

Chiller

Inverter



R513A

R134a



366 to 1241 kW

SYSREW 380-1260 AIR EVO HSE

Air Cooled Water Chillers Cooling Only and Total Heat Recovery
Engineering Data Manual



Features & Strength Points

Environmental respect, constant technological innovation, robust and trustable solutions for heavy-duty use are the leading parameters for our new **SYSCREW AIR EVO HSE** range.

An innovative generation of Systemair Air Cooled Chiller, including the latest technological releases available for the HVAC industry.

- High efficient [inverter driven Screw compressors](#)
- [EC fan motors](#) with quiet acoustic performances and low energy consumption
- Safe and low environmental impact [R513A refrigerant](#)
- [Microchannel coils and pure countercurrent shell & tubes heat exchangers](#), minimizing refrigerant charge, operating weight and maximizing heat transfer performances
- New [programmable controller](#) including a wide range of connectivity options and implementing smart algorithms

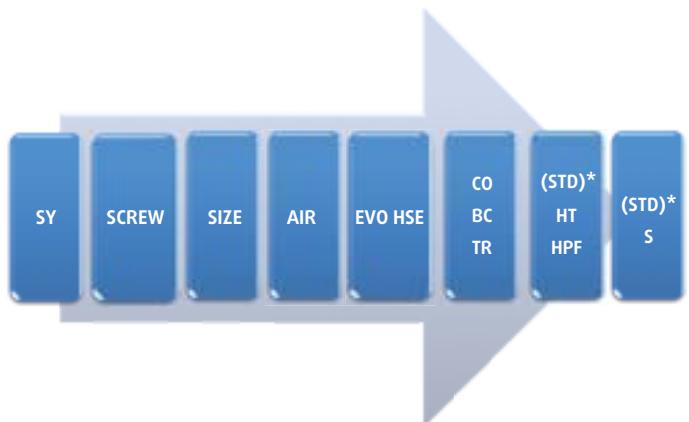
All the available versions are keeping the same basic configuration and including the following features:

- Electronic expansion valve
- Refrigerant pressure and temperature sensors
- Compressors box mounted as standard on all unit versions (with added internal sound proofing layers for the Super Low Noise execution)
- Hydronic pump kit options, variable speed capable, fitted plug & play on board of the unit with several interfacing ways with the plant
- Partial and total heat recovery options

To further extend the field of application following versions are available

- High Temperature (HT) execution to extend the operating temperature map
- High Pressure Fan (HPF) execution to provide additional static pressure air side
- Brine Cooling (BC) execution to allow application with negative temperature brines
- Super low noise (S) execution to reduce noise emission

Specifications



CO = Cooling Only; BC = Brine Cooling; TR = Total Heat Recovery; Version HT = High Temperature; HPF = High Pressure Fans; Version S = Super Low Noise (version S not available for HT and HPF).

* (STD) = standard, not included in the product designation

General

The new range has been designed and optimized to operate either with R513A and R134a refrigerants. Each unit consists of two independent refrigerant circuits with a hybrid combination of one inverter driven variable speed screw compressor and one fixed speed screw compressor. Pure counter-flow shell and tube direct expansion evaporator is equipped with double refrigerant circuit and common hydraulic circuit. The modular condensing section is made with long life aluminium alloy micro-channel coils, and a new optimized fan deck. All the units are equipped with electronic expansion valves, one for each circuit. The units are available in 12 sizes, with a nominal capacity range from 360 to 1240 kW.

Two acoustic options are available:

- **Standard:** The units are equipped with electronically commutated (EC) fan motors, providing quiet acoustic performances and stepless speed control, and a metallic compressors box further reducing the noise emission.
- **Super Low Noise (S):** The units are equipped with electronically commutated (EC) fan motors operating at reduced nominal speed, additional air diffuser further improving acoustic performances in both full and part load operation. Compressor box is equipped with additional acoustic insulation and flexible pipes as well as mufflers on compressor discharge lines.

To increase application field, three additional versions are available:

- **High Temperature (HT):** units are equipped with ventilated compressor box, and more powerful electronically commutated (EC) fan motors to ensure higher air flow rate and extend the operating map of the unit.
- **High Pressure Fans (HPF):** units are equipped with more powerful electronically commutated (EC) fan motors to ensure same air flow rate as the standard unit with additional external static pressure up to 120 [Pa].

- **Brine Cooling (BC):** same equipment as the basic CO version, with customized refrigerant circuit and control setting to extend operating envelope to negative water set-point.

Two heat recovery options are available:

- **Desuperheater (D):** plate type heat exchangers fitted on the compressor discharge line, to recover about 20 % of the total heat rejected to the condensers.
- **Total Heat Recovery (TR):** double circuit shell & tubes heat exchanger to recover the total heat rejected to the condensers. 4-way valves and field installed control sensor are also provided to ensure the cooling/heat recovery mode changeover.

Cabinet and structure

The cabinet is made of heavy gauge galvanized steel. All galvanized steel components are individually painted by a special painting process before the assembly of the unit. This painting system performs a homogeneous protection to the corrosion. The painting is a polyester powder based type, colored in RAL 7040. The units are suitable for outdoor installation, directly on the building roof or at the ground level. All parts of the structure are totally fastened with stainless steel bolts and rivets.

Refrigerant circuits

All the units are composed of two independent and separate refrigerant circuits. Each refrigerant circuit is equipped with discharge line shut-off valves, filter-drier with solid core, sight glass and electronic expansion valve. Some units are equipped with economizer circuit (ECO) to improve cooling capacity and efficiency. The functional diagram of each circuit is shown in the section "Refrigerant flow diagram".

Semi-hermetic screw compressors

The compressors installed in the units are semi-hermetic screw type. The leading compressor is variable speed controlled, integrating frequency inverter, sensors for protection and monitoring and solenoid valves (Vi control and frequency inverter cooling) in a pre-wired package. The inverter driven compressor, in hybrid combination with a step control type screw compressor, perform a continuous capacity control and offer precision in load management and set-point regulation and enhanced seasonal performances. All compressors are fitted with an electronic control system ensuring the following functions:

- Protection against high temperature and excessive load;
- Correct direction of rotation;
- Phase monitoring.

Besides the aforementioned functions, inverter driven compressor is also equipped as standard of the following additional features:

- Frequency inverter cooling (solenoid valve, expansion valve, regulator);
- Low / High pressure transducer;
- Oil level switch;
- V_i slider control for efficiency optimization.

Depending on unit size, step type compressors are supplied with Part-Winding or Star-Delta starting system. Start-Delta starting system is available as option for unit having Part-Winding starting system as standard. Also soft starter is available on request for step type compressors in order to reduce the global value of inrush current.

Evaporator

Evaporator is of a new generation shell and tube, of pure counter flow type heat exchanger. It is insulated with a 19 mm thick closed cell polyethylene foam material and is fitted with an electric heater on the external surface to prevent the unit from freezing at a low temperature (down to -18 °C) when the unit is off.

Water connections of heat exchanger are of Victaulic type supplied with coupling stub pipe to be welded.

Condenser coils

The condenser coils are of microchannel type, made of 100% aluminium (fins, tubes and headers) with the exception of pipe couplings which are in copper. Anti-corrosion protection treatment is available as option.

Condenser fans

For each size, all versions keep the same number of fans. Large diameter, direct drive axial type fans with electronic brushless type motors are used in all available versions. A dedicated version of electronic brushless type with more powerful motor is used on HT and HPF versions, in order to generate higher air flow rate (HT) or additional static pressure up to 120 Pa (HPF).

Fans are equipped with externally mounted nozzle profile housing generating low sound levels.

In super low noise versions (S) an additional air diffuser is mounted on top of each fan motor to further reduce sound power level without compromising unit performances. Thanks to electronic brushless technology, fan speed control function is standard included for all the available ranges, allowing the units to operate in cooling mode at negative ambient temperatures.

Electrical board

The electrical board is located in a metal case arranged outside the unit. The metal case has an IP54 protection rating and is complete with grilles for natural air ventilation.

Electronic control

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

- Management of the operation of compressors:
 - Power on/off
 - Anti-cycle management
 - Unloading for high pressure or high compressor pressure ratio (integrated inside the curves of compressor operating limits).
- Chilled water temperature regulation (control option on inlet water temperature RWT (P+I type) or outlet water temperature LWT (neutral band type) of the evaporator).
- Control of superheating on suction line.
- Evaporator antifreeze protection.
- Management of high and low pressure alarms.
- Management of the compressors on the two circuits.
- Management of the electronic expansion valves by means of EEV controller.
- Management of external interlocks.
- Management of the remote control:
 - Unit power on/off
 - Summary alarm signals
- Remote signalling, by free contacts:
 - Voltage presence.
 - Compressors in operation.
 - Circuit alarm unit.
- Management of the on board hydro kit (fixed / variable speed pumps).
- Management of the heat recovery mode by means of inlet water temperature sensor at the heat recovery condenser.

The unit controller can also clearly show all control parameters of the machine on the liquid crystal display, such as:

- Display of superheating value.
- Display of the temperature at the evaporator inlet and outlet.
- Display of the ambient air temperature.
- Display of the circuit 1 and circuit 2 discharge pressure and suction pressure.

- Display of the set point.
- Display of opening steps of EEV.
- Display of speed control signal (voltage) of fans.
- Display of the various alarm and operation status:
 - Compressor start-up alarm (discharge pressure check).
 - Low / High pressure.
 - Low / High super-heating.
 - Evaporator antifreeze.
 - Flow switch signal for lack of water.
 - 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.
- Safety valve on the discharge line (HP side) set to 22 bar.
- Safety valve on the suction line (LP side) set to 14.5 bar.
- HP switches (double on each circuit) set to 19.7 bar, manual reset to be reinitialized from control board.
- LP switches (one for each circuit) set to 0.5 bar, manual reset to be reinitialized from control board.
- Antifreeze temperature sensor (set to +4°C) on the evaporator.
- Discharge gas temperature protection, on the discharge line of each compressor.

Control:

- HP and LP transducers.
- Evaporator water inlet temperature sensor.
- Evaporator water outlet temperature sensor (with an antifreeze function).
- Suction temperature sensor for EEV control.
- Ambient air temperature sensor.
- Heat recovery condenser temperature sensor.

Conformity with standards

The following applies to all the sizes and versions of units:

- Machine Directive: 2006/42/EC.
- Low Voltage Directive: 2006/95/EC.
- Electromagnetic Compatibility Directive: 2014/30/EU.
- Pressure Equipment Directive: 2014/68/EU.

Standard equipment

- Set point timer/clock card.
- Modbus protocol kit for BMS (RS485).
- Modbus protocol kit for BMS (ETHERNET).
- Fan speed control.
- Back light display.
- Compressor envelope control.
- Double set-point.
- Sequence phase control.

- Electronic expansion valves.
- Compressor part Windings or Star/Delta starting.
- Data logger.
- Power supply without neutral.
- Main switch.
- Refrigerant R513A or R134a.
- PED approval.
- Stepless control
- Evaporator antifreeze electric heater.
- Shell and tube evaporator.
- Compressor box.
- Compressor acoustic box (S version only).
- Water pump acoustic box (S version only).
- Left hand water connection.

Optional hydro kits

[On board hydro kits](#) and [remote hydro kits](#) are available.

On board hydro kits can be supplied with pump(s) only (in standard or high pressure version), while remote hydro kits are always supplied complete with inertial tank and pump(s).

On board hydro kit, located inside the unit, are including following components:

- Single or double pump with low static pressure (100 - 150 [kPa]) or high static pressure (200-250 [kPa]),
- Expansion tank,
- Shut-off valves,
- Safety valve,
- Automatic air vent valve,
- Thermal insulation for pipes and water pump(s),

Water pump(s) are supplied with sound proof box when mounted on S version units.

Different variable speed options (inverter driven) are available to manage water flow rate according differential temperature control, differential pressure control or to set manual speed in phase of commissioning

Factory-installed options

- Bacnet protocol kit for BMS (RS485 or Ethernet).
- Compressor soft starter (valid only for fixed speed compressor).
- Power factor correction capacitors.
- Compressor Star-Delta starting system (valid only for fixed speed compressor having by default part-Winding starting system).
- Mechanical gauges kit.
- Compressor suction valve.
- Compressor liquid injection.
- Compressor oil cooler.
- Compressor oil switch (standard on inverter driven screw compressor).
- Condenser coils with E-Coating.
- Finned tubes coils.
- Chiller grilles.
- Total heat recovery.

- Desuperheater.
- On board hydro kits without buffer tank, with 1 or 2 standard or high pressure pump(s), fixed or variable speed, and relevant accessories.

Field-installed accessories

- Remote ON/OFF control.
- ModBus protocol kit for BMS (RS485 or Ethernet).
- Remote keyboard panel.
- netTune (managing a network of up to 6 units).
- Spring anti-vibration mounts for basic unit.
- Spring anti-vibration mounts for internal hydro kit.
- Flow switch.
- Water filter.
- Differential water pressure transducer.
- Modulating by-pass valve.
- Remote hydro kits with buffer tank, 1 or 2 low or high pressure pump(s), relevant accessories and with or without tank antifreeze heater.

Accessories & Options

| SYSCREW 380-1260 AIR EVO HSE | Delivery | Abbreviation | Description & Benefit |
|--|----------|--------------|--|
| Set point timer/Clock card | Std | CLK | To schedule different interval time with different active water T setpoint. |
| Modbus protocol kit for BMS (RS485) | Std | MBS | It allows the integration of the unit with BMS using Modbus protocol through RS485 port. |
| Modbus protocol kit for BMS (Ethernet) | Std | MBS/ETH | It allows the integration of the unit with BMS using Modbus protocol through Ethernet port (TCP/IP). |
| Fan speed control | Std | FSC | EC brushless fan motors fulfil by default stepless speed control, in accordance with condensing pressure level in relation to cooling load and external ambient temperature. Following benefits are provided: high seasonal efficiency, low noise level, envelope extension. |
| Back light display | Std | | User Display panel mounted. Suggested for outdoor installation. |
| Compressor envelope control | Std | | It allows to protect compressor from operation out of the allowed envelope, acting preventing actions when pressure and temperature sensor are detecting borderline conditions. |
| Double set point | Std | DSP | Can manage two different temperature set-point selected by remote dry contact. |
| Sequence phases control | Std | PHC | It allows to check the correct sense R-S-T of electric supply phases for 400/3/50 units. |
| Electronic expansion valves | Std | EEV | It is the device able to control the refrigerant flow on suction line through a stepper motor in order to keep the superheat as constant as possible. |
| Data logger | Std | DL | Record continuously the essential thermodynamic operating parameters, during the last hours. This facilitates debug and service activity on field. |
| Power supply without neutral | Std | 3PH | Unit to be supplied with 400/3/50. No need of Neutral cable. |
| Antifreeze electric heater kit | Std | EEH | Electrical Heater protects the heat exchanger from freezing. |

Accessories & Options (continued)

| SYSCREW 380-1260 AIR EVO HSE | Delivery | Abbreviation | Description & Benefit |
|--|-----------|--------------|--|
| Stepless control | Std | ICC | It allows to follow continuously capacity load modifications without having sensitive variation on water temperature. Thanks to the control logic this effect can be obtained even combining a multi step fixed screw compressor with an inverter driven compressor. |
| Compressor box | Std | CB | Metal box enclosing screw compressor and offering sound reduction and protection from atmospheric agents. |
| Bacnet protocol kit for BMS (RS485) | Option | BAC | It allows the integration of the unit with BMS using Bacnet protocol through RS485 port. |
| Bacnet protocol kit for BMS (Ethernet) | Option | BAC/ETH | It allows the integration of the unit with BMS using Bacnet protocol through Ethernet port (TCP/IP). |
| Softstarter for compressor | Option | SS | An electronic device that automatically starts up the compressors gradually. The starting current can be reduced by up to 40% of the direct on line value. |
| Power factor corrector capacitors | Option | PFC | The purpose of the power factor corrector capacitor is to minimize the input current distortion and make the current in phase with the voltage. Target is to keep Power Factor about 0,90 in any running condition. |
| Compressor Star Delta Start | Option | SD | It allows to reduce inrush current value in case the default compressor is using motor with Part Winding starting system. |
| Mechanical gauges kit (HP and LP manometers) | Option | KM | Pressure gauges that display the operating pressure in the high and low pressure sections of the refrigerant circuit. |
| Compressor suction valve | Option | CSV | Mounted on the suction port of the compressor, it allows to insulate the compressor from the suction refrigerant line for maintenance purposes. |
| Brine Version | Option | BC | Special Version with dedicate devices on refrigeration system allow the units to operate with brine (ethylenic or propylenic glycol) down to -8°C. |
| Compressor oil switch | Option | OD | It allows to check the proper level of oil inside compressor carter in order to protect from lack of lubrication. Inverter driven screw compressor standard include this device. |
| E-coating MCHX | Option | E-COAT | It is a strong anti-corrosion treatment suitable to protect MCHX coils from medium level of pollution and marine atmosphere. |
| Chiller grilles | Option | KG | Grilles to protect unit avoiding possible intrusion into the unit. |
| Polar Version | Option | PC | Special version with Electronic fans and dedicate devices on refrigeration system allow the units to operate at ambient temperature down to -18°C. |
| Compressor acoustic box | Option | CAB | Compressor box is additional equipped with internal sound layers offering further acoustic reduction. Standard supplied on S (Super Low Noise) versions. |
| Total heat recovery | Option | TR | Additional exchanger in order to recover 100% of the rejected heating capacity, suitable to produce hot water while the unit is generating cooling effect. |
| Desuperheater | Option | D | Additional exchanger in order to recover a portion of the rejected heating capacity, suitable to produce hot water while the unit is generating cooling effect. |
| Remote On/Off control | Accessory | | It enables the operator to power on the unit when it is in standby mode, to display alarms and switch over cooling-heat pump. Maximum length: 50 mt. |
| Remote keyboard panel | Accessory | | Makes it possible to control the unit through the remote terminal, up to a maximum distance of 400 mt of telephone cable. |
| netTune | Accessory | | It allows to pilot a network of up to 6 units operating in parallel, managing load balance, unit rotation and stand-by operation. |
| Spring type AVM | Accessory | AVM | Multi-spring antivibrating kit, sized according the defined weight distribution, providing insulation from vibration. |
| Flow switch | Accessory | FS | Prevents the operation of the unit if the circulating chilled fluid is insufficient. It is recommended to install a flow switch to ensure the correct operation of the unit. |
| Water filter | Accessory | | Filter to remove impurities from the water supply. |

Accessories are supplied loose to be installed on field. Options are factory mounted on board of the unit.

EN 14511

Starting 2012 Campaign Eurovent Certification Company took decision to start certify only performances declared in according severe European Standard EN14511.

BEFORE 2012: GROSS PERFORMANCES

Before this date all capacity performances are declared, measured and certified by Eurovent, as GROSS performances. COOLING or HEATING CAPACITY was rated without taking in account the negative contribution of the heat exchanger Pressure Drop or the positive contribution of the Head Available prevalence in example.

POWER INPUT was rated as pure sum of all power input contribution from all motors fitted on the unit. Without taking in account the correction due to power spent to win the exchanger Pressure Drop in example.

AFTER 2012: NET PERFORMANCES

After this date all data are certified according EN14511. Mainly consequences in example on Water chiller or heatpump are: COOLING or HEATING CAPACITY is now rated taking in account the negative contribution of the heat exchanger Pressure Drop or the positive contribution of the Head Available prevalence in example. In case of Water to Water unit, in example, both exchanger Pressure Drop values are taken in account in the formula.

POWER INPUT is now rated as all power input contribution from all motors fitted on the unit taking in account also the correction due to power spent to win the exchanger Pressure Drop in example.

As an important consequence of these new rules setted by Eurovent is that EER, COP and ESEER are also affected by these correction. All efficiency index are now calculated, measured and certified according new rules setted by Eurovent according EN14511.

Air to water unit (non ducted outdoor):

| | Indoor pump is an integral part | | Indoor pump is not an integral part | |
|----|---------------------------------|--|-------------------------------------|---|
| | ECC 2011 (gross) | EN14511 | ECC 2011 (gross) | EN14511 |
| Ph | $P_{h_m}^{(1)}$ | $P_{h_m} - \frac{q_{wi} \Delta p_{e,wi}}{\eta_{pi}} (IE - h_{pi})$ | P_{h_m} | $P_{h_m} + \frac{q_{wi} (-\Delta p_{i,wi})}{\eta_{pi}} (0,88 - h_{pi})$ |
| Pc | $P_{c_m}^{(1)}$ | $P_{c_m} + \frac{q_{wi} \Delta p_{e,wi}}{\eta_{pi}} (IE - h_{pi})$ | P_{c_m} | $P_{c_m} - \frac{q_{wi} (-\Delta p_{i,wi})}{\eta_{pi}} (0,88 - h_{pi})$ |
| Pe | $P_{e_m}^{(1)}$ | $P_{e_m} - \frac{q_{wi} \Delta p_{e,wi}}{\eta_{pi}}$ | P_{e_m} | $P_{e_m} + \frac{q_{wi} (-\Delta p_{i,wi})}{\eta_{pi}}$ |

(1) Measured with the indoor pump not running.

Where:

Ph = NET heating capacity.

Pc = NET cooling capacity.

Pe = electrical power input.

P_{h_m} = gross heat capacity, expressed in Watts.

P_{c_m} = gross cool capacity, expressed in Watts.

q_{wi} = nominal liquid flow rate.

$\Delta_{pe,wi}$ = measured available external static pressure.

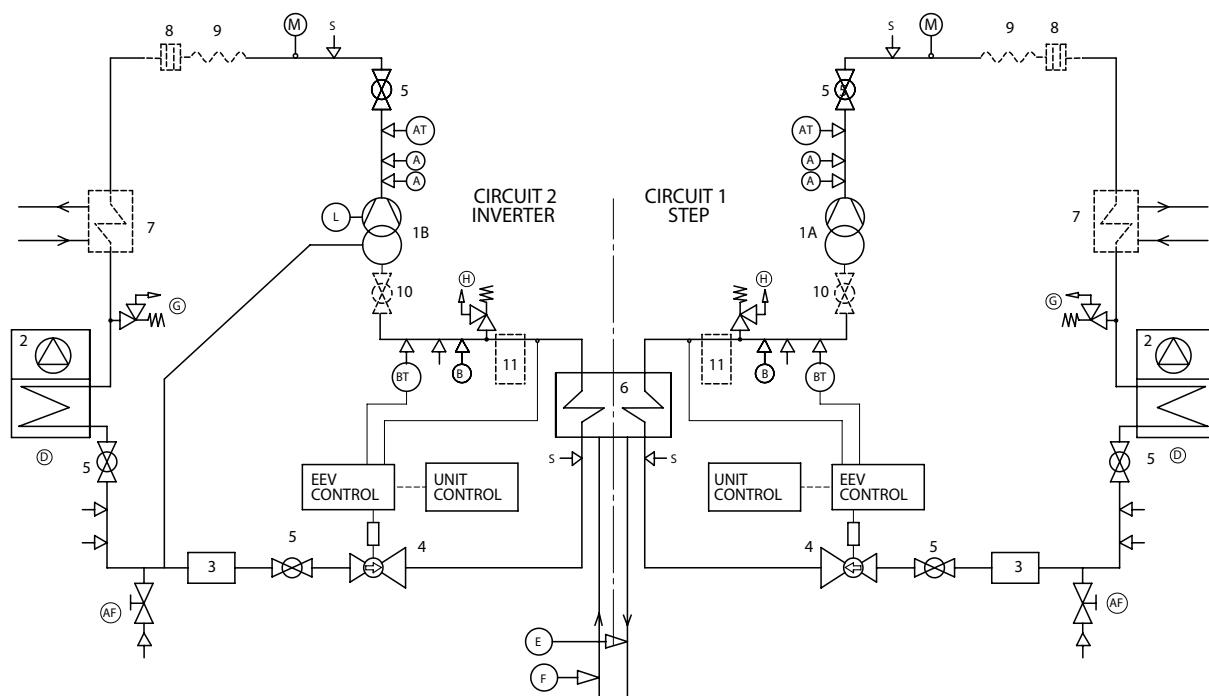
$\Delta_{pi,wi}$ = measured internal static pressure difference.

η_{pi} = efficiency of the pump.

IE = pump motor efficiency.

Reference: Guidelines for the declaration of performances according to EN14511 (available a copy upon request for Systemair customer).

Refrigerant Flow Diagram SYSCREW AIR EVO HSE Sizes 380-510 CO



COMPONENTS

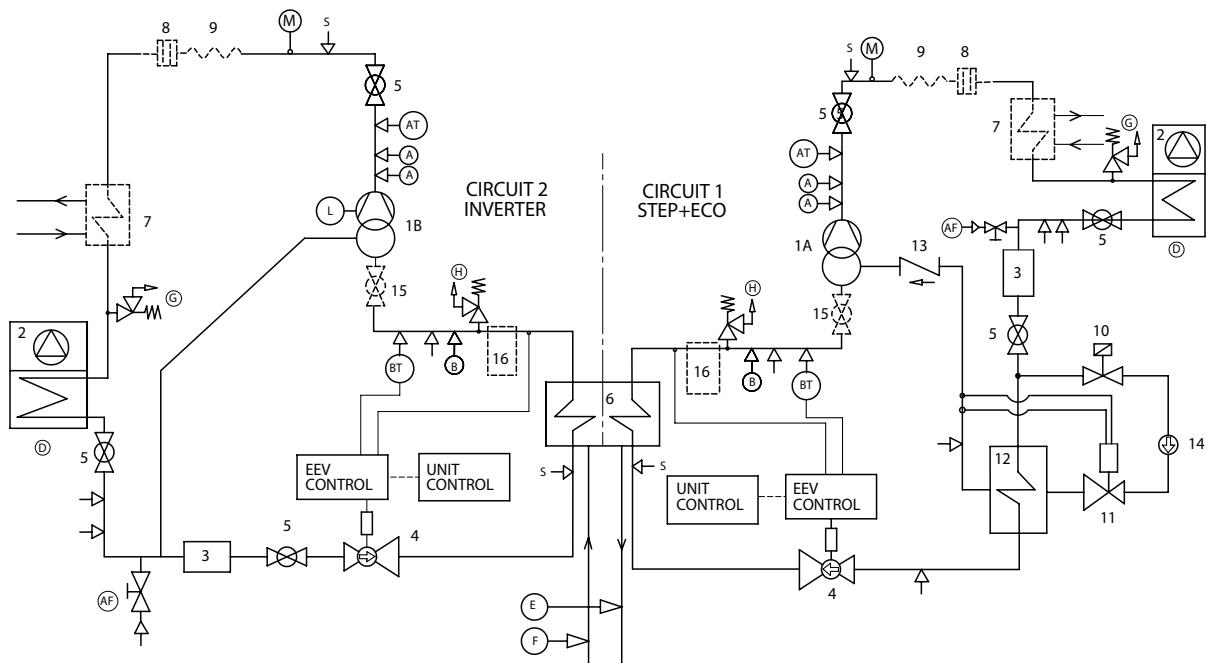
- 1A Compressor (Screw Step type)
- 1B Compressor (Screw Inverter type)
- 2 Air cooled condenser
- 3 Filter drier
- 4 Electronic expansion valve
- 5 Globe valve
- 6 Heat exchanger (Shell & Tube Type)
- 7 Desuperheater (Optional)
- 8 Muffler (Optional)
- 9 Anti-vibration pipe (Optional)
- 10 Suction compressor valve (Optional)
- 11 Suction accumulator (only BC version)

SAFETY/CONTROL DEVICES

- A High pressure switch
- AT High pressure transducer
- B Low pressure switch
- BT Low pressure transducer
- S 5/16" Shrader connection
- D Air temperature sensor
- E Outlet water temperature sensor
- F Inlet water temperature sensor
- G PED pressure relief valve HP side
- H PED pressure relief valve LP side
- M Discharge temperature sensor
- AF Access fitting SAE FLARE 3/8"
- ↓ Pressure Pipe connection with Shrader valve

Refrigerant Flow Diagram SYSCREW AIR EVO HSE

Sizes 440-590-660-730-810-900-980-1060-1160 CO



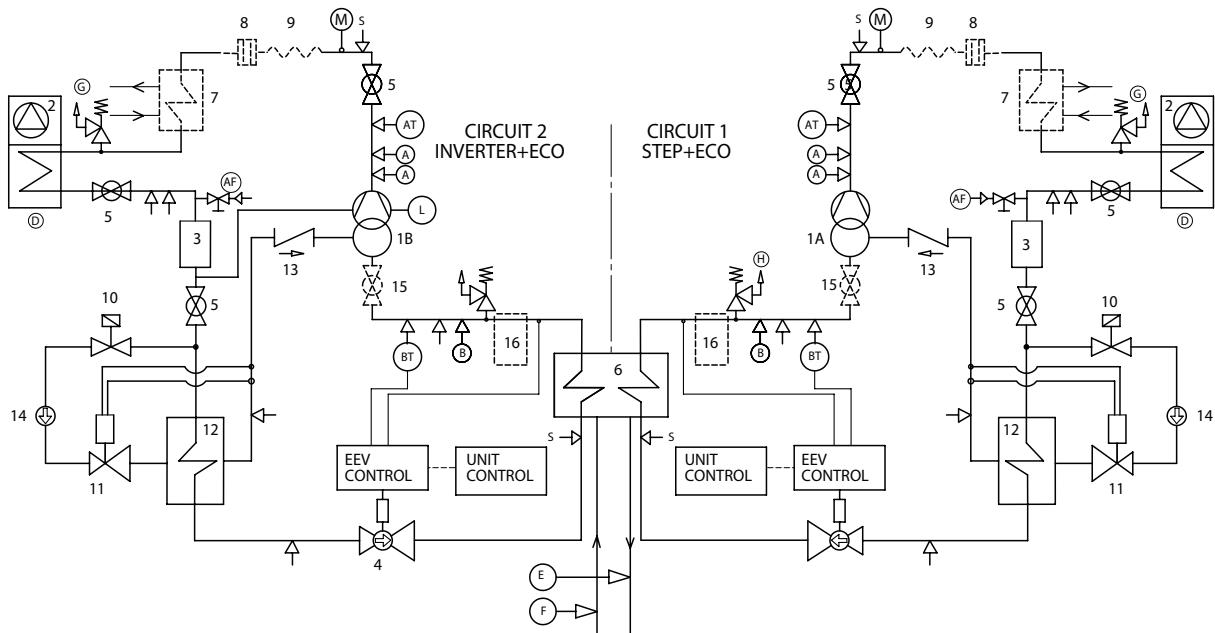
COMPONENTS

- 1A Compressor (Screw Step type)
- 1B Compressor (Screw Inverter type)
- 2 Air cooled condenser
- 3 Filter drier
- 4 Electronic expansion valve
- 5 Globe valve
- 6 Heat exchanger (Shell & Tube Type)
- 7 Desuperheater (Optional)
- 8 Muffler (Optional)
- 9 Anti-vibration pipe (Optional)
- 10 Solenoid valve (ECO)
- 11 Thermostatic expansion valve (ECO)
- 12 Heat exchanger (Phetype) (ECO)
- 13 Non return valve (ECO)
- 14 Sight glass (ECO)
- 15 Suction compressor valve (Optional)
- 16 Suction accumulator (only BC version)

SAFETY/CONTROL DEVICES

- A High pressure switch
- AT High pressure transducer
- B Low pressure switch
- BT Low pressure transducer
- S 5/16" Shrader connection
- D Air temperature sensor
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- F Inlet water temperature sensor
- G PED pressure relief valve HP side
- H PED pressure relief valve LP side
- M Discharge temperature sensor
- AF Access fitting SAE FLARE 3/8"
- L Oil level switch
- ↓ Pressure Pipe connection with Shrader valve

Refrigerant Flow Diagram SYSCREW AIR EVO HSE Sizes 1260 CO



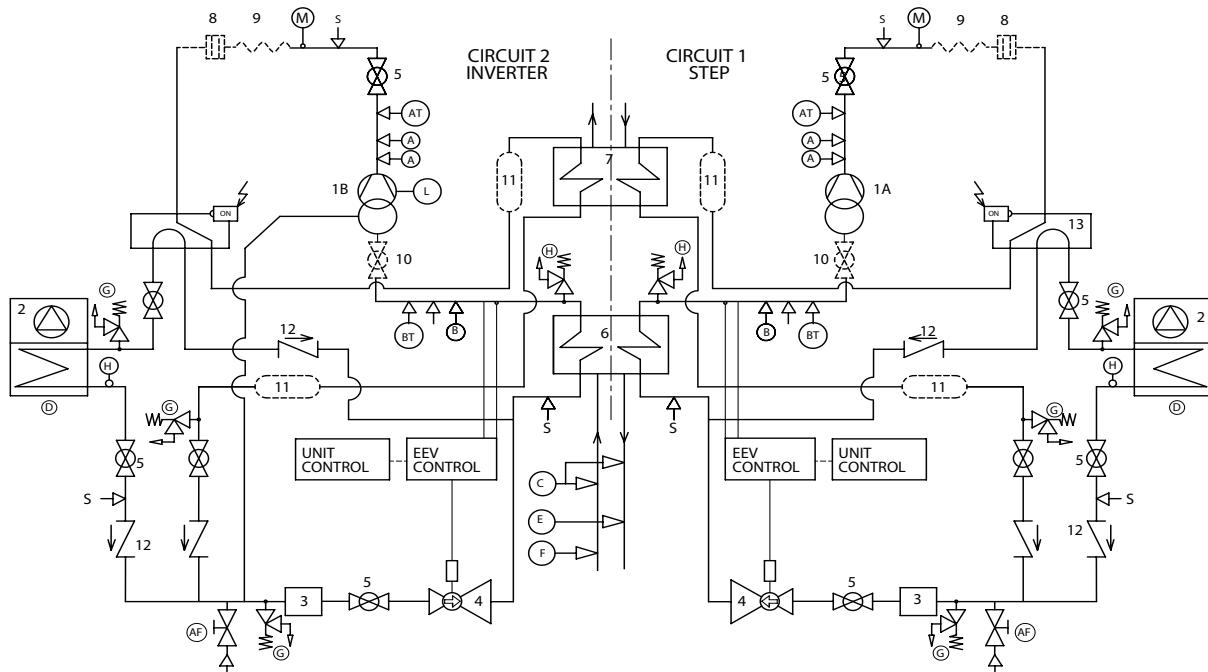
COMPONENTS

- 1A Compressor (Screw Step type)
- 1B Compressor (Screw Inverter type)
- 2 Air cooled condenser
- 3 Filter drier
- 4 Electronic expansion valve
- 5 Globe valve
- 6 Heat exchanger (Shell & Tube Type)
- 7 Desuperheater (Optional)
- 8 Muffler (Optional)
- 9 Anti-vibration pipe (Optional)
- 10 Solenoid valve (ECO)
- 11 Thermostatic expansion valve (ECO)
- 12 Heat exchanger (Phetyp) (ECO)
- 13 Non return valve (ECO)
- 14 Sight glass (ECO)
- 15 Suction compressor valve (Optional)
- 16 Suction accumulator (only BC version)

SAFETY/CONTROL DEVICES

- A High pressure switch
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- B Low pressure switch
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- E Outlet water temperature sensor
- F Inlet water temperature sensor
- G PED pressure relief valve HP side
- H PED pressure relief valve LP side
- M Discharge temperature sensor
- AF Access fitting SAE FLARE 3/8"
- L Oil level switch
- ↓ Pressure Pipe connection with Shrader valve

Refrigerant Flow Diagram SYSCREW AIR EVO HSE Sizes 380-510 TR



COMPONENTS

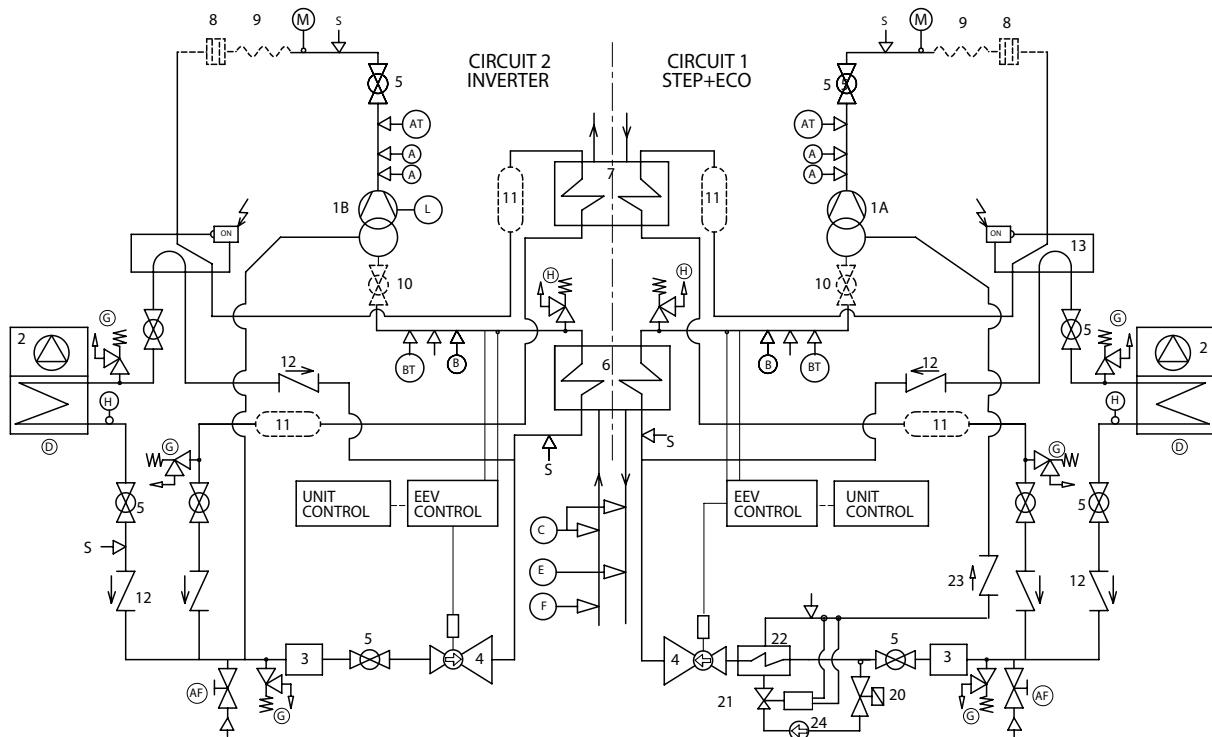
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- 2 Air cooled condenser
- 3 Filter drier
- 4 Electronic expansion valve
- 5 Globe valve
- 6 Heat exchanger (Shell & Tube Type)
- 7 Heat recover (Shell & Tube Type)
- 8 Muffler (Optional)
- 9 Anti-vibration pipe (Optional)
- 10 Suction compressor valve (Optional)
- 11 Liquid receiver
- 12 Check valve
- 13 4-way valve

SAFETY/CONTROL DEVICES

- A High pressure switch
- AT High pressure transducer
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- BT Low pressure transducer
- S 5/16" Shrader connection
- D Air temperature sensor
- E Outlet water temperature sensor
- F Inlet water temperature sensor
- G PED pressure relief valve HP side
- H PED pressure relief valve LP side
- M Discharge temperature sensor
- AF Access fitting SAE FLARE 3/8"
- L Oil level switch
- ↓ Pressure Pipe connection with Shrader valve

Refrigerant Flow Diagram SYSCREW AIR EVO HSE

Sizes 440-590-660 TR



COMPONENTS

- 1A Compressor (Screw Step type)
- 1B Compressor (Screw Inverter type)
- 2 Air cooled condenser
- 3 Filter drier
- 4 Electronic expansion valve
- 5 Globe valve
- 6 Heat exchanger (Shell & Tube Type)
- 7 Heat recover (Shell & Tube Type)
- 8 Muffler (Optional)
- 9 Anti-vibration pipe (Optional)
- 10 Suction compressor valve (Optional)
- 11 Liquid receiver
- 12 Check valve
- 13 4-way valve
- 20 Solenoid valve (ECO)
- 21 Thermostatic expansion valve (ECO)
- 22 Heat exchanger (Phetyp) (ECO)
- 23 Non return valve (ECO)
- 24 Sight glass (ECO)

SAFETY/CONTROL DEVICES

- A High pressure switch
- AT High pressure transducer
- B Low pressure switch
- BT Low pressure transducer
- S 5/16" Shrader connection
- D Air temperature sensor
- E Outlet water temperature sensor
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- G PED pressure relief valve HP side
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- M Discharge temperature sensor
- AF Access fitting SAE FLARE 3/8"
- L Oil level switch
- ↓ Pressure Pipe connection with Shrader valve

Correction Factors

Fouling factors

| EVAPORATOR | | | CONDENSER | | |
|---|----------------------------|-----------------------|---|----------------------------|-----------------------|
| Fouling factor (m ² .°C/kW) | Cooling capacity factor | Power input factor | Fouling factor (m ² .°C/kW) | Cooling capacity factor | Power input factor |
| 0,044 | 1,000 | 1,000 | 0,044 | 1,000 | 1,000 |
| 0,088 | 0,987 | 0,995 | 0,088 | 0,987 | 1,023 |
| 0,176 | 0,964 | 0,985 | 0,176 | 0,955 | 1,068 |
| 0,352 | 0,915 | 0,962 | 0,352 | 0,910 | 1,135 |

Altitude factors

| Altitude (m) | Cooling capacity factor | Power input factor |
|--------------|-------------------------|--------------------|
| 0 | 1,000 | 1,000 |
| 600 | 0,987 | 1,010 |
| 1.200 | 0,973 | 1,020 |
| 1.800 | 0,958 | 1,029 |
| 2.400 | 0,943 | 1,038 |

System Water Volume

The minimum system water volume is calculated using [the following formula](#):

$$V_{\min} = \text{Cap} \times \text{MinCapStep} \times 28,8$$

Where [Cap](#): Nominal Unit Capacity [kW] at conditions of installation

[MinCapStep](#): Minimum unit capacity step [%] shown in Table 7

If the application is a process cooling type, the minimum system chilled water volume is generally higher than above recommended.

