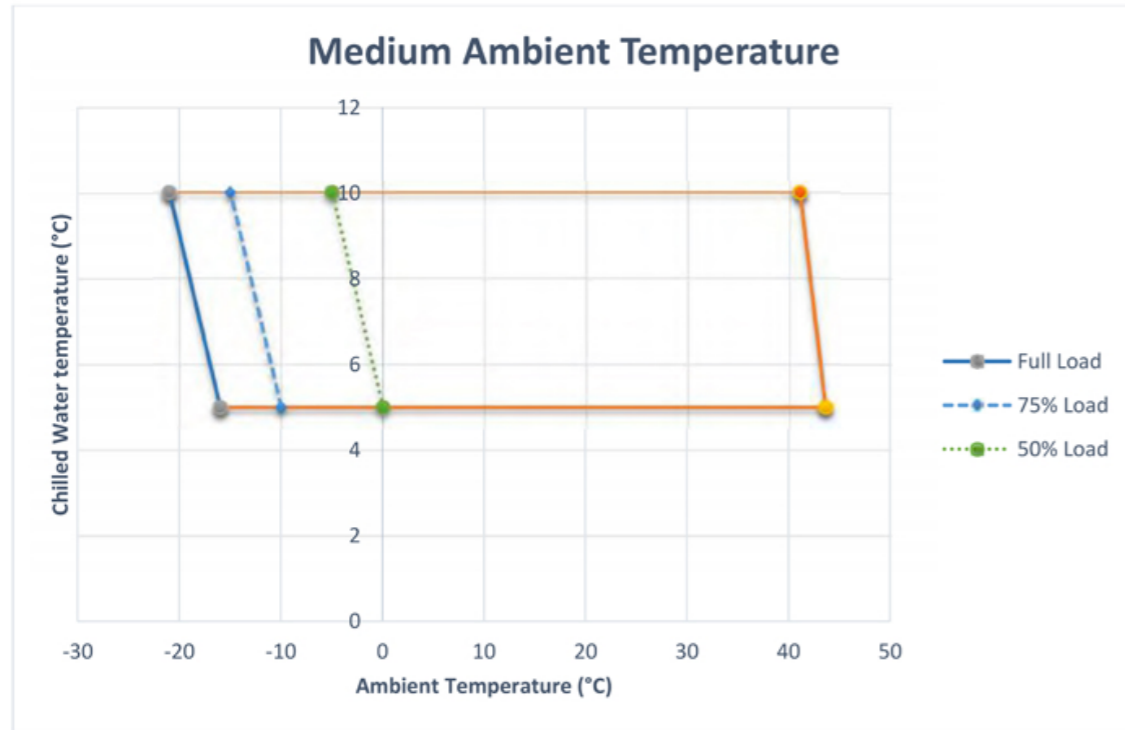


Chart B

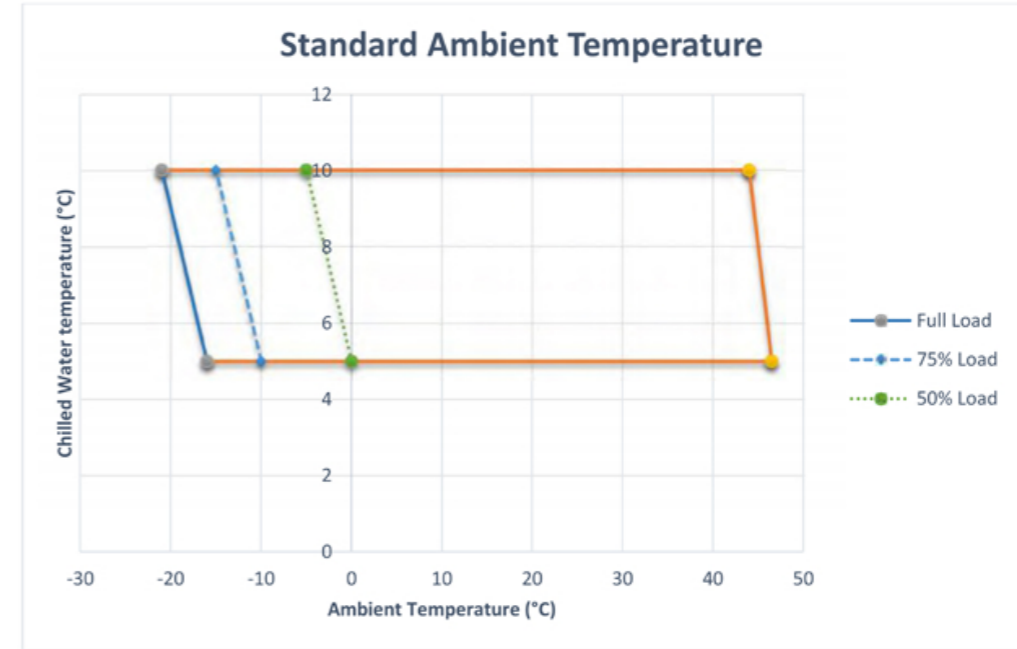
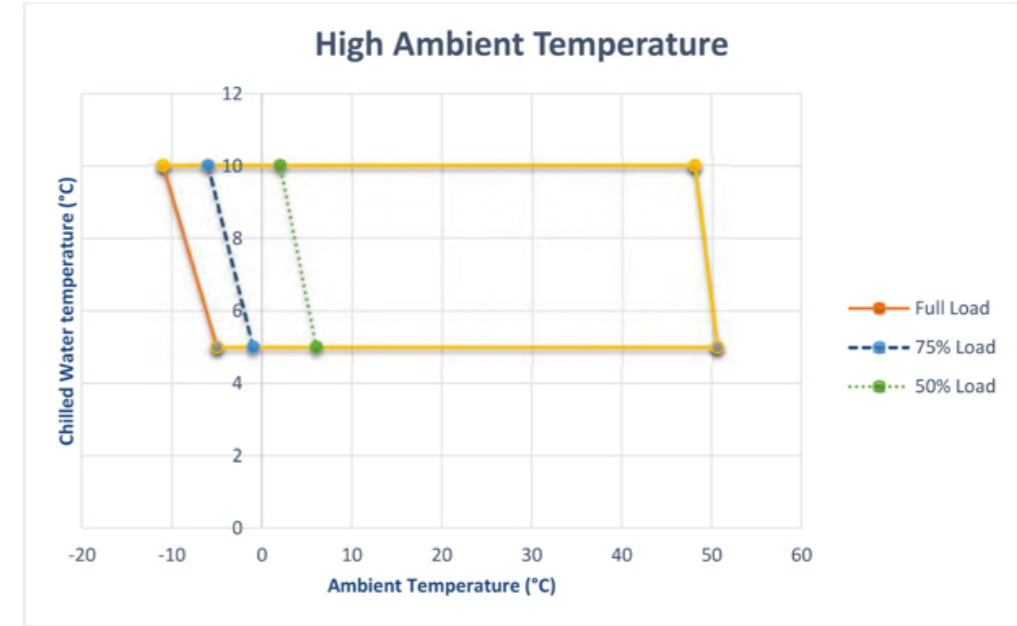