Operating Limits

| SYSCREW 380-1260 AIR EVO HSE | | | 380 | | 450 | | 510 | | 590 | | |
|--|---------------------------|--|------|-------------------------------------|-------|-----|-------|-----|-------|-----|--|
| | | | Min | Max | Min | Max | Min | Max | Min | Max | |
| Chilled liquid | Leaving water temperature | Water | °C | from +5 to +15 | | | | | | | |
| | | Brine (brine application) ¹ | °C | from -8 to 0 | | | | | | | |
| | | Brine (std application) ² | °C | from 0 to +5 | | | | | | | |
| | | Temperature spread | K | from +8 to +3 | | | | | | | |
| Ambient | Air entering temperature | Flow rate ³ | mc/h | 39 | 105 | 48 | 127 | 54 | 144 | 61 | |
| | | Pressure drop ³ | kPa | 7 | 48 | 9 | 67 | 7 | 51 | 9 | |
| | | Maximum operating pressure | bar | 10 | | | | | | | |
| | | Cooling | °C | from -10 to +46 | | | | | | | |
| Ambient | External static pressure | Cooling (S) | °C | from -10 to +44 | | | | | | | |
| | | Cooling (HT) | °C | from -10 to +49 | | | | | | | |
| | | Minimum ext. air | °C | -10 | -10 | | -10 | | -10 | | |
| | | Standard fans | Pa | 0 | | | | | | | |
| Recommended system chilled water volume ⁴ | | | I | 2.345 | 2.345 | | 2.345 | | 2.345 | | |
| Minimum capacity step | | | % | 22 | 18 | | 16 | | 14 | | |
| Power supply voltage | | | V | 400 V +/-10%, 3 Ø, 50 Hz (nominal)* | | | | | | | |

| SYSCREW 380-1260 AIR EVO HSE | | | 660 | | 730 | | 810 | | 900 | | |
|--|---------------------------|--|------|-------------------------------------|-------|-----|-------|-----|-------|-----|--|
| | | | Min | Max | Min | Max | Min | Max | Min | Max | |
| Chilled liquid | Leaving water temperature | Water | °C | from +5 to +15 | | | | | | | |
| | | Brine (brine application) ¹ | °C | from -8 to 0 | | | | | | | |
| | | Brine (std application) ² | °C | from 0 to +5 | | | | | | | |
| | | Temperature spread | K | from +8 to +3 | | | | | | | |
| Ambient | Air entering temperature | Flow rate ³ | mc/h | 69 | 185 | 76 | 202 | 84 | 224 | 97 | |
| | | Pressure drop ³ | kPa | 12 | 85 | 12 | 82 | 14 | 100 | 8 | |
| | | Maximum operating pressure | bar | 10 | | | | | | | |
| | | Cooling | °C | from -10 to +46 | | | | | | | |
| Ambient | External static pressure | Cooling (S) | °C | from -10 to +44 | | | | | | | |
| | | Cooling (HT) | °C | from -10 to +49 | | | | | | | |
| | | Minimum ext. air | °C | -10 | -10 | | -10 | | -10 | | |
| | | Standard fans | Pa | 0 | | | | | | | |
| Recommended system chilled water volume ⁴ | | | I | 2.345 | 3.040 | | 3.040 | | 3.659 | | |
| Minimum capacity step | | | % | 13 | 15 | | 13 | | 14 | | |
| Power supply voltage | | | V | 400 V +/-10%, 3 Ø, 50 Hz (nominal)* | | | | | | | |

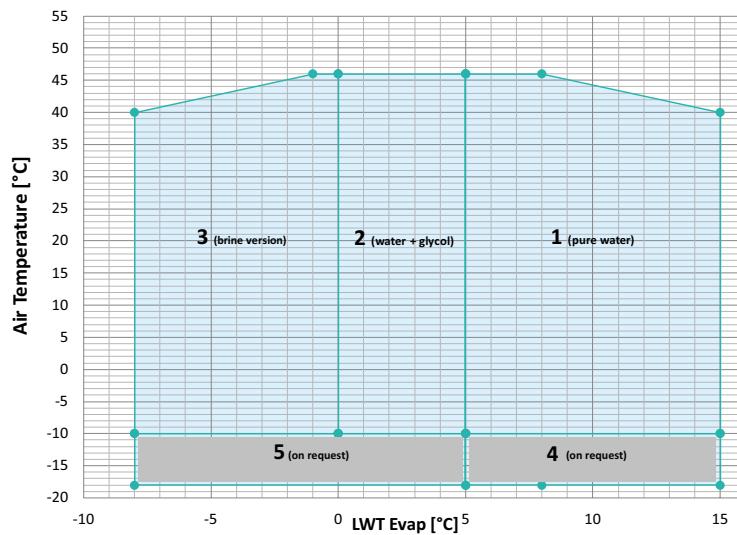
| SYSCREW 380-1260 AIR EVO HSE | | | 980 | | 1060 | | 1160 | | 1260 | | |
|--|---------------------------|--|------|-------------------------------------|-------|-----|-------|-----|-------|-----|--|
| | | | Min | Max | Min | Max | Min | Max | Min | Max | |
| Chilled liquid | Leaving water temperature | Water | °C | from +5 to +15 | | | | | | | |
| | | Brine (brine application) ¹ | °C | from -8 to 0 | | | | | | | |
| | | Brine (std application) ² | °C | from 0 to +5 | | | | | | | |
| | | Temperature spread | K | from +8 to +3 | | | | | | | |
| Ambient | Air entering temperature | Flow rate ³ | mc/h | 106 | 282 | 113 | 301 | 124 | 332 | 134 | |
| | | Pressure drop ³ | kPa | 9 | 66 | 11 | 77 | 13 | 93 | 13 | |
| | | Maximum operating pressure | bar | 10 | | | | | | | |
| | | Cooling | °C | from -10 to +46 | | | | | | | |
| Ambient | External static pressure | Cooling (S) | °C | from -10 to +44 | | | | | | | |
| | | Cooling (HT) | °C | from -10 to +49 | | | | | | | |
| | | Minimum ext. air | °C | -10 | -10 | | -10 | | -10 | | |
| | | Standard fans | Pa | 0 | | | | | | | |
| Recommended system chilled water volume ⁴ | | | I | 3.659 | 4.078 | | 4.078 | | 4.078 | | |
| Minimum capacity step | | | % | 13 | 14 | | 12 | | 11 | | |
| Power supply voltage | | | V | 400 V +/-10%, 3 Ø, 50 Hz (nominal)* | | | | | | | |

¹ Dedicated evaporator (BC unit) and additional devices.² Standard evaporator (CO/TR unit).³ Total unit flow rate and pressure drop are given for standard evaporator (CO/TR unit).⁴ Minimum water contents at normal air conditioning applications.

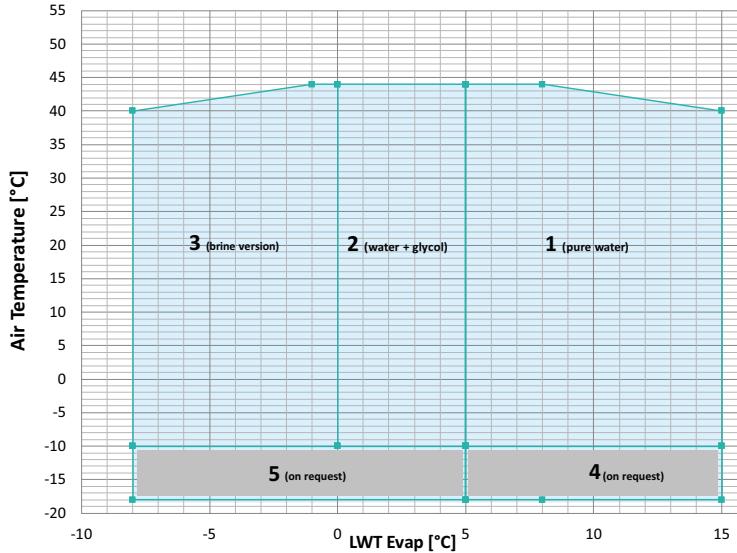
* Voltage supply tolerances: +/- 10% of the nominal Voltage (400V) for short term application; +/- 5% of the nominal Voltage (400V) for continuous application

Operating Limits

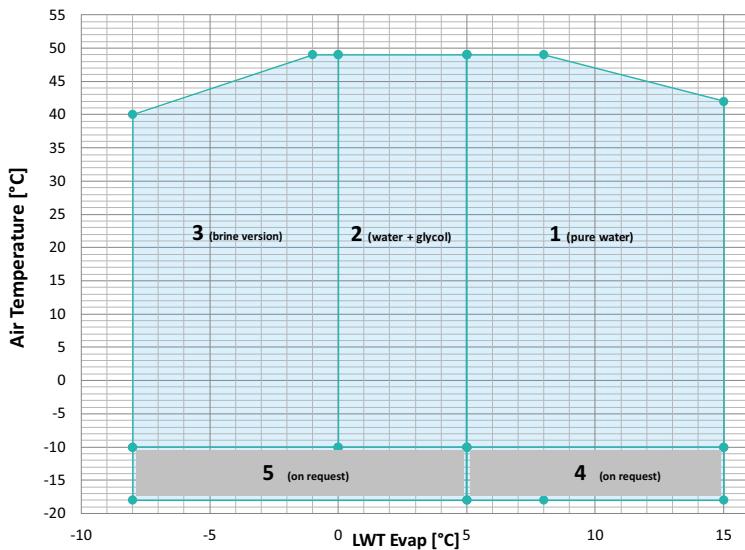
STD Version



S Version



HT Version



Technical Data - SYSCREW AIR EVO HSE R134a (STD/HT/HPF)

| Model | | 380 | 440 | 510 | 590 | 660 | 730 |
|---|-------------------|----------|----------|--------------------------------------|----------|----------|----------|
| Nominal cooling capacity ¹ | kW | 362,0 | 438,6 | 495,2 | 560,2 | 637,1 | 697,3 |
| Input power ¹ | kW | 120,1 | 139,2 | 159,7 | 175,5 | 199,8 | 221,5 |
| EER ¹ / Energy Efficiency Class | | 3,01/B | 3,15/A | 3,10/A | 3,19/A | 3,19/A | 3,15/A |
| EER _{CONDITION B} (74%) | | 4,04 | 4,10 | 4,08 | 4,11 | 4,02 | 4,04 |
| EER _{CONDITION C} (47%) | | 4,78 | 4,91 | 4,94 | 5,07 | 4,85 | 4,75 |
| EER _{CONDITION D} (21%) | | 6,24 | 6,41 | 6,43 | 6,77 | 6,74 | 6,34 |
| SEER ² | | 4,63 | 4,74 | 4,75 | 4,88 | 4,75 | 4,65 |
| η _{s,c} ² | % | 182 | 187 | 187 | 192 | 187 | 183 |
| Number of refrigerant circuits | | | | | 2 | | |
| Total capacity steps* | % | 22%÷100% | 18%÷100% | 16%÷100% | 14%÷100% | 13%÷100% | 15%÷100% |
| Compressor | | | | | | | |
| Number/ Type | | | | 2 / 1 variable speed + 1 fixed speed | | | |
| Nº of loading stages | | | | Continuous capacity control | | | |
| Evaporator | | | | | | | |
| Number/ Type | | | | 1/Shell&Tube | | | |
| Water flow | m ³ /h | 62,4 | 75,6 | 85,3 | 96,5 | 109,9 | 120,2 |
| Pressure drop | kPa | 17 | 24 | 18 | 24 | 30 | 29 |
| Water volume | l | 149 | 142 | 246 | 246 | 228 | 276 |
| Antifreeze Heater | W | 200 | 200 | 300 | 300 | 300 | 300 |
| Air cooled condenser | | | | | | | |
| Number of coils | | 8 | 10 | 10 | 12 | 14 | 14 |
| Total coil face area per coil | m ² | | | 2,3 | | | |
| Fans | | | | | | | |
| Number of fans | | 8 | 10 | 10 | 12 | 14 | 14 |
| Nominal speed | rpm | 900 | 900 | 900 | 900 | 900 | 900 |
| Total airflow | m ³ /h | 183.960 | 230.040 | 230.040 | 276.120 | 321.840 | 321.840 |
| Total input power | kW | 12,0 | 15,0 | 15,0 | 18,0 | 21,0 | 21,0 |
| Total input power** | kW | 20,5 | 25,6 | 25,6 | 30,7 | 35,8 | 35,8 |
| Total input power*** | kW | 24,0 | 30,0 | 30,0 | 36,0 | 42,0 | 42,0 |
| External static pressure*** | Pa | | | 0 - 120 Pa | | | |
| Water Connections (Evaporator) | | | | | | | |
| Type | | | | Victaulic | | | |
| Inlet Diameter/Outlet Diameter | inch | 6/6 | 6/6 | 8/8 | 8/8 | 8/8 | 8/8 |
| Water Connections (Desuperheater) | | | | | | | |
| Type | | | | Male GAS Threaded | | | |
| Inlet Diameter/Outlet Diameter | inch | 2"/2" | 2"/2" | 2"/2" | 2"/2" | 2"/2" | 2"/2" |
| Weight | | | | | | | |
| Shipping | kg | 3.747 | 4.117 | 4.651 | 4.995 | 5.392 | 5.931 |
| Operating | kg | 3.896 | 4.259 | 4.897 | 5.241 | 5.620 | 6.207 |
| Additional weight | | | | | | | |
| Desuperheater versions | kg | 76 | 86 | 100 | 100 | 114 | 114 |
| Dimensions | | | | | | | |
| Length | mm | 4.660 | 5.712 | 5.712 | 6.764 | 7.816 | 7.816 |
| Width | mm | 2.192 | 2.192 | 2.192 | 2.192 | 2.192 | 2.192 |
| Height | mm | 2.510 | 2.510 | 2.510 | 2.510 | 2.510 | 2.510 |
| Acoustic Data | | | | | | | |
| Sound power level ³ | dB(A) | 97 | 98 | 100 | 100 | 100 | 101 |
| Sound power level ^{3**/***} | dB(A) | 102 | 103 | 104 | 104 | 104 | 105 |
| Sound pressure level at 10 m ⁴ | dB(A) | 65 | 66 | 68 | 68 | 68 | 68 |
| Sound pressure level at 10 m ^{4**/***} | dB(A) | 70 | 71 | 72 | 72 | 72 | 72 |

¹ Data refers to 7°C leaving chilled water temperature and 35°C condenser air temperature, according EN14511 standard

² According to commission regulation (EU) N° 2281/2016 for comfort chillers

³ Sound levels are at fully loaded conditions. Sound power level values refer to ISO standard 3744

⁴ Sound pressure levels refer to ISO Standard 3744, parallelepiped shape

* This value can change for BC version or other special applications

** High Temperature Units (HT), data with fans at max speed (1100 Rpm)

*** HPF Units, data with fans at max speed (1100 Rpm)

| Model | | 810 | 900 | 980 | 1060 | 1160 | 1260 |
|--|-------------------|----------|----------|--------------------------------------|----------|----------|----------|
| Nominal cooling capacity ¹ | kW | 770,4 | 888,1 | 973,8 | 1037,1 | 1142,6 | 1228,2 |
| Input power ¹ | kW | 245,6 | 281,2 | 312,3 | 321,7 | 358,9 | 395,5 |
| EER ¹ / Energy Efficiency Class | | 3,14/A | 3,16/A | 3,12/A | 3,22/A | 3,18/A | 3,11/A |
| EER _{CONDITION B} (74%) | | 3,96 | 3,89 | 3,99 | 4,20 | 4,23 | 4,28 |
| EER _{CONDITION C} (47%) | | 4,83 | 4,77 | 4,80 | 5,03 | 5,16 | 5,12 |
| EER _{CONDITION D} (21%) | | 6,69 | 6,39 | 6,33 | 6,81 | 6,84 | 6,81 |
| SEER ² | | 4,71 | 4,63 | 4,66 | 4,91 | 4,96 | 4,94 |
| η _{s,c} ² | % | 185 | 182 | 183 | 193 | 195 | 195 |
| Number of refrigerant circuits | | | | | 2 | | |
| Total capacity steps* | % | 13%÷100% | 14%÷100% | 13%÷100% | 17%÷100% | 15%÷100% | 14%÷100% |
| Compressor | | | | | | | |
| Number/ Type | | | | 2 / 1 variable speed + 1 fixed speed | | | |
| Nº of loading stages | | | | Continuous capacity control | | | |
| Evaporator | | | | | | | |
| Number/ Type | | | | 1/Shell&Tube | | | |
| Water flow | m ³ /h | 132,9 | 153,0 | 167,8 | 178,7 | 197,0 | 211,7 |
| Pressure drop | kPa | 36 | 21 | 23 | 26 | 32 | 32 |
| Water volume | l | 276 | 379 | 367 | 356 | 356 | 431 |
| Antifreeze Heater | W | 300 | 300 | 300 | 300 | 300 | 300 |
| Air cooled condenser | | | | | | | |
| Number of coils | | 16 | 18 | 20 | 22 | 24 | 24 |
| Total coil face area per coil | m ² | | | 2,3 | | | |
| Fans | | | | | | | |
| Number of fans | | 16 | 18 | 20 | 22 | 24 | 24 |
| Nominal speed | rpm | 900 | 900 | 900 | 900 | 900 | 900 |
| Total airflow | m ³ /h | 367.920 | 414.000 | 460.080 | 506.160 | 552.240 | 552.240 |
| Total input power | kW | 24,0 | 27,0 | 30,0 | 33,0 | 36,0 | 36,0 |
| Total input power** | kW | 41,0 | 46,1 | 51,2 | 56,3 | 61,4 | 61,4 |
| Total input power*** | kW | 48,0 | 54,0 | 60,0 | 66,0 | 72,0 | 72,0 |
| External static pressure*** | Pa | | | 0 - 120 Pa | | | |
| Water Connections (Evaporator) | | | | | | | |
| Type | | | | Victaulic | | | |
| Inlet Diameter/Outlet Diameter | inch | 8/8 | 8/8 | 10/10 | 10/10 | 10/10 | 10/10 |
| Water Connections (Desuperheater) | | | | | | | |
| Type | | | | Male GAS Threaded | | | |
| Inlet Diameter/Outlet Diameter | inch | 2"/2" | 2"/2" | 2"/2" | 2"/2" | 2"/2" | 2"/2" |
| Weight | | | | | | | |
| Shipping | kg | 6.255 | 6.947 | 7.397 | 8.124 | 8.508 | 8.643 |
| Operating | kg | 6.531 | 7.326 | 7.764 | 8.491 | 8.875 | 9.074 |
| Additional weight | | | | | | | |
| Desuperheater versions | kg | 147 | 147 | 180 | 180 | 216 | 216 |
| Dimensions | | | | | | | |
| Length | mm | 8.868 | 9.920 | 10.972 | 12.024 | 13.076 | 13.076 |
| Width | mm | 2.192 | 2.192 | 2.192 | 2.192 | 2.192 | 2.192 |
| Height | mm | 2.510 | 2.510 | 2.510 | 2.510 | 2.510 | 2.510 |
| Acoustic Data | | | | | | | |
| Sound power level ³ | dB(A) | 101 | 102 | 102 | 103 | 103 | 103 |
| Sound power level ^{3***/***} | dB(A) | 105 | 106 | 106 | 107 | 108 | 108 |
| Sound pressure level at 10 m ⁴ | dB(A) | 68 | 69 | 69 | 70 | 70 | 70 |
| Sound pressure level at 10 m ^{4***/***} | dB(A) | 72 | 73 | 73 | 74 | 75 | 75 |

¹ Data refers to 7°C leaving chilled water temperature and 35°C condenser air temperature, according EN14511 standard² According to commission regulation (EU) N° 2281/2016 for comfort chillers³ Sound levels are at fully loaded conditions. Sound power level values refer to ISO standard 3744⁴ Sound pressure levels refer to ISO Standard 3744, parallelepiped shape

* This value can change for BC version or other special applications

** High Temperature Units (HT), data with fans at max speed (1100 Rpm)

*** HPF Units, data with fans at max speed (1100 Rpm)

Technical Data - SYSCREW AIR EVO HSE R513A (STD/HT/HPF)

| Model | | 380 | 440 | 510 | 590 | 660 | 730 |
|--|-------------------|----------|----------|--------------------------------------|----------|----------|----------|
| Nominal cooling capacity ¹ | kW | 365,7 | 443,0 | 500,2 | 565,8 | 643,5 | 704,3 |
| Input power ¹ | kW | 123,9 | 142,9 | 165,6 | 181,1 | 206,2 | 228,6 |
| EER ¹ / Energy Efficiency Class | | 2,95/B | 3,10/A | 3,02/B | 3,12/A | 3,12/A | 3,08/B |
| EER _{CONDITION B} (74%) | | 3,95 | 4,01 | 3,99 | 4,02 | 3,93 | 3,95 |
| EER _{CONDITION C} (47%) | | 4,66 | 4,81 | 4,81 | 5,03 | 4,76 | 4,66 |
| EER _{CONDITION D} (21%) | | 6,14 | 6,31 | 6,33 | 6,65 | 6,62 | 6,23 |
| SEER ² | | 4,53 | 4,66 | 4,65 | 4,80 | 4,66 | 4,56 |
| η _{s,c} ² | % | 178 | 183 | 183 | 189 | 183 | 179 |
| Number of refrigerant circuits | | | | | 2 | | |
| Total capacity steps ³ | % | 22%÷100% | 18%÷100% | 16%÷100% | 14%÷100% | 13%÷100% | 15%÷100% |
| Compressor | | | | | | | |
| Number/ Type | | | | 2 / 1 variable speed + 1 fixed speed | | | |
| Nº of loading stages | | | | Continuous capacity control | | | |
| Evaporator | | | | | | | |
| Number/ Type | | | | 1/Shell&Tube | | | |
| Water flow | m ³ /h | 63,0 | 76,4 | 86,2 | 97,5 | 111,0 | 121,4 |
| Pressure drop | kPa | 17 | 24 | 19 | 24 | 31 | 30 |
| Water volume | l | 149 | 142 | 246 | 246 | 228 | 276 |
| Antifreeze Heater | W | 200 | 200 | 300 | 300 | 300 | 300 |
| Air cooled condenser | | | | | | | |
| Number of coils | | 8 | 10 | 10 | 12 | 14 | 14 |
| Total coil face area per coil | m ² | | | 2,3 | | | |
| Fans | | | | | | | |
| Number of fans | | 8 | 10 | 10 | 12 | 14 | 14 |
| Nominal speed | rpm | 900 | 900 | 900 | 900 | 900 | 900 |
| Total airflow | m ³ /h | 183.960 | 230.040 | 230.040 | 276.120 | 321.840 | 321.840 |
| Total input power | kW | 12,0 | 15,0 | 15,0 | 18,0 | 21,0 | 21,0 |
| Total input power ^{**} | kW | 20,5 | 25,6 | 25,6 | 30,7 | 35,8 | 35,8 |
| Total input power ^{***} | kW | 24,0 | 30,0 | 30,0 | 36,0 | 42,0 | 42,0 |
| External static pressure ^{***} | Pa | | | 0 - 120 Pa | | | |
| Water Connections (Evaporator) | | | | | | | |
| Type | | | | Victaulic | | | |
| Inlet Diameter/Outlet Diameter | inch | 6/6 | 6/6 | 8/8 | 8/8 | 8/8 | 8/8 |
| Water Connections (Desuperheater) | | | | | | | |
| Type | | | | Male GAS Threaded | | | |
| Inlet Diameter/Outlet Diameter | inch | 2"/2" | 2"/2" | 2"/2" | 2"/2" | 2"/2" | 2"/2" |
| Weight | | | | | | | |
| Shipping | kg | 3.747 | 4.117 | 4.651 | 4.995 | 5.392 | 5.931 |
| Operating | kg | 3.896 | 4.259 | 4.897 | 5.241 | 5.620 | 6.207 |
| Additional weight | | | | | | | |
| Desuperheater versions | kg | 76 | 86 | 100 | 100 | 114 | 114 |
| Dimensions | | | | | | | |
| Length | mm | 4.660 | 5.712 | 5.712 | 6.764 | 7.816 | 7.816 |
| Width | mm | 2.192 | 2.192 | 2.192 | 2.192 | 2.192 | 2.192 |
| Height | mm | 2.510 | 2.510 | 2.510 | 2.510 | 2.510 | 2.510 |
| Acoustic Data | | | | | | | |
| Sound power level ³ | dB(A) | 97 | 98 | 100 | 100 | 100 | 101 |
| Sound power level ^{3***/***} | dB(A) | 102 | 103 | 104 | 104 | 104 | 105 |
| Sound pressure level at 10 m ⁴ | dB(A) | 65 | 66 | 68 | 68 | 68 | 68 |
| Sound pressure level at 10 m ^{4***/***} | dB(A) | 70 | 71 | 72 | 72 | 72 | 72 |

¹ Data refers to 7°C leaving chilled water temperature and 35°C condenser air temperature, according EN14511 standard

² According to commission regulation (EU) N° 2281/2016 for comfort chillers

³ Sound levels are at fully loaded conditions. Sound power level values refer to ISO standard 3744

⁴ Sound pressure levels refer to ISO Standard 3744, parallelepiped shape

* This value can change for BC version or other special applications

** High Temperature Units (HT), data with fans at max speed (1100 Rpm)

*** HPF Units, data with fans at max speed (1100 Rpm)

| Model | | 810 | 900 | 980 | 1060 | 1160 | 1260 |
|--|-------------------|----------|----------|--------------------------------------|----------|----------|----------|
| Nominal cooling capacity ¹ | kW | 778,1 | 896,9 | 983,5 | 1047,4 | 1154,0 | 1240,5 |
| Input power ¹ | kW | 253,4 | 290,2 | 322,3 | 332,0 | 370,4 | 408,1 |
| EER ¹ / Energy Efficiency Class | | 3,07/B | 3,09/B | 3,05/B | 3,15/A | 3,12/A | 3,04/B |
| EER _{CONDITION B} (74%) | | 3,89 | 3,82 | 3,98 | 4,10 | 4,14 | 4,20 |
| EER _{CONDITION C} (47%) | | 4,72 | 4,68 | 4,72 | 5,10 | 5,06 | 5,02 |
| EER _{CONDITION D} (21%) | | 6,62 | 6,32 | 6,22 | 6,69 | 6,70 | 6,68 |
| SEER ² | | 4,62 | 4,56 | 4,60 | 4,87 | 4,86 | 4,85 |
| η _{s,c} ² | % | 182 | 179 | 181 | 192 | 191 | 191 |
| Number of refrigerant circuits | | | | | 2 | | |
| Total capacity steps [*] | % | 13%÷100% | 14%÷100% | 13%÷100% | 17%÷100% | 15%÷100% | 14%÷100% |
| Compressor | | | | | | | |
| Number/ Type | | | | 2 / 1 variable speed + 1 fixed speed | | | |
| Nº of loading stages | | | | Continuous capacity control | | | |
| Evaporator | | | | | | | |
| Number/ Type | | | | 1/Shell&Tube | | | |
| Water flow | m ³ /h | 134,2 | 154,5 | 169,5 | 180,5 | 199,0 | 213,9 |
| Pressure drop | kPa | 36 | 21 | 24 | 27 | 33 | 32 |
| Water volume | l | 276 | 379 | 367 | 356 | 356 | 431 |
| Antifreeze Heater | W | 300 | 300 | 300 | 300 | 300 | 300 |
| Air cooled condenser | | | | | | | |
| Number of coils | | 16 | 18 | 20 | 22 | 24 | 24 |
| Total coil face area per coil | m ² | | | 2,3 | | | |
| Fans | | | | | | | |
| Number of fans | | 16 | 18 | 20 | 22 | 24 | 24 |
| Nominal speed | rpm | 900 | 900 | 900 | 900 | 900 | 900 |
| Total airflow | m ³ /h | 367.920 | 414.000 | 460.080 | 506.160 | 552.240 | 552.240 |
| Total input power | kW | 24,0 | 27,0 | 30,0 | 33,0 | 36,0 | 36,0 |
| Total input power ^{**} | kW | 41,0 | 46,1 | 51,2 | 56,3 | 61,4 | 61,4 |
| Total input power ^{***} | kW | 48,0 | 54,0 | 60,0 | 66,0 | 72,0 | 72,0 |
| External static pressure ^{***} | Pa | | | 0 - 120 Pa | | | |
| Water Connections (Evaporator) | | | | | | | |
| Type | | | | Victrallic | | | |
| Inlet Diameter/Outlet Diameter | inch | 8/8 | 8/8 | 10/10 | 10/10 | 10/10 | 10/10 |
| Water Connections (Desuperheater) | | | | | | | |
| Type | | | | Male GAS Threaded | | | |
| Inlet Diameter/Outlet Diameter | inch | 2"/2" | 2"/2" | 2"/2" | 2"/2" | 2"/2" | 2"/2" |
| Weight | | | | | | | |
| Shipping | kg | 6.255 | 6.947 | 7.397 | 8.124 | 8.508 | 8.643 |
| Operating | kg | 6.531 | 7.326 | 7.764 | 8.491 | 8.875 | 9.074 |
| Additional weight | | | | | | | |
| Desuperheater versions | kg | 147 | 147 | 180 | 180 | 216 | 216 |
| Dimensions | | | | | | | |
| Length | mm | 8.868 | 9.920 | 10.972 | 12.024 | 13.076 | 13.076 |
| Width | mm | 2.192 | 2.192 | 2.192 | 2.192 | 2.192 | 2.192 |
| Height | mm | 2.510 | 2.510 | 2.510 | 2.510 | 2.510 | 2.510 |
| Acoustic Data | | | | | | | |
| Sound power level ³ | dB(A) | 101 | 102 | 102 | 103 | 103 | 103 |
| Sound power level ^{3***/***} | dB(A) | 105 | 106 | 106 | 107 | 108 | 108 |
| Sound pressure level at 10 m ⁴ | dB(A) | 68 | 69 | 69 | 70 | 70 | 70 |
| Sound pressure level at 10 m ^{4***/***} | dB(A) | 72 | 73 | 73 | 74 | 75 | 75 |

¹ Data refers to 7°C leaving chilled water temperature and 35°C condenser air temperature, according EN14511 standard² According to commission regulation (EU) N° 2281/2016 for comfort chillers³ Sound levels are at fully loaded conditions. Sound power level values refer to ISO standard 3744⁴ Sound pressure levels refer to ISO Standard 3744, parallelepiped shape

* This value can change for BC version or other special applications

** High Temperature Units (HT), data with fans at max speed (1100 Rpm)

*** HPF Units, data with fans at max speed (1100 Rpm)

Technical Data - SYSCREW AIR EVO HSE S R134a

| Model | | 380 | 440 | 510 | 590 | 660 | 730 |
|--|-------------------|----------|----------|----------|----------------------------------|----------|----------|
| Nominal cooling capacity ¹ | kW | 359,2 | 437,4 | 493,3 | 557,5 | 633,7 | 695,6 |
| Input power ¹ | kW | 122,2 | 140,4 | 162,8 | 178,4 | 202,8 | 224,4 |
| EER ¹ / Energy Efficiency Class | | 2,94/B | 3,12/A | 3,03/B | 3,13/A | 3,12/A | 3,10/A |
| EER _{CONDITION B} (74%) | | 4,00 | 4,11 | 4,08 | 4,10 | 4,05 | 4,07 |
| EER _{CONDITION C} (47%) | | 4,81 | 5,18 | 5,18 | 5,32 | 5,04 | 5,01 |
| EER _{CONDITION D} (21%) | | 6,54 | 6,93 | 6,86 | 7,04 | 7,01 | 6,76 |
| SEER ² | | 4,66 | 4,92 | 4,90 | 5,00 | 4,87 | 4,82 |
| η _{s,c} ² | % | 184 | 194 | 193 | 197 | 192 | 190 |
| Number of refrigerant circuits | | | | | 2 | | |
| Total capacity steps [*] | % | 22%÷100% | 18%÷100% | 16%÷100% | 14%÷100% | 13%÷100% | 15%÷100% |
| Compressor | | | | | | | |
| Number | | | | | 2 | | |
| Type | | | | | 1 variable speed + 1 fixed speed | | |
| N°of loading stages | | | | | Continuous capacity control | | |
| Evaporator | | | | | | | |
| Number | | | | | 1 | | |
| Type | | | | | Shell & tube | | |
| Water flow | m ³ /h | 61,9 | 75,4 | 85,0 | 96,1 | 109,3 | 119,9 |
| Pressure drop | kPa | 16 | 24 | 18 | 23 | 30 | 29 |
| Water volume | l | 149 | 142 | 246 | 246 | 228 | 276 |
| Antifreeze Heater | W | 200 | 200 | 300 | 300 | 300 | 300 |
| Air cooled condenser | | | | | | | |
| Number of coils | | 8 | 10 | 10 | 12 | 14 | 14 |
| Total coil face area per coil | m ² | | | 2,3 | | | |
| Fans | | | | | | | |
| Number of fans | | 8 | 10 | 10 | 12 | 14 | 14 |
| Nominal speed | rpm | 800 | 800 | 800 | 800 | 800 | 800 |
| Total airflow | m ³ /h | 183.960 | 230.040 | 230.040 | 276.120 | 321.840 | 321.840 |
| Total input power | kW | 8,0 | 10,0 | 10,0 | 12,0 | 14,0 | 14,0 |
| Water Connections (Evaporator) | | | | | | | |
| Type | | | | | Victrallic | | |
| Inlet Diameter | inch | 6 | 6 | 8 | 8 | 8 | 8 |
| Outlet Diameter | inch | 6 | 6 | 8 | 8 | 8 | 8 |
| Water Connections (Desuperheater) | | | | | | | |
| Type | | | | | Male GAS Threaded | | |
| Inlet Diameter | inch | 2" | 2" | 2" | 2" | 2" | 2" |
| Outlet Diameter | inch | 2" | 2" | 2" | 2" | 2" | 2" |
| Weight | | | | | | | |
| Shipping | kg | 3.832 | 4.210 | 4.744 | 5.077 | 5.474 | 6.017 |
| Operating | kg | 3.981 | 4.352 | 4.990 | 5.323 | 5.702 | 6.293 |
| Additional weight | | | | | | | |
| Desuperheater versions | kg | 76 | 86 | 100 | 100 | 114 | 114 |
| Dimensions | | | | | | | |
| Length | mm | 4.660 | 5.712 | 5.712 | 6.764 | 7.816 | 7.816 |
| Width | mm | 2.192 | 2.192 | 2.192 | 2.192 | 2.192 | 2.192 |
| Height | mm | 2.590 | 2.590 | 2.590 | 2.590 | 2.590 | 2.590 |
| Acoustic Data | | | | | | | |
| Sound power level ³ | dB(A) | 94 | 94 | 97 | 97 | 97 | 98 |
| Sound pressure level at 10 m ⁴ | dB(A) | 62 | 62 | 65 | 65 | 65 | 65 |

¹ Data refers to 7°C leaving chilled water temperature and 35°C condenser air temperature, according EN14511 standard.

² According to commission regulation (EU) N° 2281/2016 for comfort chillers

³ Sound levels are at fully loaded conditions. Sound power level values refer to ISO standard 3744.

⁴ Sound pressure levels refer to ISO Standard 3744, parallelepiped shape.

* This value can change for BC version or other special applications

| Model | | 810 | 900 | 980 | 1060 | 1160 | 1260 |
|--|-------------------|----------|----------|----------|----------------------------------|----------|----------|
| Nominal cooling capacity ¹ | kW | 768,3 | 884,2 | 971,2 | 1035,1 | 1139,2 | 1222,6 |
| Input power ¹ | kW | 248,4 | 285,6 | 316,3 | 325,1 | 363,4 | 403,9 |
| EER ¹ / Energy Efficiency Class | | 3,09/B | 3,10/A | 3,07/B | 3,18/A | 3,13/A | 3,03/B |
| EER _{CONDITION B} (74%) | | 3,98 | 3,91 | 4,13 | 4,25 | 4,25 | 4,29 |
| EER _{CONDITION C} (47%) | | 5,09 | 5,06 | 5,11 | 5,33 | 5,35 | 5,41 |
| EER _{CONDITION D} (21%) | | 6,97 | 6,71 | 6,52 | 7,12 | 7,31 | 7,17 |
| SEER ² | | 4,84 | 4,79 | 4,85 | 5,08 | 5,10 | 5,09 |
| η _{s,c} ² | % | 191 | 189 | 191 | 200 | 201 | 201 |
| Number of refrigerant circuits | | | | | 2 | | |
| Total capacity steps [*] | % | 13%÷100% | 14%÷100% | 13%÷100% | 17%÷100% | 15%÷100% | 14%÷100% |
| Compressor | | | | | | | |
| Number | | | | | 2 | | |
| Type | | | | | 1 variable speed + 1 fixed speed | | |
| N°of loading stages | | | | | Continuous capacity control | | |
| Evaporator | | | | | | | |
| Number | | | | | 1 | | |
| Type | | | | | Shell & tube | | |
| Water flow | m ³ /h | 132,5 | 152,3 | 167,4 | 178,4 | 196,4 | 210,8 |
| Pressure drop | kPa | 36 | 20 | 23 | 26 | 32 | 32 |
| Water volume | l | 276 | 379 | 367 | 356 | 356 | 431 |
| Antifreeze Heater | W | 300 | 300 | 300 | 300 | 300 | 300 |
| Air cooled condenser | | | | | | | |
| Number of coils | | 16 | 18 | 20 | 22 | 24 | 24 |
| Total coil face area per coil | m ² | | | 2,3 | | | |
| Fans | | | | | | | |
| Number of fans | | 16 | 18 | 20 | 22 | 24 | 24 |
| Nominal speed | rpm | 800 | 800 | 800 | 800 | 800 | 800 |
| Total airflow | m ³ /h | 367.920 | 414.000 | 460.080 | 506.160 | 552.240 | 552.240 |
| Total input power | kW | 16,0 | 18,0 | 20,0 | 22,0 | 24,0 | 24,0 |
| Water Connections (Evaporator) | | | | | | | |
| Type | | | | | Vicatulic | | |
| Inlet Diameter | inch | 8 | 8 | 10 | 10 | 10 | 10 |
| Outlet Diameter | inch | 8 | 8 | 10 | 10 | 10 | 10 |
| Water Connections (Desuperheater) | | | | | | | |
| Type | | | | | Male GAS Threaded | | |
| Inlet Diameter | inch | 2" | 2" | 2" | 2" | 2" | 2" |
| Outlet Diameter | inch | 2" | 2" | 2" | 2" | 2" | 2" |
| Weight | | | | | | | |
| Shipping | kg | 6.341 | 7.033 | 7.485 | 8.212 | 8.596 | 8.731 |
| Operating | kg | 6.617 | 7.412 | 7.852 | 8.579 | 8.963 | 9.162 |
| Additional weight | | | | | | | |
| Desuperheater versions | kg | 147 | 147 | 180 | 180 | 216 | 216 |
| Dimensions | | | | | | | |
| Length | mm | 8.868 | 9.920 | 10.972 | 12.024 | 13.076 | 13.076 |
| Width | mm | 2.192 | 2.192 | 2.192 | 2.192 | 2.192 | 2.192 |
| Height | mm | 2.590 | 2.590 | 2.590 | 2.590 | 2.590 | 2.590 |
| Acoustic Data | | | | | | | |
| Sound power level ³ | dB(A) | 98 | 99 | 99 | 99 | 100 | 100 |
| Sound pressure level at 10 m ⁴ | dB(A) | 65 | 66 | 66 | 66 | 67 | 67 |

¹ Data refers to 7°C leaving chilled water temperature and 35°C condenser air temperature, according EN14511 standard.² According to commission regulation (EU) N° 2281/2016 for comfort chillers³ Sound levels are at fully loaded conditions. Sound power level values refer to ISO standard 3744.⁴ Sound pressure levels refer to ISO Standard 3744, parallelepiped shape.

* This value can change for BC version or other special applications

Technical Data - SYSCREW AIR EVO HSE S R513A

| Model | | 380 | 440 | 510 | 590 | 660 | 730 |
|--|-------------------|----------|----------|----------|----------------------------------|----------|----------|
| Nominal cooling capacity ¹ | kW | 362,8 | 441,8 | 498,2 | 563,1 | 640,0 | 702,5 |
| Input power ¹ | kW | 126,1 | 144,9 | 168,0 | 184,0 | 209,3 | 231,5 |
| EER ¹ / Energy Efficiency Class | | 2,88/C | 3,05/B | 2,97/B | 3,06/B | 3,06/B | 3,03/B |
| EER _{CONDITION B} (74%) | | 3,90 | 4,03 | 3,99 | 4,00 | 3,96 | 3,97 |
| EER _{CONDITION C} (47%) | | 4,69 | 5,04 | 5,05 | 5,21 | 4,95 | 4,91 |
| EER _{CONDITION D} (21%) | | 6,44 | 6,82 | 6,75 | 6,92 | 6,93 | 6,64 |
| SEER ² | | 4,56 | 4,82 | 4,79 | 4,89 | 4,78 | 4,73 |
| η _{s,c} ² | % | 180 | 190 | 189 | 193 | 188 | 186 |
| Number of refrigerant circuits | | | | | 2 | | |
| Total capacity steps ³ | % | 22%÷100% | 18%÷100% | 16%÷100% | 14%÷100% | 13%÷100% | 15%÷100% |
| Compressor | | | | | | | |
| Number | | | | | 2 | | |
| Type | | | | | 1 variable speed + 1 fixed speed | | |
| N°of loading stages | | | | | Continuous capacity control | | |
| Evaporator | | | | | | | |
| Number | | | | | 1 | | |
| Type | | | | | Shell & tube | | |
| Water flow | m ³ /h | 62,5 | 76,2 | 85,8 | 97,1 | 110,4 | 121,1 |
| Pressure drop | kPa | 17 | 24 | 19 | 24 | 30 | 30 |
| Water volume | l | 149 | 142 | 246 | 246 | 228 | 276 |
| Antifreeze Heater | W | 200 | 200 | 300 | 300 | 300 | 300 |
| Air cooled condenser | | | | | | | |
| Number of coils | | 8 | 10 | 10 | 12 | 14 | 14 |
| Total coil face area per coil | m ² | | | 2,3 | | | |
| Fans | | | | | | | |
| Number of fans | | 8 | 10 | 10 | 12 | 14 | 14 |
| Nominal speed | rpm | 800 | 800 | 800 | 800 | 800 | 800 |
| Total airflow | m ³ /h | 183.960 | 230.040 | 230.040 | 276.120 | 321.840 | 321.840 |
| Total input power | kW | 8,0 | 10,0 | 10,0 | 12,0 | 14,0 | 14,0 |
| Water Connections (Evaporator) | | | | | | | |
| Type | | | | | Victaulic | | |
| Inlet Diameter | inch | 6 | 6 | 8 | 8 | 8 | 8 |
| Outlet Diameter | inch | 6 | 6 | 8 | 8 | 8 | 8 |
| Water Connections (Desuperheater) | | | | | | | |
| Type | | | | | Male GAS Threaded | | |
| Inlet Diameter | inch | 2" | 2" | 2" | 2" | 2" | 2" |
| Outlet Diameter | inch | 2" | 2" | 2" | 2" | 2" | 2" |
| Weight | | | | | | | |
| Shipping | kg | 3.832 | 4.210 | 4.744 | 5.077 | 5.474 | 6.017 |
| Operating | kg | 3.981 | 4.352 | 4.990 | 5.323 | 5.702 | 6.293 |
| Additional weight | | | | | | | |
| Desuperheater versions | kg | 76 | 86 | 100 | 100 | 114 | 114 |
| Dimensions | | | | | | | |
| Length | mm | 4.660 | 5.712 | 5.712 | 6.764 | 7.816 | 7.816 |
| Width | mm | 2.192 | 2.192 | 2.192 | 2.192 | 2.192 | 2.192 |
| Height | mm | 2.590 | 2.590 | 2.590 | 2.590 | 2.590 | 2.590 |
| Acoustic Data | | | | | | | |
| Sound power level ³ | dB(A) | 94 | 94 | 97 | 97 | 97 | 98 |
| Sound pressure level at 10 m ⁴ | dB(A) | 62 | 62 | 65 | 65 | 65 | 65 |

¹ Data refers to 7°C leaving chilled water temperature and 35°C condenser air temperature, according EN14511 standard.

² According to commission regulation (EU) N° 2281/2016 for comfort chillers

³ Sound levels are at fully loaded conditions. Sound power level values refer to ISO standard 3744.

⁴ Sound pressure levels refer to ISO Standard 3744, parallelepiped shape.

* This value can change for BC version or other special applications

| Model | | 810 | 900 | 980 | 1060 | 1160 | 1260 |
|--|-------------------|----------|----------|----------|----------------------------------|----------|----------|
| Nominal cooling capacity ¹ | kW | 775,9 | 893,1 | 980,9 | 1045,5 | 1150,6 | 1234,8 |
| Input power ¹ | kW | 256,4 | 294,7 | 326,4 | 335,5 | 375,0 | 416,8 |
| EER ¹ / Energy Efficiency Class | | 3,03/B | 3,03/B | 3,01/B | 3,12/A | 3,07/B | 2,96/B |
| EER _{CONDITION B} (74%) | | 4,01 | 3,84 | 4,18 | 4,15 | 4,22 | 4,31 |
| EER _{CONDITION C} (47%) | | 4,98 | 4,94 | 5,02 | 5,24 | 5,36 | 5,30 |
| EER _{CONDITION D} (21%) | | 6,71 | 6,60 | 6,55 | 7,00 | 7,24 | 7,04 |
| SEER ² | | 4,77 | 4,69 | 4,82 | 4,98 | 5,07 | 5,03 |
| $\eta_{s,c}$ ² | | 188 | 185 | 190 | 196 | 200 | 198 |
| Number of refrigerant circuits | | | | | 2 | | |
| Total capacity steps [*] | % | 13%÷100% | 14%÷100% | 13%÷100% | 17%÷100% | 15%÷100% | 14%÷100% |
| Compressor | | | | | | | |
| Number | | | | | 2 | | |
| Type | | | | | 1 variable speed + 1 fixed speed | | |
| Nº of loading stages | | | | | Continuous capacity control | | |
| Evaporator | | | | | | | |
| Number | | | | | 1 | | |
| Type | | | | | Shell & tube | | |
| Water flow | m ³ /h | 133,8 | 153,9 | 169,0 | 180,2 | 198,4 | 212,9 |
| Pressure drop | kPa | 36 | 21 | 24 | 27 | 32 | 32 |
| Water volume | l | 276 | 379 | 367 | 356 | 356 | 431 |
| Antifreeze Heater | W | 300 | 300 | 300 | 300 | 300 | 300 |
| Air cooled condenser | | | | | | | |
| Number of coils | | 16 | 18 | 20 | 22 | 24 | 24 |
| Total coil face area per coil | m ² | | | 2,3 | | | |
| Fans | | | | | | | |
| Number of fans | | 16 | 18 | 20 | 22 | 24 | 24 |
| Nominal speed | rpm | 800 | 800 | 800 | 800 | 800 | 800 |
| Total airflow | m ³ /h | 367.920 | 414.000 | 460.080 | 506.160 | 552.240 | 552.240 |
| Total input power | kW | 16,0 | 18,0 | 20,0 | 22,0 | 24,0 | 24,0 |
| Water Connections (Evaporator) | | | | | | | |
| Type | | | | | Victaulic | | |
| Inlet Diameter | inch | 8 | 8 | 10 | 10 | 10 | 10 |
| Outlet Diameter | inch | 8 | 8 | 10 | 10 | 10 | 10 |
| Water Connections (Desuperheater) | | | | | | | |
| Type | | | | | Male GAS Threaded | | |
| Inlet Diameter | inch | 2" | 2" | 2" | 2" | 2" | 2" |
| Outlet Diameter | inch | 2" | 2" | 2" | 2" | 2" | 2" |
| Weight | | | | | | | |
| Shipping | kg | 6.341 | 7.033 | 7.485 | 8.212 | 8.596 | 8.731 |
| Operating | kg | 6.617 | 7.412 | 7.852 | 8.579 | 8.963 | 9.162 |
| Additional weight | | | | | | | |
| Desuperheater versions | kg | 147 | 147 | 180 | 180 | 216 | 216 |
| Dimensions | | | | | | | |
| Length | mm | 8.868 | 9.920 | 10.972 | 12.024 | 13.076 | 13.076 |
| Width | mm | 2.192 | 2.192 | 2.192 | 2.192 | 2.192 | 2.192 |
| Height | mm | 2.590 | 2.590 | 2.590 | 2.590 | 2.590 | 2.590 |
| Acoustic Data | | | | | | | |
| Sound power level ³ | dB(A) | 98 | 99 | 99 | 99 | 100 | 100 |
| Sound pressure level at 10 m ⁴ | dB(A) | 65 | 66 | 66 | 66 | 67 | 67 |

¹ Data refers to 7°C leaving chilled water temperature and 35°C condenser air temperature, according EN14511 standard.² According to commission regulation (EU) N° 2281/2016 for comfort chillers³ Sound levels are at fully loaded conditions. Sound power level values refer to ISO standard 3744.⁴ Sound pressure levels refer to ISO Standard 3744, parallelepiped shape.^{*} This value can change for BC version or other special applications

Electrical Data

Compressors @ 400V/3/50Hz

| Model | System | Frame | Compressor start mode | Power input nominal Cond. compressor | | Nom. Cond. current compressor | | Power input max. Cond. compressor | | Max. running current compressor FLA | | Starting current compressor LRA | | Carter oil 230Vac | | Nominal power factor | |
|-------|--------|-------|-----------------------|--------------------------------------|-------|-------------------------------|-------|-----------------------------------|---------------|-------------------------------------|---------------|---------------------------------|---------------|-------------------|---------------|----------------------|--|
| | | | | kW | | A | | kW | | A | | A | | W | | | |
| | | | | R134a | R513A | R134a | R513A | R134a / R513A | R134a / R513A | R134a / R513A | R134a / R513A | R134a / R513A | R134a / R513A | R134a / R513A | R134a / R513A | | |
| 380 | 1 | 4V | PW | 49 | 51 | 83 | 87 | 88 | 144 | 350 | 200 | 0,85 | | | | | |
| | 2 | | FI | 56 | 58 | 97 | 100 | 130 | 220 | 20 | 200 | | | | | | |
| 440 | 1 | 5V | PW | 61 | 64 | 100 | 105 | 93 | 162 | 423 | 200 | 0,89 | | | | | |
| | 2 | | FI | 64 | 66 | 109 | 112 | 130 | 220 | 20 | 200 | | | | | | |
| 510 | 1 | 5V | PW | 68 | 71 | 116 | 120 | 110 | 182 | 520 | 300 | 0,85 | | | | | |
| | 2 | | FI | 73 | 76 | 123 | 128 | 130 | 220 | 20 | 200 | | | | | | |
| 590 | 1 | 6V | PW | 75 | 79 | 126 | 132 | 110 | 182 | 520 | 300 | 0,86 | | | | | |
| | 2 | | FI | 81 | 84 | 135 | 140 | 130 | 220 | 20 | 200 | | | | | | |
| 660 | 1 | 7V | SD | 96 | 101 | 161 | 168 | 131 | 214 | 341 | 300 | 0,86 | | | | | |
| | 2 | | FI | 81 | 84 | 135 | 140 | 130 | 220 | 20 | 200 | | | | | | |
| 730 | 1 | 7V | SD | 96 | 101 | 161 | 168 | 131 | 214 | 341 | 300 | 0,86 | | | | | |
| | 2 | | FI | 98 | 102 | 161 | 167 | 167 | 260 | 20 | 200 | | | | | | |
| 810 | 1 | 8V | SD | 113 | 118 | 185 | 193 | 155 | 280 | 436 | 300 | 0,88 | | | | | |
| | 2 | | FI | 103 | 107 | 168 | 174 | 167 | 260 | 20 | 200 | | | | | | |
| 900 | 1 | 9V | SD | 124 | 129 | 200 | 208 | 175 | 310 | 465 | 300 | 0,90 | | | | | |
| | 2 | | FI | 124 | 127 | 199 | 204 | 198 | 340 | 20 | 200 | | | | | | |
| 980 | 1 | 10V | SD | 145 | 151 | 239 | 249 | 204 | 320 | 586 | 300 | 0,87 | | | | | |
| | 2 | | FI | 130 | 133 | 209 | 214 | 198 | 340 | 20 | 200 | | | | | | |
| 1060 | 1 | 11V | SD | 145 | 151 | 239 | 249 | 204 | 320 | 586 | 300 | 0,87 | | | | | |
| | 2 | | FI | 142 | 150 | 233 | 245 | 250 | 420 | 20 | 200 | | | | | | |
| 1160 | 1 | 12V | SD | 161 | 168 | 265 | 276 | 222 | 360 | 650 | 300 | 0,88 | | | | | |
| | 2 | | FI | 158 | 167 | 258 | 272 | 250 | 420 | 20 | 200 | | | | | | |
| 1260 | 1 | 12V | SD | 161 | 168 | 265 | 276 | 222 | 360 | 650 | 300 | 0,88 | | | | | |
| | 2 | | FI | 180 | 190 | 292 | 293 | 250 | 420 | 20 | 200 | | | | | | |

Units @ 400 V/3 Ph/50 Hz

| Standard Version | | | 380 | 440 | 510 | 590 | 660 | 730 | 810 | 900 | 980 | 1060 | 1160 | 1260 |
|----------------------|---------------|----|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Current input | Nominal R134a | A | 200 | 233 | 263 | 290 | 330 | 356 | 392 | 443 | 497 | 525 | 581 | 615 |
| | Nominal R513A | A | 206 | 241 | 272 | 301 | 342 | 369 | 406 | 456 | 512 | 547 | 606 | 627 |
| | Maximum | A | 395 | 421 | 441 | 449 | 489 | 529 | 602 | 720 | 738 | 826 | 874 | 874 |
| Power input | Nominal R134a | kW | 117 | 140 | 156 | 174 | 198 | 215 | 240 | 275 | 305 | 319 | 355 | 377 |
| | Nominal R513A | kW | 121 | 145 | 162 | 181 | 206 | 224 | 249 | 283 | 314 | 334 | 372 | 394 |
| | Maximum | kW | 238 | 249 | 266 | 271 | 297 | 334 | 363 | 419 | 453 | 510 | 533 | 533 |
| Max Start-up current | | | A | 601 | 682 | 779 | 787 | 616 | 656 | 758 | 875 | 1004 | 1092 | 1164 |
| UNIT (aM) FUSES | | | A | 500 | 500 | 500 | 500 | 630 | 630 | 800 | 800 | 800 | 1000 | 1000 |
| Phase WIRE SECTION | | | mm ² | 2x185 | 2x185 | 2x185 | 2x185 | 2x185 | 2x185 | 2x240 | 2x240 | 2x300 | 2x300 | 2x300 |
| S Version | | | 380 | 440 | 510 | 590 | 660 | 730 | 810 | 900 | 980 | 1060 | 1160 | 1260 |
| Current input | Nominal R134a | A | 194 | 225 | 256 | 281 | 319 | 346 | 380 | 429 | 482 | 509 | 564 | 598 |
| | Nominal R513A | A | 200 | 233 | 265 | 292 | 331 | 359 | 394 | 442 | 497 | 531 | 589 | 610 |
| | Maximum | A | 395 | 421 | 441 | 449 | 489 | 529 | 602 | 720 | 738 | 826 | 874 | 874 |
| Power input | Nominal R134a | kW | 113 | 135 | 151 | 168 | 191 | 208 | 232 | 266 | 295 | 308 | 343 | 365 |
| | Nominal R513A | kW | 117 | 140 | 157 | 175 | 199 | 217 | 241 | 274 | 304 | 323 | 359 | 382 |
| | Maximum | kW | 238 | 249 | 266 | 271 | 297 | 334 | 363 | 419 | 453 | 510 | 533 | 533 |
| Max Start-up current | | | A | 601 | 682 | 779 | 787 | 616 | 656 | 758 | 875 | 1004 | 1092 | 1164 |
| UNIT (aM) FUSES | | | A | 500 | 500 | 500 | 500 | 630 | 630 | 800 | 800 | 800 | 1000 | 1000 |
| Phase WIRE SECTION | | | mm ² | 2x185 | 2x185 | 2x185 | 2x185 | 2x185 | 2x240 | 2x240 | 2x300 | 2x300 | 2x300 | 2x300 |
| HT Version | | | 380 | 440 | 510 | 590 | 660 | 730 | 810 | 900 | 980 | 1060 | 1160 | 1260 |
| Current input | Nominal R134a | A | 212 | 248 | 278 | 308 | 351 | 377 | 416 | 470 | 527 | 559 | 618 | 652 |
| | Nominal R513A | A | 218 | 256 | 287 | 319 | 363 | 390 | 430 | 483 | 542 | 581 | 643 | 664 |
| | Maximum | A | 400 | 427 | 447 | 456 | 497 | 537 | 612 | 731 | 750 | 839 | 888 | 888 |
| Power input | Nominal R134a | kW | 126 | 150 | 167 | 187 | 212 | 230 | 257 | 294 | 326 | 343 | 381 | 403 |
| | Nominal R513A | kW | 130 | 156 | 173 | 194 | 221 | 238 | 266 | 302 | 335 | 357 | 397 | 419 |
| | Maximum | kW | 242 | 253 | 270 | 276 | 303 | 340 | 370 | 427 | 462 | 520 | 544 | 544 |
| Max Start-up current | | | A | 606 | 688 | 785 | 794 | 624 | 664 | 768 | 886 | 1016 | 1105 | 1178 |
| UNIT (aM) FUSES | | | A | 500 | 500 | 500 | 500 | 630 | 630 | 800 | 800 | 800 | 1000 | 1000 |
| Phase WIRE SECTION | | | mm ² | 2x185 | 2x185 | 2x185 | 2x185 | 2x185 | 2x240 | 2x240 | 2x300 | 2x300 | 2x300 | 2x300 |

| HPF Version | | 380 | 440 | 510 | 590 | 660 | 730 | 810 | 900 | 980 | 1060 | 1160 | 1260 | |
|----------------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| Current input | Nominal R134a | A | 217 | 254 | 284 | 315 | 359 | 385 | 425 | 480 | 538 | 571 | 631 | 665 |
| | Nominal R513A | A | 223 | 261 | 293 | 326 | 371 | 398 | 439 | 493 | 553 | 593 | 656 | 677 |
| | Maximum | A | 400 | 427 | 447 | 456 | 497 | 537 | 612 | 731 | 750 | 839 | 888 | 888 |
| Power input | Nominal R134a | kW | 129 | 155 | 171 | 192 | 218 | 236 | 263 | 302 | 334 | 352 | 391 | 413 |
| | Nominal R513A | kW | 133 | 160 | 177 | 199 | 226 | 244 | 272 | 309 | 343 | 366 | 407 | 429 |
| | Maximum | kW | 242 | 253 | 270 | 276 | 303 | 340 | 370 | 427 | 462 | 520 | 544 | 544 |
| Max Start-up current | A | 606 | 688 | 785 | 794 | 624 | 664 | 768 | 886 | 1016 | 1105 | 1178 | 1178 | |
| UNIT (aM) FUSES | A | 500 | 500 | 500 | 500 | 630 | 630 | 800 | 800 | 800 | 1000 | 1000 | 1000 | |
| Phase WIRE SECTION | mm ² | 2x185 | 2x185 | 2x185 | 2x185 | 2x185 | 2x185 | 2x240 | 2x240 | 2x240 | 2x300 | 2x300 | 2x300 | |

Fans @ 400V/3/50Hz

| Model | EC fans | | |
|-------------------------|---------|----------------|--------------------------|
| | Number | Max power (kW) | Max. running current (A) |
| Standard Version | | | |
| 380 | 8 | 2,6 | 3,9 |
| 440 | 10 | 2,6 | 3,9 |
| 510 | 10 | 2,6 | 3,9 |
| 590 | 12 | 2,6 | 3,9 |
| 660 | 14 | 2,6 | 3,9 |
| 730 | 14 | 2,6 | 3,9 |
| 810 | 16 | 2,6 | 3,9 |
| 900 | 18 | 2,6 | 3,9 |
| 980 | 20 | 2,6 | 3,9 |
| 1060 | 22 | 2,6 | 3,9 |
| 1160 | 24 | 2,6 | 3,9 |
| 1260 | 24 | 2,6 | 3,9 |
| S Version | | | |
| 380 | 8 | 2,6 | 3,9 |
| 440 | 10 | 2,6 | 3,9 |
| 510 | 10 | 2,6 | 3,9 |
| 590 | 12 | 2,6 | 3,9 |
| 660 | 14 | 2,6 | 3,9 |
| 730 | 14 | 2,6 | 3,9 |
| 810 | 16 | 2,6 | 3,9 |
| 900 | 18 | 2,6 | 3,9 |
| 980 | 20 | 2,6 | 3,9 |
| 1060 | 22 | 2,6 | 3,9 |
| 1160 | 24 | 2,6 | 3,9 |
| 1260 | 24 | 2,6 | 3,9 |
| HT/HPF Version | | | |
| 380 | 8 | 3,0 | 4,5 |
| 440 | 10 | 3,0 | 4,5 |
| 510 | 10 | 3,0 | 4,5 |
| 590 | 12 | 3,0 | 4,5 |
| 660 | 14 | 3,0 | 4,5 |
| 730 | 14 | 3,0 | 4,5 |
| 810 | 16 | 3,0 | 4,5 |
| 900 | 18 | 3,0 | 4,5 |
| 980 | 20 | 3,0 | 4,5 |
| 1060 | 22 | 3,0 | 4,5 |
| 1160 | 24 | 3,0 | 4,5 |
| 1260 | 24 | 3,0 | 4,5 |

Sound Data

| Model | Frequency (Hz) | | | | | | | | Sound Power dB(A) | Sound Pressure dB(A)** |
|-------------------------|----------------|-----|-----|-----|------|------|------|------|-------------------|------------------------|
| | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | | |
| Standard Version | | | | | | | | | | |
| 380 | 100 | 95 | 92 | 94 | 93 | 88 | 80 | 76 | 97 | 65 |
| 440 | 101 | 96 | 93 | 95 | 94 | 89 | 81 | 77 | 98 | 66 |
| 510 | 103 | 98 | 95 | 97 | 96 | 91 | 83 | 79 | 100 | 68 |
| 590 | 103 | 98 | 95 | 97 | 96 | 91 | 83 | 79 | 100 | 68 |
| 660 | 103 | 98 | 95 | 97 | 96 | 91 | 83 | 79 | 100 | 68 |
| 730 | 104 | 99 | 96 | 98 | 97 | 92 | 84 | 80 | 101 | 68 |
| 810 | 104 | 99 | 96 | 98 | 97 | 92 | 84 | 80 | 101 | 68 |
| 900 | 105 | 100 | 97 | 99 | 98 | 93 | 85 | 81 | 102 | 69 |
| 980 | 105 | 100 | 97 | 99 | 98 | 93 | 85 | 81 | 102 | 69 |
| 1060 | 106 | 101 | 98 | 100 | 99 | 94 | 86 | 82 | 103 | 70 |
| 1160 | 106 | 101 | 98 | 100 | 99 | 94 | 86 | 82 | 103 | 70 |
| 1260 | 106 | 101 | 98 | 100 | 99 | 94 | 86 | 82 | 103 | 70 |
| S Version | | | | | | | | | | |
| 380 | 99 | 93 | 90 | 95 | 88 | 83 | 78 | 76 | 94 | 62 |
| 440 | 99 | 93 | 90 | 95 | 88 | 83 | 78 | 76 | 94 | 62 |
| 510 | 102 | 96 | 93 | 98 | 91 | 86 | 81 | 79 | 97 | 65 |
| 590 | 102 | 96 | 93 | 98 | 91 | 86 | 81 | 79 | 97 | 65 |
| 660 | 102 | 96 | 93 | 98 | 91 | 86 | 81 | 79 | 97 | 65 |
| 730 | 103 | 97 | 94 | 99 | 92 | 87 | 82 | 80 | 98 | 65 |
| 810 | 103 | 97 | 94 | 99 | 92 | 87 | 82 | 80 | 98 | 65 |
| 900 | 104 | 98 | 95 | 100 | 93 | 88 | 83 | 81 | 99 | 66 |
| 980 | 104 | 98 | 95 | 100 | 93 | 88 | 83 | 81 | 99 | 66 |
| 1060 | 104 | 98 | 95 | 100 | 93 | 88 | 83 | 81 | 99 | 66 |
| 1160 | 105 | 99 | 96 | 101 | 94 | 89 | 84 | 82 | 100 | 67 |
| 1260 | 105 | 99 | 96 | 101 | 94 | 89 | 84 | 82 | 100 | 67 |

* Sound data valid in max air flow rate condition.

** Sound pressure level at 10 m. Values refers to ISO Standard 3744 with parallelepiped shape.

| Model | Frequency (Hz) | | | | | | | | Sound Power dB(A) | Sound Pressure dB(A)** |
|--------------------|----------------|-----|-----|-----|------|------|------|------|-------------------|------------------------|
| | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | | |
| HT Version* | | | | | | | | | | |
| 380 | 105 | 100 | 97 | 99 | 98 | 93 | 85 | 81 | 102 | 70 |
| 440 | 106 | 101 | 98 | 100 | 99 | 94 | 86 | 82 | 103 | 71 |
| 510 | 107 | 102 | 99 | 101 | 100 | 95 | 87 | 83 | 104 | 72 |
| 590 | 107 | 102 | 99 | 101 | 100 | 95 | 87 | 83 | 104 | 72 |
| 660 | 107 | 102 | 99 | 101 | 100 | 95 | 87 | 83 | 104 | 72 |
| 730 | 108 | 103 | 100 | 102 | 101 | 96 | 88 | 84 | 105 | 72 |
| 810 | 108 | 103 | 100 | 102 | 101 | 96 | 88 | 84 | 105 | 72 |
| 900 | 109 | 104 | 101 | 103 | 102 | 97 | 89 | 85 | 106 | 73 |
| 980 | 109 | 104 | 101 | 103 | 102 | 97 | 89 | 85 | 106 | 73 |
| 1060 | 110 | 105 | 102 | 104 | 103 | 98 | 90 | 86 | 107 | 74 |
| 1160 | 111 | 106 | 103 | 105 | 104 | 99 | 91 | 87 | 108 | 75 |
| 1260 | 111 | 106 | 103 | 105 | 104 | 99 | 91 | 87 | 108 | 75 |

* Sound data valid in max air flow rate condition.

** Sound pressure level at 10 m. Values refers to ISO Standard 3744 with parallelepiped shape.

Cooling Capacities - SYSCREW AIR EVO HSE R134a (STD/HT)

| Model | LWT °C | Condensing Air Temperature °C | | | | | | | | | | | | | | |
|-------|-----------|-------------------------------|--------------------|-----------------------|-------|--------------------|-----------------------|-------|--------------------|-----------------------|-------|--------------------|-----------------------|-------|--------------------|-----------------------|
| | | 25 | | | 30 | | | 32 | | | 35 | | | 40 | | |
| | | Cool | Input Power (*) | Pres- sure Drop | Cool | Input Power (*) | Pres- sure Drop | Cool | Input Power (*) | Pres- sure Drop | Cool | Input Power (*) | Pres- sure Drop | Cool | Input Power (*) | Pres- sure Drop |
| 380 | 5 | 379,8 | 87,7 | 18,4 | 361,5 | 96,2 | 16,6 | 353,8 | 99,7 | 15,9 | 342,0 | 105,1 | 14,9 | 317,9 | 116,7 | 12,9 |
| | 6 | 391,1 | 88,6 | 19,5 | 372,0 | 97,3 | 17,6 | 364,3 | 100,8 | 16,9 | 352,1 | 106,3 | 15,8 | 327,5 | 117,9 | 13,7 |
| | 7 | 402,5 | 89,7 | 20,6 | 382,9 | 98,4 | 18,7 | 374,8 | 102,0 | 17,9 | 362,4 | 107,4 | 16,7 | 336,8 | 119,1 | 14,4 |
| | 8 | 412,6 | 90,8 | 21,7 | 392,7 | 99,5 | 19,6 | 384,4 | 103,1 | 18,8 | 371,5 | 108,6 | 17,6 | 345,4 | 120,3 | 15,2 |
| | 9 | 422,9 | 91,9 | 22,8 | 402,3 | 100,7 | 20,6 | 393,7 | 104,3 | 19,7 | 380,9 | 109,7 | 18,5 | 354,1 | 121,5 | 16,0 |
| | 10 | 433,0 | 93,1 | 23,9 | 412,0 | 101,8 | 21,6 | 403,3 | 105,5 | 20,7 | 390,0 | 111,0 | 19,4 | 362,2 | 122,7 | 16,7 |
| | 12 | 453,6 | 95,3 | 26,2 | 431,6 | 104,3 | 23,7 | 422,6 | 107,9 | 22,7 | 408,5 | 113,4 | 21,2 | 379,6 | 125,4 | 18,3 |
| | 15 | 484,5 | 99,0 | 29,9 | 461,3 | 107,8 | 27,1 | 451,5 | 111,6 | 26,0 | 436,2 | 117,3 | 24,2 | 405,7 | 129,3 | 21,0 |
| 440 | 5 | 460,0 | 100,5 | 25,9 | 437,9 | 110,4 | 23,5 | 428,6 | 114,4 | 22,5 | 414,3 | 120,5 | 21,0 | 385,1 | 133,8 | 18,2 |
| | 6 | 473,8 | 101,6 | 27,5 | 450,6 | 111,6 | 24,9 | 441,3 | 115,6 | 23,8 | 426,4 | 121,9 | 22,3 | 396,6 | 135,2 | 19,3 |
| | 7 | 487,5 | 102,9 | 29,1 | 463,8 | 112,8 | 26,3 | 454,0 | 117,0 | 25,2 | 439,0 | 123,1 | 23,6 | 408,0 | 136,6 | 20,4 |
| | 8 | 499,7 | 104,1 | 30,6 | 475,6 | 114,1 | 27,7 | 465,6 | 118,2 | 26,5 | 450,0 | 124,5 | 24,8 | 418,4 | 137,9 | 21,4 |
| | 9 | 512,2 | 105,4 | 32,1 | 487,3 | 115,5 | 29,1 | 476,8 | 119,6 | 27,8 | 461,4 | 125,8 | 26,1 | 428,9 | 139,3 | 22,5 |
| | 10 | 524,4 | 106,7 | 33,7 | 499,1 | 116,7 | 30,5 | 488,5 | 121,0 | 29,2 | 472,4 | 127,2 | 27,3 | 438,7 | 140,7 | 23,6 |
| | 12 | 549,4 | 109,3 | 37,0 | 522,7 | 119,6 | 33,4 | 511,8 | 123,7 | 32,1 | 494,8 | 130,0 | 30,0 | 459,8 | 143,8 | 25,9 |
| | 15 | 586,8 | 113,5 | 42,2 | 558,7 | 123,7 | 38,2 | 546,9 | 128,0 | 36,6 | 528,3 | 134,5 | 34,2 | 491,4 | 148,3 | 29,6 |
| 510 | 5 | 519,3 | 117,3 | 20,2 | 494,3 | 128,8 | 18,3 | 483,8 | 133,5 | 17,5 | 467,7 | 140,7 | 16,4 | 434,7 | 156,2 | 14,1 |
| | 6 | 534,8 | 118,6 | 21,4 | 508,7 | 130,3 | 19,4 | 498,1 | 135,0 | 18,6 | 481,4 | 142,3 | 17,3 | 447,7 | 157,8 | 15,0 |
| | 7 | 550,3 | 120,1 | 22,7 | 523,6 | 131,7 | 20,5 | 512,5 | 136,6 | 19,6 | 495,5 | 143,7 | 18,4 | 460,5 | 159,5 | 15,9 |
| | 8 | 564,1 | 121,5 | 23,8 | 536,9 | 133,2 | 21,6 | 525,6 | 138,0 | 20,7 | 507,9 | 145,3 | 19,3 | 472,3 | 161,0 | 16,7 |
| | 9 | 578,2 | 123,0 | 25,0 | 550,1 | 134,8 | 22,6 | 538,2 | 139,6 | 21,7 | 520,9 | 146,8 | 20,3 | 484,2 | 162,6 | 17,5 |
| | 10 | 592,0 | 124,6 | 26,2 | 563,4 | 136,2 | 23,7 | 551,4 | 141,2 | 22,7 | 533,3 | 148,5 | 21,3 | 495,2 | 164,2 | 18,3 |
| | 12 | 620,2 | 127,6 | 28,8 | 590,1 | 139,6 | 26,0 | 577,8 | 144,4 | 25,0 | 558,6 | 151,7 | 23,3 | 519,1 | 167,8 | 20,2 |
| | 15 | 662,4 | 132,5 | 32,8 | 630,7 | 144,3 | 29,8 | 617,3 | 149,4 | 28,5 | 596,4 | 157,0 | 26,6 | 554,7 | 173,0 | 23,0 |
| 590 | 5 | 587,4 | 127,6 | 25,8 | 559,2 | 140,1 | 23,4 | 547,3 | 145,2 | 22,4 | 529,0 | 153,0 | 20,9 | 491,8 | 169,9 | 18,1 |
| | 6 | 605,0 | 129,0 | 27,4 | 575,4 | 141,7 | 24,8 | 563,5 | 146,8 | 23,7 | 544,5 | 154,7 | 22,2 | 506,5 | 171,7 | 19,2 |
| | 7 | 622,5 | 130,6 | 29,0 | 592,3 | 143,3 | 26,2 | 579,7 | 148,5 | 25,1 | 560,5 | 156,3 | 23,5 | 520,9 | 173,4 | 20,3 |
| | 8 | 638,1 | 132,2 | 30,5 | 607,3 | 144,8 | 27,6 | 594,6 | 150,1 | 26,4 | 574,6 | 158,0 | 24,7 | 534,2 | 175,1 | 21,3 |
| | 9 | 654,1 | 133,8 | 32,0 | 622,3 | 146,6 | 29,0 | 608,9 | 151,8 | 27,7 | 589,2 | 159,6 | 26,0 | 547,7 | 176,8 | 22,4 |
| | 10 | 669,7 | 135,5 | 33,5 | 637,3 | 148,1 | 30,4 | 623,7 | 153,6 | 29,1 | 603,2 | 161,5 | 27,2 | 560,1 | 178,6 | 23,5 |
| | 12 | 701,6 | 138,8 | 36,8 | 667,5 | 151,8 | 33,3 | 653,6 | 157,1 | 32,0 | 631,9 | 165,0 | 29,9 | 587,2 | 182,5 | 25,8 |
| | 15 | 749,3 | 144,1 | 42,0 | 713,4 | 157,0 | 38,1 | 698,3 | 162,4 | 36,5 | 674,7 | 170,7 | 34,0 | 627,5 | 188,2 | 29,5 |
| 660 | 5 | 668,1 | 144,7 | 33,0 | 636,0 | 158,8 | 29,9 | 622,5 | 164,6 | 28,6 | 601,7 | 173,4 | 26,8 | 559,3 | 192,6 | 23,1 |
| | 6 | 688,1 | 146,3 | 35,0 | 654,5 | 160,6 | 31,7 | 640,9 | 166,4 | 30,4 | 619,4 | 175,4 | 28,4 | 576,1 | 194,6 | 24,5 |
| | 7 | 708,1 | 148,1 | 37,1 | 673,7 | 162,4 | 33,5 | 659,4 | 168,4 | 32,1 | 637,6 | 177,2 | 30,0 | 592,5 | 196,6 | 26,0 |
| | 8 | 725,8 | 149,8 | 38,9 | 690,8 | 164,2 | 35,3 | 676,3 | 170,2 | 33,8 | 653,5 | 179,2 | 31,6 | 607,7 | 198,5 | 27,3 |
| | 9 | 744,0 | 151,6 | 40,9 | 707,8 | 166,2 | 37,0 | 692,5 | 172,1 | 35,5 | 670,2 | 181,0 | 33,2 | 623,0 | 200,5 | 28,7 |
| | 10 | 761,7 | 153,6 | 42,9 | 724,9 | 167,9 | 38,8 | 709,4 | 174,1 | 37,2 | 686,1 | 183,1 | 34,8 | 637,1 | 202,5 | 30,0 |
| | 12 | 798,0 | 157,3 | 47,1 | 759,2 | 172,1 | 42,6 | 743,4 | 178,0 | 40,8 | 718,7 | 187,1 | 38,2 | 667,9 | 206,9 | 33,0 |
| | 15 | 852,3 | 163,4 | 53,7 | 811,5 | 178,0 | 48,7 | 794,3 | 184,1 | 46,6 | 767,4 | 193,5 | 43,5 | 713,7 | 213,4 | 37,7 |
| 730 | 5 | 731,2 | 162,3 | 32,0 | 696,1 | 178,1 | 29,0 | 681,3 | 184,6 | 27,8 | 658,5 | 194,5 | 26,0 | 612,2 | 216,0 | 22,4 |
| | 6 | 753,1 | 164,1 | 33,9 | 716,3 | 180,1 | 30,7 | 701,4 | 186,6 | 29,5 | 677,9 | 196,7 | 27,5 | 630,5 | 218,3 | 23,8 |
| | 7 | 774,9 | 166,1 | 35,9 | 737,3 | 182,2 | 32,5 | 721,6 | 188,9 | 31,2 | 697,8 | 198,7 | 29,1 | 648,5 | 220,5 | 25,2 |
| | 8 | 794,4 | 168,1 | 37,8 | 756,0 | 184,2 | 34,2 | 740,1 | 190,9 | 32,8 | 715,3 | 201,0 | 30,6 | 665,1 | 222,6 | 26,5 |
| | 9 | 814,2 | 170,1 | 39,7 | 774,6 | 186,4 | 35,9 | 757,9 | 193,1 | 34,4 | 733,4 | 203,0 | 32,2 | 681,8 | 224,9 | 27,8 |
| | 10 | 833,6 | 172,3 | 41,6 | 793,3 | 188,4 | 37,7 | 776,4 | 195,3 | 36,1 | 750,9 | 205,4 | 33,8 | 697,3 | 227,1 | 29,1 |
| | 12 | 873,4 | 176,5 | 45,7 | 830,9 | 193,0 | 41,3 | 813,6 | 199,7 | 39,6 | 786,6 | 209,8 | 37,0 | 731,0 | 232,1 | 32,0 |
| | 15 | 932,8 | 183,3 | 52,1 | 888,1 | 199,6 | 47,2 | 869,3 | 206,6 | 45,2 | 839,8 | 217,1 | 42,2 | 781,1 | 239,3 | 36,5 |

* Only Compressors.

| Model | LWT °C | Condensing Air Temperature °C | | | | | | | | | | | |
|-------|-----------|-------------------------------|--------------------|---------------|-------|--------------------|---------------|-------|--------------------|---------------|------|--------------------|---------------|
| | | 44 | | | 46 | | | 49 | | | 51 | | |
| | | Cool | Input Power (*) | Pressure Drop | Cool | Input Power (*) | Pressure Drop | Cool | Input Power (*) | Pressure Drop | Cool | Input Power (*) | Pressure Drop |
| | | kW | kW | kPa | kW | kW | kPa | kW | kW | kPa | kW | kW | kPa |
| 380 | 5 | 303,1 | 124,1 | 11,7 | 288,3 | 131,6 | 10,6 | 271,8 | 138,6 | 9,4 | | | |
| | 6 | 312,1 | 125,4 | 12,4 | 296,8 | 133,0 | 11,2 | 280,9 | 140,1 | 10,0 | | | |
| | 7 | 321,1 | 126,7 | 13,1 | 305,4 | 134,2 | 11,9 | 291,8 | 141,1 | 10,8 | | | |
| | 8 | 329,3 | 127,9 | 13,8 | 313,2 | 135,5 | 12,5 | 294,6 | 141,7 | 11,1 | | | |
| | 9 | 337,5 | 129,1 | 14,5 | 321,0 | 136,7 | 13,1 | | | | | | |
| | 10 | 345,4 | 130,4 | 15,2 | 328,6 | 138,1 | 13,7 | | | | | | |
| | 12 | 361,8 | 133,2 | 16,7 | 344,1 | 141,0 | 15,1 | | | | | | |
| 440 | 15 | | | | | | | | | | | | |
| | 5 | 340,9 | 132,6 | 14,2 | 323,6 | 140,2 | 12,8 | 303,2 | 147,1 | 11,3 | | | |
| | 6 | 351,7 | 133,9 | 15,1 | 333,8 | 141,6 | 13,6 | 313,7 | 148,7 | 12,0 | | | |
| | 7 | 363,3 | 135,3 | 16,2 | 344,2 | 143,0 | 14,5 | 326,5 | 149,7 | 13,0 | | | |
| | 8 | 372,4 | 136,5 | 17,0 | 353,5 | 144,3 | 15,3 | 330,5 | 150,4 | 13,4 | | | |
| | 9 | 382,5 | 137,9 | 17,9 | 363,0 | 145,7 | 16,1 | | | | | | |
| | 10 | 392,0 | 139,3 | 18,8 | 372,3 | 147,1 | 17,0 | | | | | | |
| 510 | 12 | 412,2 | 142,2 | 20,8 | 416,7 | 161,7 | 21,3 | | | | | | |
| | 15 | | | | | | | | | | | | |
| | 5 | 414,4 | 166,2 | 12,8 | 394,1 | 176,1 | 11,6 | 371,7 | 185,5 | 10,3 | | | |
| | 6 | 426,8 | 167,9 | 13,6 | 405,8 | 178,0 | 12,3 | 384,0 | 187,5 | 11,0 | | | |
| | 7 | 439,1 | 169,6 | 14,4 | 417,6 | 179,7 | 13,0 | 398,9 | 188,8 | 11,9 | | | |
| | 8 | 450,2 | 171,2 | 15,2 | 428,2 | 181,3 | 13,7 | 402,9 | 189,7 | 12,1 | | | |
| | 9 | 461,5 | 172,8 | 15,9 | 438,9 | 183,0 | 14,4 | | | | | | |
| 590 | 10 | 472,2 | 174,6 | 16,7 | 449,3 | 184,9 | 15,1 | | | | | | |
| | 12 | 494,8 | 178,3 | 18,3 | 470,4 | 188,7 | 16,6 | | | | | | |
| | 15 | | | | | | | | | | | | |
| | 5 | 435,3 | 168,3 | 14,2 | 413,2 | 177,9 | 12,8 | 387,2 | 186,7 | 11,2 | | | |
| | 6 | 449,1 | 170,0 | 15,1 | 426,2 | 179,8 | 13,6 | 400,5 | 188,8 | 12,0 | | | |
| | 7 | 463,9 | 171,7 | 16,1 | 439,5 | 181,5 | 14,4 | 416,9 | 190,1 | 13,0 | | | |
| | 8 | 475,6 | 173,3 | 16,9 | 451,4 | 183,2 | 15,2 | 422,0 | 190,9 | 13,3 | | | |
| 660 | 9 | 488,4 | 175,0 | 17,8 | 463,5 | 184,9 | 16,1 | | | | | | |
| | 10 | 500,6 | 176,8 | 18,7 | 475,4 | 186,8 | 16,9 | | | | | | |
| | 12 | 526,4 | 180,5 | 20,7 | 532,1 | 205,2 | 21,2 | | | | | | |
| | 15 | | | | | | | | | | | | |
| | 5 | 495,2 | 190,8 | 18,1 | 470,0 | 201,7 | 16,3 | 440,4 | 211,7 | 14,3 | | | |
| | 6 | 510,8 | 192,8 | 19,3 | 484,8 | 203,8 | 17,4 | 455,6 | 214,0 | 15,3 | | | |
| | 7 | 527,7 | 194,7 | 20,6 | 499,9 | 205,7 | 18,5 | 474,2 | 215,5 | 16,6 | | | |
| 730 | 8 | 540,9 | 196,5 | 21,6 | 513,4 | 207,7 | 19,5 | 480,0 | 216,4 | 17,0 | | | |
| | 9 | 555,5 | 198,4 | 22,8 | 527,2 | 209,6 | 20,5 | | | | | | |
| | 10 | 569,4 | 200,4 | 24,0 | 540,7 | 211,7 | 21,6 | | | | | | |
| | 12 | 598,7 | 204,6 | 26,5 | 605,3 | 232,6 | 27,1 | | | | | | |
| | 15 | | | | | | | | | | | | |
| | 5 | 541,9 | 214,0 | 17,6 | 514,4 | 226,2 | 15,8 | 482,0 | 237,4 | 13,9 | | | |
| | 6 | 559,1 | 216,2 | 18,7 | 530,6 | 228,6 | 16,9 | 498,6 | 240,0 | 14,9 | | | |
| 730 | 7 | 577,5 | 218,4 | 20,0 | 547,1 | 230,8 | 17,9 | 519,0 | 241,7 | 16,1 | | | |
| | 8 | 592,0 | 220,4 | 21,0 | 561,9 | 232,9 | 18,9 | 525,4 | 242,8 | 16,5 | | | |
| | 9 | 607,9 | 222,5 | 22,1 | 577,0 | 235,1 | 19,9 | | | | | | |
| | 10 | 623,2 | 224,8 | 23,2 | 591,7 | 237,5 | 21,0 | | | | | | |
| | 12 | 655,3 | 229,6 | 25,7 | 662,4 | 242,4 | 26,3 | | | | | | |
| | 15 | | | | | | | | | | | | |

* Only Compressors.