Chart C



| UnitModel | Rated Voltage | Compressor Quantity | Fan Quantity | Fan power (kW) | OLA (A) | FLA (A) | ICF (A) | MOP (kW) |
|--------------|---------------|---------------------|--------------|----------------|---------|---------|---------|----------|
| ACW10100SSSN | 400/50/3 | 1 | 2 | 1.94 | 57 | 74 | 346 | 44.9 |
| ACW10110SSSN | 400/50/3 | 1 | 2 | 1.94 | 64 | 94 | 419 | 54.9 |
| ACW10130SSSN | 400/50/3 | 1 | 2 | 1.94 | 77 | 106 | 457 | 68.9 |
| ACW10150SSSN | 400/50/3 | 1 | 3 | 1.94 | 87 | 136 | 497 | 83.8 |
| ACW10185SSSN | 400/50/3 | 1 | 3 | 1.94 | 102 | 156 | 618 | 93.8 |
| ACW10215SSSN | 400/50/3 | 1 | 4 | 1.94 | 116 | 171 | 691 | 103.8 |
| ACW10245SSSN | 400/50/3 | 1 | 4 | 1.94 | 139 | 198 | 817 | 117.8 |
| ACW10280SSSN | 400/50/3 | 1 | 4 | 1.94 | 156 | 212 | 959 | 127.8 |
| ACW10310SSSN | 400/50/3 | 1 | 5 | 1.94 | 179 | 234 | 1043 | 140.7 |
| ACW20205SHSN | 400/50/3 | 2 | 4 | 1.94 | 115 | 148 | 420 | 89.8 |
| ACW20230SHSN | 400/50/3 | 2 | 4 | 1.94 | 129 | 188 | 513 | 109.8 |
| ACW20250SESN | 400/50/3 | 2 | 4 | 1.94 | 157 | 212 | 563 | 137.8 |
| ACW20295SESN | 400/50/3 | 2 | 4 | 1.94 | 178 | 264 | 625 | 163.8 |
| ACW20335SSSN | 400/50/3 | 2 | 6 | 1.94 | 189 | 291 | 753 | 177.6 |
| ACW20375SHSN | 400/50/3 | 2 | 6 | 1.94 | 197 | 311 | 773 | 187.6 |
| ACW20400SSSN | 400/50/3 | 2 | 7 | 1.94 | 218 | 326 | 846 | 197.6 |
| ACW20425SSSN | 400/50/3 | 2 | 8 | 1.94 | 232 | 341 | 861 | 207.5 |
| ACW20480SHSN | 400/50/3 | 2 | 8 | 1.94 | 250 | 368 | 987 | 221.5 |
| ACW20500SSSN | 400/50/3 | 2 | 8 | 1.94 | 280 | 395 | 1014 | 235.5 |
| ACW20565SHSN | 400/50/3 | 2 | 10 | 1.94 | 313 | 431 | 1178 | 259.4 |
| ACW20620SSSN | 400/50/3 | 2 | 10 | 1.94 | 357 | 467 | 1276 | 281.4 |
| ACW20710SHSN | 400/50/3 | 2 | 12 | 1.94 | 370 | 541 | 1241 | 309.3 |
| ACW20760SHSN | 400/50/3 | 2 | 12 | 1.94 | 395 | 607 | 1307 | 333.3 |
| ACW20830SPSN | 400/50/3 | 2 | 13 | 1.94 | 418 | 641 | 1416 | 355.2 |
| ACW20870SHSN | 400/50/3 | 2 | 14 | 1.94 | 449 | 675 | 1450 | 377.2 |
| ACW21035SPSN | 400/50/3 | 2 | 16 | 1.94 | 524 | 702 | 1502 | 439.0 |
| ACW21085SHSN | 400/50/3 | 2 | 16 | 1.94 | 292 | 742 | 1642 | 457.0 |
| ACW31510SHSN | 400/50/3 | 3 | 21 | 1.94 | 797 | 1042 | 1842 | 652.7 |
| ACW31540SPSN | 400/50/3 | 3 | 24 | 1.94 | 784 | 1054 | 1854 | 658.6 |