 HT Version

Cooling Capacities - SYSCREW AIR EVO HSE R134a (STD/HT)

| Model | LWT °C | Condensing Air Temperature °C | | | | | | | | | | | | | | |
|-------|-----------|-------------------------------|--------------------|-----------------------|--------|--------------------|-----------------------|--------|--------------------|-----------------------|--------|--------------------|-----------------------|--------|--------------------|-----------------------|
| | | 25 | | | 30 | | | 32 | | | 35 | | | 40 | | |
| | | Cool | Input Power (*) | Pres- sure Drop | Cool | Input Power (*) | Pres- sure Drop | Cool | Input Power (*) | Pres- sure Drop | Cool | Input Power (*) | Pres- sure Drop | Cool | Input Power (*) | Pres- sure Drop |
| 810 | 5 | 807,8 | 179,1 | 39,1 | 769,0 | 196,6 | 35,4 | 752,7 | 203,7 | 33,9 | 727,6 | 214,6 | 31,7 | 676,3 | 238,4 | 27,4 |
| | 6 | 832,0 | 181,1 | 41,4 | 791,3 | 198,8 | 37,5 | 775,0 | 206,0 | 36,0 | 748,9 | 217,1 | 33,6 | 696,5 | 240,9 | 29,0 |
| | 7 | 856,2 | 183,3 | 43,9 | 814,6 | 201,0 | 39,7 | 797,3 | 208,4 | 38,0 | 770,9 | 219,3 | 35,6 | 716,4 | 243,4 | 30,7 |
| | 8 | 877,6 | 185,5 | 46,1 | 835,3 | 203,2 | 41,8 | 817,7 | 210,6 | 40,0 | 790,2 | 221,8 | 37,4 | 734,8 | 245,6 | 32,3 |
| | 9 | 899,6 | 187,7 | 48,4 | 855,8 | 205,7 | 43,8 | 837,4 | 213,1 | 42,0 | 810,3 | 224,0 | 39,3 | 753,3 | 248,1 | 34,0 |
| | 10 | 921,0 | 190,1 | 50,8 | 876,5 | 207,9 | 46,0 | 857,8 | 215,5 | 44,0 | 829,6 | 226,7 | 41,2 | 770,4 | 250,7 | 35,5 |
| | 12 | 964,9 | 194,7 | 55,7 | 918,0 | 213,0 | 50,4 | 898,9 | 220,4 | 48,4 | 869,0 | 231,6 | 45,2 | 807,6 | 256,1 | 39,0 |
| | 15 | 1030,6 | 202,3 | 63,6 | 981,2 | 220,3 | 57,6 | 960,4 | 227,9 | 55,2 | 927,9 | 239,6 | 51,5 | 863,0 | 264,1 | 44,6 |
| 900 | 5 | 931,1 | 206,2 | 22,5 | 886,4 | 226,4 | 20,4 | 867,5 | 234,6 | 19,5 | 838,5 | 247,2 | 18,2 | 779,5 | 274,5 | 15,8 |
| | 6 | 958,9 | 208,5 | 23,8 | 912,0 | 228,9 | 21,6 | 893,2 | 237,2 | 20,7 | 863,2 | 250,0 | 19,3 | 802,8 | 277,4 | 16,7 |
| | 7 | 986,8 | 211,1 | 25,2 | 938,8 | 231,5 | 22,9 | 918,9 | 240,0 | 21,9 | 888,5 | 252,6 | 20,5 | 825,7 | 280,3 | 17,7 |
| | 8 | 1011,5 | 213,6 | 26,5 | 962,7 | 234,0 | 24,0 | 942,5 | 242,6 | 23,0 | 910,8 | 255,4 | 21,5 | 846,9 | 282,9 | 18,6 |
| | 9 | 1036,8 | 216,1 | 27,9 | 986,4 | 236,9 | 25,2 | 965,1 | 245,4 | 24,1 | 933,9 | 258,0 | 22,6 | 868,2 | 285,8 | 19,5 |
| | 10 | 1061,5 | 218,9 | 29,2 | 1010,2 | 239,4 | 26,5 | 988,7 | 248,2 | 25,3 | 956,2 | 261,0 | 23,7 | 887,9 | 288,7 | 20,4 |
| | 12 | 1112,1 | 224,3 | 32,1 | 1058,0 | 245,3 | 29,0 | 1036,0 | 253,8 | 27,8 | 1001,6 | 266,7 | 26,0 | 930,7 | 295,0 | 22,5 |
| | 15 | 1187,8 | 232,9 | 36,6 | 1130,8 | 253,7 | 33,2 | 1106,9 | 262,5 | 31,8 | 1069,4 | 275,9 | 29,6 | 994,7 | 304,1 | 25,7 |
| 980 | 5 | 1021,0 | 228,9 | 25,6 | 971,9 | 251,3 | 23,2 | 951,2 | 260,4 | 22,3 | 919,5 | 274,4 | 20,8 | 854,8 | 304,7 | 18,0 |
| | 6 | 1051,5 | 231,4 | 27,2 | 1000,1 | 254,1 | 24,6 | 979,4 | 263,3 | 23,6 | 946,5 | 277,5 | 22,0 | 880,3 | 307,9 | 19,1 |
| | 7 | 1082,1 | 234,2 | 28,8 | 1029,5 | 256,9 | 26,1 | 1007,6 | 266,4 | 25,0 | 974,3 | 280,3 | 23,4 | 905,5 | 311,1 | 20,2 |
| | 8 | 1109,2 | 237,1 | 30,3 | 1055,7 | 259,8 | 27,4 | 1033,5 | 269,2 | 26,3 | 998,7 | 283,5 | 24,5 | 928,6 | 314,0 | 21,2 |
| | 9 | 1136,9 | 239,9 | 31,8 | 1081,6 | 262,9 | 28,8 | 1058,3 | 272,3 | 27,6 | 1024,1 | 286,3 | 25,8 | 952,0 | 317,2 | 22,3 |
| | 10 | 1164,0 | 243,0 | 33,3 | 1107,7 | 265,7 | 30,2 | 1084,2 | 275,5 | 28,9 | 1048,5 | 289,7 | 27,0 | 973,6 | 320,4 | 23,3 |
| | 12 | 1219,5 | 248,9 | 36,6 | 1160,2 | 272,2 | 33,1 | 1136,0 | 281,7 | 31,7 | 1098,3 | 296,0 | 29,7 | 1020,6 | 327,4 | 25,6 |
| | 15 | 1302,5 | 258,5 | 41,7 | 1240,1 | 281,6 | 37,8 | 1213,8 | 291,3 | 36,2 | 1172,7 | 306,2 | 33,8 | 1090,7 | 337,6 | 29,3 |
| 1060 | 5 | 1087,3 | 233,9 | 29,1 | 1035,1 | 256,8 | 26,4 | 1013,0 | 266,1 | 25,2 | 979,3 | 280,4 | 23,6 | 910,3 | 311,4 | 20,4 |
| | 6 | 1119,8 | 236,5 | 30,8 | 1065,1 | 259,7 | 27,9 | 1043,1 | 269,0 | 26,8 | 1008,0 | 283,6 | 25,0 | 937,5 | 314,6 | 21,6 |
| | 7 | 1152,4 | 239,4 | 32,7 | 1096,4 | 262,6 | 29,6 | 1073,1 | 272,2 | 28,3 | 1037,6 | 286,5 | 26,5 | 964,3 | 317,9 | 22,9 |
| | 8 | 1181,3 | 242,3 | 34,3 | 1124,2 | 265,5 | 31,1 | 1100,6 | 275,1 | 29,8 | 1063,6 | 289,7 | 27,8 | 989,0 | 320,9 | 24,1 |
| | 9 | 1210,8 | 245,2 | 36,1 | 1151,9 | 268,6 | 32,6 | 1127,1 | 278,3 | 31,2 | 1090,7 | 292,6 | 29,3 | 1013,9 | 324,1 | 25,3 |
| | 10 | 1239,6 | 248,3 | 37,8 | 1179,7 | 271,5 | 34,2 | 1154,6 | 281,5 | 32,8 | 1116,6 | 296,1 | 30,7 | 1036,9 | 327,4 | 26,4 |
| | 12 | 1298,8 | 254,4 | 41,5 | 1235,6 | 278,2 | 37,6 | 1209,8 | 287,9 | 36,0 | 1169,7 | 302,5 | 33,7 | 1086,9 | 334,5 | 29,1 |
| | 15 | 1387,1 | 264,2 | 47,3 | 1320,6 | 287,7 | 42,9 | 1292,7 | 297,7 | 41,1 | 1248,9 | 312,9 | 38,4 | 1161,6 | 345,0 | 33,2 |
| 1160 | 5 | 1198,0 | 261,3 | 35,0 | 1140,4 | 286,9 | 31,7 | 1116,1 | 297,3 | 30,4 | 1078,9 | 313,2 | 28,4 | 1002,9 | 347,8 | 24,5 |
| | 6 | 1233,8 | 264,2 | 37,1 | 1173,5 | 290,1 | 33,6 | 1149,2 | 300,6 | 32,2 | 1110,6 | 316,8 | 30,1 | 1032,9 | 351,5 | 26,0 |
| | 7 | 1269,6 | 267,4 | 39,3 | 1208,0 | 293,3 | 35,6 | 1182,3 | 304,1 | 34,1 | 1143,2 | 320,1 | 31,9 | 1062,4 | 355,2 | 27,5 |
| | 8 | 1301,5 | 270,7 | 41,3 | 1238,7 | 296,6 | 37,4 | 1212,6 | 307,4 | 35,8 | 1171,9 | 323,6 | 33,5 | 1089,6 | 358,5 | 28,9 |
| | 9 | 1334,0 | 273,9 | 43,4 | 1269,1 | 300,1 | 39,3 | 1241,8 | 310,9 | 37,6 | 1201,6 | 326,9 | 35,2 | 1117,0 | 362,1 | 30,4 |
| | 10 | 1365,8 | 277,4 | 45,5 | 1299,8 | 303,4 | 41,2 | 1272,1 | 314,5 | 39,5 | 1230,3 | 330,8 | 36,9 | 1142,4 | 365,8 | 31,8 |
| | 12 | 1430,9 | 284,2 | 49,9 | 1361,3 | 310,8 | 45,2 | 1332,9 | 321,6 | 43,3 | 1288,7 | 337,9 | 40,5 | 1197,6 | 373,8 | 35,0 |
| | 15 | 1528,3 | 295,2 | 56,9 | 1455,0 | 321,5 | 51,6 | 1424,3 | 332,6 | 49,5 | 1376,0 | 349,6 | 46,2 | 1279,8 | 385,4 | 39,9 |
| 1260 | 5 | 1287,7 | 291,1 | 40,4 | 1225,9 | 319,5 | 36,6 | 1199,7 | 331,2 | 35,1 | 1159,7 | 348,9 | 32,8 | 1078,1 | 387,4 | 28,3 |
| | 6 | 1326,2 | 294,3 | 42,9 | 1261,4 | 323,1 | 38,8 | 1235,3 | 334,8 | 37,2 | 1193,8 | 352,9 | 34,7 | 1110,3 | 391,5 | 30,1 |
| | 7 | 1364,7 | 297,9 | 45,4 | 1298,4 | 326,7 | 41,1 | 1270,8 | 338,7 | 39,4 | 1228,9 | 356,5 | 36,8 | 1142,0 | 395,6 | 31,8 |
| | 8 | 1398,9 | 301,5 | 47,7 | 1331,4 | 330,3 | 43,2 | 1303,4 | 342,3 | 41,4 | 1259,6 | 360,4 | 38,7 | 1124,4 | 369,3 | 30,8 |
| | 9 | 1433,9 | 305,0 | 50,1 | 1364,1 | 334,3 | 45,4 | 1334,8 | 346,3 | 43,4 | 1291,6 | 364,1 | 40,7 | 1152,7 | 373,1 | 32,4 |
| | 10 | 1468,1 | 309,0 | 52,5 | 1397,1 | 337,9 | 47,6 | 1367,4 | 350,3 | 45,6 | 1322,4 | 368,4 | 42,6 | 1178,8 | 376,8 | 33,9 |
| | 12 | 1538,1 | 316,5 | 57,7 | 1463,3 | 346,2 | 52,2 | 1432,8 | 358,2 | 50,0 | 1385,2 | 376,4 | 46,8 | 1235,8 | 385,1 | 37,2 |
| | 15 | 1642,8 | 328,7 | 65,8 | 1564,0 | 358,0 | 59,6 | 1530,9 | 370,5 | 57,1 | 1479,0 | 389,4 | 53,3 | 1320,6 | 397,0 | 42,5 |

* Only Compressors.

| Model | LWT °C | Condensing Air Temperature °C | | | | | | | | | | | |
|-------|-----------|-------------------------------|--------------------|---------------|--------|--------------------|---------------|-------|--------------------|---------------|------|--------------------|---------------|
| | | 44 | | | 46 | | | 49 | | | 51 | | |
| | | Cool | Input Power (*) | Pressure Drop | Cool | Input Power (*) | Pressure Drop | Cool | Input Power (*) | Pressure Drop | Cool | Input Power (*) | Pressure Drop |
| | | kW | kW | kPa | kW | kW | kPa | kW | kW | kPa | kW | kW | kPa |
| 810 | 5 | 598,7 | 236,1 | 21,5 | 568,3 | 249,7 | 19,3 | 532,5 | 262,0 | 17,0 | | | |
| | 6 | 617,7 | 238,6 | 22,8 | 586,2 | 252,3 | 20,6 | 550,8 | 264,9 | 18,2 | | | |
| | 7 | 638,1 | 241,0 | 24,4 | 604,4 | 254,7 | 21,9 | 573,3 | 266,7 | 19,7 | | | |
| | 8 | 654,0 | 243,2 | 25,6 | 620,8 | 257,1 | 23,1 | 580,4 | 267,9 | 20,2 | | | |
| | 9 | 671,7 | 245,6 | 27,0 | 637,5 | 259,4 | 24,3 | | | | | | |
| | 10 | 688,5 | 248,0 | 28,4 | 653,8 | 262,0 | 25,6 | | | | | | |
| | 12 | 723,9 | 253,3 | 31,4 | 687,0 | 267,5 | 28,3 | | | | | | |
| 900 | 15 | | | | | | | | | | | | |
| | 5 | 690,1 | 271,9 | 12,3 | 655,0 | 287,5 | 11,1 | 613,7 | 301,8 | 9,8 | | | |
| | 6 | 711,9 | 274,8 | 13,1 | 675,6 | 290,5 | 11,8 | 634,9 | 305,0 | 10,4 | | | |
| | 7 | 735,4 | 277,5 | 14,0 | 696,6 | 293,3 | 12,6 | 660,8 | 307,1 | 11,3 | | | |
| | 8 | 753,8 | 280,1 | 14,7 | 715,5 | 296,0 | 13,3 | 669,0 | 308,5 | 11,6 | | | |
| | 9 | 774,1 | 282,8 | 15,5 | 734,7 | 298,8 | 14,0 | | | | | | |
| | 10 | 793,5 | 285,7 | 16,3 | 753,5 | 301,8 | 14,7 | | | | | | |
| 980 | 12 | 834,4 | 291,7 | 18,0 | 791,8 | 308,1 | 16,3 | | | | | | |
| | 15 | | | | | | | | | | | | |
| | 5 | 756,7 | 301,8 | 14,1 | 718,3 | 319,1 | 12,7 | 673,0 | 334,9 | 11,1 | | | |
| | 6 | 780,6 | 305,0 | 15,0 | 740,8 | 322,5 | 13,5 | 696,2 | 338,5 | 11,9 | | | |
| | 7 | 806,4 | 308,0 | 16,0 | 763,9 | 325,5 | 14,4 | 724,6 | 340,9 | 12,9 | | | |
| | 8 | 826,6 | 310,9 | 16,8 | 784,6 | 328,6 | 15,1 | 733,6 | 342,4 | 13,2 | | | |
| | 9 | 848,9 | 313,9 | 17,7 | 805,7 | 331,6 | 16,0 | | | | | | |
| 1060 | 10 | 870,1 | 317,1 | 18,6 | 826,3 | 335,0 | 16,8 | | | | | | |
| | 12 | 915,0 | 323,8 | 20,6 | 868,3 | 341,9 | 18,5 | | | | | | |
| | 15 | | | | | | | | | | | | |
| | 5 | 805,9 | 308,4 | 16,0 | 764,9 | 326,1 | 14,4 | 716,7 | 342,3 | 12,6 | | | |
| | 6 | 831,4 | 311,7 | 17,0 | 789,0 | 329,5 | 15,3 | 741,4 | 346,0 | 13,5 | | | |
| | 7 | 858,8 | 314,7 | 18,1 | 813,6 | 332,6 | 16,3 | 771,7 | 348,4 | 14,6 | | | |
| | 8 | 880,3 | 317,7 | 19,1 | 835,6 | 335,8 | 17,2 | 781,3 | 349,9 | 15,0 | | | |
| 1160 | 9 | 904,0 | 320,8 | 20,1 | 858,0 | 338,9 | 18,1 | | | | | | |
| | 10 | 926,7 | 324,0 | 21,1 | 879,9 | 342,3 | 19,0 | | | | | | |
| | 12 | 974,4 | 330,9 | 23,4 | 924,7 | 349,4 | 21,0 | | | | | | |
| | 15 | | | | | | | | | | | | |
| | 5 | 887,9 | 344,6 | 19,2 | 842,8 | 364,3 | 17,3 | 789,7 | 382,4 | 15,2 | | | |
| | 6 | 916,0 | 348,2 | 20,5 | 869,3 | 368,1 | 18,4 | 816,9 | 386,5 | 16,3 | | | |
| | 7 | 946,2 | 351,6 | 21,8 | 896,3 | 371,6 | 19,6 | 850,2 | 389,2 | 17,6 | | | |
| 1260 | 8 | 969,9 | 354,9 | 22,9 | 920,6 | 375,1 | 20,7 | 860,8 | 391,0 | 18,1 | | | |
| | 9 | 996,0 | 358,4 | 24,2 | 945,3 | 378,6 | 21,8 | | | | | | |
| | 10 | 1021,0 | 362,0 | 25,4 | 969,5 | 382,4 | 22,9 | | | | | | |
| | 12 | 1073,6 | 369,7 | 28,1 | 1018,8 | 390,3 | 25,3 | | | | | | |
| | 15 | | | | | | | | | | | | |
| | 5 | 913,3 | 352,9 | 20,3 | 866,8 | 373,0 | 18,3 | 811,9 | 391,4 | 16,1 | | | |
| | 6 | 942,2 | 356,6 | 21,6 | 894,1 | 376,9 | 19,5 | 839,9 | 395,6 | 17,2 | | | |
| 1260 | 7 | 973,5 | 360,1 | 23,1 | 922,1 | 380,5 | 20,7 | 874,3 | 398,3 | 18,6 | | | |
| | 8 | 997,9 | 363,5 | 24,3 | 947,1 | 384,1 | 21,9 | 885,3 | 400,1 | 19,1 | | | |
| | 9 | 1024,9 | 367,0 | 25,6 | 972,6 | 387,6 | 23,1 | | | | | | |
| | 10 | 1050,6 | 370,7 | 26,9 | 997,5 | 391,5 | 24,3 | | | | | | |
| | 12 | 1104,9 | 378,6 | 29,8 | 1048,5 | 399,6 | 26,8 | | | | | | |
| | 15 | | | | | | | | | | | | |

* Only Compressors.

 HT Version

Cooling Capacities - SYSCREW AIR EVO HSE R513A (STD/HT)

| Model | LWT °C | Condensing Air Temperature °C | | | | | | | | | | | | | | |
|-------|-----------|-------------------------------|--------------------|-----------------------|-------|--------------------|-----------------------|-------|--------------------|-----------------------|-------|--------------------|-----------------------|-------|--------------------|-----------------------|
| | | 25 | | | 30 | | | 32 | | | 35 | | | 40 | | |
| | | Cool | Input Power (*) | Pres- sure Drop | Cool | Input Power (*) | Pres- sure Drop | Cool | Input Power (*) | Pres- sure Drop | Cool | Input Power (*) | Pres- sure Drop | Cool | Input Power (*) | Pres- sure Drop |
| 380 | 5 | 383,6 | 90,8 | 18,7 | 365,1 | 99,7 | 17,0 | 357,4 | 128,6 | 16,3 | 345,5 | 108,8 | 15,2 | 321,1 | 120,8 | 13,1 |
| | 6 | 395,0 | 91,8 | 19,9 | 375,7 | 100,8 | 18,0 | 368,0 | 129,9 | 17,2 | 355,6 | 110,1 | 16,1 | 330,7 | 122,1 | 13,9 |
| | 7 | 406,5 | 92,9 | 21,0 | 386,8 | 101,9 | 19,0 | 378,5 | 131,2 | 18,2 | 366,0 | 111,2 | 17,1 | 340,2 | 123,4 | 14,7 |
| | 8 | 416,7 | 94,0 | 22,1 | 396,6 | 103,0 | 20,0 | 388,3 | 132,4 | 19,2 | 375,2 | 112,4 | 17,9 | 348,9 | 124,5 | 15,5 |
| | 9 | 427,1 | 95,1 | 23,2 | 406,3 | 104,3 | 21,0 | 397,6 | 133,7 | 20,1 | 384,7 | 113,6 | 18,8 | 357,7 | 125,8 | 16,3 |
| | 10 | 437,3 | 96,4 | 24,3 | 416,2 | 105,4 | 22,1 | 407,3 | 135,0 | 21,1 | 393,9 | 114,9 | 19,8 | 365,8 | 127,1 | 17,0 |
| | 12 | 458,2 | 98,7 | 26,7 | 435,9 | 108,0 | 24,2 | 426,8 | 137,9 | 23,2 | 412,6 | 117,4 | 21,7 | 383,4 | 129,8 | 18,7 |
| | 15 | 489,3 | 102,5 | 30,5 | 465,9 | 111,7 | 27,6 | 456,0 | 142,1 | 26,5 | 440,6 | 121,4 | 24,7 | 409,8 | 133,9 | 21,4 |
| 440 | 5 | 464,6 | 103,6 | 26,4 | 442,3 | 113,7 | 23,9 | 432,8 | 117,8 | 22,9 | 418,4 | 124,1 | 21,4 | 389,0 | 137,8 | 18,5 |
| | 6 | 478,5 | 104,7 | 28,0 | 455,1 | 115,0 | 25,4 | 445,7 | 119,1 | 24,3 | 430,7 | 125,6 | 22,7 | 400,6 | 139,3 | 19,6 |
| | 7 | 492,4 | 106,0 | 29,7 | 468,5 | 116,2 | 26,9 | 458,5 | 120,5 | 25,7 | 443,4 | 126,8 | 24,1 | 412,0 | 140,7 | 20,8 |
| | 8 | 504,7 | 107,3 | 31,2 | 480,4 | 117,5 | 28,2 | 470,3 | 121,8 | 27,1 | 454,5 | 128,3 | 25,3 | 422,6 | 142,1 | 21,9 |
| | 9 | 517,3 | 108,5 | 32,8 | 492,2 | 118,9 | 29,7 | 481,6 | 123,2 | 28,4 | 466,0 | 129,5 | 26,6 | 433,2 | 143,5 | 23,0 |
| | 10 | 529,7 | 109,9 | 34,3 | 504,1 | 120,2 | 31,1 | 493,3 | 124,6 | 29,8 | 477,1 | 131,1 | 27,9 | 443,0 | 145,0 | 24,0 |
| | 12 | 554,9 | 112,6 | 37,7 | 527,9 | 123,2 | 34,1 | 516,9 | 127,5 | 32,7 | 499,8 | 133,9 | 30,6 | 464,4 | 148,1 | 26,4 |
| | 15 | 592,7 | 117,0 | 43,0 | 564,3 | 127,4 | 39,0 | 552,3 | 131,8 | 37,3 | 533,6 | 138,5 | 34,9 | 496,3 | 152,7 | 30,2 |
| 510 | 5 | 524,5 | 122,2 | 20,6 | 499,3 | 134,1 | 18,6 | 488,6 | 139,0 | 17,9 | 472,3 | 146,4 | 16,7 | 439,1 | 162,6 | 14,4 |
| | 6 | 540,1 | 123,5 | 21,8 | 513,7 | 135,6 | 19,7 | 503,1 | 140,5 | 18,9 | 486,2 | 148,1 | 17,7 | 452,2 | 164,3 | 15,3 |
| | 7 | 555,8 | 125,0 | 23,1 | 528,8 | 137,1 | 20,9 | 517,6 | 142,2 | 20,0 | 500,5 | 149,6 | 18,7 | 465,1 | 166,0 | 16,2 |
| | 8 | 569,8 | 126,5 | 24,3 | 542,3 | 138,6 | 22,0 | 530,9 | 143,7 | 21,1 | 513,0 | 151,3 | 19,7 | 477,0 | 167,6 | 17,0 |
| | 9 | 584,0 | 128,0 | 25,5 | 555,6 | 140,3 | 23,1 | 543,6 | 145,4 | 22,1 | 526,1 | 152,8 | 20,7 | 489,0 | 169,3 | 17,9 |
| | 10 | 597,9 | 129,7 | 26,7 | 569,0 | 141,8 | 24,2 | 556,9 | 147,0 | 23,2 | 538,6 | 154,6 | 21,7 | 500,1 | 171,0 | 18,7 |
| | 12 | 626,4 | 132,9 | 29,4 | 596,0 | 145,3 | 26,6 | 583,5 | 150,3 | 25,5 | 564,2 | 158,0 | 23,8 | 524,3 | 174,7 | 20,6 |
| | 15 | 669,1 | 138,0 | 33,5 | 637,0 | 150,3 | 30,3 | 623,5 | 155,5 | 29,1 | 602,4 | 163,4 | 27,1 | 560,3 | 180,2 | 23,5 |
| 590 | 5 | 593,2 | 132,2 | 26,3 | 564,7 | 145,1 | 23,9 | 552,7 | 150,4 | 22,9 | 534,3 | 158,4 | 21,4 | 496,7 | 175,9 | 18,5 |
| | 6 | 611,0 | 133,6 | 27,9 | 581,1 | 146,7 | 25,3 | 569,1 | 152,0 | 24,2 | 550,0 | 160,2 | 22,6 | 511,5 | 177,8 | 19,6 |
| | 7 | 628,7 | 135,3 | 29,6 | 598,2 | 148,4 | 26,8 | 585,5 | 153,8 | 25,6 | 566,1 | 161,9 | 24,0 | 526,1 | 179,6 | 20,7 |
| | 8 | 644,5 | 136,9 | 31,1 | 613,4 | 150,0 | 28,1 | 600,5 | 155,5 | 27,0 | 580,3 | 163,7 | 25,2 | 539,6 | 181,3 | 21,8 |
| | 9 | 660,6 | 138,5 | 32,6 | 628,5 | 151,8 | 29,5 | 614,9 | 157,3 | 28,3 | 595,1 | 165,3 | 26,5 | 553,2 | 183,2 | 22,9 |
| | 10 | 676,3 | 140,3 | 34,2 | 643,6 | 153,4 | 31,0 | 629,9 | 159,1 | 29,7 | 609,2 | 167,3 | 27,8 | 565,7 | 185,0 | 23,9 |
| | 12 | 708,6 | 143,7 | 37,6 | 674,1 | 157,2 | 34,0 | 660,1 | 162,7 | 32,6 | 638,2 | 170,9 | 30,5 | 593,0 | 189,0 | 26,3 |
| | 15 | 756,8 | 149,3 | 42,8 | 720,5 | 162,6 | 38,8 | 705,3 | 168,2 | 37,2 | 681,4 | 176,8 | 34,7 | 633,8 | 194,9 | 30,0 |
| 660 | 5 | 674,8 | 149,8 | 33,7 | 642,4 | 164,5 | 30,5 | 628,7 | 170,5 | 29,2 | 607,7 | 179,6 | 27,3 | 564,9 | 199,5 | 23,6 |
| | 6 | 694,9 | 151,5 | 35,7 | 661,0 | 166,4 | 32,3 | 647,3 | 172,4 | 31,0 | 625,6 | 181,7 | 28,9 | 581,8 | 201,6 | 25,0 |
| | 7 | 715,1 | 153,4 | 37,8 | 680,4 | 168,2 | 34,2 | 665,9 | 174,4 | 32,8 | 643,9 | 183,5 | 30,7 | 598,4 | 203,7 | 26,5 |
| | 8 | 733,1 | 155,2 | 39,7 | 697,7 | 170,1 | 36,0 | 683,0 | 176,3 | 34,5 | 660,0 | 185,6 | 32,2 | 613,7 | 205,6 | 27,8 |
| | 9 | 751,4 | 157,1 | 41,7 | 714,8 | 172,1 | 37,8 | 699,4 | 178,3 | 36,2 | 676,8 | 187,4 | 33,9 | 629,2 | 207,7 | 29,3 |
| | 10 | 769,3 | 159,1 | 43,7 | 732,1 | 174,0 | 39,6 | 716,5 | 180,3 | 38,0 | 693,0 | 189,7 | 35,5 | 643,5 | 209,8 | 30,6 |
| | 12 | 806,0 | 163,0 | 48,0 | 766,8 | 178,2 | 43,5 | 750,8 | 184,4 | 41,7 | 725,9 | 193,8 | 38,9 | 674,5 | 214,3 | 33,6 |
| | 15 | 860,8 | 169,2 | 54,8 | 819,5 | 184,3 | 49,6 | 802,2 | 190,7 | 47,6 | 775,0 | 200,5 | 44,4 | 720,8 | 221,0 | 38,4 |
| 730 | 5 | 738,5 | 168,0 | 32,6 | 703,0 | 184,4 | 29,6 | 688,0 | 191,2 | 28,3 | 665,1 | 201,4 | 26,5 | 618,3 | 223,6 | 22,9 |
| | 6 | 760,6 | 169,9 | 34,6 | 723,4 | 186,5 | 31,3 | 708,4 | 193,3 | 30,0 | 684,6 | 203,7 | 28,1 | 636,7 | 226,0 | 24,3 |
| | 7 | 782,7 | 172,0 | 36,7 | 744,7 | 188,6 | 33,2 | 728,8 | 195,5 | 31,8 | 704,8 | 205,8 | 29,7 | 654,9 | 228,3 | 25,7 |
| | 8 | 802,3 | 174,0 | 38,5 | 763,6 | 190,7 | 34,9 | 747,5 | 197,6 | 33,4 | 722,4 | 208,1 | 31,2 | 671,7 | 230,5 | 27,0 |
| | 9 | 822,3 | 176,1 | 40,5 | 782,3 | 193,0 | 36,6 | 765,5 | 199,9 | 35,1 | 740,8 | 210,2 | 32,8 | 688,6 | 232,8 | 28,4 |
| | 10 | 841,9 | 178,4 | 42,4 | 801,2 | 195,0 | 38,4 | 784,2 | 202,2 | 36,8 | 758,4 | 212,7 | 34,4 | 704,2 | 235,2 | 29,7 |
| | 12 | 882,1 | 182,7 | 46,6 | 839,2 | 199,8 | 42,2 | 821,7 | 206,8 | 40,4 | 794,4 | 217,3 | 37,8 | 738,2 | 240,3 | 32,6 |
| | 15 | 942,1 | 189,8 | 53,1 | 896,9 | 206,7 | 48,2 | 878,0 | 213,9 | 46,1 | 848,2 | 224,8 | 43,1 | 788,9 | 247,8 | 37,3 |

* Only Compressors.

| Model | LWT °C | Condensing Air Temperature °C | | | | | | | | | | | |
|-------|-----------|-------------------------------|--------------------|---------------|-------|--------------------|---------------|-------|--------------------|---------------|------|--------------------|---------------|
| | | 44 | | | 46 | | | 49 | | | 51 | | |
| | | Cool | Input Power (*) | Pressure Drop | Cool | Input Power (*) | Pressure Drop | Cool | Input Power (*) | Pressure Drop | Cool | Input Power (*) | Pressure Drop |
| | | kW | kW | kPa | kW | kW | kPa | kW | kW | kPa | kW | kW | kPa |
| 380 | 5 | 306,1 | 128,6 | 11,9 | 291,1 | 136,3 | 10,8 | 274,5 | 143,5 | 9,6 | | | |
| | 6 | 315,2 | 129,9 | 12,7 | 299,7 | 137,7 | 11,4 | 283,7 | 145,1 | 10,2 | | | |
| | 7 | 324,3 | 131,2 | 13,4 | 308,5 | 139,0 | 12,1 | 294,7 | 146,1 | 11,1 | | | |
| | 8 | 332,6 | 132,4 | 14,1 | 316,3 | 140,3 | 12,7 | 297,6 | 146,8 | 11,3 | | | |
| | 9 | 340,9 | 133,7 | 14,8 | 324,2 | 141,6 | 13,4 | | | | | | |
| | 10 | 348,8 | 135,0 | 15,5 | 331,9 | 143,0 | 14,0 | | | | | | |
| | 12 | 365,5 | 137,9 | 17,0 | | | | | | | | | |
| | 15 | | | | | | | | | | | | |
| | 5 | 344,3 | 136,6 | 14,5 | 326,8 | 144,4 | 13,1 | 306,2 | 151,5 | 11,5 | | | |
| | 6 | 355,2 | 138,0 | 15,4 | 337,1 | 145,9 | 13,9 | 316,8 | 153,2 | 12,3 | | | |
| | 7 | 366,9 | 139,3 | 16,5 | 347,6 | 147,3 | 14,8 | 329,7 | 154,2 | 13,3 | | | |
| | 8 | 376,1 | 140,7 | 17,3 | 357,0 | 148,7 | 15,6 | 333,8 | 154,9 | 13,6 | | | |
| | 9 | 386,3 | 142,0 | 18,3 | 366,6 | 150,0 | 16,5 | | | | | | |
| | 10 | 395,9 | 143,5 | 19,2 | 376,0 | 151,5 | 17,3 | | | | | | |
| | 12 | 416,3 | 146,5 | 21,2 | | | | | | | | | |
| | 15 | | | | | | | | | | | | |
| 440 | 5 | 418,6 | 173,0 | 13,1 | 398,1 | 183,4 | 11,9 | 375,4 | 193,2 | 10,5 | | | |
| | 6 | 431,0 | 174,8 | 13,9 | 409,8 | 185,3 | 12,6 | 387,9 | 195,2 | 11,3 | | | |
| | 7 | 443,5 | 176,5 | 14,7 | 421,8 | 187,0 | 13,3 | 402,9 | 196,6 | 12,1 | | | |
| | 8 | 454,7 | 178,2 | 15,5 | 432,5 | 188,8 | 14,0 | 406,9 | 197,5 | 12,4 | | | |
| | 9 | 466,1 | 179,9 | 16,3 | 443,3 | 190,5 | 14,7 | | | | | | |
| | 10 | 476,9 | 181,7 | 17,0 | 453,8 | 192,5 | 15,4 | | | | | | |
| | 12 | 499,7 | 185,6 | 18,7 | | | | | | | | | |
| | 15 | | | | | | | | | | | | |
| | 5 | 439,7 | 174,3 | 14,5 | 417,3 | 184,3 | 13,0 | 391,0 | 193,4 | 11,4 | | | |
| | 6 | 453,6 | 176,1 | 15,4 | 430,5 | 186,2 | 13,9 | 404,5 | 195,5 | 12,2 | | | |
| | 7 | 468,6 | 177,9 | 16,4 | 443,9 | 188,0 | 14,7 | 421,0 | 196,8 | 13,3 | | | |
| | 8 | 480,3 | 179,5 | 17,3 | 455,9 | 189,7 | 15,5 | 426,3 | 197,7 | 13,6 | | | |
| | 9 | 493,2 | 181,3 | 18,2 | 468,1 | 191,5 | 16,4 | | | | | | |
| | 10 | 505,6 | 183,1 | 19,1 | 480,1 | 193,4 | 17,2 | | | | | | |
| | 12 | 531,6 | 187,0 | 21,1 | | | | | | | | | |
| | 15 | | | | | | | | | | | | |
| 510 | 5 | 500,1 | 197,6 | 18,5 | 474,7 | 208,9 | 16,7 | 444,8 | 219,3 | 14,6 | | | |
| | 6 | 515,9 | 199,7 | 19,7 | 489,6 | 211,1 | 17,7 | 460,1 | 221,6 | 15,6 | | | |
| | 7 | 532,9 | 201,6 | 21,0 | 504,9 | 213,1 | 18,8 | 478,9 | 223,2 | 17,0 | | | |
| | 8 | 546,3 | 203,5 | 22,1 | 518,5 | 215,1 | 19,9 | 484,8 | 224,2 | 17,4 | | | |
| | 9 | 561,0 | 205,5 | 23,3 | 532,5 | 217,1 | 21,0 | | | | | | |
| | 10 | 575,1 | 207,6 | 24,4 | 546,1 | 219,3 | 22,0 | | | | | | |
| | 12 | 604,7 | 212,0 | 27,0 | | | | | | | | | |
| | 15 | | | | | | | | | | | | |
| | 5 | 547,3 | 221,5 | 17,9 | 519,5 | 234,3 | 16,2 | 486,8 | 245,8 | 14,2 | | | |
| | 6 | 564,6 | 223,9 | 19,1 | 535,9 | 236,7 | 17,2 | 503,6 | 248,5 | 15,2 | | | |
| | 7 | 583,3 | 226,1 | 20,4 | 552,6 | 238,9 | 18,3 | 524,1 | 250,2 | 16,4 | | | |
| | 8 | 597,9 | 228,2 | 21,4 | 567,5 | 241,2 | 19,3 | 530,6 | 251,4 | 16,9 | | | |
| | 9 | 614,0 | 230,4 | 22,6 | 582,7 | 243,4 | 20,3 | | | | | | |
| | 10 | 629,4 | 232,7 | 23,7 | 597,6 | 245,9 | 21,4 | | | | | | |
| | 12 | 661,8 | 237,7 | 26,2 | | | | | | | | | |
| | 15 | | | | | | | | | | | | |
| 660 | 5 | 500,1 | 197,6 | 18,5 | 474,7 | 208,9 | 16,7 | 444,8 | 219,3 | 14,6 | | | |
| | 6 | 515,9 | 199,7 | 19,7 | 489,6 | 211,1 | 17,7 | 460,1 | 221,6 | 15,6 | | | |
| | 7 | 532,9 | 201,6 | 21,0 | 504,9 | 213,1 | 18,8 | 478,9 | 223,2 | 17,0 | | | |
| | 8 | 546,3 | 203,5 | 22,1 | 518,5 | 215,1 | 19,9 | 484,8 | 224,2 | 17,4 | | | |
| | 9 | 561,0 | 205,5 | 23,3 | 532,5 | 217,1 | 21,0 | | | | | | |
| | 10 | 575,1 | 207,6 | 24,4 | 546,1 | 219,3 | 22,0 | | | | | | |
| | 12 | 604,7 | 212,0 | 27,0 | | | | | | | | | |
| | 15 | | | | | | | | | | | | |
| | 5 | 547,3 | 221,5 | 17,9 | 519,5 | 234,3 | 16,2 | 486,8 | 245,8 | 14,2 | | | |
| | 6 | 564,6 | 223,9 | 19,1 | 535,9 | 236,7 | 17,2 | 503,6 | 248,5 | 15,2 | | | |
| | 7 | 583,3 | 226,1 | 20,4 | 552,6 | 238,9 | 18,3 | 524,1 | 250,2 | 16,4 | | | |
| | 8 | 597,9 | 228,2 | 21,4 | 567,5 | 241,2 | 19,3 | 530,6 | 251,4 | 16,9 | | | |
| | 9 | 614,0 | 230,4 | 22,6 | 582,7 | 243,4 | 20,3 | | | | | | |
| | 10 | 629,4 | 232,7 | 23,7 | 597,6 | 245,9 | 21,4 | | | | | | |
| | 12 | 661,8 | 237,7 | 26,2 | | | | | | | | | |
| | 15 | | | | | | | | | | | | |
| 730 | 5 | 547,3 | 221,5 | 17,9 | 519,5 | 234,3 | 16,2 | 486,8 | 245,8 | 14,2 | | | |
| | 6 | 564,6 | 223,9 | 19,1 | 535,9 | 236,7 | 17,2 | 503,6 | 248,5 | 15,2 | | | |
| | 7 | 583,3 | 226,1 | 20,4 | 552,6 | 238,9 | 18,3 | 524,1 | 250,2 | 16,4 | | | |
| | 8 | 597,9 | 228,2 | 21,4 | 567,5 | 241,2 | 19,3 | 530,6 | 251,4 | 16,9 | | | |
| | 9 | 614,0 | 230,4 | 22,6 | 582,7 | 243,4 | 20,3 | | | | | | |
| | 10 | 629,4 | 232,7 | 23,7 | 597,6 | 245,9 | 21,4 | | | | | | |
| | 12 | 661,8 | 237,7 | 26,2 | | | | | | | | | |
| | 15 | | | | | | | | | | | | |

* Only Compressors.

 HT Version

Cooling Capacities - SYSCREW AIR EVO HSE R513A (STD/HT)

| Model | LWT °C | Condensing Air Temperature °C | | | | | | | | | | | | | | |
|-------|-----------|-------------------------------|--------------------|-----------------------|--------|--------------------|-----------------------|--------|--------------------|-----------------------|--------|--------------------|-----------------------|--------|--------------------|-----------------------|
| | | 25 | | | 30 | | | 32 | | | 35 | | | 40 | | |
| | | Cool | Input Power (*) | Pres- sure Drop | Cool | Input Power (*) | Pres- sure Drop | Cool | Input Power (*) | Pres- sure Drop | Cool | Input Power (*) | Pres- sure Drop | Cool | Input Power (*) | Pres- sure Drop |
| 810 | 5 | 815,9 | 185,4 | 39,8 | 776,7 | 203,6 | 36,1 | 760,1 | 211,0 | 34,6 | 734,8 | 222,3 | 32,3 | 683,1 | 246,8 | 27,9 |
| | 6 | 840,3 | 187,5 | 42,3 | 799,2 | 205,9 | 38,2 | 782,7 | 213,3 | 36,7 | 756,4 | 224,8 | 34,2 | 703,5 | 249,4 | 29,6 |
| | 7 | 864,7 | 189,8 | 44,8 | 822,7 | 208,1 | 40,5 | 805,2 | 215,8 | 38,8 | 778,6 | 227,1 | 36,3 | 723,6 | 252,0 | 31,3 |
| | 8 | 886,4 | 192,1 | 47,0 | 843,6 | 210,4 | 42,6 | 825,9 | 218,1 | 40,8 | 798,1 | 229,6 | 38,1 | 742,1 | 254,4 | 33,0 |
| | 9 | 908,5 | 194,3 | 49,4 | 864,3 | 213,0 | 44,7 | 845,7 | 220,6 | 42,8 | 818,4 | 231,9 | 40,1 | 760,8 | 257,0 | 34,6 |
| | 10 | 930,2 | 196,9 | 51,8 | 885,2 | 215,3 | 46,9 | 866,4 | 223,2 | 44,9 | 837,9 | 234,7 | 42,0 | 778,0 | 259,6 | 36,2 |
| | 12 | 974,5 | 201,7 | 56,9 | 927,1 | 220,5 | 51,5 | 907,8 | 228,2 | 49,3 | 877,7 | 239,8 | 46,1 | 815,6 | 265,2 | 39,8 |
| | 15 | 1040,9 | 209,4 | 64,9 | 990,9 | 228,1 | 58,8 | 970,0 | 236,0 | 56,3 | 937,1 | 248,1 | 52,6 | 871,6 | 273,5 | 45,5 |
| 900 | 5 | 940,4 | 213,5 | 22,9 | 895,2 | 234,4 | 20,8 | 876,1 | 243,0 | 19,9 | 846,9 | 256,0 | 18,6 | 787,3 | 284,2 | 16,1 |
| | 6 | 968,5 | 215,9 | 24,3 | 921,1 | 237,1 | 22,0 | 902,1 | 245,6 | 21,1 | 871,8 | 258,9 | 19,7 | 810,8 | 287,2 | 17,0 |
| | 7 | 996,6 | 218,5 | 25,8 | 948,2 | 239,7 | 23,3 | 928,1 | 248,5 | 22,3 | 897,4 | 261,5 | 20,9 | 834,0 | 290,2 | 18,0 |
| | 8 | 1021,6 | 221,2 | 27,1 | 972,3 | 242,3 | 24,5 | 951,9 | 251,2 | 23,5 | 919,9 | 264,5 | 21,9 | 855,3 | 292,9 | 19,0 |
| | 9 | 1047,1 | 223,8 | 28,4 | 996,2 | 245,2 | 25,7 | 974,7 | 254,1 | 24,6 | 943,2 | 267,1 | 23,1 | 876,8 | 295,9 | 19,9 |
| | 10 | 1072,1 | 226,7 | 29,8 | 1020,3 | 247,9 | 27,0 | 998,5 | 257,0 | 25,9 | 965,7 | 270,3 | 24,2 | 896,7 | 298,9 | 20,8 |
| | 12 | 1123,2 | 232,2 | 32,7 | 1068,6 | 254,0 | 29,6 | 1046,3 | 262,8 | 28,4 | 1011,6 | 276,1 | 26,5 | 940,0 | 305,4 | 22,9 |
| | 15 | 1199,7 | 241,2 | 37,3 | 1142,1 | 262,7 | 33,8 | 1118,0 | 271,8 | 32,4 | 1080,1 | 285,7 | 30,2 | 1004,6 | 314,9 | 26,2 |
| 980 | 5 | 1031,2 | 237,0 | 26,2 | 981,6 | 260,2 | 23,7 | 960,7 | 269,7 | 22,7 | 928,7 | 284,1 | 21,2 | 863,3 | 315,5 | 18,3 |
| | 6 | 1062,0 | 239,6 | 27,7 | 1010,1 | 263,1 | 25,1 | 989,2 | 272,6 | 24,1 | 956,0 | 287,3 | 22,5 | 889,1 | 318,8 | 19,4 |
| | 7 | 1092,9 | 242,6 | 29,4 | 1039,8 | 266,0 | 26,6 | 1017,7 | 275,8 | 25,5 | 984,1 | 290,3 | 23,8 | 914,5 | 322,1 | 20,6 |
| | 8 | 1120,3 | 245,5 | 30,9 | 1066,2 | 269,0 | 28,0 | 1043,8 | 278,8 | 26,8 | 1008,7 | 293,5 | 25,0 | 937,9 | 325,1 | 21,6 |
| | 9 | 1148,2 | 248,4 | 32,4 | 1092,4 | 272,2 | 29,4 | 1068,9 | 282,0 | 28,1 | 1034,3 | 296,5 | 26,3 | 961,5 | 328,4 | 22,7 |
| | 10 | 1175,6 | 251,6 | 34,0 | 1118,8 | 275,1 | 30,8 | 1095,0 | 285,2 | 29,5 | 1059,0 | 300,0 | 27,6 | 983,3 | 331,7 | 23,8 |
| | 12 | 1231,7 | 257,7 | 37,3 | 1171,8 | 281,9 | 33,8 | 1147,4 | 291,7 | 32,4 | 1109,3 | 306,5 | 30,3 | 1030,8 | 339,0 | 26,1 |
| | 15 | 1315,5 | 267,7 | 42,6 | 1252,4 | 291,6 | 38,6 | 1225,9 | 301,7 | 37,0 | 1184,4 | 317,1 | 34,5 | 1101,6 | 349,5 | 29,9 |
| 1060 | 5 | 1098,2 | 242,3 | 29,7 | 1045,4 | 265,9 | 26,9 | 1023,1 | 275,6 | 25,8 | 989,0 | 290,4 | 24,1 | 919,4 | 322,5 | 20,8 |
| | 6 | 1131,0 | 244,9 | 31,5 | 1075,7 | 268,9 | 28,5 | 1053,5 | 278,6 | 27,3 | 1018,1 | 293,7 | 25,5 | 946,9 | 325,9 | 22,1 |
| | 7 | 1163,9 | 247,9 | 33,3 | 1107,3 | 271,9 | 30,2 | 1083,8 | 281,9 | 28,9 | 1048,0 | 296,7 | 27,0 | 973,9 | 329,2 | 23,3 |
| | 8 | 1193,0 | 250,9 | 35,0 | 1135,5 | 274,9 | 31,7 | 1111,6 | 284,9 | 30,4 | 1074,2 | 300,0 | 28,4 | 998,8 | 332,3 | 24,5 |
| | 9 | 1222,8 | 253,9 | 36,8 | 1163,4 | 278,2 | 33,3 | 1138,3 | 288,2 | 31,9 | 1101,5 | 303,0 | 29,8 | 1024,0 | 335,7 | 25,8 |
| | 10 | 1252,0 | 257,2 | 38,6 | 1191,5 | 281,2 | 34,9 | 1166,1 | 291,6 | 33,5 | 1127,8 | 306,6 | 31,3 | 1047,2 | 339,1 | 27,0 |
| | 12 | 1311,7 | 263,5 | 42,3 | 1247,9 | 288,1 | 38,3 | 1221,9 | 298,2 | 36,7 | 1181,3 | 313,3 | 34,3 | 1097,8 | 346,5 | 29,6 |
| | 15 | 1401,0 | 273,6 | 48,3 | 1333,8 | 298,0 | 43,8 | 1305,6 | 308,4 | 41,9 | 1261,3 | 324,1 | 39,1 | 1173,2 | 357,3 | 33,9 |
| 1160 | 5 | 1209,9 | 270,6 | 35,7 | 1151,8 | 297,1 | 32,3 | 1127,3 | 307,9 | 31,0 | 1089,7 | 324,4 | 28,9 | 1012,9 | 360,2 | 25,0 |
| | 6 | 1246,1 | 273,6 | 37,9 | 1185,2 | 300,4 | 34,2 | 1160,7 | 311,3 | 32,8 | 1121,7 | 328,1 | 30,7 | 1043,2 | 364,0 | 26,5 |
| | 7 | 1282,3 | 277,0 | 40,1 | 1220,0 | 303,8 | 36,3 | 1194,1 | 315,0 | 34,8 | 1154,6 | 331,5 | 32,5 | 1073,0 | 367,8 | 28,1 |
| | 8 | 1314,4 | 280,3 | 42,1 | 1251,0 | 307,1 | 38,2 | 1224,7 | 318,3 | 36,6 | 1183,5 | 335,2 | 34,2 | 1100,5 | 371,2 | 29,5 |
| | 9 | 1347,3 | 283,6 | 44,3 | 1281,7 | 310,8 | 40,1 | 1254,1 | 322,0 | 38,3 | 1213,6 | 338,5 | 35,9 | 1128,2 | 375,0 | 31,0 |
| | 10 | 1379,4 | 287,3 | 46,4 | 1312,7 | 314,2 | 42,0 | 1284,8 | 325,7 | 40,2 | 1242,5 | 342,6 | 37,6 | 1153,8 | 378,8 | 32,5 |
| | 12 | 1445,2 | 294,3 | 50,9 | 1374,9 | 321,9 | 46,1 | 1346,2 | 333,1 | 44,2 | 1301,5 | 349,9 | 41,3 | 1209,5 | 387,1 | 35,7 |
| | 15 | 1543,5 | 305,7 | 58,1 | 1469,5 | 332,9 | 52,6 | 1438,4 | 344,5 | 50,4 | 1389,7 | 362,0 | 47,1 | 1292,5 | 399,1 | 40,7 |
| 1260 | 5 | 1300,5 | 301,3 | 41,2 | 1238,1 | 330,8 | 37,4 | 1211,7 | 342,8 | 35,8 | 1171,3 | 361,2 | 33,4 | 1088,8 | 401,1 | 28,9 |
| | 6 | 1339,4 | 304,7 | 43,7 | 1274,0 | 334,5 | 39,6 | 1247,6 | 346,6 | 37,9 | 1205,7 | 365,3 | 35,4 | 1121,4 | 405,3 | 30,7 |
| | 7 | 1378,3 | 308,4 | 46,3 | 1311,4 | 338,2 | 41,9 | 1283,5 | 350,7 | 40,2 | 1241,1 | 369,0 | 37,6 | 1153,4 | 409,5 | 32,4 |
| | 8 | 1412,9 | 312,1 | 48,7 | 1344,7 | 341,9 | 44,1 | 1316,4 | 354,4 | 42,3 | 1272,2 | 373,2 | 39,5 | 1135,6 | 382,3 | 31,4 |
| | 9 | 1448,2 | 315,8 | 51,1 | 1377,7 | 346,1 | 46,3 | 1348,1 | 358,5 | 44,3 | 1304,5 | 376,9 | 41,5 | 1164,2 | 386,2 | 33,0 |
| | 10 | 1482,7 | 319,9 | 53,6 | 1411,0 | 349,8 | 48,5 | 1381,0 | 362,6 | 46,5 | 1335,6 | 381,4 | 43,5 | 1190,6 | 390,1 | 34,6 |
| | 12 | 1553,4 | 327,7 | 58,8 | 1477,9 | 358,4 | 53,2 | 1447,1 | 370,8 | 51,1 | 1399,0 | 389,6 | 47,7 | 1248,1 | 398,6 | 38,0 |
| | 15 | 1659,1 | 340,3 | 67,1 | 1579,6 | 370,7 | 60,8 | 1546,2 | 383,5 | 58,3 | 1493,8 | 403,1 | 54,4 | 1333,8 | 411,0 | 43,4 |