1. All measures are calculated at 35 °C ambient temperature and entering/leaving water temperature 12/7 °C
2. Voltage Utilization Range: +/- 5% of rated voltage. Rated voltage (use range): 400 volt (380-420)
3. OLA - Unit Operating Load Amps
4. FLA - Unit Full load Amps
5. ICF - Instantaneous Maximum Starting amps (any point in starting sequence where sum of LRA for 'starting compressor is maximum).
6. MOP - Unit Maximum Operating Power

| UnitModel | Rated Voltage | Compressor Quantity | Fan Quantity | Fan power (kW) | OLA (A) | FLA (A) | LRA (A) | MOP (kW) |
|---------------------|-----------------|---------------------|--------------|----------------|------------|------------|------------|--------------|
| ACW10100HHSN | 400/50/3 | 1 | 2 | 1.94 | 56 | 74 | 346 | 44.9 |
| ACW10115HHSN | 400/50/3 | 1 | 2 | 1.94 | 63 | 94 | 419 | 54.9 |
| ACW10135HHSN | 400/50/3 | 1 | 3 | 1.94 | 77 | 110 | 461 | 70.8 |
| ACW10155HHSN | 400/50/3 | 1 | 3 | 1.94 | 85 | 136 | 497 | 83.8 |
| ACW10190HHSN | 400/50/3 | 1 | 4 | 1.94 | 99 | 160 | 622 | 95.8 |
| ACW10215HHSN | 400/50/3 | 1 | 4 | 1.94 | 113 | 171 | 691 | 103.8 |
| ACW10255HHSN | 400/50/3 | 1 | 5 | 1.94 | 137 | 202 | 821 | 119.7 |
| ACW10290HHSN | 400/50/3 | 1 | 6 | 1.94 | 155 | 219 | 966 | 131.6 |
| ACW10325HPSN | 400/50/3 | 1 | 6 | 1.94 | 172 | 237 | 1046 | 142.6 |
| ACW20210HHSN | 400/50/3 | 2 | 4 | 1.94 | 113 | 148 | 420 | 89.8 |
| ACW20235HHSN | 400/50/3 | 2 | 4 | 1.94 | 126 | 188 | 513 | 109.8 |
| ACW20255HHSN | 400/50/3 | 2 | 6 | 1.94 | 142 | 207 | 558 | 127.6 |
| ACW20270HHSN | 400/50/3 | 2 | 6 | 1.94 | 154 | 219 | 570 | 141.6 |
| ACW20300HHSN | 400/50/3 | 2 | 6 | 1.94 | 162 | 245 | 606 | 154.6 |
| ACW20315HHSN | 400/50/3 | 2 | 6 | 1.94 | 172 | 271 | 632 | 167.6 |
| ACW20350HHSN | 400/50/3 | 2 | 8 | 1.94 | 187 | 299 | 761 | 181.5 |
| ACW20385HHSN | 400/50/3 | 2 | 8 | 1.94 | 199 | 319 | 781 | 191.5 |
| ACW20410HHSN | 400/50/3 | 2 | 8 | 1.94 | 210 | 330 | 850 | 199.5 |
| ACW20435HHSN | 400/50/3 | 2 | 8 | 1.94 | 226 | 341 | 861 | 207.5 |
| ACW20485HPSN | 400/50/3 | 2 | 9 | 1.94 | 248 | 372 | 991 | 223.5 |
| ACW20515HHSN | 400/50/3 | 2 | 10 | 1.94 | 275 | 403 | 1022 | 239.4 |
| ACW20575HHSN | 400/50/3 | 2 | 12 | 1.94 | 310 | 439 | 1186 | 263.3 |
| ACW20645HHSN | 400/50/3 | 2 | 12 | 1.94 | 342 | 475 | 1284 | 285.3 |
| ACW20720HPSN | 400/50/3 | 2 | 13 | 1.94 | 368 | 545 | 1245 | 311.2 |
| ACW20770HPSN | 400/50/3 | 2 | 14 | 1.94 | 391 | 615 | 1315 | 337.2 |
| ACW20845HPSN | 400/50/3 | 2 | 15 | 1.94 | 414 | 649 | 1424 | 359.1 |
| ACW20905HPSN | 400/50/3 | 2 | 16 | 1.94 | 434 | 682 | 1457 | 381.0 |
| ACW21050HPSN | 400/50/3 | 2 | 18 | 1.94 | 520 | 710 | 1510 | 442.9 |
| ACW21115HPSN | 400/50/3 | 2 | 20 | 1.94 | 297 | 758 | 1658 | 464.8 |
| ACW31250HSSN | 400/50/3 | 3 | 18 | 1.94 | 724 | 1330 | 2380 | 799.9 |
| ACW31455HSSN | 400/50/3 | 3 | 18 | 1.94 | 813 | 1420 | 2545 | 874.9 |
| ACW10100SSLN | 400/50/3 | 1 | 2 | 1.21 | 56 | 70 | 342 | 43.4 |
| ACW10110SSLN | 400/50/3 | 1 | 2 | 1.21 | 63 | 90 | 415 | 53.4 |
| ACW10125SELN | 400/50/3 | 1 | 2 | 1.21 | 77 | 102 | 453 | 67.4 |
| ACW10150SSLN | 400/50/3 | 1 | 3 | 1.21 | 85 | 131 | 492 | 81.6 |
| ACW10180MELN | 400/50/3 | 1 | 3 | 1.21 | 101 | 151 | 613 | 91.6 |
| ACW10210SSLN | 400/50/3 | 1 | 4 | 1.21 | 114 | 164 | 684 | 100.8 |
| ACW10240MSLN | 400/50/3 | 1 | 4 | 1.21 | 138 | 191 | 810 | 114.8 |
| ACW10270MSLN | 400/50/3 | 1 | 4 | 1.21 | 157 | 205 | 952 | 124.8 |