* Only Compressors.

| Model | LWT °C | Condensing Air Temperature °C | | | | | | | | | | | |
|-------|-----------|-------------------------------|--------------------|---------------|-------|--------------------|---------------|-------|--------------------|---------------|------|--------------------|---------------|
| | | 44 | | | 46 | | | 49 | | | 51 | | |
| | | Cool | Input Power (*) | Pressure Drop | Cool | Input Power (*) | Pressure Drop | Cool | Input Power (*) | Pressure Drop | Cool | Input Power (*) | Pressure Drop |
| | | kW | kW | kPa | kW | kW | kPa | kW | kW | kPa | kW | kW | kPa |
| 810 | 5 | 604,7 | 244,5 | 21,9 | 574,0 | 258,5 | 19,7 | 537,8 | 271,3 | 17,3 | | | |
| | 6 | 623,8 | 247,1 | 23,3 | 592,0 | 261,2 | 21,0 | 556,3 | 274,3 | 18,5 | | | |
| | 7 | 644,4 | 249,5 | 24,9 | 610,5 | 263,7 | 22,3 | 579,1 | 276,2 | 20,1 | | | |
| | 8 | 660,6 | 251,8 | 26,1 | 627,0 | 266,2 | 23,5 | 586,2 | 277,4 | 20,6 | | | |
| | 9 | 678,4 | 254,3 | 27,5 | 643,8 | 268,7 | 24,8 | | | | | | |
| | 10 | 695,3 | 256,9 | 28,9 | 660,3 | 271,4 | 26,1 | | | | | | |
| | 12 | 731,2 | 262,3 | 32,0 | | | | | | | | | |
| 900 | 15 | | | | | | | | | | | | |
| | 5 | 697,0 | 281,6 | 12,6 | 661,6 | 297,7 | 11,3 | 619,8 | 312,5 | 10,0 | | | |
| | 6 | 719,0 | 284,5 | 13,4 | 682,3 | 300,8 | 12,1 | 641,2 | 315,8 | 10,7 | | | |
| | 7 | 742,7 | 287,3 | 14,3 | 703,6 | 303,7 | 12,8 | 667,4 | 318,0 | 11,5 | | | |
| | 8 | 761,3 | 290,0 | 15,0 | 722,7 | 306,5 | 13,5 | 675,7 | 319,5 | 11,8 | | | |
| | 9 | 781,8 | 292,8 | 15,8 | 742,0 | 309,4 | 14,3 | | | | | | |
| | 10 | 801,4 | 295,8 | 16,7 | 761,0 | 312,5 | 15,0 | | | | | | |
| 980 | 12 | 842,7 | 302,1 | 18,4 | | | | | | | | | |
| | 15 | | | | | | | | | | | | |
| | 5 | 764,3 | 312,5 | 14,4 | 725,4 | 330,4 | 12,9 | 679,7 | 346,8 | 11,4 | | | |
| | 6 | 788,4 | 315,8 | 15,3 | 748,2 | 333,9 | 13,8 | 703,1 | 350,5 | 12,2 | | | |
| | 7 | 814,5 | 318,9 | 16,3 | 771,5 | 337,0 | 14,6 | 731,8 | 353,0 | 13,2 | | | |
| | 8 | 834,9 | 321,9 | 17,1 | 792,4 | 340,2 | 15,4 | 740,9 | 354,6 | 13,5 | | | |
| | 9 | 857,3 | 325,0 | 18,1 | 813,7 | 343,4 | 16,3 | | | | | | |
| 1060 | 10 | 878,8 | 328,3 | 19,0 | 834,5 | 346,8 | 17,1 | | | | | | |
| | 12 | 924,1 | 335,3 | 21,0 | | | | | | | | | |
| | 15 | | | | | | | | | | | | |
| | 5 | 813,9 | 319,4 | 16,3 | 772,6 | 337,8 | 14,7 | 723,9 | 354,5 | 12,9 | | | |
| | 6 | 839,7 | 322,8 | 17,3 | 796,8 | 341,3 | 15,6 | 748,8 | 358,3 | 13,8 | | | |
| | 7 | 867,4 | 326,0 | 18,5 | 821,7 | 344,5 | 16,6 | 779,4 | 360,8 | 14,9 | | | |
| | 8 | 889,1 | 329,0 | 19,4 | 843,9 | 347,8 | 17,5 | 789,1 | 362,4 | 15,3 | | | |
| 1160 | 9 | 913,1 | 332,2 | 20,5 | 866,6 | 351,0 | 18,5 | | | | | | |
| | 10 | 935,9 | 335,6 | 21,5 | 888,7 | 354,5 | 19,4 | | | | | | |
| | 12 | 984,1 | 342,7 | 23,8 | | | | | | | | | |
| | 15 | | | | | | | | | | | | |
| | 5 | 896,7 | 356,8 | 19,6 | 851,2 | 377,3 | 17,7 | 797,5 | 396,0 | 15,5 | | | |
| | 6 | 925,1 | 360,6 | 20,9 | 877,9 | 381,3 | 18,8 | 825,0 | 400,3 | 16,6 | | | |
| | 7 | 955,6 | 364,2 | 22,3 | 905,3 | 384,9 | 20,0 | 858,7 | 403,0 | 18,0 | | | |
| 1260 | 8 | 979,6 | 367,6 | 23,4 | 929,8 | 388,5 | 21,1 | 869,3 | 404,9 | 18,4 | | | |
| | 9 | 1006,0 | 371,1 | 24,7 | 954,7 | 392,1 | 22,2 | | | | | | |
| | 10 | 1031,1 | 374,9 | 25,9 | 979,2 | 396,0 | 23,4 | | | | | | |
| | 12 | 1084,3 | 382,8 | 28,7 | | | | | | | | | |
| | 15 | | | | | | | | | | | | |

* Only Compressors.

 HT Version

Cooling Capacities - SYSCREW AIR EVO HSE S R134a

| Model | LWT °C | Condensing Air Temperature °C | | | | | | | | | | | |
|-------|-----------|-------------------------------|--------------------|---------------|-------|--------------------|---------------|-------|--------------------|---------------|-------|--------------------|---------------|
| | | 25 | | | 30 | | | 32 | | | 35 | | |
| | | Cool | Input Power (*) | Pressure Drop | Cool | Input Power (*) | Pressure Drop | Cool | Input Power (*) | Pressure Drop | Cool | Input Power (*) | Pressure Drop |
| 380 | 5 | 376,8 | 92,4 | 18,1 | 358,7 | 101,4 | 16,4 | 351,0 | 105,1 | 15,7 | 339,3 | 110,7 | 14,7 |
| | 6 | 388,1 | 93,4 | 19,2 | 369,1 | 102,5 | 17,3 | 361,4 | 106,2 | 16,6 | 349,3 | 112,0 | 15,5 |
| | 7 | 399,3 | 94,5 | 20,3 | 379,9 | 103,7 | 18,4 | 371,9 | 107,5 | 17,6 | 359,6 | 113,1 | 16,5 |
| | 8 | 409,3 | 95,7 | 21,3 | 389,6 | 104,8 | 19,3 | 381,4 | 108,6 | 18,5 | 368,6 | 114,4 | 17,3 |
| | 9 | 419,6 | 96,8 | 22,4 | 399,2 | 106,1 | 20,3 | 390,6 | 109,9 | 19,4 | 377,9 | 115,5 | 18,2 |
| | 10 | 429,6 | 98,1 | 23,5 | 408,8 | 107,2 | 21,3 | 400,1 | 111,2 | 20,4 | 386,9 | 116,9 | 19,1 |
| | 12 | 450,1 | 100,5 | 25,8 | 428,2 | 109,9 | 23,3 | 419,2 | 113,7 | 22,4 | 405,3 | 119,4 | 20,9 |
| | 15 | 480,7 | 104,3 | 29,4 | 457,6 | 113,6 | 26,7 | 448,0 | 117,6 | 25,5 | 432,8 | 123,6 | 23,8 |
| 440 | 5 | 458,7 | 105,3 | 25,8 | 436,7 | 115,6 | 23,3 | 427,4 | 119,8 | 22,4 | 413,1 | 126,2 | 20,9 |
| | 6 | 472,4 | 106,5 | 27,3 | 449,3 | 116,9 | 24,7 | 440,0 | 121,1 | 23,7 | 425,3 | 127,7 | 22,1 |
| | 7 | 486,2 | 107,8 | 28,9 | 462,5 | 118,2 | 26,2 | 452,7 | 122,5 | 25,1 | 437,8 | 129,0 | 23,5 |
| | 8 | 498,3 | 109,1 | 30,4 | 474,3 | 119,5 | 27,5 | 464,3 | 123,9 | 26,4 | 448,7 | 130,4 | 24,6 |
| | 9 | 510,8 | 110,4 | 31,9 | 486,0 | 120,9 | 28,9 | 475,5 | 125,3 | 27,7 | 460,1 | 131,7 | 25,9 |
| | 10 | 523,0 | 111,8 | 33,5 | 497,7 | 122,2 | 30,3 | 487,1 | 126,7 | 29,0 | 471,1 | 133,3 | 27,2 |
| | 12 | 547,9 | 114,5 | 36,8 | 521,3 | 125,2 | 33,3 | 510,4 | 129,6 | 31,9 | 493,5 | 136,2 | 29,8 |
| | 15 | 585,2 | 118,9 | 41,9 | 557,1 | 129,5 | 38,0 | 545,4 | 134,0 | 36,4 | 526,9 | 140,9 | 34,0 |
| 510 | 5 | 517,2 | 123,6 | 20,0 | 492,4 | 135,7 | 18,1 | 481,9 | 140,6 | 17,4 | 465,8 | 148,2 | 16,2 |
| | 6 | 532,7 | 125,0 | 21,2 | 506,7 | 137,2 | 19,2 | 496,2 | 142,2 | 18,4 | 479,5 | 149,9 | 17,2 |
| | 7 | 548,2 | 126,5 | 22,5 | 521,6 | 138,7 | 20,3 | 510,5 | 143,9 | 19,5 | 493,6 | 151,4 | 18,2 |
| | 8 | 561,9 | 128,0 | 23,6 | 534,8 | 140,3 | 21,4 | 523,6 | 145,4 | 20,5 | 506,0 | 153,1 | 19,1 |
| | 9 | 576,0 | 129,6 | 24,8 | 548,0 | 142,0 | 22,5 | 536,2 | 147,1 | 21,5 | 518,8 | 154,6 | 20,1 |
| | 10 | 589,7 | 131,2 | 26,0 | 561,2 | 143,5 | 23,6 | 549,2 | 148,8 | 22,6 | 531,2 | 156,5 | 21,1 |
| | 12 | 617,8 | 134,4 | 28,6 | 587,8 | 147,0 | 25,8 | 575,5 | 152,1 | 24,8 | 556,4 | 159,8 | 23,2 |
| | 15 | 659,9 | 139,6 | 32,6 | 628,2 | 152,1 | 29,5 | 614,9 | 157,3 | 28,3 | 594,1 | 165,4 | 26,4 |
| 590 | 5 | 584,6 | 134,4 | 25,6 | 556,5 | 147,5 | 23,2 | 544,7 | 152,9 | 22,2 | 526,5 | 161,1 | 20,7 |
| | 6 | 602,1 | 135,9 | 27,1 | 572,7 | 149,2 | 24,5 | 560,8 | 154,6 | 23,5 | 542,0 | 163,0 | 22,0 |
| | 7 | 619,6 | 137,6 | 28,7 | 589,5 | 150,9 | 26,0 | 577,0 | 156,4 | 24,9 | 557,9 | 164,6 | 23,3 |
| | 8 | 635,1 | 139,2 | 30,2 | 604,5 | 152,5 | 27,3 | 591,8 | 158,1 | 26,2 | 571,9 | 166,5 | 24,5 |
| | 9 | 651,0 | 140,9 | 31,7 | 619,3 | 154,4 | 28,7 | 606,0 | 159,9 | 27,5 | 586,4 | 168,1 | 25,7 |
| | 10 | 666,5 | 142,7 | 33,2 | 634,3 | 156,0 | 30,1 | 620,8 | 161,8 | 28,8 | 600,4 | 170,1 | 27,0 |
| | 12 | 698,3 | 146,2 | 36,5 | 664,3 | 159,9 | 33,0 | 650,5 | 165,4 | 31,6 | 628,9 | 173,8 | 29,6 |
| | 15 | 745,8 | 151,8 | 41,6 | 710,1 | 165,3 | 37,7 | 695,0 | 171,1 | 36,1 | 671,5 | 179,8 | 33,7 |
| 660 | 5 | 664,5 | 152,4 | 32,6 | 632,6 | 167,2 | 29,6 | 619,1 | 173,3 | 28,3 | 598,5 | 182,6 | 26,5 |
| | 6 | 684,4 | 154,0 | 34,6 | 651,0 | 169,1 | 31,3 | 637,5 | 175,2 | 30,0 | 616,1 | 184,7 | 28,1 |
| | 7 | 704,3 | 155,9 | 36,7 | 670,1 | 171,0 | 33,2 | 655,8 | 177,3 | 31,8 | 634,2 | 186,6 | 29,7 |
| | 8 | 721,9 | 157,8 | 38,5 | 687,1 | 172,9 | 34,9 | 672,7 | 179,2 | 33,4 | 650,0 | 188,7 | 31,2 |
| | 9 | 740,0 | 159,7 | 40,5 | 704,0 | 175,0 | 36,6 | 688,8 | 181,3 | 35,1 | 666,6 | 190,6 | 32,8 |
| | 10 | 757,6 | 161,7 | 42,4 | 721,0 | 176,9 | 38,4 | 705,6 | 183,4 | 36,8 | 682,4 | 192,8 | 34,4 |
| | 12 | 793,8 | 165,7 | 46,6 | 755,1 | 181,2 | 42,2 | 739,4 | 187,5 | 40,4 | 714,9 | 197,0 | 37,8 |
| | 15 | 847,8 | 172,1 | 53,1 | 807,1 | 187,4 | 48,2 | 790,1 | 193,9 | 46,1 | 763,3 | 203,8 | 43,1 |
| 730 | 5 | 729,4 | 169,8 | 31,8 | 694,3 | 186,4 | 28,9 | 679,5 | 193,2 | 27,6 | 656,9 | 203,6 | 25,8 |
| | 6 | 751,2 | 171,7 | 33,8 | 714,4 | 188,6 | 30,6 | 699,7 | 195,4 | 29,3 | 676,2 | 205,9 | 27,4 |
| | 7 | 773,0 | 173,8 | 35,8 | 735,4 | 190,7 | 32,4 | 719,8 | 197,7 | 31,0 | 696,0 | 208,0 | 29,0 |
| | 8 | 792,4 | 175,9 | 37,6 | 754,1 | 192,8 | 34,0 | 738,3 | 199,8 | 32,6 | 713,5 | 210,3 | 30,5 |
| | 9 | 812,2 | 178,0 | 39,5 | 772,7 | 195,1 | 35,7 | 756,0 | 202,1 | 34,2 | 731,6 | 212,5 | 32,0 |
| | 10 | 831,5 | 180,3 | 41,4 | 791,3 | 197,2 | 37,5 | 774,5 | 204,4 | 35,9 | 749,0 | 215,0 | 33,6 |
| | 12 | 871,2 | 184,7 | 45,4 | 828,8 | 202,0 | 41,1 | 811,5 | 209,0 | 39,4 | 784,6 | 219,6 | 36,8 |
| | 15 | 930,5 | 191,8 | 51,8 | 885,8 | 208,9 | 47,0 | 867,1 | 216,2 | 45,0 | 837,7 | 227,2 | 42,0 |

* Only Compressors.

| Model | LWT °C | Condensing Air Temperature °C | | | | | | | |
|-------|-----------|-------------------------------|-----------------|---------------|-------|-----------------|---------------|------|-----------------|
| | | 40 | | | 44 | | | 46 | |
| | | Cool | Input Power (*) | Pressure Drop | Cool | Input Power (*) | Pressure Drop | Cool | Input Power (*) |
| | | kW | kW | kPa | kW | kW | kPa | kW | kW |
| 380 | 5 | 315,4 | 123,0 | 12,7 | 300,7 | 130,8 | 11,5 | | |
| | 6 | 324,9 | 124,2 | 13,4 | 309,7 | 132,2 | 12,2 | | |
| | 7 | 334,2 | 125,5 | 14,2 | 318,6 | 133,5 | 12,9 | | |
| | 8 | 342,7 | 126,7 | 15,0 | 326,7 | 134,7 | 13,6 | | |
| | 9 | 351,3 | 128,0 | 15,7 | | | | | |
| | 10 | 359,3 | 129,3 | 16,4 | | | | | |
| | 12 | 376,7 | 132,1 | 18,1 | | | | | |
| | 15 | 402,5 | 136,2 | 20,6 | | | | | |
| 440 | 5 | 384,0 | 140,2 | 18,1 | 340,0 | 138,8 | 14,2 | | |
| | 6 | 395,5 | 141,6 | 19,2 | 350,7 | 140,3 | 15,1 | | |
| | 7 | 406,8 | 143,1 | 20,3 | 362,3 | 141,7 | 16,1 | | |
| | 8 | 417,2 | 144,4 | 21,3 | 371,4 | 143,0 | 16,9 | | |
| | 9 | 427,7 | 145,9 | 22,4 | | | | | |
| | 10 | 437,4 | 147,4 | 23,4 | | | | | |
| | 12 | 458,6 | 150,6 | 25,7 | | | | | |
| | 15 | 490,1 | 155,3 | 29,4 | | | | | |
| 510 | 5 | 433,0 | 164,5 | 14,0 | 412,8 | 175,0 | 12,7 | | |
| | 6 | 446,0 | 166,3 | 14,9 | 425,1 | 176,9 | 13,5 | | |
| | 7 | 458,7 | 168,0 | 15,7 | 437,4 | 178,6 | 14,3 | | |
| | 8 | 470,5 | 169,6 | 16,6 | 448,5 | 180,3 | 15,0 | | |
| | 9 | 482,3 | 171,3 | 17,4 | | | | | |
| | 10 | 493,2 | 173,0 | 18,2 | | | | | |
| | 12 | 517,1 | 176,8 | 20,0 | | | | | |
| | 15 | 552,6 | 182,3 | 22,8 | | | | | |
| 590 | 5 | 489,4 | 178,9 | 17,9 | 433,3 | 177,2 | 14,0 | | |
| | 6 | 504,1 | 180,8 | 19,0 | 447,0 | 179,1 | 14,9 | | |
| | 7 | 518,5 | 182,7 | 20,1 | 461,7 | 180,9 | 15,9 | | |
| | 8 | 531,7 | 184,4 | 21,1 | 473,3 | 182,6 | 16,8 | | |
| | 9 | 545,1 | 186,3 | 22,2 | | | | | |
| | 10 | 557,5 | 188,1 | 23,2 | | | | | |
| | 12 | 584,4 | 192,2 | 25,5 | | | | | |
| | 15 | 624,5 | 198,2 | 29,2 | | | | | |
| 660 | 5 | 556,3 | 202,8 | 22,9 | 492,5 | 200,9 | 17,9 | | |
| | 6 | 573,0 | 204,9 | 24,3 | 508,1 | 203,0 | 19,1 | | |
| | 7 | 589,3 | 207,1 | 25,7 | 524,9 | 205,0 | 20,4 | | |
| | 8 | 604,4 | 209,0 | 27,0 | 538,0 | 206,9 | 21,4 | | |
| | 9 | 619,6 | 211,1 | 28,4 | | | | | |
| | 10 | 633,7 | 213,3 | 29,7 | | | | | |
| | 12 | 664,3 | 217,9 | 32,6 | | | | | |
| | 15 | 709,9 | 224,7 | 37,3 | | | | | |
| 730 | 5 | 610,6 | 226,1 | 22,3 | 540,6 | 224,0 | 17,5 | | |
| | 6 | 628,9 | 228,5 | 23,7 | 557,7 | 226,3 | 18,6 | | |
| | 7 | 646,8 | 230,8 | 25,0 | 576,1 | 228,5 | 19,9 | | |
| | 8 | 663,4 | 233,0 | 26,3 | 590,5 | 230,7 | 20,9 | | |
| | 9 | 680,1 | 235,4 | 27,7 | | | | | |
| | 10 | 695,5 | 237,7 | 29,0 | | | | | |
| | 12 | 729,1 | 242,9 | 31,8 | | | | | |
| | 15 | 779,2 | 250,5 | 36,3 | | | | | |

* Only Compressors.

Cooling Capacities - SYSCREW AIR EVO HSE S R134a

| Model | LWT °C | Condensing Air Temperature °C | | | | | | | | | | | |
|-------|-----------|-------------------------------|--------------------|---------------|--------|--------------------|---------------|--------|--------------------|---------------|--------|--------------------|---------------|
| | | 25 | | | 30 | | | 32 | | | 35 | | |
| | | Cool | Input Power (*) | Pressure Drop | Cool | Input Power (*) | Pressure Drop | Cool | Input Power (*) | Pressure Drop | Cool | Input Power (*) | Pressure Drop |
| 810 | 5 | 805,6 | 187,4 | 38,9 | 766,9 | 205,7 | 35,2 | 750,6 | 213,2 | 33,7 | 725,5 | 224,6 | 31,5 |
| | 6 | 829,7 | 189,5 | 41,2 | 789,1 | 208,0 | 37,3 | 772,8 | 215,6 | 35,8 | 746,9 | 227,2 | 33,4 |
| | 7 | 853,8 | 191,8 | 43,6 | 812,3 | 210,4 | 39,5 | 795,1 | 218,1 | 37,8 | 768,8 | 229,5 | 35,4 |
| | 8 | 875,2 | 194,1 | 45,9 | 833,0 | 212,7 | 41,5 | 815,5 | 220,4 | 39,8 | 788,0 | 232,1 | 37,2 |
| | 9 | 897,1 | 196,4 | 48,2 | 853,4 | 215,2 | 43,6 | 835,1 | 223,0 | 41,7 | 808,1 | 234,4 | 39,1 |
| | 10 | 918,5 | 199,0 | 50,5 | 874,1 | 217,6 | 45,7 | 855,5 | 225,5 | 43,8 | 827,3 | 237,2 | 41,0 |
| | 12 | 962,3 | 203,8 | 55,4 | 915,5 | 222,9 | 50,2 | 896,4 | 230,7 | 48,1 | 866,6 | 242,3 | 45,0 |
| | 15 | 1027,7 | 211,7 | 63,2 | 978,5 | 230,5 | 57,3 | 957,8 | 238,6 | 54,9 | 925,3 | 250,7 | 51,3 |
| 900 | 5 | 927,0 | 216,5 | 22,3 | 882,5 | 237,7 | 20,2 | 863,7 | 246,4 | 19,3 | 834,9 | 259,5 | 18,1 |
| | 6 | 954,8 | 218,9 | 23,6 | 908,1 | 240,4 | 21,4 | 889,3 | 249,0 | 20,5 | 859,4 | 262,5 | 19,1 |
| | 7 | 982,5 | 221,6 | 25,0 | 934,8 | 243,0 | 22,7 | 914,9 | 252,0 | 21,7 | 884,7 | 265,2 | 20,3 |
| | 8 | 1007,1 | 224,3 | 26,3 | 958,5 | 245,7 | 23,8 | 938,4 | 254,7 | 22,8 | 906,8 | 268,1 | 21,3 |
| | 9 | 1032,3 | 226,9 | 27,6 | 982,1 | 248,7 | 25,0 | 960,9 | 257,6 | 23,9 | 929,9 | 270,8 | 22,4 |
| | 10 | 1056,9 | 229,9 | 29,0 | 1005,8 | 251,4 | 26,2 | 984,4 | 260,6 | 25,1 | 952,0 | 274,1 | 23,5 |
| | 12 | 1107,3 | 235,5 | 31,8 | 1053,4 | 257,5 | 28,8 | 1031,5 | 266,5 | 27,6 | 997,2 | 280,0 | 25,8 |
| | 15 | 1182,7 | 244,6 | 36,3 | 1125,9 | 266,4 | 32,9 | 1102,1 | 275,6 | 31,5 | 1064,8 | 289,7 | 29,4 |
| 980 | 5 | 1018,2 | 239,6 | 25,5 | 969,3 | 263,1 | 23,1 | 948,7 | 272,7 | 22,1 | 917,0 | 287,3 | 20,7 |
| | 6 | 1048,7 | 242,3 | 27,1 | 997,4 | 266,0 | 24,5 | 976,8 | 275,6 | 23,5 | 944,0 | 290,5 | 21,9 |
| | 7 | 1079,1 | 245,3 | 28,6 | 1026,7 | 269,0 | 25,9 | 1004,9 | 278,9 | 24,8 | 971,7 | 293,5 | 23,2 |
| | 8 | 1106,2 | 248,2 | 30,1 | 1052,8 | 272,0 | 27,3 | 1030,7 | 281,9 | 26,1 | 996,0 | 296,8 | 24,4 |
| | 9 | 1133,8 | 251,2 | 31,6 | 1078,7 | 275,2 | 28,6 | 1055,4 | 285,1 | 27,4 | 1021,3 | 299,8 | 25,7 |
| | 10 | 1160,8 | 254,4 | 33,1 | 1104,7 | 278,2 | 30,0 | 1081,2 | 288,4 | 28,8 | 1045,7 | 303,3 | 26,9 |
| | 12 | 1216,2 | 260,6 | 36,4 | 1157,1 | 285,0 | 32,9 | 1132,9 | 294,9 | 31,6 | 1095,3 | 309,9 | 29,5 |
| | 15 | 1299,0 | 270,7 | 41,5 | 1236,7 | 294,8 | 37,6 | 1210,5 | 305,0 | 36,0 | 1169,5 | 320,6 | 33,6 |
| 1060 | 5 | 1085,3 | 244,8 | 29,0 | 1033,1 | 268,8 | 26,3 | 1011,1 | 278,6 | 25,2 | 977,4 | 293,5 | 23,5 |
| | 6 | 1117,7 | 247,6 | 30,7 | 1063,1 | 271,8 | 27,8 | 1041,1 | 281,6 | 26,7 | 1006,1 | 296,8 | 24,9 |
| | 7 | 1150,2 | 250,6 | 32,5 | 1094,3 | 274,8 | 29,5 | 1071,1 | 285,0 | 28,2 | 1035,7 | 299,9 | 26,4 |
| | 8 | 1179,0 | 253,6 | 34,2 | 1122,1 | 277,9 | 31,0 | 1098,5 | 288,0 | 29,7 | 1061,6 | 303,2 | 27,7 |
| | 9 | 1208,5 | 256,6 | 35,9 | 1149,7 | 281,2 | 32,5 | 1124,9 | 291,3 | 31,1 | 1088,6 | 306,3 | 29,2 |
| | 10 | 1237,3 | 259,9 | 37,7 | 1177,5 | 284,2 | 34,1 | 1152,4 | 294,7 | 32,7 | 1114,5 | 309,9 | 30,6 |
| | 12 | 1296,3 | 266,3 | 41,3 | 1233,2 | 291,2 | 37,4 | 1207,5 | 301,3 | 35,9 | 1167,5 | 316,6 | 33,5 |
| | 15 | 1384,5 | 276,5 | 47,2 | 1318,1 | 301,2 | 42,7 | 1290,3 | 311,7 | 41,0 | 1246,5 | 327,6 | 38,2 |
| 1160 | 5 | 1194,4 | 274,0 | 34,8 | 1137,0 | 300,7 | 31,5 | 1112,8 | 311,7 | 30,2 | 1075,7 | 328,4 | 28,2 |
| | 6 | 1230,1 | 277,0 | 36,9 | 1170,0 | 304,1 | 33,4 | 1145,8 | 315,1 | 32,0 | 1107,3 | 332,1 | 29,9 |
| | 7 | 1265,9 | 280,4 | 39,1 | 1204,4 | 307,5 | 35,4 | 1178,8 | 318,8 | 33,9 | 1139,8 | 335,5 | 31,7 |
| | 8 | 1297,6 | 283,8 | 41,1 | 1235,0 | 310,9 | 37,2 | 1209,0 | 322,2 | 35,6 | 1168,4 | 339,3 | 33,3 |
| | 9 | 1330,0 | 287,1 | 43,1 | 1265,3 | 314,6 | 39,0 | 1238,1 | 326,0 | 37,4 | 1198,1 | 342,7 | 35,0 |
| | 10 | 1361,7 | 290,9 | 45,2 | 1295,9 | 318,0 | 40,9 | 1268,3 | 329,7 | 39,2 | 1226,6 | 346,8 | 36,7 |
| | 12 | 1426,7 | 297,9 | 49,6 | 1357,3 | 325,8 | 44,9 | 1329,0 | 337,2 | 43,1 | 1284,9 | 354,3 | 40,2 |
| | 15 | 1523,8 | 309,4 | 56,6 | 1450,7 | 337,0 | 51,3 | 1420,0 | 348,7 | 49,2 | 1371,9 | 366,5 | 45,9 |
| 1260 | 5 | 1281,9 | 306,9 | 40,1 | 1220,3 | 336,9 | 36,3 | 1194,3 | 349,2 | 34,8 | 1154,5 | 367,9 | 32,5 |
| | 6 | 1320,2 | 310,3 | 42,5 | 1255,7 | 340,7 | 38,4 | 1229,7 | 353,0 | 36,9 | 1188,4 | 372,1 | 34,4 |
| | 7 | 1358,5 | 314,1 | 45,0 | 1292,5 | 344,5 | 40,7 | 1265,1 | 357,2 | 39,0 | 1223,3 | 375,9 | 36,5 |
| | 8 | 1392,6 | 317,9 | 47,3 | 1325,4 | 348,3 | 42,8 | 1297,5 | 361,0 | 41,0 | 1253,9 | 380,1 | 38,3 |
| | 9 | 1427,4 | 321,7 | 49,7 | 1358,0 | 352,5 | 45,0 | 1328,7 | 365,2 | 43,0 | 1285,8 | 383,9 | 40,3 |
| | 10 | 1461,4 | 325,8 | 52,1 | 1390,8 | 356,3 | 47,2 | 1361,2 | 369,3 | 45,2 | 1316,4 | 388,5 | 42,2 |
| | 12 | 1531,1 | 333,8 | 57,2 | 1456,6 | 365,0 | 51,7 | 1426,3 | 377,7 | 49,6 | 1378,9 | 396,8 | 46,4 |
| | 15 | 1635,3 | 346,6 | 65,2 | 1556,9 | 377,5 | 59,1 | 1524,0 | 390,6 | 56,6 | 1472,3 | 410,6 | 52,8 |

* Only Compressors.

| Model | LWT °C | Condensing Air Temperature °C | | | | | | | |
|-------|-----------|-------------------------------|-----------------|---------------|-------|-----------------|---------------|------|-----------------|
| | | 40 | | | 44 | | | 46 | |
| | | Cool | Input Power (*) | Pressure Drop | Cool | Input Power (*) | Pressure Drop | Cool | Input Power (*) |
| 810 | 5 | 674,5 | 249,5 | 27,2 | 597,1 | 247,1 | 21,3 | | |
| | 6 | 694,6 | 252,1 | 28,9 | 616,0 | 249,7 | 22,7 | | |
| | 7 | 714,5 | 254,7 | 30,6 | 636,3 | 252,2 | 24,2 | | |
| | 8 | 732,7 | 257,1 | 32,1 | 652,2 | 254,5 | 25,5 | | |
| | 9 | 751,2 | 259,7 | 33,8 | | | | | |
| | 10 | 768,2 | 262,3 | 35,3 | | | | | |
| | 12 | 805,3 | 268,0 | 38,8 | | | | | |
| | 15 | 860,6 | 276,4 | 44,3 | | | | | |
| 900 | 5 | 776,1 | 288,2 | 15,6 | 687,1 | 285,5 | 12,2 | | |
| | 6 | 799,3 | 291,2 | 16,6 | 708,8 | 288,5 | 13,0 | | |
| | 7 | 822,2 | 294,3 | 17,5 | 732,2 | 291,3 | 13,9 | | |
| | 8 | 843,2 | 297,0 | 18,4 | 750,6 | 294,1 | 14,6 | | |
| | 9 | 864,4 | 300,1 | 19,4 | | | | | |
| | 10 | 884,0 | 303,1 | 20,3 | | | | | |
| | 12 | 926,7 | 309,7 | 22,3 | | | | | |
| | 15 | 990,4 | 319,3 | 25,4 | | | | | |
| 980 | 5 | 852,5 | 319,0 | 17,9 | 754,7 | 316,0 | 14,0 | | |
| | 6 | 877,9 | 322,3 | 19,0 | 778,5 | 319,3 | 14,9 | | |
| | 7 | 903,0 | 325,7 | 20,1 | 804,2 | 322,5 | 15,9 | | |
| | 8 | 926,1 | 328,7 | 21,1 | 824,4 | 325,5 | 16,7 | | |
| | 9 | 949,4 | 332,1 | 22,2 | | | | | |
| | 10 | 971,0 | 335,4 | 23,2 | | | | | |
| | 12 | 1017,9 | 342,7 | 25,5 | | | | | |
| | 15 | 1087,8 | 353,4 | 29,1 | | | | | |
| 1060 | 5 | 908,6 | 325,9 | 20,3 | 804,4 | 322,8 | 15,9 | | |
| | 6 | 935,7 | 329,3 | 21,5 | 829,8 | 326,2 | 16,9 | | |
| | 7 | 962,5 | 332,8 | 22,8 | 857,2 | 329,5 | 18,1 | | |
| | 8 | 987,1 | 335,9 | 24,0 | 878,7 | 332,5 | 19,0 | | |
| | 9 | 1011,9 | 339,3 | 25,2 | | | | | |
| | 10 | 1034,9 | 342,7 | 26,3 | | | | | |
| | 12 | 1084,9 | 350,2 | 29,0 | | | | | |
| | 15 | 1159,4 | 361,1 | 33,1 | | | | | |
| 1160 | 5 | 1000,0 | 364,7 | 24,4 | 885,3 | 361,2 | 19,1 | | |
| | 6 | 1029,9 | 368,5 | 25,9 | 913,2 | 365,0 | 20,3 | | |
| | 7 | 1059,3 | 372,3 | 27,4 | 943,4 | 368,6 | 21,7 | | |
| | 8 | 1086,4 | 375,8 | 28,8 | 967,0 | 372,1 | 22,8 | | |
| | 9 | 1113,7 | 379,6 | 30,2 | | | | | |
| | 10 | 1139,0 | 383,5 | 31,6 | | | | | |
| | 12 | 1194,0 | 391,8 | 34,8 | | | | | |
| | 15 | 1276,0 | 404,0 | 39,7 | | | | | |
| 1260 | 5 | 1073,2 | 408,5 | 28,1 | 909,1 | 372,1 | 20,2 | | |
| | 6 | 1105,2 | 412,8 | 29,8 | 938,0 | 376,0 | 21,4 | | |
| | 7 | 1136,8 | 417,1 | 31,5 | 969,1 | 379,7 | 22,9 | | |
| | 8 | 1119,3 | 389,4 | 30,5 | 993,4 | 383,3 | 24,1 | | |
| | 9 | 1147,4 | 393,4 | 32,1 | | | | | |
| | 10 | 1173,5 | 397,4 | 33,6 | | | | | |
| | 12 | 1230,2 | 406,0 | 36,9 | | | | | |
| | 15 | 1314,6 | 418,7 | 42,1 | | | | | |

* Only Compressors.