1. All measures are calculated at 35 °C ambient temperature and entering/leaving water temperature 12/7 °C
2. Voltage Utilization Range: +/- 5% of rated voltage. Rated voltage (use range): 400 volt (380-420)
3. OLA - Unit Operating Load Amps
4. FLA - Unit Full load Amps
5. ICF - Instantaneous Maximum Starting amps (any point in starting sequence where sum of LRA for 'starting compressor is maximum).
6. MOP - Unit Maximum Operating Power

| UnitModel | Rated Voltage | Compressor Quantity | Fan Quantity | Fan power (kW) | OLA (A) | FLA (A) | LRA (A) | MOP (kW) |
|--------------|---------------|---------------------|--------------|----------------|---------|---------|---------|----------|
| ACW10305MELN | 400/50/3 | 1 | 5 | 1.21 | 178 | 225 | 1034 | 137.1 |
| ACW20200SHLN | 400/50/3 | 2 | 4 | 1.21 | 112 | 141 | 413 | 86.8 |
| ACW20225SSLN | 400/50/3 | 2 | 4 | 1.21 | 127 | 181 | 506 | 106.8 |
| ACW20245MELN | 400/50/3 | 2 | 4 | 1.21 | 157 | 205 | 556 | 134.8 |
| ACW20285MELN | 400/50/3 | 2 | 4 | 1.21 | 180 | 257 | 618 | 160.8 |
| ACW20330MSLN | 400/50/3 | 2 | 6 | 1.21 | 185 | 281 | 743 | 173.3 |
| ACW20365SSLN | 400/50/3 | 2 | 6 | 1.21 | 196 | 301 | 763 | 183.3 |
| ACW20390MSLN | 400/50/3 | 2 | 7 | 1.21 | 218 | 326 | 846 | 197.6 |
| ACW20420SSLN | 400/50/3 | 2 | 8 | 1.21 | 227 | 328 | 848 | 201.7 |
| ACW20470SHLN | 400/50/3 | 2 | 8 | 1.21 | 247 | 355 | 974 | 215.7 |
| ACW20485MSLN | 400/50/3 | 2 | 8 | 1.21 | 278 | 382 | 1001 | 229.7 |
| ACW20550SSLN | 400/50/3 | 2 | 10 | 1.21 | 307 | 414 | 1161 | 252.1 |
| ACW20600MELN | 400/50/3 | 2 | 10 | 1.21 | 355 | 450 | 1259 | 274.1 |
| ACW20695SHLN | 400/50/3 | 2 | 12 | 1.21 | 365 | 521 | 1221 | 300.5 |
| ACW20735SHLN | 400/50/3 | 2 | 12 | 1.21 | 392 | 587 | 1287 | 324.5 |
| ACW20810SHLN | 400/50/3 | 2 | 13 | 1.21 | 413 | 619 | 1394 | 345.7 |
| ACW20845MHLN | 400/50/3 | 2 | 14 | 1.21 | 443 | 651 | 1426 | 366.9 |
| ACW21010SHLN | 400/50/3 | 2 | 16 | 1.21 | 519 | 676 | 1476 | 427.4 |
| ACW21055MHLN | 400/50/3 | 2 | 16 | 1.21 | 276 | 716 | 1616 | 445.4 |
| ACW31465MSLN | 400/50/3 | 3 | 21 | 1.21 | 800 | 1007 | 1807 | 637.4 |
| ACW31500SHLN | 400/50/3 | 3 | 24 | 1.21 | 777 | 1014 | 1814 | 641.0 |
| ACW10100HHLN | 400/50/3 | 1 | 2 | 1.21 | 54 | 70 | 342 | 43.4 |
| ACW10110SHLN | 400/50/3 | 1 | 2 | 1.21 | 62 | 90 | 415 | 53.4 |
| ACW10135HHLN | 400/50/3 | 1 | 3 | 1.21 | 74 | 105 | 456 | 68.6 |
| ACW10150HHLN | 400/50/3 | 1 | 3 | 1.21 | 83 | 131 | 492 | 81.6 |
| ACW10190SHLN | 400/50/3 | 1 | 4 | 1.21 | 96 | 153 | 615 | 92.8 |
| ACW10215SHLN | 400/50/3 | 1 | 4 | 1.21 | 111 | 164 | 684 | 100.8 |
| ACW10250SHLN | 400/50/3 | 1 | 5 | 1.21 | 133 | 193 | 812 | 116.1 |
| ACW10285SHLN | 400/50/3 | 1 | 6 | 1.21 | 150 | 209 | 956 | 127.3 |
| ACW10320SHLN | 400/50/3 | 1 | 6 | 1.21 | 167 | 227 | 1036 | 138.3 |
| ACW20205HHLN | 400/50/3 | 2 | 4 | 1.21 | 110 | 141 | 413 | 86.8 |
| ACW20225SHLN | 400/50/3 | 2 | 4 | 1.21 | 124 | 181 | 506 | 106.8 |
| ACW20250HHLN | 400/50/3 | 2 | 6 | 1.21 | 135 | 197 | 548 | 123.3 |
| ACW20260HHLN | 400/50/3 | 2 | 6 | 1.21 | 147 | 209 | 560 | 137.3 |
| ACW20295SHLN | 400/50/3 | 2 | 6 | 1.21 | 157 | 235 | 596 | 150.3 |
| ACW20310SHLN | 400/50/3 | 2 | 6 | 1.21 | 167 | 261 | 622 | 163.3 |
| ACW20340SHLN | 400/50/3 | 2 | 8 | 1.21 | 178 | 286 | 748 | 175.7 |