Cooling Capacities - SYSCREW AIR EVO HSE S R513A

| Model | LWT °C | Condensing Air Temperature °C | | | | | | | | | | | |
|-------|-----------|-------------------------------|--------------------|---------------|-------|--------------------|---------------|-------|--------------------|---------------|-------|--------------------|---------------|
| | | 25 | | | 30 | | | 32 | | | 35 | | |
| | | Cool | Input Power (*) | Pressure Drop | Cool | Input Power (*) | Pressure Drop | Cool | Input Power (*) | Pressure Drop | Cool | Input Power (*) | Pressure Drop |
| 380 | 5 | 380,6 | 95,5 | 18,4 | 362,3 | 104,9 | 16,7 | 354,6 | 108,7 | 16,0 | 342,7 | 114,5 | 15,0 |
| | 6 | 391,9 | 96,6 | 19,6 | 372,8 | 106,1 | 17,7 | 365,1 | 109,9 | 17,0 | 352,8 | 115,8 | 15,8 |
| | 7 | 403,3 | 97,8 | 20,7 | 383,7 | 107,2 | 18,7 | 375,6 | 111,2 | 18,0 | 363,2 | 117,0 | 16,8 |
| | 8 | 413,4 | 99,0 | 21,8 | 393,5 | 108,4 | 19,7 | 385,2 | 112,4 | 18,9 | 372,3 | 118,3 | 17,6 |
| | 9 | 423,8 | 100,1 | 22,9 | 403,1 | 109,7 | 20,7 | 394,5 | 113,7 | 19,8 | 381,7 | 119,5 | 18,6 |
| | 10 | 433,9 | 101,4 | 24,0 | 412,9 | 110,9 | 21,7 | 404,1 | 115,0 | 20,8 | 390,8 | 120,9 | 19,4 |
| | 12 | 454,6 | 103,9 | 26,3 | 432,4 | 113,6 | 23,8 | 423,4 | 117,6 | 22,8 | 409,4 | 123,5 | 21,3 |
| | 15 | 485,5 | 107,9 | 30,0 | 462,2 | 117,5 | 27,2 | 452,4 | 121,6 | 26,1 | 437,1 | 127,8 | 24,3 |
| 440 | 5 | 463,3 | 108,9 | 26,3 | 441,0 | 119,6 | 23,8 | 431,6 | 124,0 | 22,8 | 417,3 | 130,6 | 21,3 |
| | 6 | 477,2 | 110,1 | 27,9 | 453,8 | 120,9 | 25,2 | 444,4 | 125,3 | 24,2 | 429,5 | 132,1 | 22,6 |
| | 7 | 491,0 | 111,5 | 29,5 | 467,2 | 122,3 | 26,7 | 457,2 | 126,8 | 25,6 | 442,1 | 133,4 | 23,9 |
| | 8 | 503,3 | 112,8 | 31,0 | 479,0 | 123,6 | 28,1 | 469,0 | 128,1 | 26,9 | 453,2 | 134,9 | 25,1 |
| | 9 | 515,9 | 114,2 | 32,6 | 490,8 | 125,1 | 29,5 | 480,2 | 129,6 | 28,2 | 464,7 | 136,3 | 26,4 |
| | 10 | 528,2 | 115,7 | 34,2 | 502,7 | 126,5 | 30,9 | 492,0 | 131,1 | 29,6 | 475,8 | 137,9 | 27,7 |
| | 12 | 553,4 | 118,5 | 37,5 | 526,5 | 129,6 | 33,9 | 515,5 | 134,1 | 32,5 | 498,4 | 140,9 | 30,4 |
| | 15 | 591,0 | 123,0 | 42,8 | 562,7 | 134,0 | 38,8 | 550,8 | 138,7 | 37,1 | 532,1 | 145,7 | 34,7 |
| 510 | 5 | 522,4 | 127,8 | 20,4 | 497,3 | 140,3 | 18,5 | 486,7 | 145,5 | 17,7 | 470,5 | 153,2 | 16,6 |
| | 6 | 538,0 | 129,3 | 21,7 | 511,7 | 141,9 | 19,6 | 501,1 | 147,0 | 18,8 | 484,3 | 155,0 | 17,5 |
| | 7 | 553,7 | 130,8 | 22,9 | 526,8 | 143,5 | 20,8 | 515,6 | 148,8 | 19,9 | 498,5 | 156,6 | 18,6 |
| | 8 | 567,5 | 132,4 | 24,1 | 540,1 | 145,1 | 21,8 | 528,8 | 150,4 | 20,9 | 511,0 | 158,3 | 19,5 |
| | 9 | 581,7 | 134,0 | 25,3 | 553,4 | 146,8 | 22,9 | 541,5 | 152,1 | 21,9 | 524,0 | 159,9 | 20,5 |
| | 10 | 595,6 | 135,7 | 26,5 | 566,8 | 148,4 | 24,0 | 554,7 | 153,8 | 23,0 | 536,5 | 161,8 | 21,5 |
| | 12 | 624,0 | 139,0 | 29,1 | 593,6 | 152,0 | 26,4 | 581,3 | 157,3 | 25,3 | 562,0 | 165,3 | 23,6 |
| | 15 | 666,5 | 144,4 | 33,2 | 634,5 | 157,3 | 30,1 | 621,1 | 162,7 | 28,9 | 600,0 | 171,0 | 26,9 |
| 590 | 5 | 590,4 | 139,0 | 26,1 | 562,1 | 152,6 | 23,6 | 550,1 | 158,2 | 22,6 | 531,8 | 166,7 | 21,2 |
| | 6 | 608,1 | 140,6 | 27,7 | 578,4 | 154,4 | 25,0 | 566,4 | 159,9 | 24,0 | 547,4 | 168,6 | 22,4 |
| | 7 | 625,8 | 142,3 | 29,3 | 595,4 | 156,1 | 26,5 | 582,7 | 161,8 | 25,4 | 563,5 | 170,3 | 23,7 |
| | 8 | 641,5 | 144,0 | 30,8 | 610,5 | 157,8 | 27,9 | 597,7 | 163,5 | 26,7 | 577,6 | 172,2 | 25,0 |
| | 9 | 657,5 | 145,7 | 32,3 | 625,5 | 159,7 | 29,3 | 612,0 | 165,4 | 28,0 | 592,3 | 173,9 | 26,2 |
| | 10 | 673,1 | 147,6 | 33,9 | 640,6 | 161,4 | 30,7 | 627,0 | 167,3 | 29,4 | 606,4 | 176,0 | 27,5 |
| | 12 | 705,3 | 151,2 | 37,2 | 671,0 | 165,4 | 33,7 | 657,0 | 171,1 | 32,3 | 635,2 | 179,8 | 30,2 |
| | 15 | 753,3 | 157,0 | 42,4 | 717,1 | 171,0 | 38,5 | 702,0 | 177,0 | 36,9 | 678,2 | 186,0 | 34,4 |
| 660 | 5 | 671,2 | 157,6 | 33,3 | 638,9 | 173,0 | 30,2 | 625,3 | 179,3 | 28,9 | 604,5 | 188,9 | 27,0 |
| | 6 | 691,2 | 159,4 | 35,3 | 657,4 | 175,0 | 32,0 | 643,8 | 181,3 | 30,6 | 622,2 | 191,1 | 28,6 |
| | 7 | 711,3 | 161,3 | 37,4 | 676,8 | 176,9 | 33,9 | 662,4 | 183,4 | 32,4 | 640,5 | 193,0 | 30,3 |
| | 8 | 729,1 | 163,2 | 39,3 | 693,9 | 178,9 | 35,6 | 679,4 | 185,4 | 34,1 | 656,5 | 195,2 | 31,9 |
| | 9 | 747,4 | 165,2 | 41,3 | 711,0 | 181,0 | 37,4 | 695,7 | 187,5 | 35,8 | 673,2 | 197,1 | 33,5 |
| | 10 | 765,2 | 167,3 | 43,3 | 728,2 | 183,0 | 39,2 | 712,7 | 189,7 | 37,5 | 689,2 | 199,5 | 35,1 |
| | 12 | 801,7 | 171,4 | 47,5 | 762,7 | 187,5 | 43,0 | 746,8 | 194,0 | 41,2 | 722,0 | 203,8 | 38,5 |
| | 15 | 856,2 | 178,0 | 54,2 | 815,2 | 193,9 | 49,1 | 797,9 | 200,6 | 47,1 | 770,9 | 210,9 | 43,9 |
| 730 | 5 | 736,6 | 175,7 | 32,5 | 701,2 | 192,8 | 29,4 | 686,3 | 199,9 | 28,2 | 663,4 | 210,6 | 26,3 |
| | 6 | 758,7 | 177,6 | 34,5 | 721,6 | 195,0 | 31,2 | 706,6 | 202,0 | 29,9 | 682,9 | 213,0 | 27,9 |
| | 7 | 780,7 | 179,8 | 36,5 | 742,8 | 197,2 | 33,0 | 727,0 | 204,4 | 31,6 | 703,0 | 215,1 | 29,6 |
| | 8 | 800,3 | 181,9 | 38,3 | 761,6 | 199,4 | 34,7 | 745,6 | 206,6 | 33,3 | 720,6 | 217,6 | 31,1 |
| | 9 | 820,3 | 184,1 | 40,3 | 780,4 | 201,8 | 36,5 | 763,6 | 209,0 | 34,9 | 738,9 | 219,7 | 32,7 |
| | 10 | 839,8 | 186,5 | 42,2 | 799,2 | 203,9 | 38,2 | 782,2 | 211,4 | 36,6 | 756,5 | 222,4 | 34,3 |
| | 12 | 879,9 | 191,0 | 46,3 | 837,1 | 208,9 | 41,9 | 819,6 | 216,2 | 40,2 | 792,4 | 227,2 | 37,6 |
| | 15 | 939,7 | 198,4 | 52,9 | 894,7 | 216,1 | 47,9 | 875,8 | 223,6 | 45,9 | 846,1 | 235,0 | 42,9 |

* Only Compressors.

| Model | LWT °C | Condensing Air Temperature °C | | | | | | | | |
|-------|-----------|-------------------------------|-----------------|---------------|-------|-----------------|---------------|------|-----------------|---------------|
| | | 40 | | | 44 | | | 46 | | |
| | | Cool | Input Power (*) | Pressure Drop | Cool | Input Power (*) | Pressure Drop | Cool | Input Power (*) | Pressure Drop |
| | | kW | kW | kPa | kW | kW | kPa | kW | kW | kPa |
| 380 | 5 | 318,6 | 127,2 | 12,9 | 303,7 | 135,3 | 11,7 | | | |
| | 6 | 328,1 | 128,5 | 13,7 | 312,8 | 136,7 | 12,5 | | | |
| | 7 | 337,5 | 129,8 | 14,5 | 321,8 | 138,1 | 13,2 | | | |
| | 8 | 346,1 | 131,1 | 15,3 | 330,0 | 139,4 | 13,9 | | | |
| | 9 | 354,8 | 132,4 | 16,0 | | | | | | |
| | 10 | 362,9 | 133,7 | 16,8 | | | | | | |
| | 12 | 380,4 | 136,6 | 18,4 | | | | | | |
| | 15 | 406,5 | 140,9 | 21,0 | | | | | | |
| 440 | 5 | 387,9 | 145,0 | 18,4 | 343,4 | 143,6 | 14,4 | | | |
| | 6 | 399,5 | 146,5 | 19,5 | 354,2 | 145,1 | 15,4 | | | |
| | 7 | 410,9 | 148,1 | 20,7 | 365,9 | 146,6 | 16,4 | | | |
| | 8 | 421,4 | 149,4 | 21,7 | 375,1 | 148,0 | 17,2 | | | |
| | 9 | 432,0 | 151,0 | 22,8 | | | | | | |
| | 10 | 441,8 | 152,5 | 23,9 | | | | | | |
| | 12 | 463,1 | 155,8 | 26,3 | | | | | | |
| | 15 | 494,9 | 160,7 | 30,0 | | | | | | |
| 510 | 5 | 437,4 | 170,2 | 14,3 | 416,9 | 181,0 | 13,0 | | | |
| | 6 | 450,4 | 172,0 | 15,2 | 429,3 | 182,9 | 13,8 | | | |
| | 7 | 463,3 | 173,7 | 16,1 | 441,7 | 184,7 | 14,6 | | | |
| | 8 | 475,1 | 175,4 | 16,9 | 453,0 | 186,5 | 15,3 | | | |
| | 9 | 487,1 | 177,2 | 17,7 | | | | | | |
| | 10 | 498,2 | 178,9 | 18,6 | | | | | | |
| | 12 | 522,2 | 182,8 | 20,4 | | | | | | |
| | 15 | 558,1 | 188,5 | 23,3 | | | | | | |
| 590 | 5 | 494,3 | 185,1 | 18,3 | 437,6 | 183,3 | 14,3 | | | |
| | 6 | 509,1 | 187,0 | 19,4 | 451,5 | 185,3 | 15,2 | | | |
| | 7 | 523,6 | 189,0 | 20,5 | 466,4 | 187,1 | 16,3 | | | |
| | 8 | 537,0 | 190,7 | 21,6 | 478,0 | 188,8 | 17,1 | | | |
| | 9 | 550,6 | 192,7 | 22,7 | | | | | | |
| | 10 | 563,0 | 194,6 | 23,7 | | | | | | |
| | 12 | 590,2 | 198,9 | 26,1 | | | | | | |
| | 15 | 630,8 | 205,1 | 29,8 | | | | | | |
| 660 | 5 | 561,9 | 209,8 | 23,3 | 497,4 | 207,8 | 18,3 | | | |
| | 6 | 578,7 | 212,0 | 24,8 | 513,2 | 210,0 | 19,5 | | | |
| | 7 | 595,2 | 214,2 | 26,2 | 530,1 | 212,1 | 20,8 | | | |
| | 8 | 610,4 | 216,2 | 27,5 | 543,4 | 214,1 | 21,8 | | | |
| | 9 | 625,8 | 218,4 | 29,0 | | | | | | |
| | 10 | 640,0 | 220,6 | 30,3 | | | | | | |
| | 12 | 670,9 | 225,4 | 33,3 | | | | | | |
| | 15 | 717,0 | 232,4 | 38,0 | | | | | | |
| 730 | 5 | 616,7 | 233,8 | 22,8 | 546,0 | 231,6 | 17,8 | | | |
| | 6 | 635,1 | 236,3 | 24,1 | 563,2 | 234,1 | 19,0 | | | |
| | 7 | 653,3 | 238,7 | 25,5 | 581,8 | 236,4 | 20,3 | | | |
| | 8 | 670,0 | 241,0 | 26,9 | 596,4 | 238,6 | 21,3 | | | |
| | 9 | 686,9 | 243,4 | 28,2 | | | | | | |
| | 10 | 702,4 | 245,9 | 29,5 | | | | | | |
| | 12 | 736,4 | 251,2 | 32,5 | | | | | | |
| | 15 | 786,9 | 259,1 | 37,1 | | | | | | |

* Only Compressors.

Cooling Capacities - SYSCREW AIR EVO HSE S R513A

| Model | LWT °C | Condensing Air Temperature °C | | | | | | | | | | | |
|-------|-----------|-------------------------------|--------------------|---------------|--------|--------------------|---------------|--------|--------------------|---------------|--------|--------------------|---------------|
| | | 25 | | | 30 | | | 32 | | | 35 | | |
| | | Cool | Input Power (*) | Pressure Drop | Cool | Input Power (*) | Pressure Drop | Cool | Input Power (*) | Pressure Drop | Cool | Input Power (*) | Pressure Drop |
| 810 | 5 | 813,6 | 193,8 | 39,6 | 774,6 | 212,8 | 35,9 | 758,0 | 220,6 | 34,4 | 732,8 | 232,4 | 32,1 |
| | 6 | 838,0 | 196,0 | 42,0 | 797,0 | 215,2 | 38,0 | 780,5 | 223,0 | 36,5 | 754,3 | 235,0 | 34,1 |
| | 7 | 862,3 | 198,4 | 44,5 | 820,4 | 217,6 | 40,3 | 803,0 | 225,6 | 38,6 | 776,5 | 237,4 | 36,1 |
| | 8 | 883,9 | 200,8 | 46,8 | 841,3 | 220,0 | 42,4 | 823,6 | 228,0 | 40,6 | 795,9 | 240,1 | 37,9 |
| | 9 | 906,0 | 203,2 | 49,1 | 861,9 | 222,6 | 44,5 | 843,4 | 230,6 | 42,6 | 816,1 | 242,5 | 39,9 |
| | 10 | 927,6 | 205,8 | 51,5 | 882,8 | 225,0 | 46,6 | 864,0 | 233,3 | 44,7 | 835,6 | 245,4 | 41,8 |
| | 12 | 971,8 | 210,8 | 56,5 | 924,6 | 230,5 | 51,2 | 905,3 | 238,6 | 49,1 | 875,2 | 250,7 | 45,9 |
| | 15 | 1038,0 | 218,9 | 64,5 | 988,2 | 238,5 | 58,5 | 967,3 | 246,7 | 56,0 | 934,5 | 259,3 | 52,3 |
| 900 | 5 | 936,3 | 223,9 | 22,7 | 891,3 | 245,8 | 20,6 | 872,3 | 254,8 | 19,7 | 843,2 | 268,4 | 18,4 |
| | 6 | 964,3 | 226,4 | 24,1 | 917,2 | 248,6 | 21,8 | 898,2 | 257,6 | 20,9 | 868,0 | 271,5 | 19,5 |
| | 7 | 992,3 | 229,2 | 25,5 | 944,1 | 251,4 | 23,1 | 924,0 | 260,6 | 22,1 | 893,5 | 274,3 | 20,7 |
| | 8 | 1017,2 | 232,0 | 26,8 | 968,1 | 254,2 | 24,3 | 947,7 | 263,4 | 23,3 | 915,9 | 277,3 | 21,7 |
| | 9 | 1042,6 | 234,7 | 28,2 | 991,9 | 257,2 | 25,5 | 970,5 | 266,5 | 24,4 | 939,2 | 280,1 | 22,9 |
| | 10 | 1067,4 | 237,8 | 29,5 | 1015,8 | 260,0 | 26,8 | 994,2 | 269,5 | 25,6 | 961,5 | 283,5 | 24,0 |
| | 12 | 1118,3 | 243,6 | 32,4 | 1064,0 | 266,3 | 29,3 | 1041,8 | 275,6 | 28,1 | 1007,2 | 289,6 | 26,3 |
| | 15 | 1194,5 | 252,9 | 37,0 | 1137,2 | 275,5 | 33,5 | 1113,1 | 285,1 | 32,1 | 1075,4 | 299,6 | 30,0 |
| 980 | 5 | 1028,4 | 247,9 | 26,0 | 979,0 | 272,1 | 23,6 | 958,1 | 282,0 | 22,6 | 926,2 | 297,1 | 21,1 |
| | 6 | 1059,1 | 250,6 | 27,6 | 1007,4 | 275,2 | 25,0 | 986,5 | 285,1 | 23,9 | 953,4 | 300,5 | 22,4 |
| | 7 | 1089,9 | 253,7 | 29,2 | 1037,0 | 278,2 | 26,5 | 1014,9 | 288,5 | 25,3 | 981,4 | 303,6 | 23,7 |
| | 8 | 1117,2 | 256,7 | 30,7 | 1063,3 | 281,3 | 27,8 | 1040,9 | 291,5 | 26,7 | 1005,9 | 307,0 | 24,9 |
| | 9 | 1145,1 | 259,8 | 32,3 | 1089,4 | 284,7 | 29,2 | 1066,0 | 294,9 | 28,0 | 1031,5 | 310,0 | 26,2 |
| | 10 | 1172,4 | 263,1 | 33,8 | 1115,8 | 287,7 | 30,6 | 1092,0 | 298,3 | 29,3 | 1056,1 | 313,7 | 27,4 |
| | 12 | 1228,3 | 269,6 | 37,1 | 1168,6 | 294,8 | 33,6 | 1144,2 | 305,0 | 32,2 | 1106,3 | 320,5 | 30,1 |
| | 15 | 1311,9 | 279,9 | 42,3 | 1249,0 | 304,9 | 38,4 | 1222,6 | 315,5 | 36,8 | 1181,2 | 331,6 | 34,3 |
| 1060 | 5 | 1096,1 | 253,3 | 29,6 | 1043,4 | 278,0 | 26,8 | 1021,2 | 288,2 | 25,7 | 987,2 | 303,6 | 24,0 |
| | 6 | 1128,9 | 256,1 | 31,3 | 1073,7 | 281,2 | 28,4 | 1051,5 | 291,3 | 27,2 | 1016,2 | 307,1 | 25,4 |
| | 7 | 1161,7 | 259,2 | 33,2 | 1105,2 | 284,3 | 30,0 | 1081,7 | 294,8 | 28,8 | 1046,0 | 310,2 | 26,9 |
| | 8 | 1190,8 | 262,3 | 34,9 | 1133,3 | 287,4 | 31,6 | 1109,5 | 297,9 | 30,3 | 1072,2 | 313,7 | 28,3 |
| | 9 | 1220,5 | 265,5 | 36,6 | 1161,2 | 290,9 | 33,2 | 1136,2 | 301,4 | 31,8 | 1099,4 | 316,8 | 29,7 |
| | 10 | 1249,6 | 268,9 | 38,4 | 1189,2 | 294,0 | 34,8 | 1163,9 | 304,8 | 33,3 | 1125,6 | 320,6 | 31,2 |
| | 12 | 1309,2 | 275,5 | 42,2 | 1245,5 | 301,2 | 38,2 | 1219,6 | 311,7 | 36,6 | 1179,1 | 327,5 | 34,2 |
| | 15 | 1398,3 | 286,1 | 48,1 | 1331,3 | 311,6 | 43,6 | 1303,1 | 322,4 | 41,8 | 1258,9 | 338,8 | 39,0 |
| 1160 | 5 | 1206,3 | 283,4 | 35,5 | 1148,4 | 311,1 | 32,2 | 1123,9 | 322,4 | 30,8 | 1086,4 | 339,7 | 28,8 |
| | 6 | 1242,4 | 286,5 | 37,6 | 1181,7 | 314,6 | 34,0 | 1157,2 | 325,9 | 32,6 | 1118,3 | 343,6 | 30,5 |
| | 7 | 1278,5 | 290,0 | 39,8 | 1216,4 | 318,1 | 36,1 | 1190,5 | 329,8 | 34,6 | 1151,2 | 347,1 | 32,3 |
| | 8 | 1310,5 | 293,5 | 41,9 | 1247,3 | 321,6 | 37,9 | 1221,1 | 333,3 | 36,4 | 1180,0 | 351,0 | 33,9 |
| | 9 | 1343,3 | 297,0 | 44,0 | 1277,9 | 325,5 | 39,8 | 1250,4 | 337,2 | 38,1 | 1210,0 | 354,5 | 35,7 |
| | 10 | 1375,3 | 300,9 | 46,1 | 1308,8 | 329,0 | 41,8 | 1280,9 | 341,0 | 40,0 | 1238,8 | 358,7 | 37,4 |
| | 12 | 1440,9 | 308,2 | 50,6 | 1370,8 | 337,0 | 45,8 | 1342,2 | 348,8 | 43,9 | 1297,7 | 366,4 | 41,1 |
| | 15 | 1538,9 | 320,1 | 57,7 | 1465,1 | 348,6 | 52,3 | 1434,2 | 360,7 | 50,1 | 1385,5 | 379,1 | 46,8 |
| 1260 | 5 | 1294,6 | 317,4 | 40,9 | 1232,4 | 348,4 | 37,0 | 1206,2 | 361,1 | 35,5 | 1166,0 | 380,4 | 33,1 |
| | 6 | 1333,4 | 320,9 | 43,3 | 1268,2 | 352,3 | 39,2 | 1241,9 | 365,0 | 37,6 | 1200,2 | 384,8 | 35,1 |
| | 7 | 1372,1 | 324,8 | 45,9 | 1305,4 | 356,3 | 41,5 | 1277,7 | 369,4 | 39,8 | 1235,5 | 388,7 | 37,2 |
| | 8 | 1406,5 | 328,7 | 48,2 | 1338,6 | 360,2 | 43,7 | 1310,5 | 373,3 | 41,9 | 1266,4 | 393,0 | 39,1 |
| | 9 | 1441,6 | 332,6 | 50,7 | 1371,5 | 364,5 | 45,9 | 1342,0 | 377,6 | 43,9 | 1298,6 | 397,0 | 41,1 |
| | 10 | 1476,0 | 336,9 | 53,1 | 1404,6 | 368,4 | 48,1 | 1374,7 | 382,0 | 46,1 | 1329,5 | 401,7 | 43,1 |
| | 12 | 1546,4 | 345,2 | 58,3 | 1471,2 | 377,5 | 52,8 | 1440,5 | 390,6 | 50,6 | 1392,7 | 410,4 | 47,3 |
| | 15 | 1651,6 | 358,5 | 66,5 | 1572,4 | 390,4 | 60,3 | 1539,2 | 404,0 | 57,8 | 1487,0 | 424,6 | 53,9 |

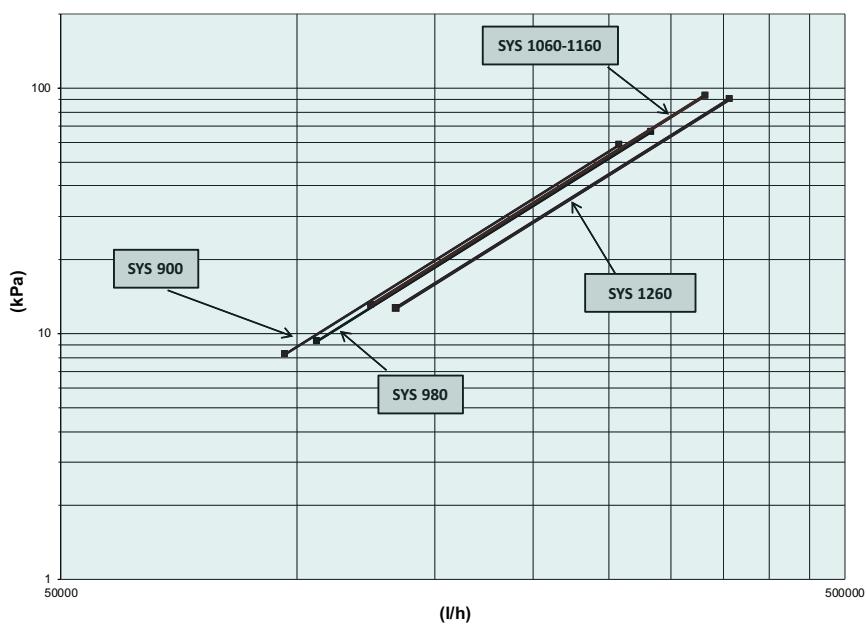
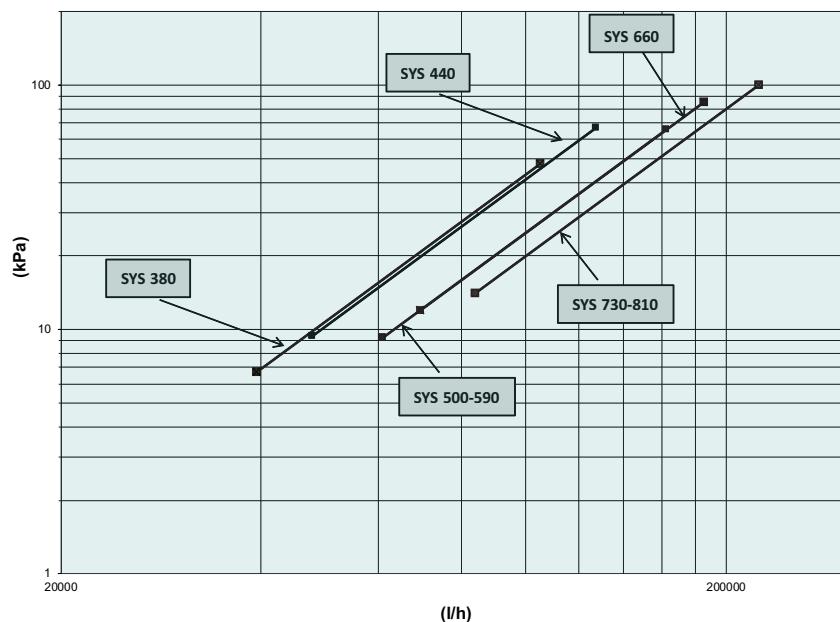
* Only Compressors.

| Model | LWT °C | Condensing Air Temperature °C | | | | | | | |
|-------|-----------|-------------------------------|-----------------|---------------|--------|-----------------|---------------|------|-----------------|
| | | 40 | | | 44 | | | 46 | |
| | | Cool | Input Power (*) | Pressure Drop | Cool | Input Power (*) | Pressure Drop | Cool | Input Power (*) |
| | | kW | kW | kPa | kW | kW | kPa | kW | kW |
| 810 | 5 | 681,2 | 258,0 | 27,8 | 603,0 | 255,6 | 21,8 | | |
| | 6 | 701,5 | 260,7 | 29,5 | 622,1 | 258,3 | 23,2 | | |
| | 7 | 721,6 | 263,5 | 31,2 | 642,6 | 260,8 | 24,7 | | |
| | 8 | 740,0 | 265,9 | 32,8 | 658,7 | 263,3 | 26,0 | | |
| | 9 | 758,7 | 268,6 | 34,5 | | | | | |
| | 10 | 775,9 | 271,3 | 36,0 | | | | | |
| | 12 | 813,3 | 277,3 | 39,6 | | | | | |
| | 15 | 869,2 | 285,9 | 45,2 | | | | | |
| 900 | 5 | 783,9 | 298,1 | 15,9 | 693,9 | 295,3 | 12,5 | | |
| | 6 | 807,3 | 301,2 | 16,9 | 715,9 | 298,4 | 13,3 | | |
| | 7 | 830,4 | 304,4 | 17,9 | 739,5 | 301,3 | 14,2 | | |
| | 8 | 851,6 | 307,2 | 18,8 | 758,0 | 304,2 | 14,9 | | |
| | 9 | 873,0 | 310,3 | 19,8 | | | | | |
| | 10 | 892,8 | 313,5 | 20,7 | | | | | |
| | 12 | 936,0 | 320,3 | 22,7 | | | | | |
| | 15 | 1000,2 | 330,3 | 25,9 | | | | | |
| 980 | 5 | 861,0 | 329,9 | 18,2 | 762,2 | 326,8 | 14,3 | | |
| | 6 | 886,7 | 333,4 | 19,3 | 786,3 | 330,2 | 15,2 | | |
| | 7 | 912,0 | 336,9 | 20,5 | 812,2 | 333,5 | 16,2 | | |
| | 8 | 935,4 | 340,0 | 21,5 | 832,6 | 336,6 | 17,1 | | |
| | 9 | 958,9 | 343,5 | 22,6 | | | | | |
| | 10 | 980,7 | 346,9 | 23,7 | | | | | |
| | 12 | 1028,0 | 354,5 | 26,0 | | | | | |
| | 15 | 1098,6 | 365,5 | 29,7 | | | | | |
| 1060 | 5 | 917,6 | 337,1 | 20,7 | 812,4 | 334,0 | 16,2 | | |
| | 6 | 945,1 | 340,7 | 22,0 | 838,1 | 337,5 | 17,3 | | |
| | 7 | 972,1 | 344,2 | 23,2 | 865,7 | 340,8 | 18,4 | | |
| | 8 | 996,9 | 347,5 | 24,4 | 887,4 | 344,0 | 19,4 | | |
| | 9 | 1022,0 | 351,0 | 25,7 | | | | | |
| | 10 | 1045,2 | 354,5 | 26,9 | | | | | |
| | 12 | 1095,7 | 362,3 | 29,5 | | | | | |
| | 15 | 1171,0 | 373,5 | 33,7 | | | | | |
| 1160 | 5 | 1009,9 | 377,2 | 24,9 | 894,1 | 373,7 | 19,5 | | |
| | 6 | 1040,1 | 381,2 | 26,4 | 922,3 | 377,6 | 20,7 | | |
| | 7 | 1069,8 | 385,1 | 27,9 | 952,8 | 381,3 | 22,1 | | |
| | 8 | 1097,2 | 388,7 | 29,3 | 976,7 | 384,9 | 23,3 | | |
| | 9 | 1124,8 | 392,7 | 30,8 | | | | | |
| | 10 | 1150,3 | 396,7 | 32,3 | | | | | |
| | 12 | 1205,9 | 405,3 | 35,5 | | | | | |
| | 15 | 1288,7 | 417,9 | 40,5 | | | | | |
| 1260 | 5 | 1083,9 | 422,5 | 28,6 | 918,2 | 384,8 | 20,6 | | |
| | 6 | 1116,3 | 426,9 | 30,4 | 947,3 | 388,8 | 21,9 | | |
| | 7 | 1148,2 | 431,3 | 32,1 | 978,8 | 392,7 | 23,4 | | |
| | 8 | 1130,4 | 402,7 | 31,2 | 1003,3 | 396,3 | 24,5 | | |
| | 9 | 1158,9 | 406,8 | 32,7 | | | | | |
| | 10 | 1185,2 | 410,9 | 34,2 | | | | | |
| | 12 | 1242,4 | 419,9 | 37,6 | | | | | |
| | 15 | 1327,7 | 433,0 | 43,0 | | | | | |

* Only Compressors.

Evaporator Pressure Drop - R134a

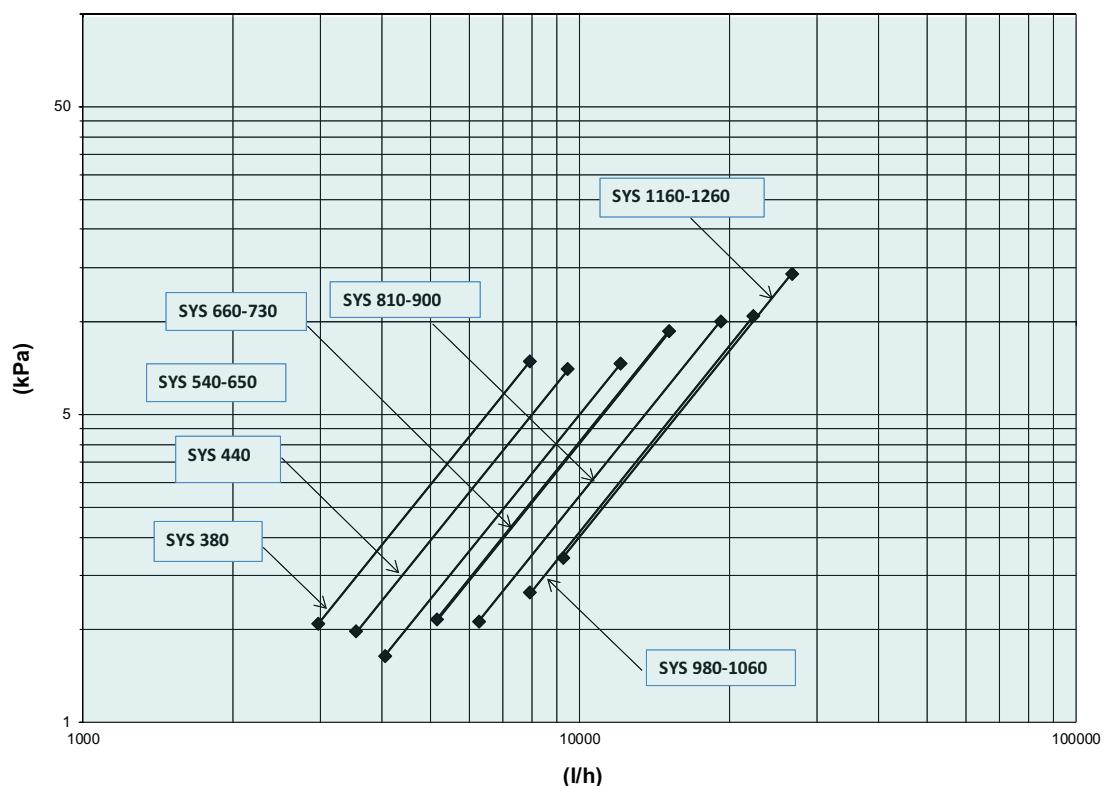
| Model | Nom. Capacity | Qnom. | Qmax. | Qmin. | K | Dp nom | DP max | DP min |
|-------|---------------|---------|---------|---------|------------------------|--------|--------|--------|
| | kW | l/h | l/h | l/h | kPa/(l/h) ² | kPa | kPa | kPa |
| 380 | 366 | 63.010 | 105.016 | 39.381 | 4,314E-09 | 17,1 | 47,6 | 6,7 |
| 450 | 444 | 76.366 | 127.277 | 47.729 | 4,129E-09 | 24,1 | 66,9 | 9,4 |
| 500 | 501 | 86.180 | 143.633 | 53.862 | 2,486E-09 | 18,5 | 51,3 | 7,2 |
| 590 | 567 | 97.512 | 162.519 | 60.945 | 2,486E-09 | 23,6 | 65,7 | 9,2 |
| 660 | 645 | 110.953 | 184.922 | 69.346 | 2,485E-09 | 30,6 | 85,0 | 11,9 |
| 730 | 706 | 121.426 | 202.376 | 75.891 | 1,999E-09 | 29,5 | 81,9 | 11,5 |
| 810 | 780 | 134.199 | 223.666 | 83.875 | 1,999E-09 | 36,0 | 100,0 | 14,1 |
| 900 | 898 | 154.539 | 257.565 | 96.587 | 8,812E-10 | 21,0 | 58,5 | 8,2 |
| 980 | 985 | 169.490 | 282.483 | 105.931 | 8,297E-10 | 23,8 | 66,2 | 9,3 |
| 1060 | 1050 | 180.531 | 300.885 | 112.832 | 8,459E-10 | 27,6 | 76,6 | 10,8 |
| 1160 | 1157 | 198.964 | 331.607 | 124.353 | 8,459E-10 | 33,5 | 93,0 | 13,1 |
| 1260 | 1243 | 213.864 | 356.440 | 133.665 | 7,106E-10 | 32,5 | 90,3 | 12,7 |



Desuperheater pressure drop

| Model | Nom. Capacity | Qnom. | Qmax. | Qmin. | K | Dp nom | DP max | DP min |
|-------|---------------|--------|--------|--------|-------------|--------|--------|--------|
| | kW* | l/h | l/h | l/h | kPa/(l/h)^2 | kPa | kPa | kPa |
| 380 | 28 | 4.752 | 7.919 | 2.970 | 1,1838E-07 | 2,7 | 7,4 | 1,0 |
| 440 | 33 | 5.680 | 9.467 | 3.550 | 7,8281E-08 | 2,5 | 7,0 | 1,0 |
| 510 | 38 | 6.474 | 10.791 | 4.046 | 5,0243E-08 | 2,1 | 5,9 | 0,8 |
| 590 | 42 | 7.252 | 12.087 | 4.532 | 5,0243E-08 | 2,6 | 7,3 | 1,0 |
| 660 | 48 | 8.245 | 13.742 | 5.153 | 4,0625E-08 | 2,8 | 7,7 | 1,1 |
| 730 | 53 | 9.072 | 15.120 | 5.670 | 4,0625E-08 | 3,3 | 9,3 | 1,3 |
| 810 | 58 | 10.023 | 16.706 | 6.265 | 2,7081E-08 | 2,7 | 7,6 | 1,1 |
| 900 | 67 | 11.543 | 19.238 | 7.214 | 2,7081E-08 | 3,6 | 10,0 | 1,4 |
| 980 | 74 | 12.693 | 21.156 | 7.933 | 2,0919E-08 | 3,4 | 9,4 | 1,3 |
| 1060 | 78 | 13.396 | 22.327 | 8.373 | 2,0919E-08 | 3,8 | 10,4 | 1,5 |
| 1160 | 86 | 14.808 | 24.681 | 9.255 | 2,0004E-08 | 4,4 | 12,2 | 1,7 |
| 1260 | 93 | 16.044 | 26.740 | 10.028 | 2,0004E-08 | 5,1 | 14,3 | 2,0 |

* Capacity referred to only one circuit.



Hydro options

SYSCREW 380-1260 AIR EVO HSE R134a (STD/HT)

| Low head pump/s - STD / HT R134a [50 Hz] | | | | | | | | |
|--|-----------------------------|-----------------------------|------------------|-------------------|-----------------------|-----|------|-------|
| Chiller model | η _{s,c} - ERP 2018 | η _{s,c} - ERP 2021 | Q _{nom} | H _{pump} | Δp _{circuit} | H | Pmax | F.L.A |
| | FW/VO | VW/VO(*) | l/h | kPa | kPa | kPa | kW | A |
| 380 | 169% | 177% | 62.083 | 218 | 33 | 185 | 5,5 | 10,4 |
| 440 | 176% | 184% | 75.238 | 195 | 47 | 148 | 5,5 | 10,4 |
| 510 | 170% | 179% | 84.912 | 209 | 49 | 160 | 7,5 | 14,1 |
| 590 | 175% | 184% | 96.077 | 197 | 62 | 135 | 7,5 | 14,1 |
| 660 | 170% | 179% | 109.321 | 229 | 80 | 149 | 9,2 | 17,4 |
| 730 | 168% | 179% | 120.516 | 230 | 91 | 139 | 11,0 | 20,2 |
| 810 | 170% | 181% | 132.226 | 214 | 71 | 143 | 11,0 | 20,2 |
| 900 | 161% | 179% | 153.375 | 223 | 69 | 154 | 15,0 | 26,6 |
| 980 | 161% | 182% | 166.991 | 216 | 80 | 136 | 15,0 | 26,6 |
| 1060 | 165% | 179% | 177.008 | 257 | 90 | 167 | 18,5 | 32,7 |
| 1160 | 168% | 181% | 195.082 | 247 | 109 | 137 | 18,5 | 32,7 |
| 1260 | 165% | 182% | 209.694 | 283 | 121 | 162 | 22,0 | 42,2 |

| High head pump/s - STD / HT R134a [50 Hz] | | | | | | | | |
|---|-----------------------------|-----------------------------|------------------|-------------------|-----------------------|-----|------|-------|
| Chiller model | η _{s,c} - ERP 2018 | η _{s,c} - ERP 2021 | Q _{nom} | H _{pump} | Δp _{circuit} | H | Pmax | F.L.A |
| | FW/VO | VW/VO(*) | l/h | kPa | kPa | kPa | kW | A |
| 380 | 161% | 174% | 62.083 | 267 | 33 | 234 | 7,5 | 13,6 |
| 440 | 167% | 179% | 75.238 | 295 | 47 | 248 | 9,2 | 17,2 |
| 510 | 170% | 179% | 84.912 | 279 | 49 | 230 | 9,2 | 17,2 |
| 590 | 170% | 179% | 96.077 | 304 | 62 | 242 | 11,0 | 20,2 |
| 660 | 166% | 179% | 109.321 | 295 | 80 | 215 | 15,0 | 26,6 |
| 730 | 161% | 179% | 120.399 | 336 | 90 | 245 | 18,5 | 32,7 |
| 810 | 161% | 179% | 133.838 | 324 | 73 | 251 | 18,5 | 32,7 |
| 900 | 161% | 179% | 153.375 | 312 | 69 | 244 | 22,0 | 42,2 |
| 980 | 161% | 180% | 169.190 | 306 | 82 | 224 | 22,0 | 42,2 |
| 1060 | 162% | 180% | 177.008 | 302 | 90 | 212 | 22,0 | 42,2 |
| 1160 | 161% | 181% | 197.186 | 383 | 111 | 271 | 30,0 | 53,5 |
| 1260 | 161% | 180% | 211.236 | 375 | 123 | 252 | 30,0 | 53,5 |

SYSCREW 380-1260 AIR EVO HSE R513A (STD/HT)

| Low head pump/s - STD / HT R513A [50 Hz] | | | | | | | | |
|--|-----------------------------|-----------------------------|------------------|-------------------|-----------------------|-----|------|-------|
| Chiller model | η _{s,c} - ERP 2018 | η _{s,c} - ERP 2021 | Q _{nom} | H _{pump} | Δp _{circuit} | H | Pmax | F.L.A |
| | FW/VO | VW/VO(*) | l/h | kPa | kPa | kPa | kW | A |
| 380 | 163% | 170% | 62.704 | 217 | 34 | 183 | 5,5 | 10,4 |
| 440 | 170% | 179% | 76.176 | 194 | 49 | 145 | 5,5 | 10,4 |
| 510 | 165% | 183% | 86.179 | 208 | 50 | 158 | 7,5 | 14,1 |
| 590 | 169% | 187% | 97.038 | 196 | 64 | 132 | 7,5 | 14,1 |
| 660 | 167% | 181% | 111.222 | 227 | 83 | 144 | 9,2 | 17,4 |
| 730 | 166% | 183% | 123.195 | 226 | 95 | 132 | 11,0 | 20,2 |
| 810 | 167% | 184% | 135.177 | 210 | 74 | 136 | 11,0 | 20,2 |
| 900 | 161% | 181% | 156.409 | 221 | 71 | 150 | 15,0 | 26,6 |
| 980 | 161% | 182% | 170.717 | 215 | 84 | 131 | 15,0 | 26,6 |
| 1060 | 161% | 184% | 178.778 | 256 | 92 | 164 | 18,5 | 32,7 |
| 1160 | 162% | 180% | 197.033 | 245 | 111 | 134 | 18,5 | 32,7 |
| 1260 | 161% | 180% | 211.791 | 281 | 123 | 158 | 22,0 | 42,2 |

| High head pump/s - STD / HT R513A [50 Hz] | | | | | | | | |
|---|-----------------------------|-----------------------------|------------------|-------------------|-----------------------|-----|------|-------|
| Chiller model | η _{s,c} - ERP 2018 | η _{s,c} - ERP 2021 | Q _{nom} | H _{pump} | Δp _{circuit} | H | Pmax | F.L.A |
| | FW/VO | VW/VO(*) | l/h | kPa | kPa | kPa | kW | A |
| 380 | 156% | 168% | 62.704 | 266 | 34 | 233 | 7,5 | 13,6 |
| 440 | 162% | 179% | 76.176 | 293 | 49 | 245 | 9,2 | 17,2 |
| 510 | 166% | 182% | 86.179 | 276 | 50 | 226 | 9,2 | 17,2 |
| 590 | 164% | 185% | 97.038 | 303 | 64 | 240 | 11,0 | 20,2 |
| 660 | 163% | 179% | 111.222 | 294 | 83 | 211 | 15,0 | 26,6 |
| 730 | 161% | 180% | 123.195 | 333 | 95 | 239 | 18,5 | 32,7 |
| 810 | 161% | 179% | 136.154 | 322 | 75 | 246 | 18,5 | 32,7 |
| 900 | 161% | 180% | 156.560 | 311 | 72 | 240 | 22,0 | 42,2 |
| 980 | 161% | 182% | 172.774 | 304 | 86 | 218 | 22,0 | 42,2 |
| 1060 | 161% | 179% | 178.778 | 301 | 92 | 210 | 22,0 | 42,2 |
| 1160 | 161% | 179% | 198.964 | 382 | 113 | 268 | 30,0 | 53,5 |
| 1260 | 161% | 179% | 213.556 | 373 | 125 | 248 | 30,0 | 53,5 |

* Pump with inverter mandatory

SYSCREW 380-1260 AIR EVO HSE S R134a

| Low head pump/s - S R134a [50 Hz] | | | | | | | | |
|-----------------------------------|-----------------------------|-----------------------------|------------------|-------------------|-----------------------|-----|------|-------|
| Chiller model | η _{s,c} - ERP 2018 | η _{s,c} - ERP 2021 | Q _{nom} | H _{pump} | Δp _{circuit} | H | Pmax | F.L.A |
| | FW/V0 | VW/V0(*) | l/h | kPa | kPa | kPa | kW | A |
| 380 | 164% | 172% | 61.594 | 218 | 32 | 186 | 5,5 | 10,4 |
| 440 | 175% | 183% | 75.033 | 196 | 47 | 149 | 5,5 | 10,4 |
| 510 | 169% | 179% | 84.581 | 210 | 48 | 161 | 7,5 | 14,1 |
| 590 | 174% | 181% | 95.624 | 198 | 62 | 136 | 7,5 | 14,1 |
| 660 | 168% | 180% | 108.735 | 230 | 79 | 150 | 9,2 | 17,4 |
| 730 | 165% | 183% | 119.336 | 231 | 89 | 142 | 11,0 | 20,2 |
| 810 | 169% | 180% | 131.859 | 215 | 71 | 144 | 11,0 | 20,2 |
| 900 | 161% | 181% | 153.084 | 223 | 68 | 154 | 15,0 | 26,6 |
| 980 | 161% | 183% | 166.949 | 216 | 80 | 136 | 15,0 | 26,6 |
| 1060 | 165% | 182% | 176.673 | 257 | 90 | 167 | 18,5 | 32,7 |
| 1160 | 169% | 185% | 194.500 | 247 | 108 | 138 | 18,5 | 32,7 |
| 1260 | 166% | 182% | 208.735 | 283 | 120 | 164 | 22,0 | 42,2 |

| High head pump/s - S R134a [50 Hz] | | | | | | | | |
|------------------------------------|-----------------------------|-----------------------------|------------------|-------------------|-----------------------|-----|------|-------|
| Chiller model | η _{s,c} - ERP 2018 | η _{s,c} - ERP 2021 | Q _{nom} | H _{pump} | Δp _{circuit} | H | Pmax | F.L.A |
| | FW/V0 | VW/V0(*) | l/h | kPa | kPa | kPa | kW | A |
| 380 | 156% | 169% | 61.594 | 268 | 32 | 235 | 7,5 | 13,6 |
| 440 | 166% | 179% | 75.033 | 295 | 47 | 248 | 9,2 | 17,2 |
| 510 | 169% | 179% | 84.581 | 279 | 48 | 231 | 9,2 | 17,2 |
| 590 | 168% | 179% | 95.624 | 304 | 62 | 242 | 11,0 | 20,2 |
| 660 | 163% | 180% | 108.735 | 296 | 79 | 216 | 15,0 | 26,6 |
| 730 | 161% | 179% | 120.792 | 335 | 91 | 244 | 18,5 | 32,7 |
| 810 | 161% | 181% | 133.789 | 324 | 73 | 251 | 18,5 | 32,7 |
| 900 | 161% | 181% | 153.084 | 313 | 68 | 244 | 22,0 | 42,2 |
| 980 | 161% | 182% | 168.980 | 306 | 82 | 224 | 22,0 | 42,2 |
| 1060 | 162% | 179% | 176.673 | 302 | 89 | 213 | 22,0 | 42,2 |
| 1160 | 161% | 184% | 195.930 | 383 | 110 | 273 | 30,0 | 53,5 |
| 1260 | 161% | 182% | 209.759 | 376 | 121 | 255 | 30,0 | 53,5 |

SYSCREW 380-1260 AIR EVO HSE S R513A

| Low head pump/s - S R513A [50 Hz] | | | | | | | | |
|-----------------------------------|-----------------------------|-----------------------------|------------------|-------------------|-----------------------|-----|------|-------|
| Chiller model | η _{s,c} - ERP 2018 | η _{s,c} - ERP 2021 | Q _{nom} | H _{pump} | Δp _{circuit} | H | Pmax | F.L.A |
| | FW/V0 | VW/V0(*) | l/h | kPa | kPa | kPa | kW | A |
| 380 | 171% | 180% | 62.838 | 216 | 34 | 183 | 5,5 | 10,4 |
| 440 | 182% | 192% | 76.549 | 193 | 49 | 144 | 5,5 | 10,4 |
| 510 | 175% | 184% | 86.289 | 208 | 50 | 158 | 7,5 | 14,1 |
| 590 | 180% | 190% | 97.555 | 195 | 64 | 131 | 7,5 | 14,1 |
| 660 | 174% | 187% | 110.931 | 227 | 83 | 144 | 9,2 | 17,4 |
| 730 | 172% | 184% | 122.044 | 228 | 93 | 135 | 11,0 | 20,2 |
| 810 | 176% | 188% | 134.523 | 211 | 74 | 137 | 11,0 | 20,2 |
| 900 | 165% | 185% | 155.045 | 222 | 70 | 152 | 15,0 | 26,6 |
| 980 | 167% | 186% | 169.908 | 215 | 83 | 132 | 15,0 | 26,6 |
| 1060 | 172% | 186% | 180.242 | 255 | 93 | 162 | 18,5 | 32,7 |
| 1160 | 175% | 192% | 198.429 | 244 | 113 | 132 | 18,5 | 32,7 |
| 1260 | 172% | 191% | 212.952 | 280 | 125 | 156 | 22,0 | 42,2 |

| High head pump/s - S R513A [50 Hz] | | | | | | | | |
|------------------------------------|-----------------------------|-----------------------------|------------------|-------------------|-----------------------|-----|------|-------|
| Chiller model | η _{s,c} - ERP 2018 | η _{s,c} - ERP 2021 | Q _{nom} | H _{pump} | Δp _{circuit} | H | Pmax | F.L.A |
| | FW/V0 | VW/V0(*) | l/h | kPa | kPa | kPa | kW | A |
| 380 | 163% | 179% | 62.838 | 266 | 34 | 232 | 7,5 | 13,6 |
| 440 | 173% | 180% | 76.549 | 293 | 49 | 244 | 9,2 | 17,2 |
| 510 | 176% | 182% | 86.289 | 276 | 50 | 226 | 9,2 | 17,2 |
| 590 | 175% | 184% | 97.555 | 303 | 64 | 239 | 11,0 | 20,2 |
| 660 | 170% | 179% | 110.931 | 294 | 83 | 211 | 15,0 | 26,6 |
| 730 | 165% | 179% | 122.044 | 334 | 93 | 241 | 18,5 | 32,7 |
| 810 | 163% | 182% | 134.523 | 323 | 74 | 249 | 18,5 | 32,7 |
| 900 | 165% | 182% | 155.045 | 312 | 70 | 242 | 22,0 | 42,2 |
| 980 | 162% | 184% | 169.908 | 306 | 83 | 223 | 22,0 | 42,2 |
| 1060 | 168% | 184% | 180.242 | 301 | 93 | 208 | 22,0 | 42,2 |
| 1160 | 165% | 180% | 198.429 | 382 | 113 | 269 | 30,0 | 53,5 |
| 1260 | 166% | 179% | 212.952 | 374 | 125 | 249 | 30,0 | 53,5 |

* Pump with inverter mandatory

Hydraulic options overview

| Mode | Fixed Speed | Variable Speed | | | |
|-------------------------------------|--|--|--|---|--|
| | | COMMISSIONING | ΔP LOGIC | ΔT LOGIC | AUTO FLOW CONTROL |
| FEATURES | Constant water flow | Constant water flow | Variable water flow according to $\Delta P_{USER}^{(*)}$ | Variable water flow according to $\Delta T_{WATER}^{(*)}$ & $\Delta P_{AVAILABLE}^{(*)}$ (Available Static Head) | Variable water flow according to $\Delta P_{AVAILABLE}^{(*)}$ (Available Static Head) |
| BENEFITS | - | Higher efficiency than solution: Fixed speed pump + regulation valve | Pump energy savings as the user side 2-way valves close due to reduction in cooling load | Pump energy savings as the user side 3-way valves reduce the water flow to water terminals due to reduction in cooling load | Water flow optimization logic for energy saving (according to the operative mode) |
| SUGGESTED APPLICATIONS | - | Plants designed with fixed water flow (limited water flow regulations) | Plants designed with water terminals frequently open/close with 2-way valve | Plants designed with water terminals frequently open/close with 3-way valve | - Plants designed with water terminals frequently open/close with 3-way valve - Start-Ups and working conditions when water temperature is distant from set point |
| PARAMETERS TO BE SET ⁽¹⁾ | a) Pump Frequency Set Manually | ✓ | | | |
| | b) $\Delta T_{WATER}^{(*)}$ | | | | ✓ |
| | c) $\Delta P_{USER}^{(*)}$ | ✓ | | | |
| | d) $\Delta P_{AVAILABLE}^{(*)}$ | | | ✓ | ✓ |
| UNIT SAFETY | a) No dedicated safety features included | ✓ | ✓ | | |
| | b) $\Delta P_{EVAPORATOR}$ control on unit heat exchanger ⁽²⁾ | | | ✓ | ✓ |
| PLANT DEVICES ON USER SIDE | a) By-pass modulating valve (BMV) could be suggested ⁽³⁾ | | | ✓ | ✓ |
| | b) Differential pressure transducer (DPT) mandatory ⁽⁴⁾ | | | ✓ | |
| | c) Water flow switch recommended | ✓ | ✓ | | |
| SPECIAL EXECUTIONS | a) Application for Multi-Chiller Systems | ✓ | ✓ | Available on Request | Available on Request |

(1) Parameters set via unit PLC

(2) A differential pressure transducer is installed as standard on the unit heat exchanger to ensure a minimum value of water pressure drops (corresponding to a minimum value of water flow) that avoids risk of freezing the evaporator, even in conditions strongly part loaded

(3) In case the Plant Water Flow is lower than the minim unit water flow / minimum pump water flow

(4) Supplied loose, to be installed on field

(5) Erp 2018 (FW/VO); Erp 2021 (VW/VO)

(*) Definition of parameters to be set:

ΔP_{USER} (see Figure 2) = Minimum water pressure drop guaranteed across the installation point on user plant

ΔT_{WATER} = Difference between chiller inlet water temperature and outlet water temperature (see Figure 3)

$\Delta P_{AVAILABLE}$ = Available Static Head for user side (see Figure 4) / Pump static pressure reduced by overall chiller hydraulics pressure drops (evaporator and hydraulic circuit)

Variable flow hydronic systems

The industry is now moving towards more efficient and optimized solutions with the implementation of new regulations by ECO-DESIGN DIRECTIVES, which thereby results in energy savings on the chiller and hydraulic systems.