| UnitModel | Rated Voltage | Compressor Quantity | Fan Quantity | Fan power (kW) | OLA (A) | FLA (A) | LRA (A) | MOP (kW) |
|--------------|---------------|---------------------|--------------|----------------|---------|---------|---------|----------|
| ACW20375SHLN | 400/50/3 | 2 | 8 | 1.21 | 191 | 306 | 768 | 185.7 |
| ACW20405SHLN | 400/50/3 | 2 | 8 | 1.21 | 204 | 317 | 837 | 193.7 |
| ACW20425SHLN | 400/50/3 | 2 | 8 | 1.21 | 221 | 328 | 848 | 201.7 |
| ACW20480SPLN | 400/50/3 | 2 | 9 | 1.21 | 242 | 357 | 976 | 216.9 |
| ACW20505SHLN | 400/50/3 | 2 | 10 | 1.21 | 266 | 386 | 1005 | 232.1 |
| ACW20565SHLN | 400/50/3 | 2 | 12 | 1.21 | 299 | 419 | 1166 | 254.5 |
| ACW20635SHLN | 400/50/3 | 2 | 12 | 1.21 | 334 | 455 | 1264 | 276.5 |
| ACW20705SHLN | 400/50/3 | 2 | 13 | 1.21 | 359 | 523 | 1223 | 301.7 |
| ACW20755SHLN | 400/50/3 | 2 | 14 | 1.21 | 382 | 591 | 1291 | 326.9 |
| ACW20830SPLN | 400/50/3 | 2 | 15 | 1.21 | 403 | 623 | 1398 | 348.2 |
| ACW20885SPLN | 400/50/3 | 2 | 16 | 1.21 | 422 | 656 | 1431 | 369.4 |
| ACW21030SPLN | 400/50/3 | 2 | 18 | 1.21 | 509 | 680 | 1480 | 429.8 |
| ACW21095SPLN | 400/50/3 | 2 | 20 | 1.21 | 272 | 725 | 1625 | 450.2 |
| ACW31210SELN | 400/50/3 | 3 | 18 | 1.21 | 723 | 1300 | 2350 | 786.8 |
| ACW31395SELN | 400/50/3 | 3 | 18 | 1.21 | 824 | 1390 | 2515 | 861.8 |

1. All measures are calculated at 35 °C ambient temperature and entering/leaving water temperature 12/7 °C
2. Voltage Utilization Range: +/- 5% of rated voltage. Rated voltage (use range): 400 volt (380-420)
3. OLA - Unit Operating Load Amps
4. FLA - Unit Full load Amps
5. ICF - Instantaneous Maximum Starting amps (any point in starting sequence where sum of LRA for 'starting compressor is maximum).
6. MOP - Unit Maximum Operating Power

1. All measures are calculated at 35 °C ambient temperature and entering/leaving water temperature 12/7 °C
2. Voltage Utilization Range: +/- 5% of rated voltage. Rated voltage (use range): 400 volt (380-420)
3. OLA - Unit Operating Load Amps
4. FLA - Unit Full load Amps
5. ICF - Instantaneous Maximum Starting amps (any point in starting sequence where sum of LRA for 'starting compressor is maximum).
6. MOP - Unit Maximum Operating Power

- **Electronic control**

The units are supplied with the new Pre-Configurable Controller-based electronic control and management system ensuring the following functions:

- Management of the operation of compressors:
 - Power on/off
 - 4-Steps load control (25%, 50%, 75% and 100%)
 - Unloading for high pressure or high compressor pressure ratio (integrated inside the curve of compressor operating limits this means Compressors Envelope Control)
- Chilled water temperature regulation (control on leaving water temperature (LWT) of the evaporator or on Entering water temperature (EWT) as optional).
- Control of superheating on suction line.
- Evaporator antifreeze protection.
- Management of high- and low-pressure alarms.
- Management of the compressors on over Load.
- Management of the compressors on the all circuits.
- Management of the electronic expansion valves by means of EEV controller.
- Management of external interlocks Via Dry Contacts or Modbus protocol.
- Management of the remote control:
 - Read all of sensors information
 - Alarm signals
 - Managements of all Control Parameters as LWT set point and all other control parameters
- Remote signaling, by free contacts:
 - Unit status.
 - General alarm
- Chilled or cooled water Flow switch inter lock.

The unit controller can also clearly show all control parameters of the machine on the LCD (HMI as an Option), such as:

- Display of the temperature set point at evaporator inlet or outlet.
- Display of the electronic expansion valve super heat Set Point.
- Display of each circuit discharge pressure and suction pressure.
- Display of speed control signal (percent Or Sequence) of fans.
- Display of the various alarm and operation status.
- Low/High pressure indicator.
- Low/High prevent.
- Evaporator antifreeze.
- Water flow switch signal.
- Control of the compressor operating hours.
- Compressors in operation.
- Pump in operation
- Thermal protection of compressors.
- Thermal protection of fans.
- Faulty sensors.

- **Control and safety devices**

Each unit is fitted with the following devices:

Safety:

- Power disconnect switch with an emergency stop function.
- Phase Control (Sequence and Range) in Electric Power
- HP switches, manual reset to be reinitialized from controller.
- Safety valve on the discharge line (HP side).
- LP switches (one for each circuit, Auto reset to be reinitialized from controller by a logical rule inside the controller and after this limit stop the compressors.
- Discharge gas temperature protection, on the discharge line of each compressor.

General

The units are to be completely factory assembled and wired in a single package complete with screw compressors, evaporator, condenser, starting control with safety and operating controls. The unit shall be given a complete factory operating and control sequence test under load conditions and shall be shipped with full operating charge of refrigerant and full oil charge.

Work Included

Provide complete electrically or micro controlled air-cooled chiller utilizing screw compressor sets suitable for outdoor installation.

Delivery and Handling

The unit shall be delivered to the job site completely assembled and charged with refrigerant and oil by the manufacturer.

Maintenance

Maintenance of the chillers shall be the responsibility of the owner and performed in accordance with the manufacturer's instructions.

Construction

The unit shall be designed for maximum corrosion protection being of heavy gauge, galvanized steel construction with baked on powder coating.

Condenser

The condenser coil shall be constructed of copper tubes and die-formed aluminum fins having self-spacing collars. Fins shall be mechanically bonded to the tubes. Integral sub-cooling circuits shall be incorporated into the coil. Condenser divider baffles shall fully separate each condenser fan section to control the airflow to maintain proper head pressure control.

Fans

The fans shall be heavy duty, aluminum blade, direct drive propeller type. Motors shall be three phase type with internal overloads. Fan blades shall be statically and dynamically balanced. Fan motor shall be rated minimum IP54 for outdoor application.

Compressor

The compressors shall be screw with suction and discharge manifold. The compressors shall be equipped with an internal crankcase heater, and oil sight glass.

Refrigerant Circuit

Compressor(s) shall be used with a direct expansion evaporator. Insulate evaporator and other cold surfaces as required to prevent condensation at ambient conditions.

Each refrigerant circuit shall include the following components:

1. Discharge line service valve.
2. High pressure switch.
3. High pressure transmitter.
4. Relief valve.
5. Liquid line service valve.
6. Refrigerant filter drier (with removable core(S)) with charging port.
7. Liquid line solenoid valve.
8. Moisture indicating sight glass.
9. Electronic expansion valve.
10. Insulation on all suction lines.
11. Suction line filter
12. Low pressure switch.
13. Low pressure transmitter.
14. Suction line service valve.

Safeties

Control box shall contain the following safeties:

1. High pressure cutout switch.
 2. Low pressure cutout switch.
 3. Circuit breakers for compressor motor overload protection and contactors (manual reset ambient insensitive type).
 4. Thermal overload on each compressor power circuit.
 5. 3-phase control on main power and optionally of each compressor power circuits.
 6. Glycerin filled gauge for demonstrating suction and discharge pressure of each circuit.
 7. Oil level safety switches for compressors to prevent compressors failure due to lubrication `s problems.
- A. Electrical Requirements:
1. Control voltage shall be 400-volt single separate power supply or manufacturer shall supply transformer package to permit 400 volts to be taken directly from unit terminal block.
 2. Unit shall be shipped with factory control and power wiring installed.

Unit Mounted Main Disconnect Switch

MCCB switch shall be furnished to isolate unit main incoming power supply for servicing.

IP54 Control Panel

Control panel with IP54 rating shall be supplied for all working environment as standard.

For the selection of a unit use the performance table and the data tables relative to each unit. For a correct chiller selection, it is also necessary:

1. Observe the functioning limits as pointed out in the chart "Operating Limits"
2. Verify that the chilled water flow is between minimum and maximum values of water flow which are tabled in the "Hydraulic Data" section; a very low flow can cause laminar flow and thus danger of ice formation and poor unit control; a very high flow can cause great pressure drops and the possibility of tube failure inside the evaporator
3. For working temperatures under 5 °C outlet water and 0 °C external air temperature it is necessary to add ethylene glycol or any other antifreeze liquids. Consult the table A.1 "SOLUTIONS OF WATER AND ETHYLENE GLYCOL" to determine the necessary quantity of ethylene glycol, the reduction of cooling capacity, the increase of power absorbed by the compressors, and the increase of evaporator pressure drop occur due to the presence of the ethylene glycol.
4. If the machine has to be installed at an altitude higher than 500 meters, you must calculate the cooling capacity reduction and the increase of power absorbed by the compressor through the coefficients pointed out in the table A.2 "CONDENSER CORRECTION FACTORS"
5. When the difference in temperature between water inlet and outlet is different from 5 °C, the cooling capacity and the absorbed power must be corrected using the table A.3 "CORRECTION FACTORS $\Delta T \neq 5$ °C".
6. If the leaving water temperature (LWT) requirement is greater than 15 C, a mixing loop is required.
7. A high cooler pressure drop can be expected when the cooler delta-T is low. A mixing loop can help to alleviate this situation.
8. A low cooler pressure drop can be expected when cooler delta-T is high.