In traditional systems, the pump power regulation are carried out only in secondary circuit while pumps in primary circuit run at fixed speeds, even when the cooling demand is very low.

Furthermore, pumps are sized for maximum design conditions and often with a margin resulting in greater power consumption than required, even when they not required working at full load as the speed is not regulated to meet the demand.

In conclusion, pumps are wasting energy and money when the pump does not adapt their speed to the demand.

Systemair has come up with smart logic of managing variable flow inverter pumps that can be applied for various installation types with ultimate goal of saving “pumping energy consumption” and improving the part load performances of the system.

MODE 1 – COMMISSIONING MODE [V2]:

Commissioning mode consists of an inverter with the hydraulic module to adjust the pump speed manually from the chiller controller in order to calibrate its flow rate based on the system load losses without the need of a mechanical modulating valve. The units equipped with an integrated hydraulic module allow to obtain a certain level of useful head (point **A**) under nominal flow conditions **Qn**. Normally, however, the actual level of system load losses (eg characteristic curve **CC2**) brings the pump to find a different equilibrium point (point **B**), with a Flow **Qb** greater than **Qn**. In this condition, besides having a different flow rate than the nominal one (therefore also a different jump of temperature), there is also a greater absorption of electric power from the pump itself.

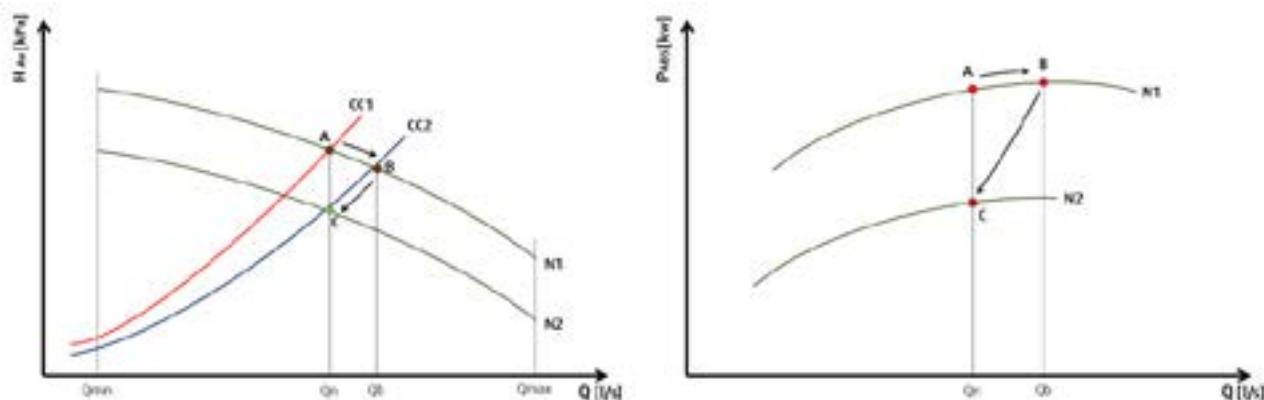


FIGURE 1 : CHARACTERISTIC CURVES & POWER ABSORPTION CURVES

Using the commissioning mode allows you to manually set the speed of the pump (example at speed N2 instead of N1) to obtain the water flow rate and the temperature jump required by the design conditions (point C). Once the adjustment procedure is finished, the pump will always work at a fixed flow rate. This mode allows to considerably reduce the electric power consumption of the pump with a consequent energy saving. As an example, when pump works at 30 Hz, the absorbed power consumption of the pump reduces by 80% compared to 50Hz pump operation.

MODE 2 – ΔP CONTROL [VD]:

VD mode provides variable flow system, consisting solely of the primary circuit on the user side.

VD mode includes the following components:

- Two pressure transducers installed at the ends of the heat exchanger ($\Delta P_{EVAPORATOR}$) factory installed.
- A dedicated system control, factory installed.
- A bypass valve with actuator supplied loose (installation by the customer).
- Differential pressure transducer (ΔP_{USER}) supplied loose as accessory (installed by the customer)

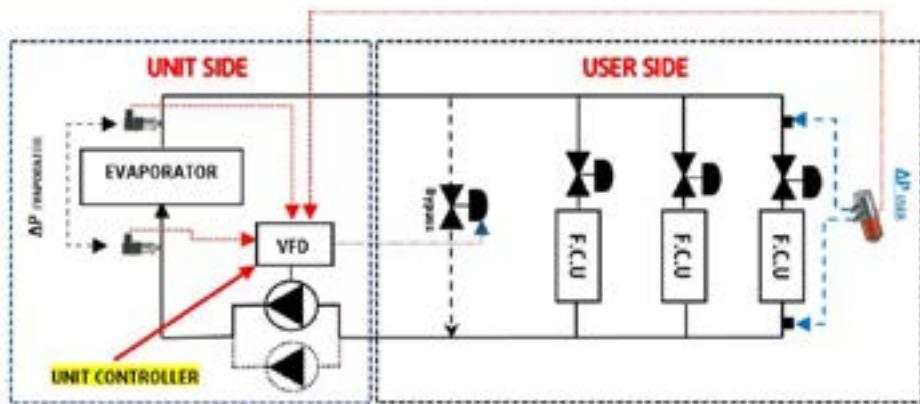


FIGURE 2: GENERAL SCHEMATICS FOR ΔP CONTROL

The option offers a complete and predefined package, guaranteeing simple selection, supply and commissioning. In particular, the unit includes an additional control system, equipped with an evolved algorithm, which interacts with the main control of the unit.

VD mode provides following advantages:

- Implement an innovative design, an alternate to the classic system based on a primary flow rate circuit plus secondary circuit.
- An ideal solution for new or completely redesigned systems particularly for comfort applications.
- A complete variable flow system with maximum energy savings.
- A simplified user circuit.
- It reduces the capital cost [CAPEX] of the user plant and the operating cost [OPEX].
- The system provides complete and reliable control of the system.
- A bypass valve, which ensures the minimum flow across the heat exchanger therefore preventing the heat exchanger from freezing.
- The pump speed will reduce automatically to save energy during low occupancy periods.

The operating principle of VD summarized as follows:

- The system controller modulates the pump speed based on the condition detected by the user side differential pressure transducer.
- The user shall define the required ΔP_{USER} from the chiller controller.
- The pump speed will decrease as the user side shut-off valve closes due to reduction in cooling load.
- The pump speed can reduce until it reaches the minimum allowable flow rate on the heat exchanger of the unit.
- Upon exceeding the minimum allowable flow threshold, the by-pass valve will open triggered by the frequency drive controller, to recirculate the flow that is not required by the plant, but which is necessary to guarantee the flow rate minimum to the exchanger.
- The by-pass valve is controlled by a 4-20 mA input signal and a power supply of 24 V.
- The differential pressure transducer of the user side provided is a 0-10 V signal, which has a PVDF connection. The transducer must be installed near the terminal of the system that suffers the greatest losses of line load or in any case in a position where it is possible to detect an adequate pressure value.

MODE 3 – ΔT CONTROL [VC]:

This mode provides variable flow system, consisting of the primary circuit / primary + secondary circuit. VC mode includes the following components:

- Two pressure transducers installed at the ends of the heat exchanger ($\Delta P_{EVAPORATOR}$) factory installed.
- A dedicated system control, factory installed.
- A bypass valve with actuator supplied loose (installation by the customer).

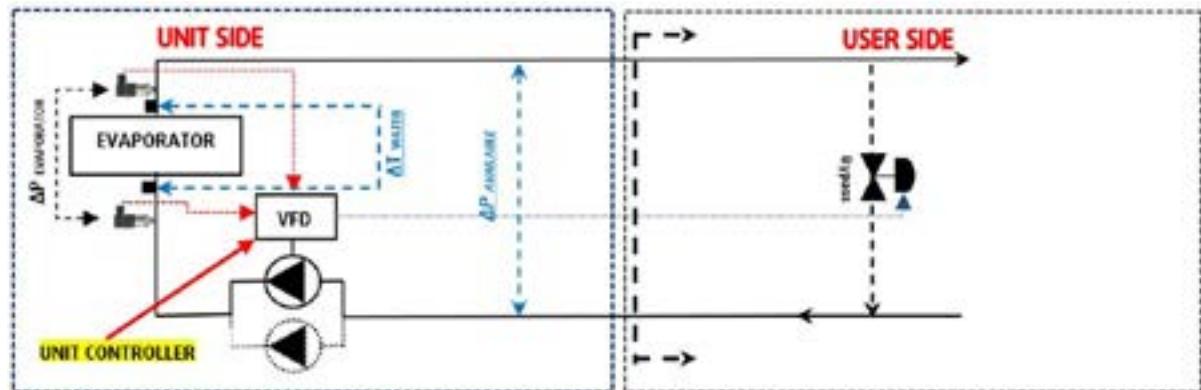


FIGURE 3: GENERAL SCHEMATICS FOR ΔT CONTROL

The option offers a complete and predefined package, guaranteeing simple selection, supply and commissioning. In particular, the unit includes an additional control system, equipped with an evolved algorithm, which interacts with the main control of the unit.

VC mode provides following advantages:

- An ideal solution for systems working on fixed ΔT .
- A complete variable flow system with maximum energy savings.
- The system provides complete and reliable control of the system.
- It reduces the operating cost of the plant [OPEX].
- The pump speed will reduce automatically to save energy during low occupancy periods.
- A bypass, which ensures the minimum flow across the heat exchanger therefore preventing the heat exchanger from freezing.

The operating principle of VC summarized as follows:

- VC mode performs an intelligent control of the flow based on the user-defined constant ΔT .
- The user defines the ΔT setpoint from the chiller controller.
- The user has a flexibility to fix the required operating head from the chiller controller.
- The pump speed can reduce until it reaches the minimum allowable flow rate on the heat exchanger of the unit.
- Upon exceeding the minimum allowable flow threshold, the by-pass valve will open triggered by the frequency drive, to recirculate the flow that is not required by the plant, but which is necessary to guarantee the flow rate minimum to the exchanger.

MODE 4 – AUTO-FLOW CONTROL [AFC]:

This mode provides variable flow system, consisting of the primary circuit / primary + secondary circuit.

AFC mode includes the following components:

- Two pressure transducers installed at the ends of the heat exchanger ($\Delta P_{EVAPORATOR}$) factory installed.
- A dedicated system control, factory installed.
- A modulating bypass valve with actuator supplied loose (installation by the customer).

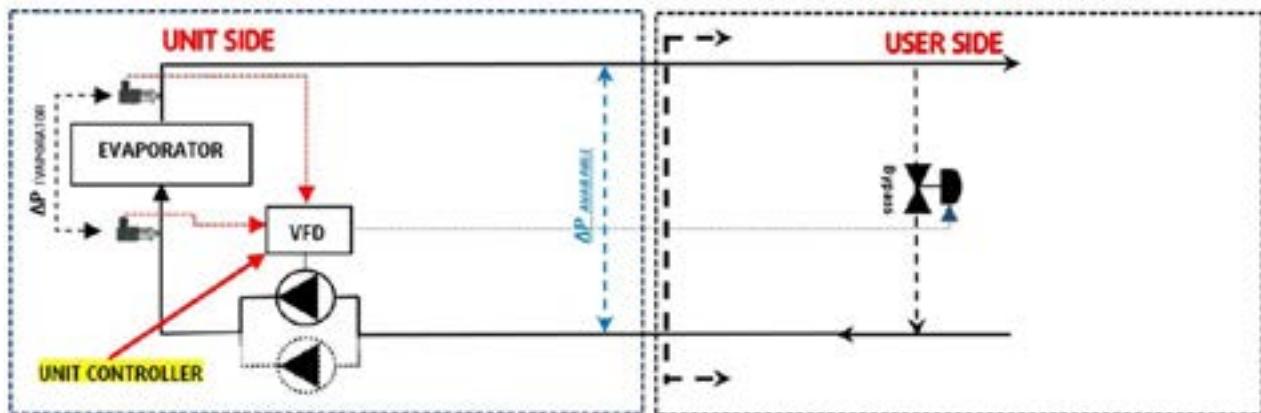


FIGURE 4: GENERAL SCHEMATICS FOR AUTO FLOW CONTROL

The option offers a complete and predefined package, guaranteeing simple selection, supply and commissioning. In particular, the unit includes an additional control system, equipped with an evolved algorithm, which interacts with the main control of the unit.

AFC mode provides following advantages:

- This solution is suitable for traditional installations with constant water flow and terminal units equipped with three-way valves.
- It reduces the operating cost of the plant [OPEX].
- The system provides complete and reliable control of the system.
- When the compressor capacity is equal to zero, the pump speed will reduced automatically to save energy during low occupancy periods.
- A bypass, which ensures the minimum flow across the heat exchanger therefore preventing the heat exchanger from freezing.

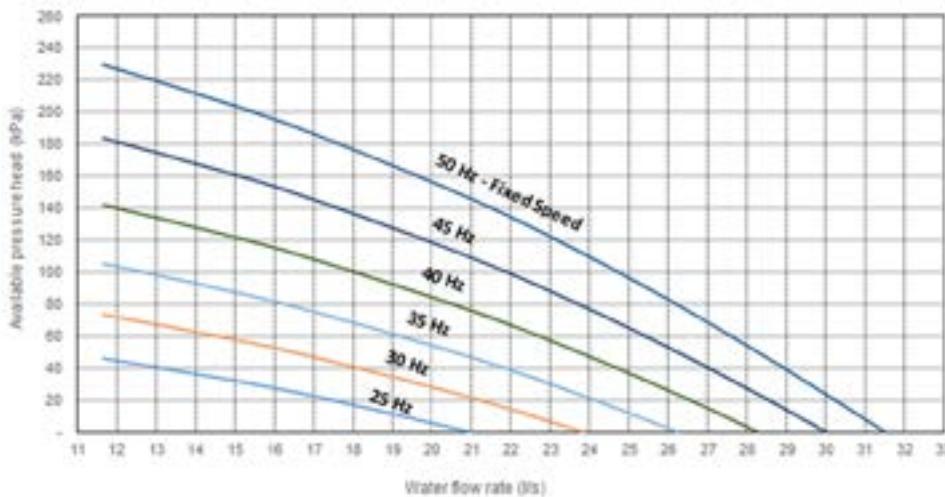
The operating principle of AFC summarized as follows:

- Once the chiller has reached the water temperature set-point, the control ensures to work continuously at the best efficient pump speed.
- During transient periods to reach the chiller water temperature set-point (e.g start-up), the control optimizes the pump speed to get the lowest power consumption.
- The user has a flexibility to fix the required operating head from the chiller controller.
- The pump speed can reduce until it reaches the minimum allowable flow rate on the heat exchanger of the unit.
- Upon exceeding the minimum allowable flow threshold, the by-pass valve will open triggered by the frequency drive, to recirculate the flow that is not required by the plant, but which is necessary to guarantee the flow rate minimum to the exchanger

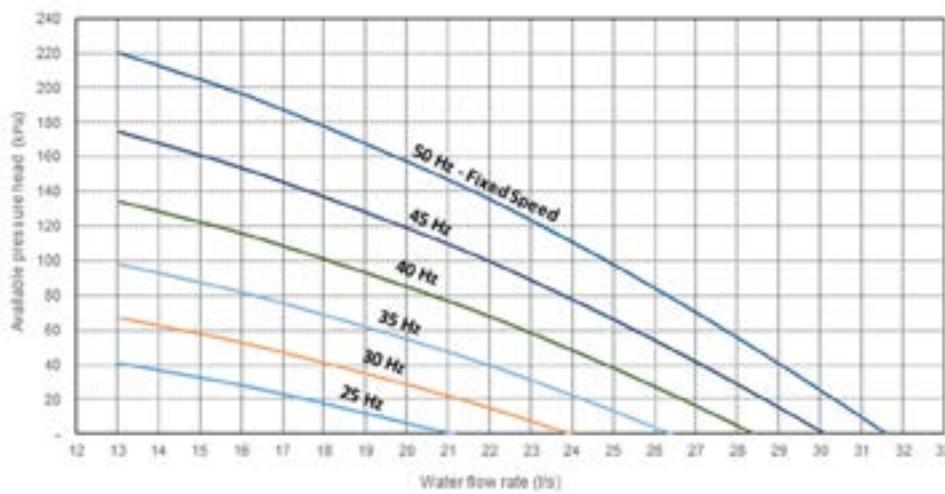
Available pressure head - SYSCREW AIR EVO HSE

Standard pressure pump (1/2PSP)

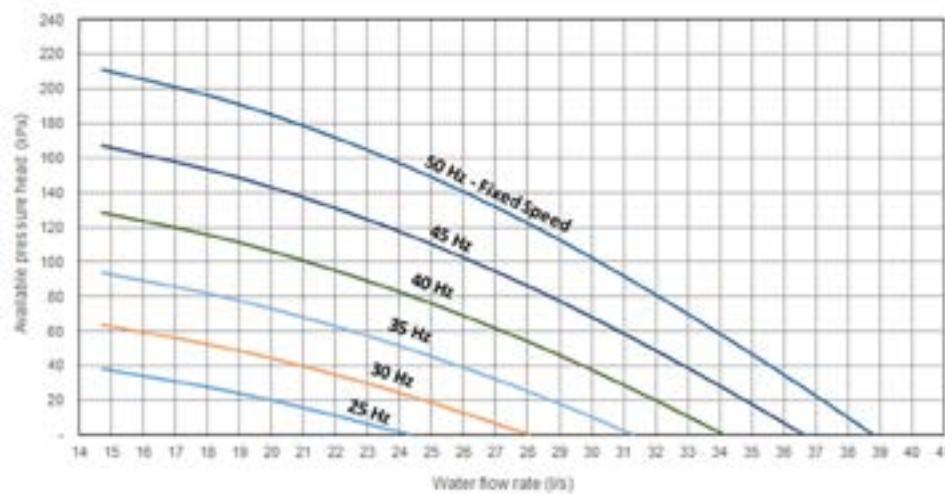
SYSCREW 380 AIR EVO HSE



SYSCREW 440 AIR EVO HSE



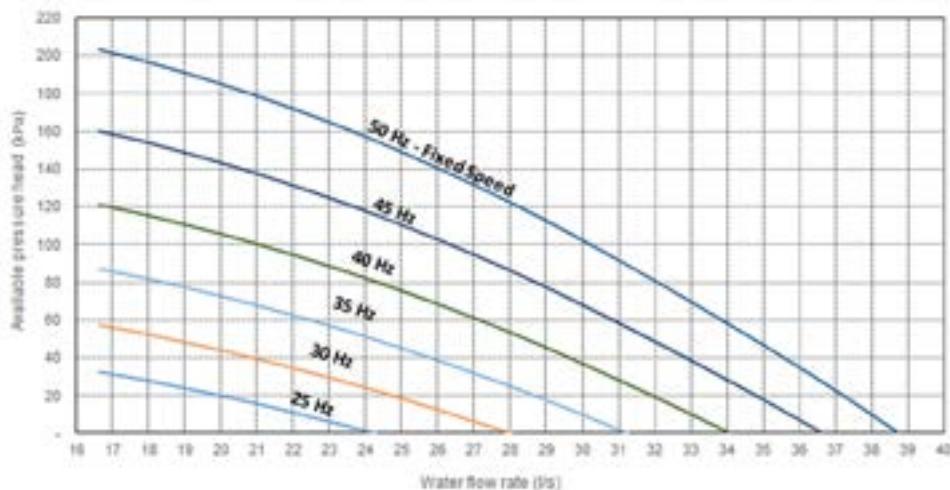
SYSCREW 510 AIR EVO HSE



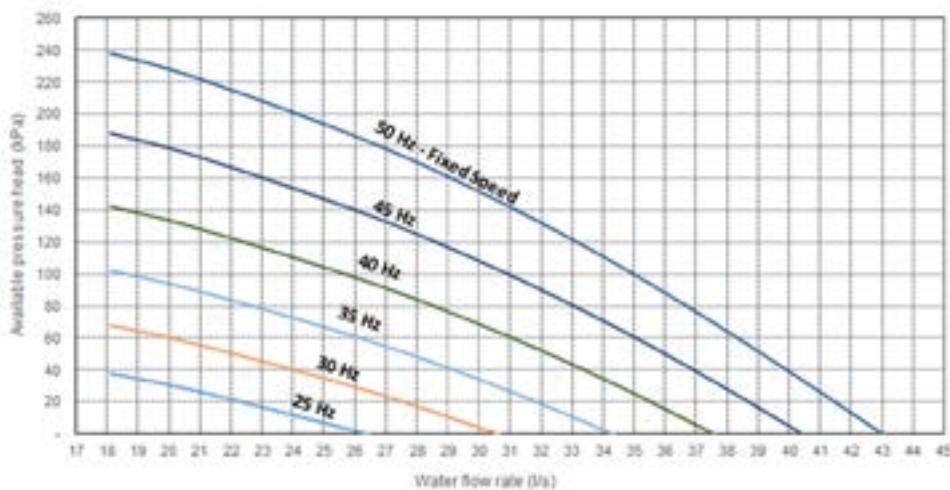
Available pressure head - SYSCREW AIR EVO HSE

Standard pressure pump (1/2PSP) (continued)

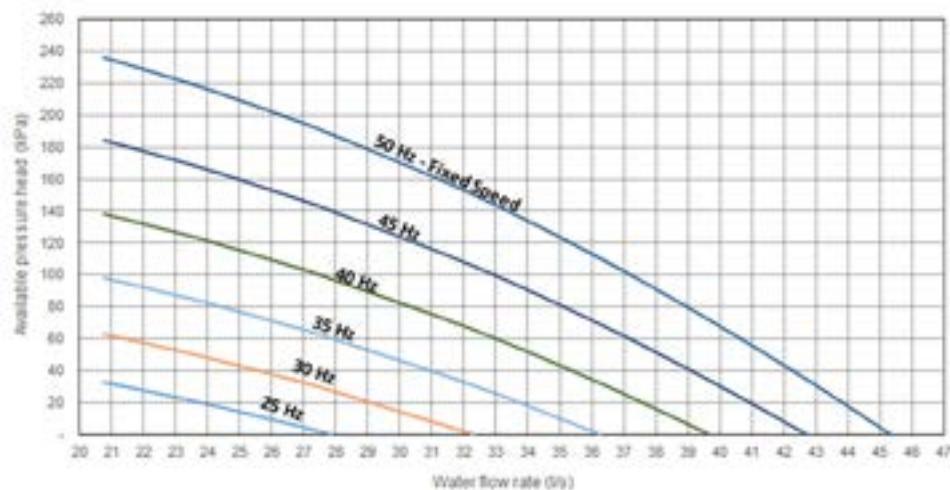
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SYSCREW 660 AIR EVO HSE

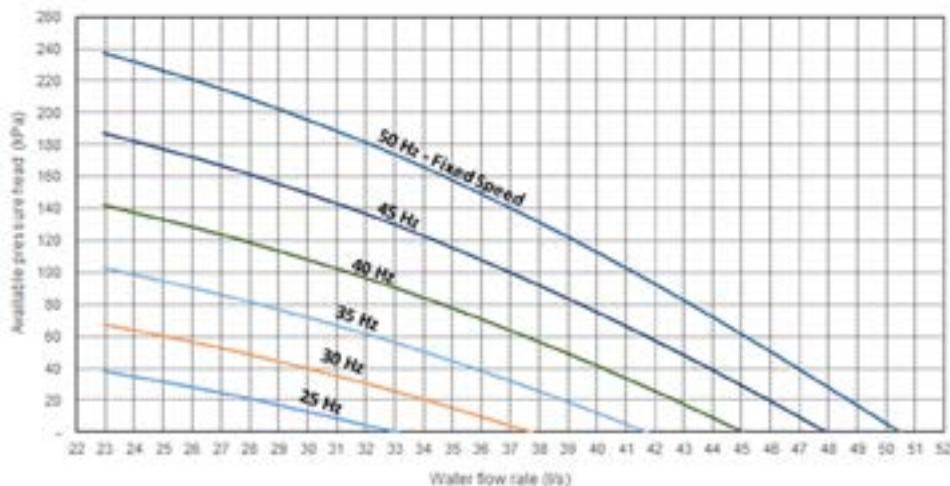


SYSCREW 730 AIR EVO HSE

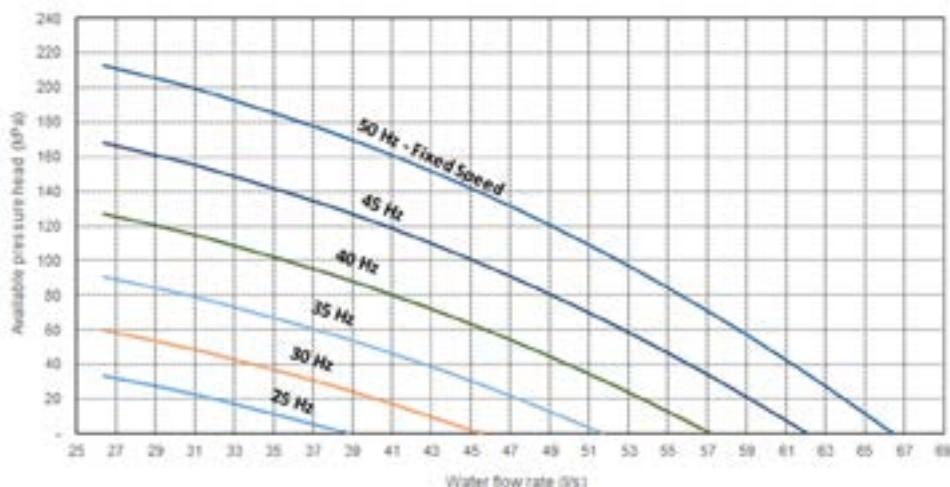


Available pressure head - SYSCREW AIR EVO HSE Standard pressure pump (1/2PSP) (continued)

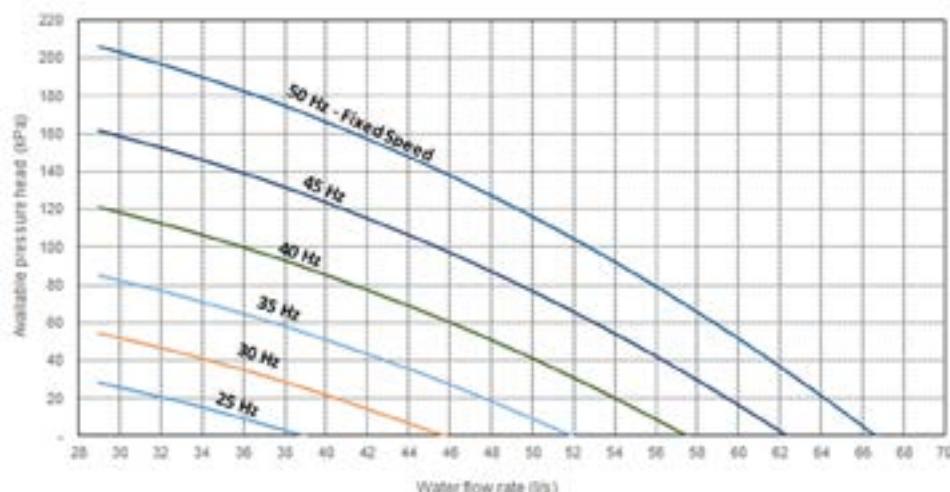
SYSCREW 810 AIR EVO HSE



SYSCREW 900 AIR EVO HSE



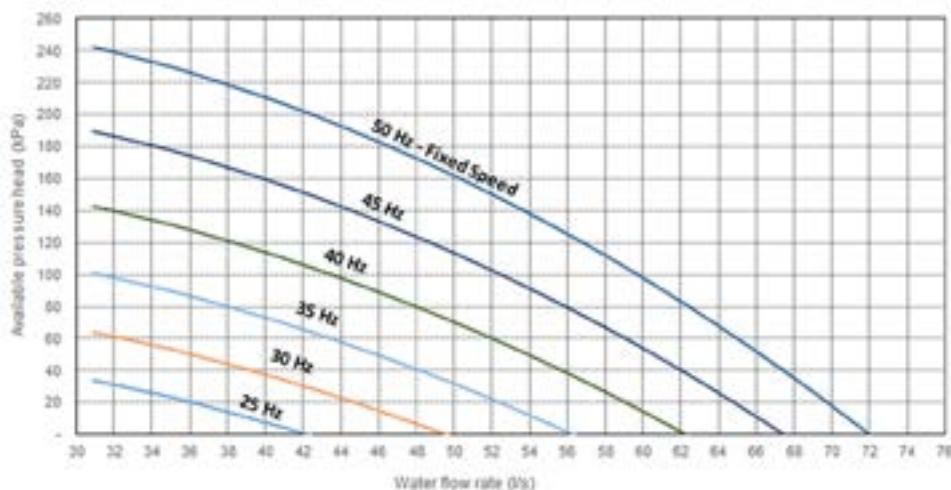
SYSCREW 980 AIR EVO HSE



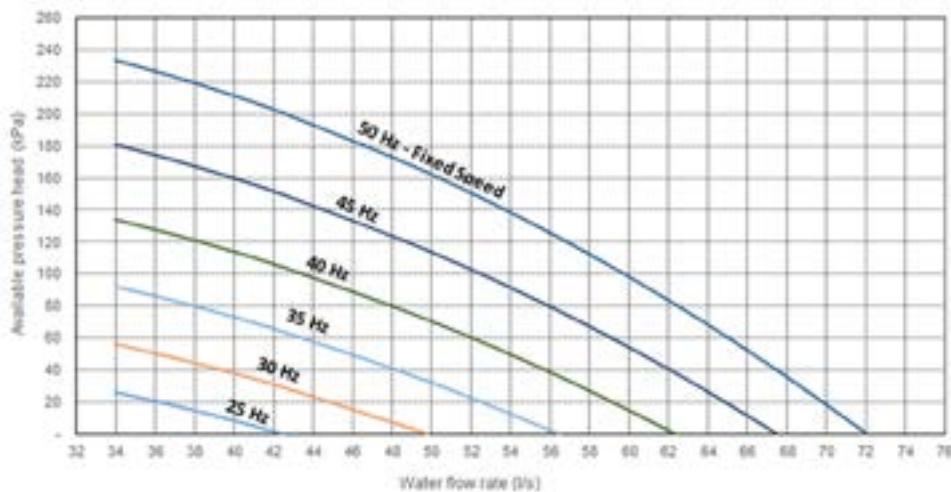
Available pressure head - SYSCREW AIR EVO HSE

Standard pressure pump (1/2PSP) (continued)

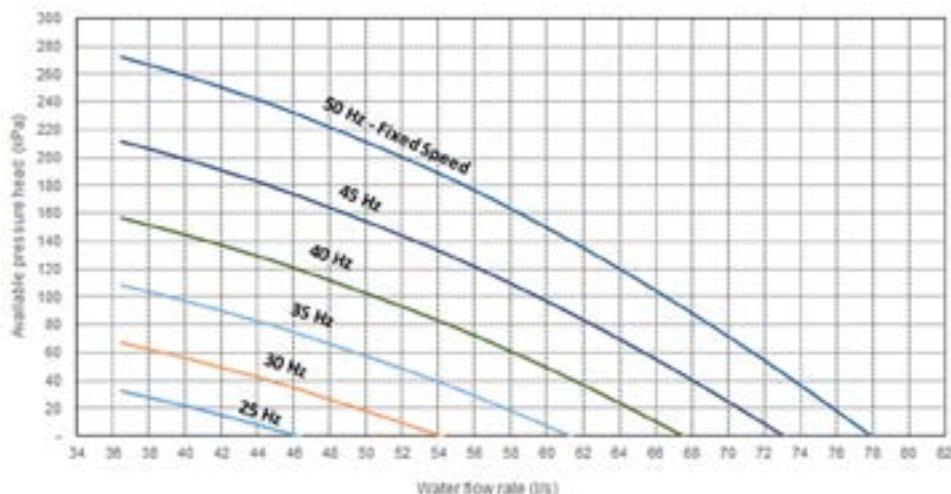
SYSCREW 1060 AIR EVO HSE



SYSCREW 1160 AIR EVO HSE

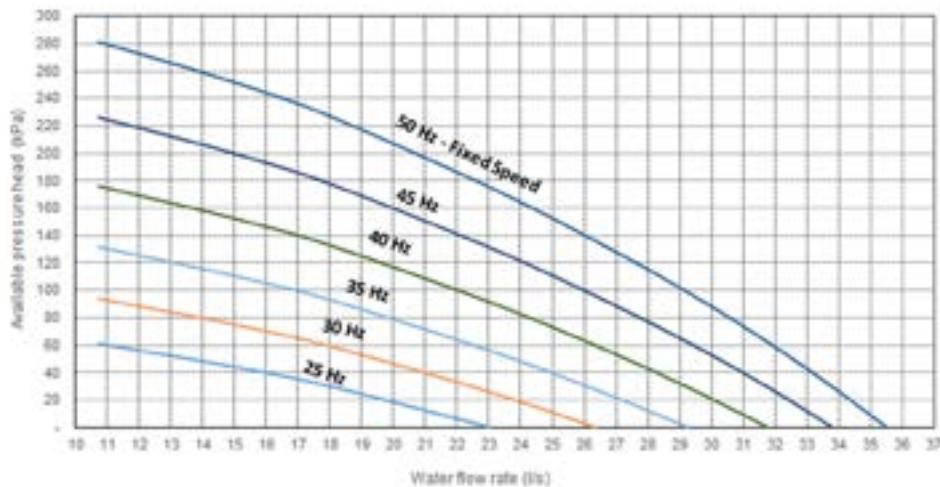


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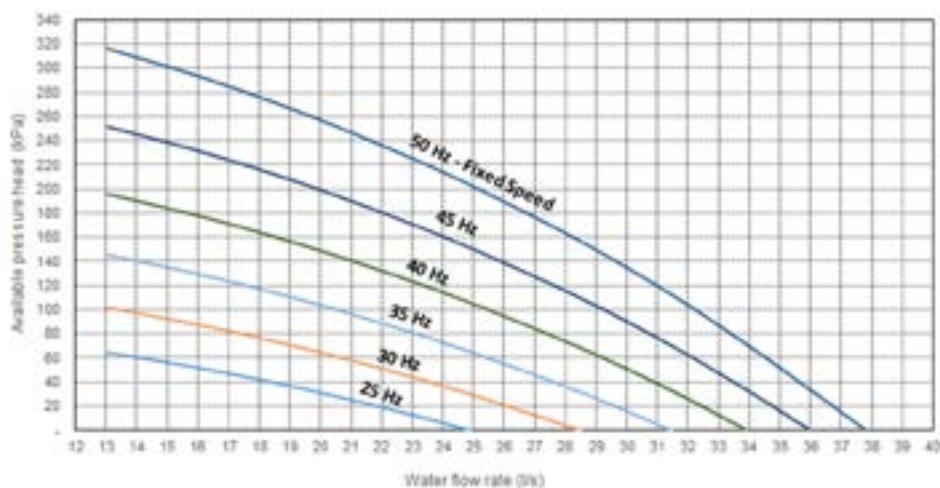


Available pressure head - SYSCREW AIR EVO HSE High pressure pump (1/2PHP)

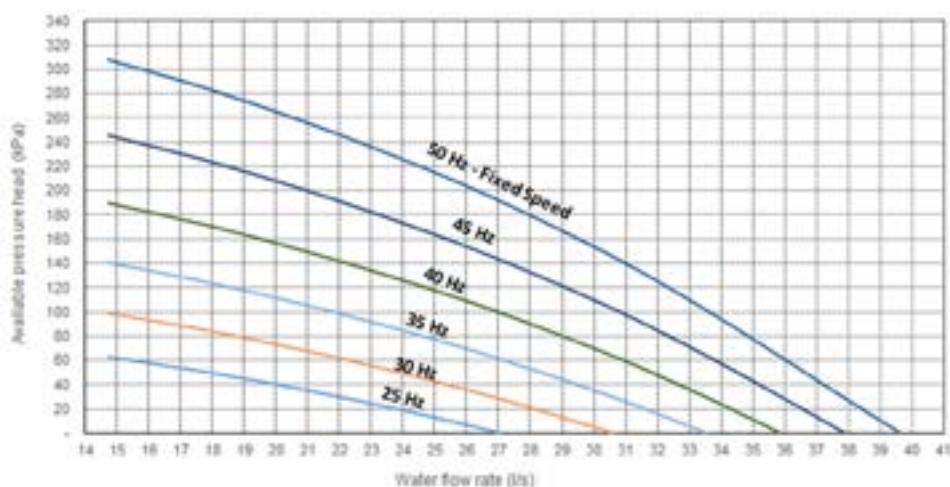
SYSCREW 380 AIR EVO HSE



SYSCREW 440 AIR EVO HS

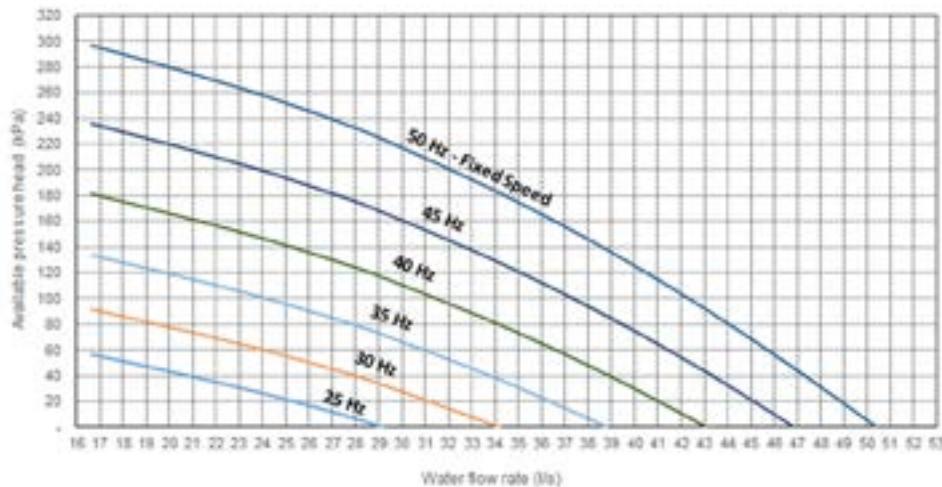


SYSCREW 510 AIR EVO HS

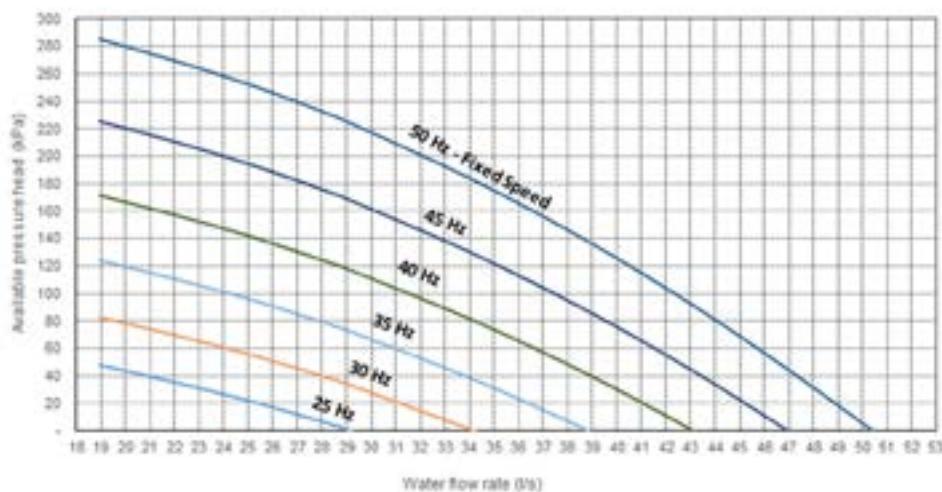


Available pressure head - SYSCREW AIR EVO HSE High pressure pump (1/2PHP) (continued)