For instance, selecting a proper unit with the following assumption will be described in 9 steps:

Assumptions:

- Actual capacity; 600 kilowatts
- Design temperature; 46 °C.
- Site altitude; 2000 m.
- Maximum ambient working temperature ;50 °C
- Minimum ambient temperature -5.
- Inlet and outlet evaporator brine temperatures are 12°C and 7°C.

Step 1:

Extract Kc1, Kp1, Kdp1 and KFWE1 from table A.1 in Appendix.

In this case the freezing temperature must be lower than -5°C, so with adding 20% Ethylene Glycol by weight to Water the freezing point will be -8.7°C and refer to table A.1, Kc1=0.99, Kp1=0.99, Kdp1=1.05 and KFWE1=1.06.

Step 2:

Altitude of site is 2000 m. Refer to table A.2; Kc2 and Kp2 will be 0.98 and 1.04 in respect.

Step 3:

Since $\Delta T = 12 - 7 = 5$; Kc3 and Kp3 from table A.3 "CORRECTION FACTORS $\Delta T \neq 5$ °C" are equal to 1.

Step 4:

According to the following equations calculate unit capacity and unit absorbed power in standard condition.

$$Q_{\text{Actual}} = Kc1 * Kc2 * kc3 * Q_{\text{Standard}} \quad (\text{Equation 1})$$

$$P_{\text{Actual}} = Kp1 * Kp2 * kp3 * P_{\text{Standard}} \quad (\text{Equation 2})$$

$$600 = 0.99 * 0.98 * 1 * Q_{\text{Standard}} \quad \text{then } Q_{\text{Standard}} = 600 / 0.97; \quad Q_{\text{Standard}} = 619 \text{ kW.}$$

Acceptable deviation from capacity is 5%, so required unit has to be between 590 kW and 650 kW (590 kW < unit capacity < 650 kW).

Step 5:

Ambient temperature in actual full load is 46°C, so refer to "Performance Data" tables to select proper model.

Step 6:

Since the maximum ambient temperature of operating is 50 °C; select a model from "High Ambient temperature" types.

Refer to "Performance Data" table, ACW20720HPSN unit capacity is 622 kW. So, the actual capacity is $Q_{\text{Actual}} = Kc1 * Kc2 * kc3 * Q_{\text{Standard}} = 0.99 * 0.98 * 1 * 622$

$$Q_{\text{Actual}} = 603.5 \text{ kW}$$

Step 7:

Unit total absorbed power is 260.4 kW. Calculate new absorbed power from Equation 2.

$$P_{\text{Actual}} = 0.99 * 1.04 * 1 * 260.4 \text{ so } P_{\text{Actual}} = 268.1 \text{ kW}$$

Step 8:

Standard model Water Flow Rate will be calculated by Equation 3.

New Water Flow Rate = KFWE1 * Standard Water Flow Rate (Equation 3)

Refer to "Performance Data" table find "Standard Water Flow Rate" which equals to 106.6 (m³/hr.)

$$\text{New Water Flow Rate} = 1.06 * 106.6 = 112 \text{ (m}^3\text{/hr.)}$$

Step 9:

For Calculating Cooler Pressure drop, use Equation 4.

New Pressure Drop = Kdp1 * Standard Pressure Drop (use performance data table.)

$$\text{New Pressure Drop} = 1.05 * 43 = 45.15 \text{ kPa.}$$

Table A.1 SOLUTIONS OF WATER AND ETHYLENE GLYCOL

| SOLUTIONS OF WATER AND ETHYLENE GLYCOL | | % Ethylene Glycol by Weight | | | | | |
|--|-------------------|-----------------------------|------|------|-------|-------|-------|
| | | 0 | 10 | 20 | 30 | 40 | 50 |
| Freezing Tempere | (°C) | 0 | -3.7 | -8.7 | -15.3 | -23.5 | -35.6 |
| Cooling Capacity Correction Factor | Kc1 | 1 | 0.99 | 0.99 | 0.98 | 0.97 | 0.96 |
| Absorbed Power Correction Factor | kp1 | 1 | 1 | 0.99 | 0.99 | 0.98 | 0.98 |
| Pressure Drop Correction Factor | Kdp1 | 1 | 1.02 | 1.05 | 1.07 | 1.1 | 1.13 |
| Water Flow Correction Factor | K _{FWE1} | 1 | 1.03 | 1.06 | 1.09 | 1.12 | 1.15 |

Table A.2 CONDENSER CORRECTION FACTORS

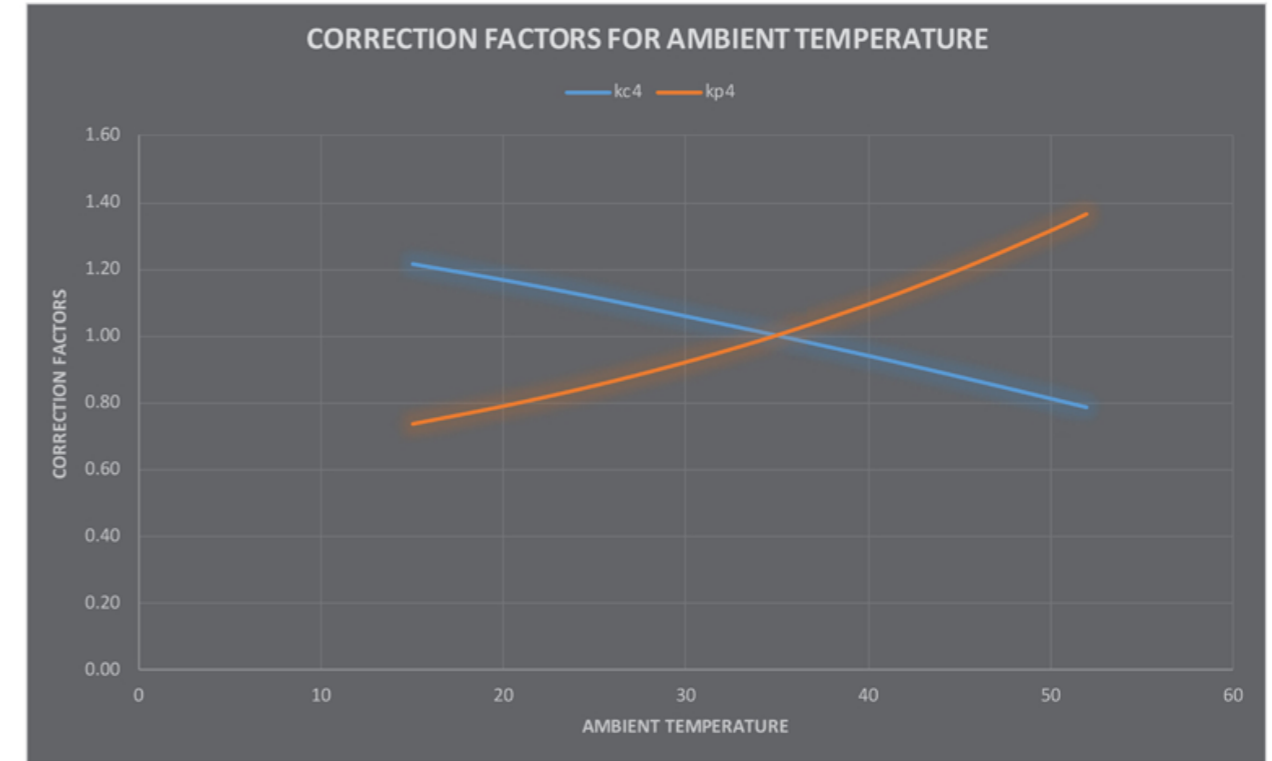
| Condenser Correction Factor | | Altitude (m) | | | | | |
|------------------------------------|-----|--------------|------|------|------|------|------|
| | | 0 | 500 | 1000 | 1500 | 2000 | 2500 |
| Cooling Capacity Correction Factor | Kc2 | 1 | 0.99 | 0.99 | 0.98 | 0.98 | 0.97 |
| Absorbed Power Correction Factor | Kp2 | 1 | 1.01 | 1.02 | 1.03 | 1.04 | 1.05 |

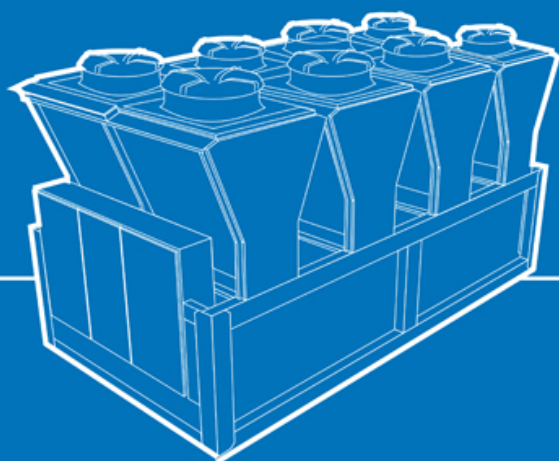
Table A.3 CORRECTION FACTORS $\Delta T \neq 5 \text{ }^\circ\text{C}$

| Correction factor $\Delta T \neq 5 \text{ }^\circ\text{C}$ | | ΔT | | | | | | |
|--|-----|------------|---|------|------|------|------|------|
| | | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Cooling Capacity Correction Factor | Kc3 | 0.99 | 1 | 1.01 | 1.02 | 1.02 | 1.03 | 1.04 |
| Absorbed Power Correction Factor | Kp3 | 1 | 1 | 1 | 1.01 | 1.01 | 1.02 | 1.02 |

Table A.4 CORRECTION FACTORS FOR AMBIENT TEMPERATURE

| Correction factor For Ambient Temperature | | Ambient Temperature | | | | | | | | | |
|---|-----|---------------------|------|------|------|------|------|------|------|------|------|
| | | 15 | 20 | 25 | 30 | 35 | 40 | 43 | 46 | 50 | 52 |
| Cooling Capacity Correction Factor | Kc4 | 1.21 | 1.17 | 1.11 | 1.06 | 1.00 | 0.94 | 0.90 | 0.86 | 0.81 | 0.79 |
| Absorbed Power Correction Factor | Kp4 | 0.73 | 0.79 | 0.85 | 0.92 | 1.00 | 1.09 | 1.15 | 1.22 | 1.31 | 1.36 |





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