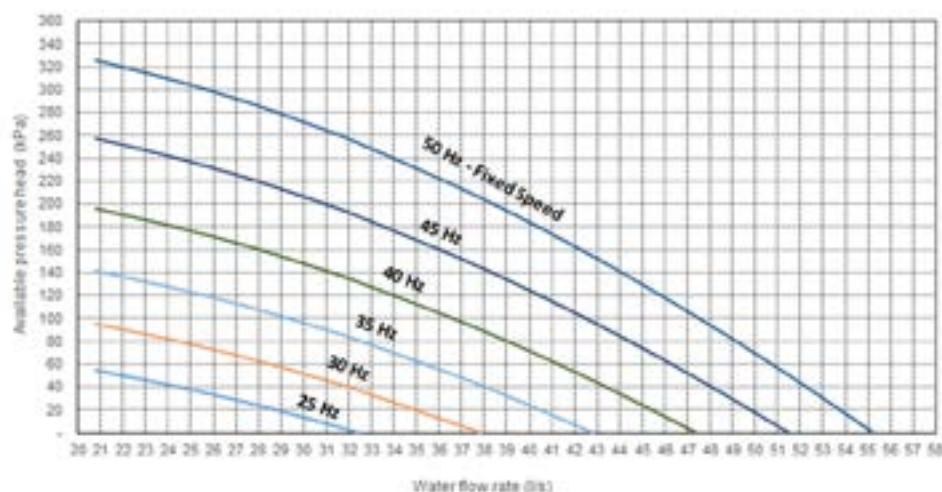
SYSCREW 590 AIR EVO HSE



SYSCREW 660 AIR EVO HSE

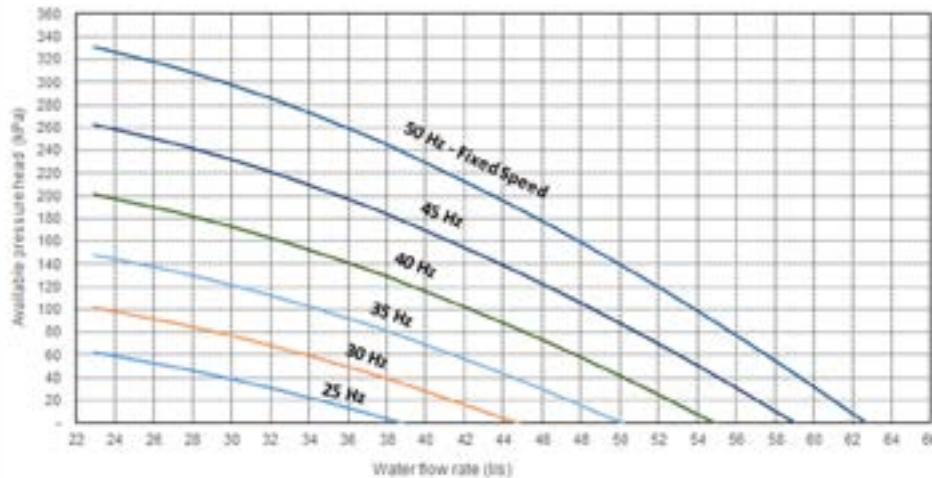


SYSCREW 730 AIR EVO HSE

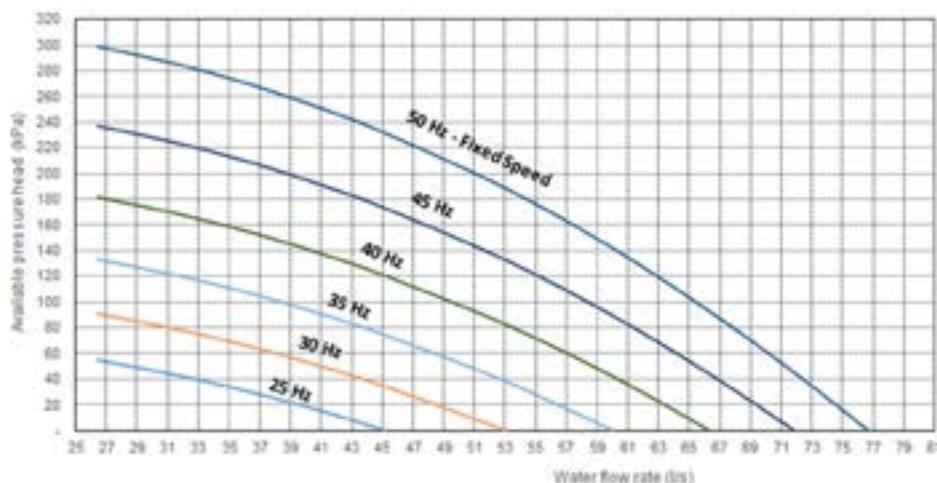


Available pressure head - SYSCREW AIR EVO HSE High pressure pump (1/2PHP) (continued)

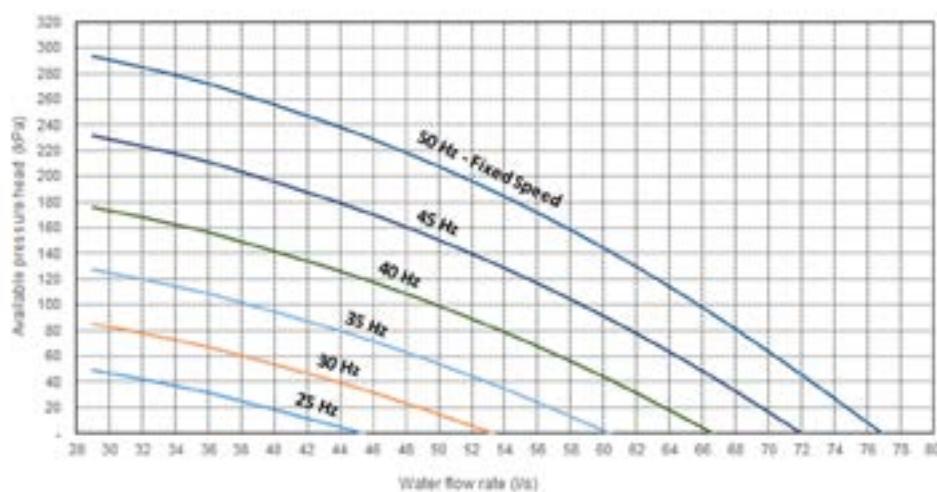
SYSCREW 810 AIR EVO HSE



SYSCREW 900 AIR EVO HSE

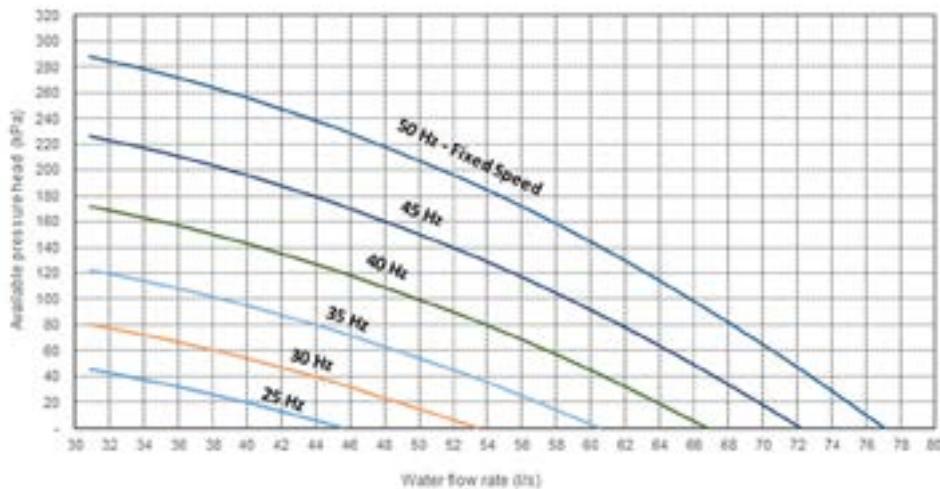


SYSCREW 980 AIR EVO HSE

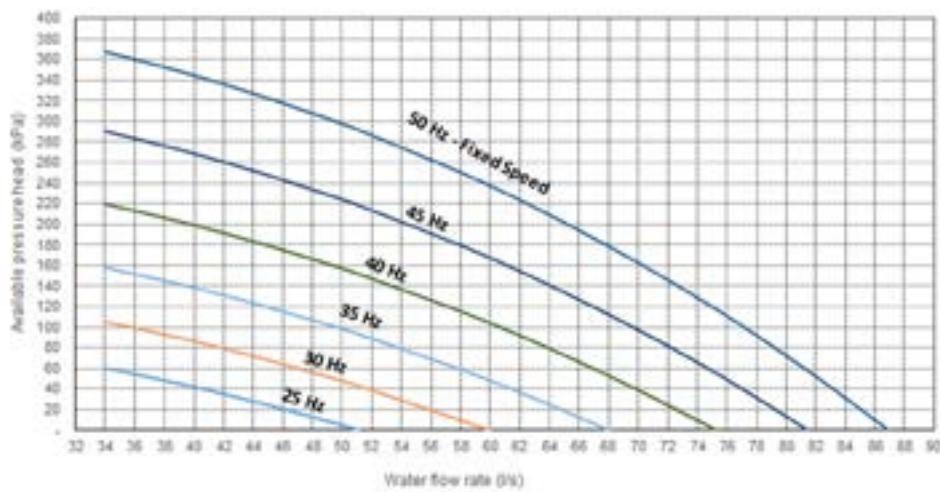


Available pressure head - SYSCREW AIR EVO HSE High pressure pump (1/2PHP) (continued)

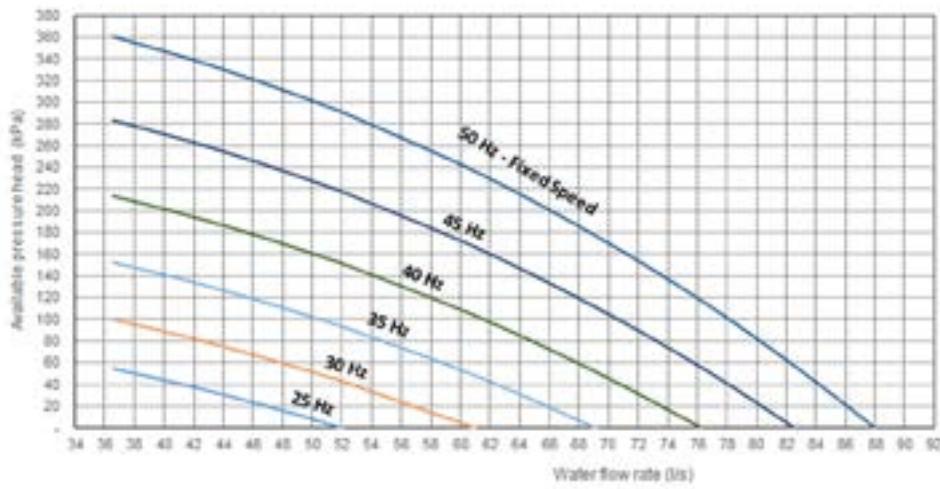
SYSCREW 1060 AIR EVO HSE



SYSCREW 1160 AIR EVO HSEE

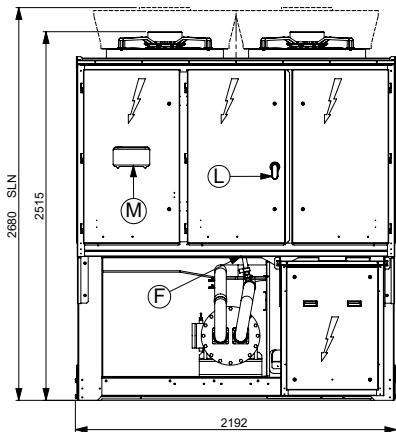


SYSCREW 1260 AIR EVO HSE

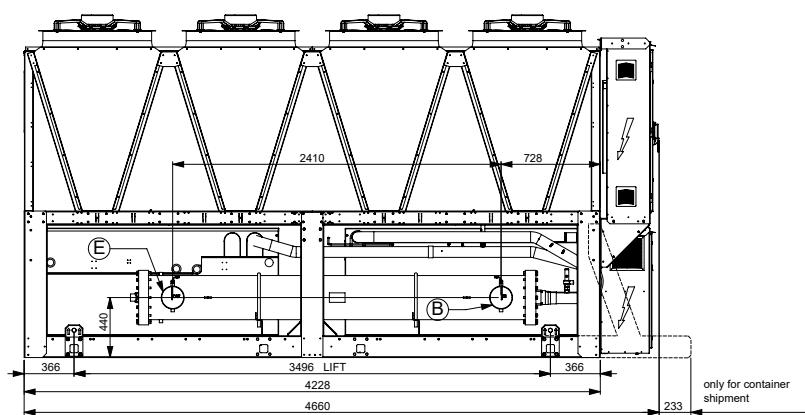


Dimensions SYSCREW 380 AIR EVO HSE

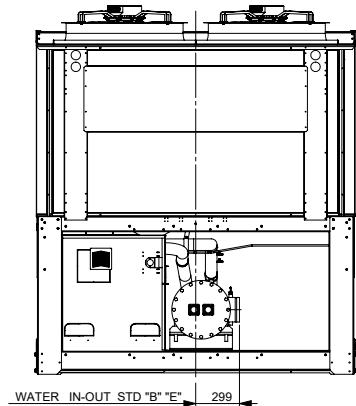
Front view



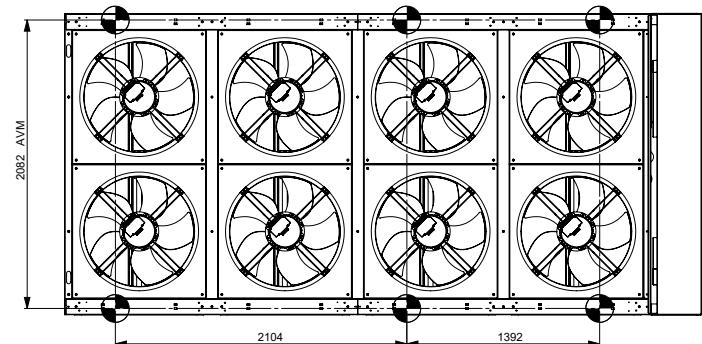
Side view



Back view



Top view



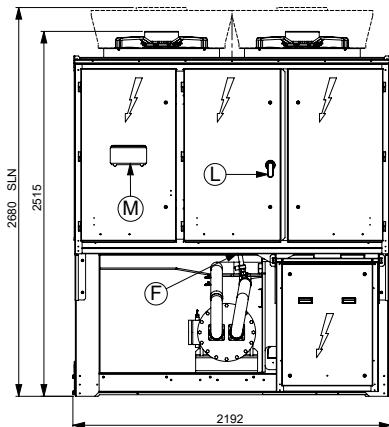
NOTES

- B Water inlet 6" Victaulic
- E Water outlet 6" Victaulic
- F Electrical power supply
- L Main switch
- M Control keypad / display

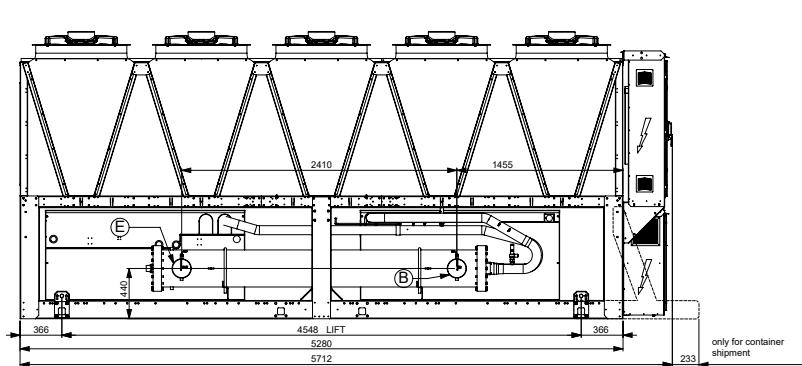
| Hydraulic option | Water in | Water out |
|------------------|----------|-----------|
| STD | B | E |

Dimensions SYSCREW 440 AIR EVO HSE

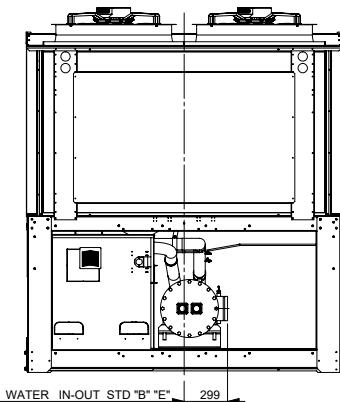
Front view



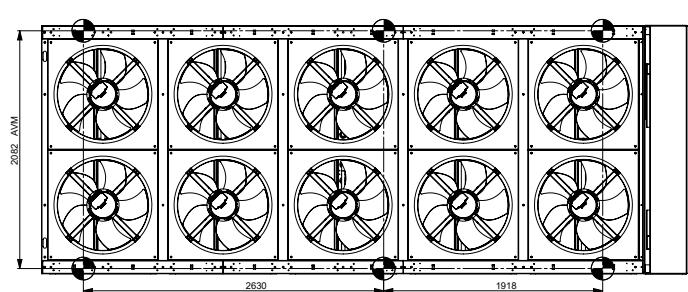
Side view



Back view



Top view



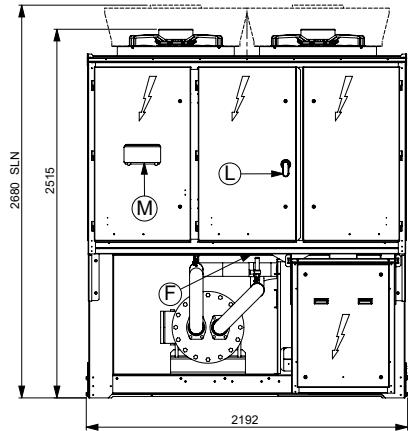
NOTES

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- F Electrical power supply
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- M Control keypad / display

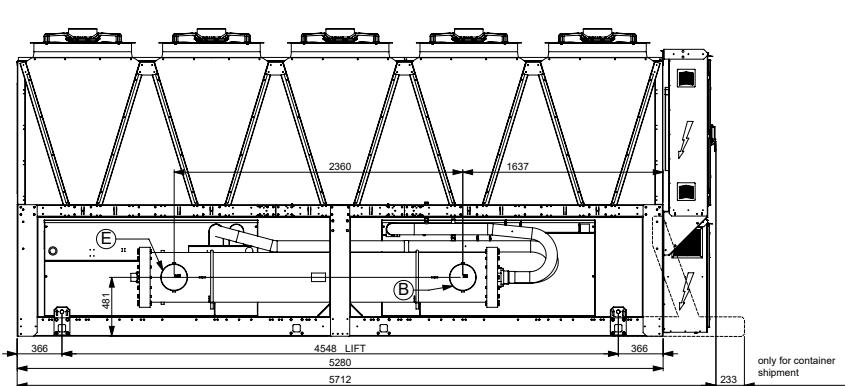
| Hydraulic option | Water in | Water out |
|------------------|----------|-----------|
| STD | B | E |

Dimensions SYSCREW 510 AIR EVO HSE

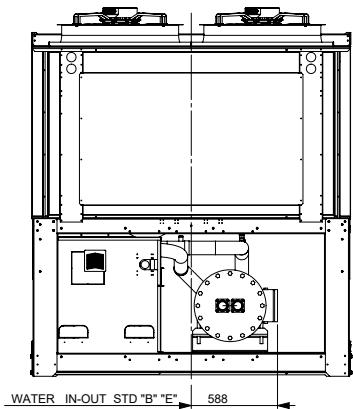
Front view



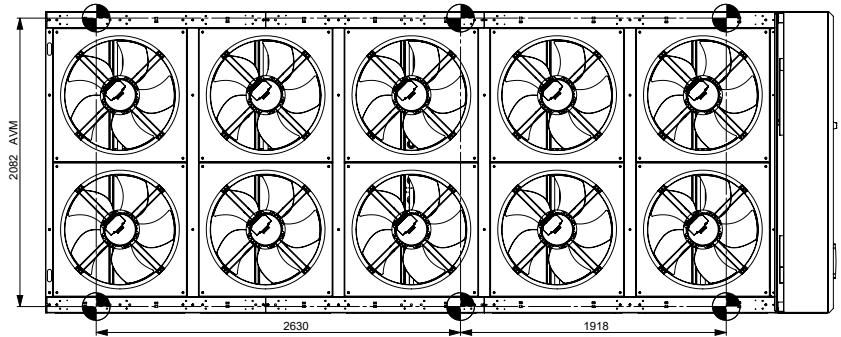
Side view



Back view



Top view



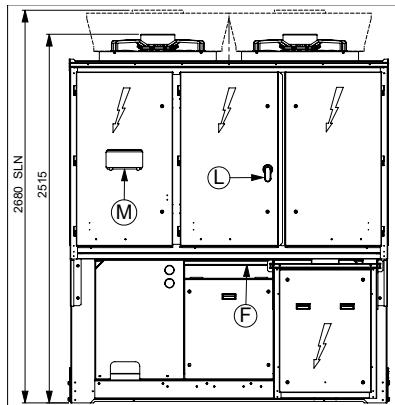
NOTES

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- E Water outlet 8" Victaulic
- F Electrical power supply
- L Main switch
- M Control keypad / display

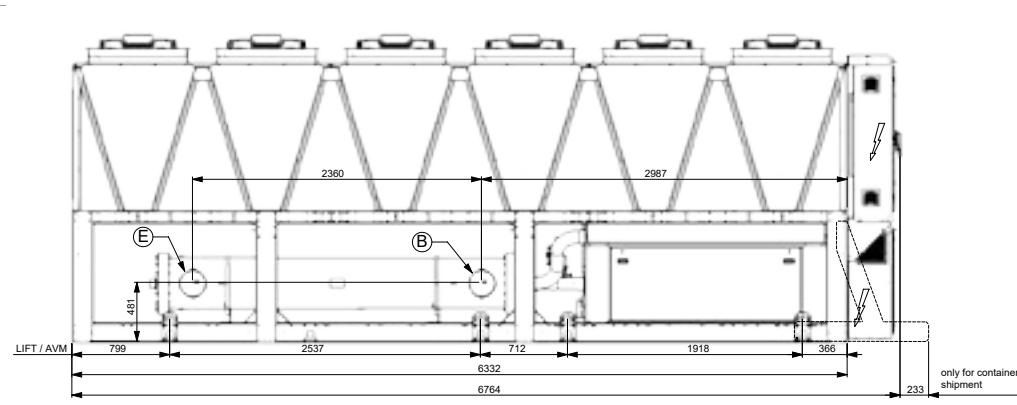
| Hydraulic option | Water in | Water out |
|------------------|----------|-----------|
| STD | B | E |

Dimensions SYSCREW 590 AIR EVO HSE

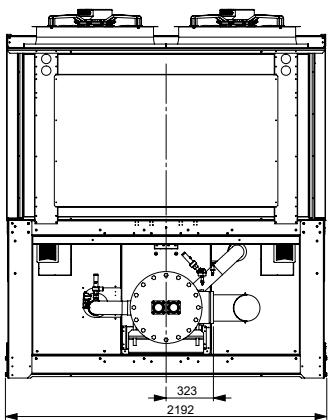
Front view



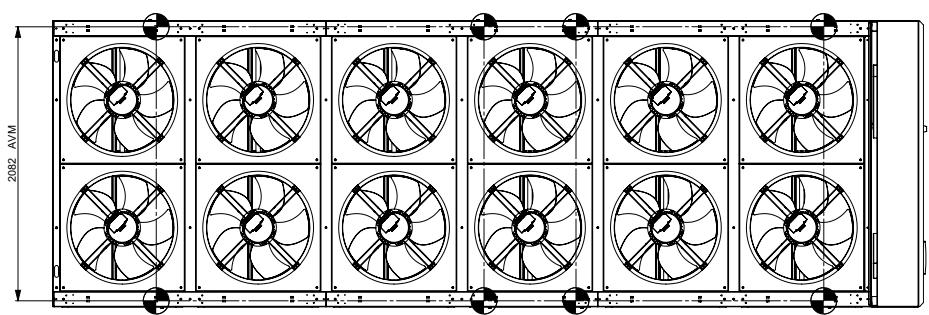
Side view



Back view



Top view



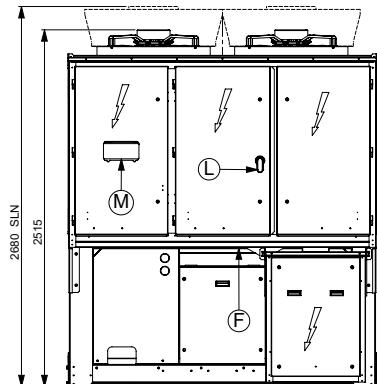
NOTES

- B Water inlet 8" Victaulic
- E Water outlet 8" Victaulic
- F Electrical power supply
- L Main switch
- M Control keypad / display

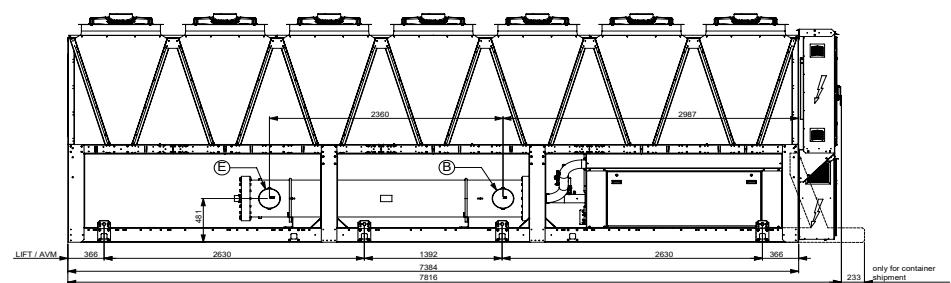
| Hydraulic option | Water in | Water out |
|------------------|----------|-----------|
| STD | B | E |

Dimensions SYSCREW 660 AIR EVO HSE

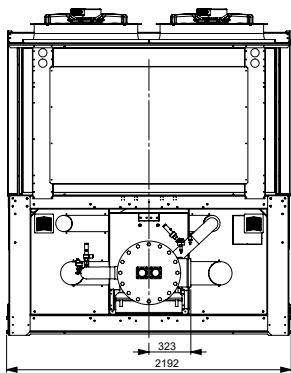
Front view



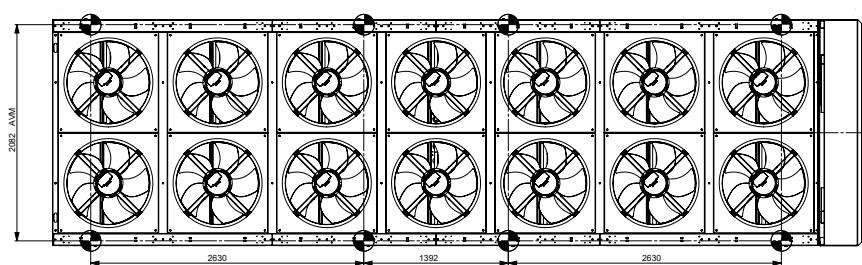
Side view



Back view



Top view



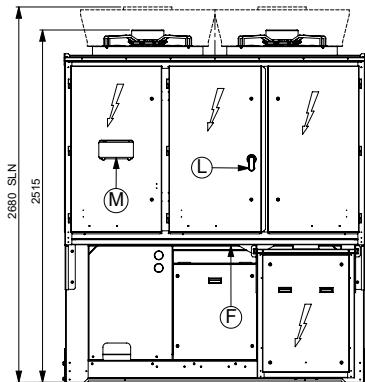
NOTES

- B Water inlet 8" Victaulic
- E Water outlet 8" Victaulic
- F Electrical power supply
- L Main switch
- M Control keypad / display

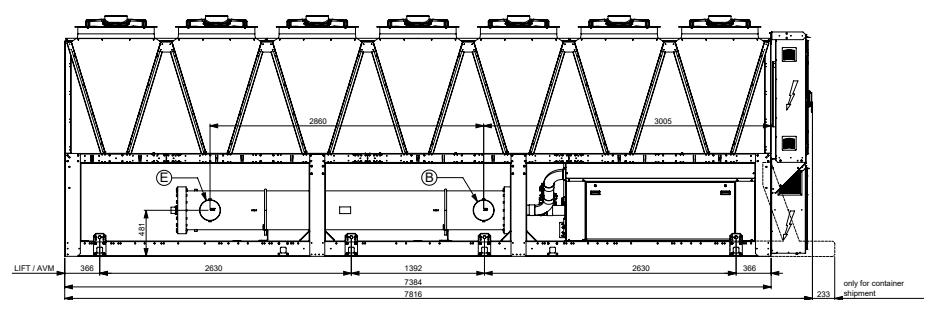
| Hydraulic option | Water in | Water out |
|------------------|----------|-----------|
| STD | B | E |

Dimensions SYSCREW 730 AIR EVO HSE

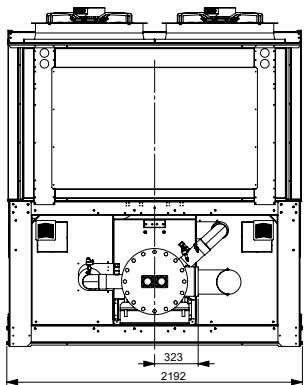
Front view



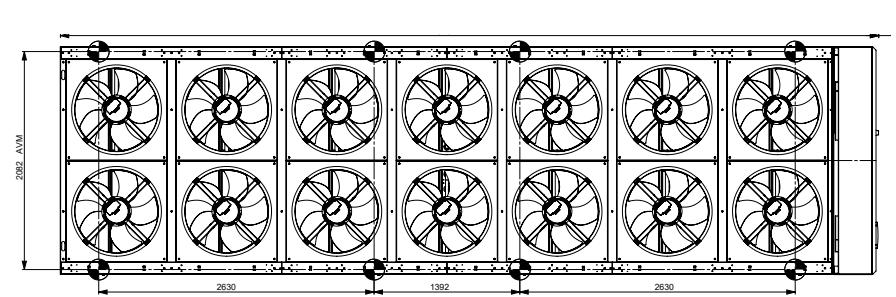
Side view



Back view



Top view

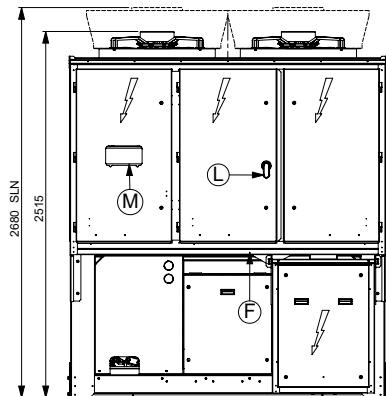

NOTES

- B Water inlet 8" Victaulic
- E Water outlet 8" Victaulic
- F Electrical power supply
- L Main switch
- M Control keypad / display

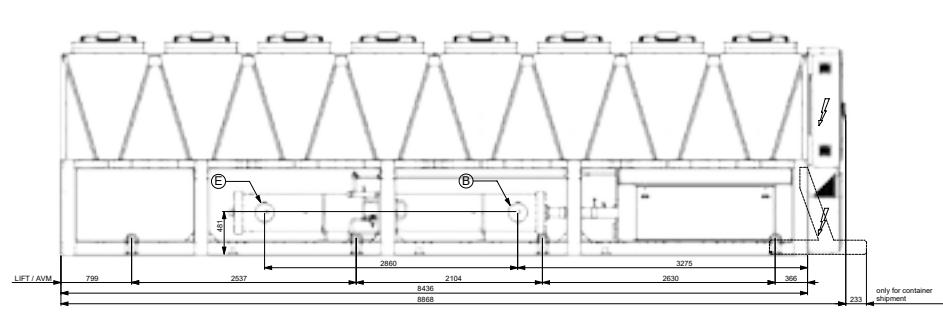
| Hydraulic option | Water in | Water out |
|------------------|----------|-----------|
| STD | B | E |

Dimensions SYSCREW 810 AIR EVO HSE

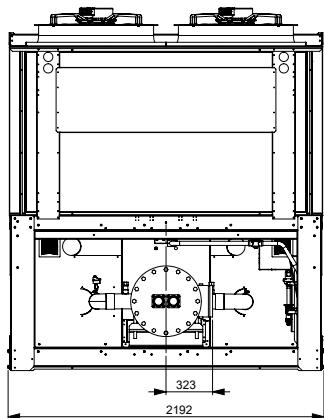
Front view



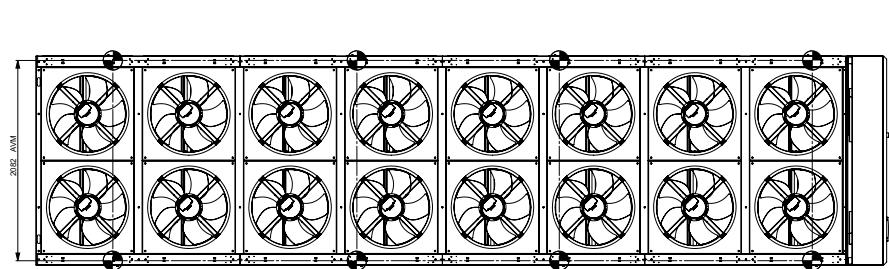
Side view



Back view



Top view



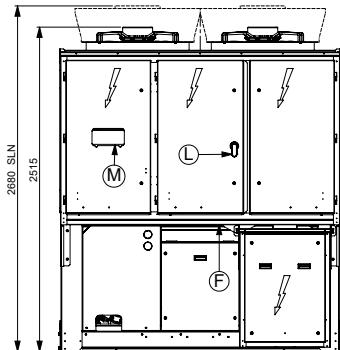
NOTES

- B Water inlet 8" Victaulic
- E Water outlet 8" Victaulic
- F Electrical power supply
- L Main switch
- M Control keypad / display

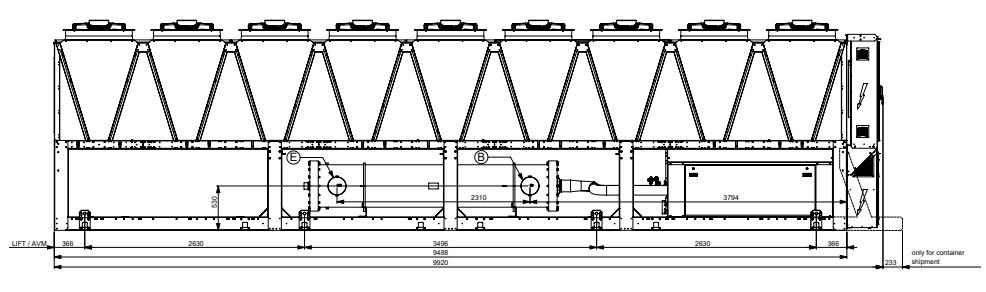
| Hydraulic option | Water in | Water out |
|------------------|----------|-----------|
| STD | B | E |

Dimensions SYSCREW 900 AIR EVO HSE

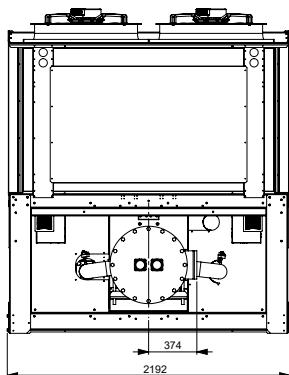
Front view



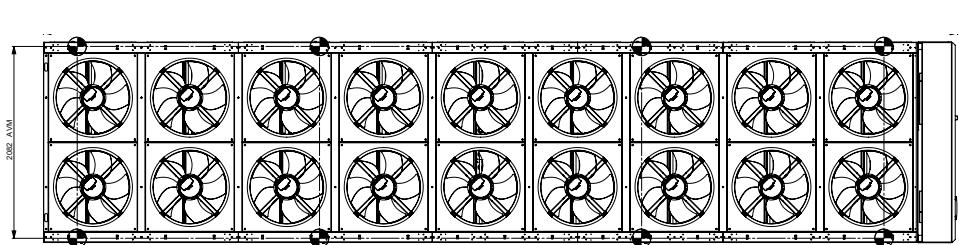
Side view



Back view



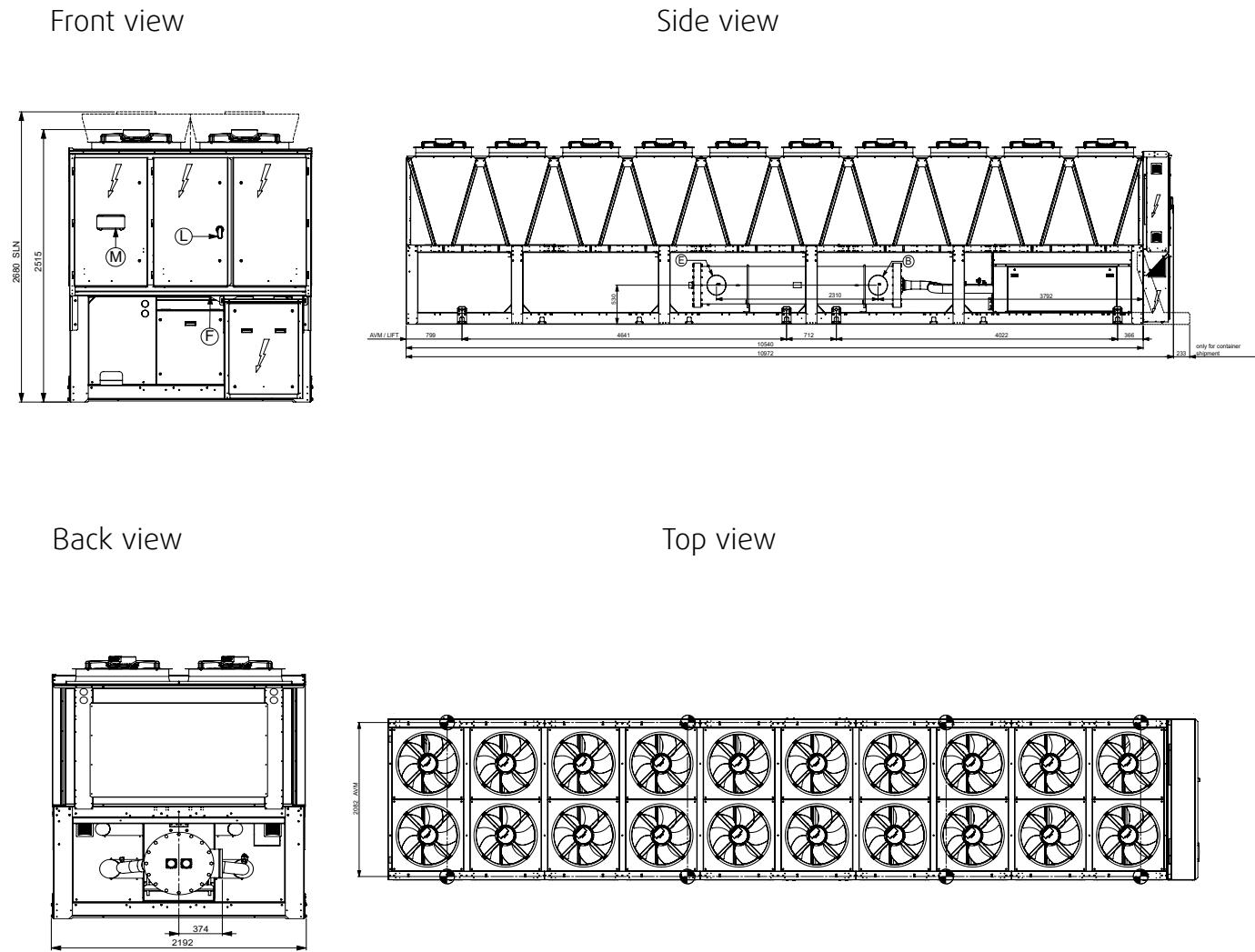
Top view


NOTES

- B Water inlet 8" Victaulic
- E Water outlet 8" Victaulic
- F Electrical power supply
- L Main switch
- M Control keypad / display

| Hydraulic option | Water in | Water out |
|------------------|----------|-----------|
| STD | B | E |

Dimensions SYSCREW 980 AIR EVO HSE



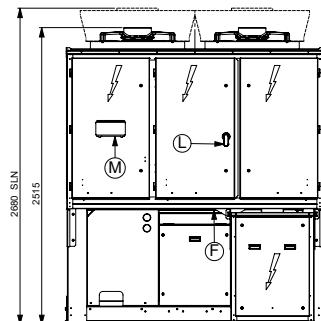
NOTES

- B Water inlet 10" Victaulic
- E Water outlet 10" Victaulic
- F Electrical power supply
- L Main switch
- M Control keypad / display

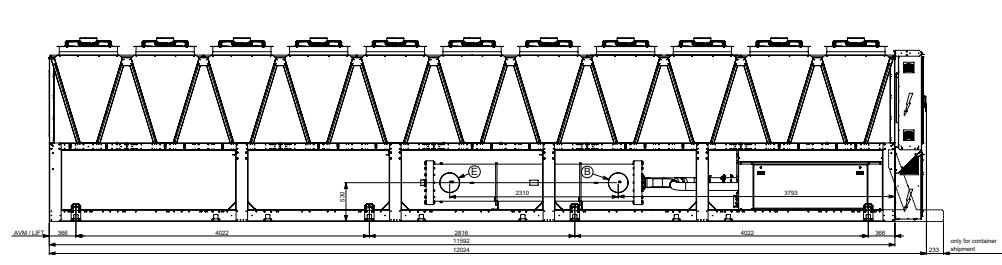
| Hydraulic option | Water in | Water out |
|------------------|----------|-----------|
| STD | B | E |

Dimensions SYSCREW 1060 AIR EVO HSE

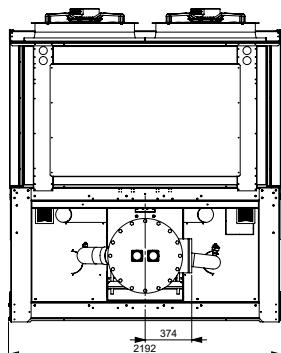
Front view



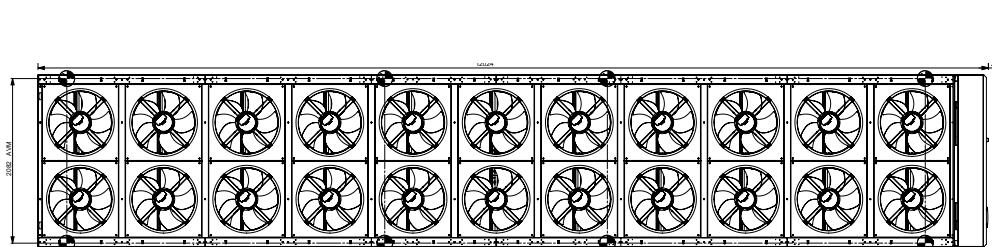
Side view



Back view



Top view

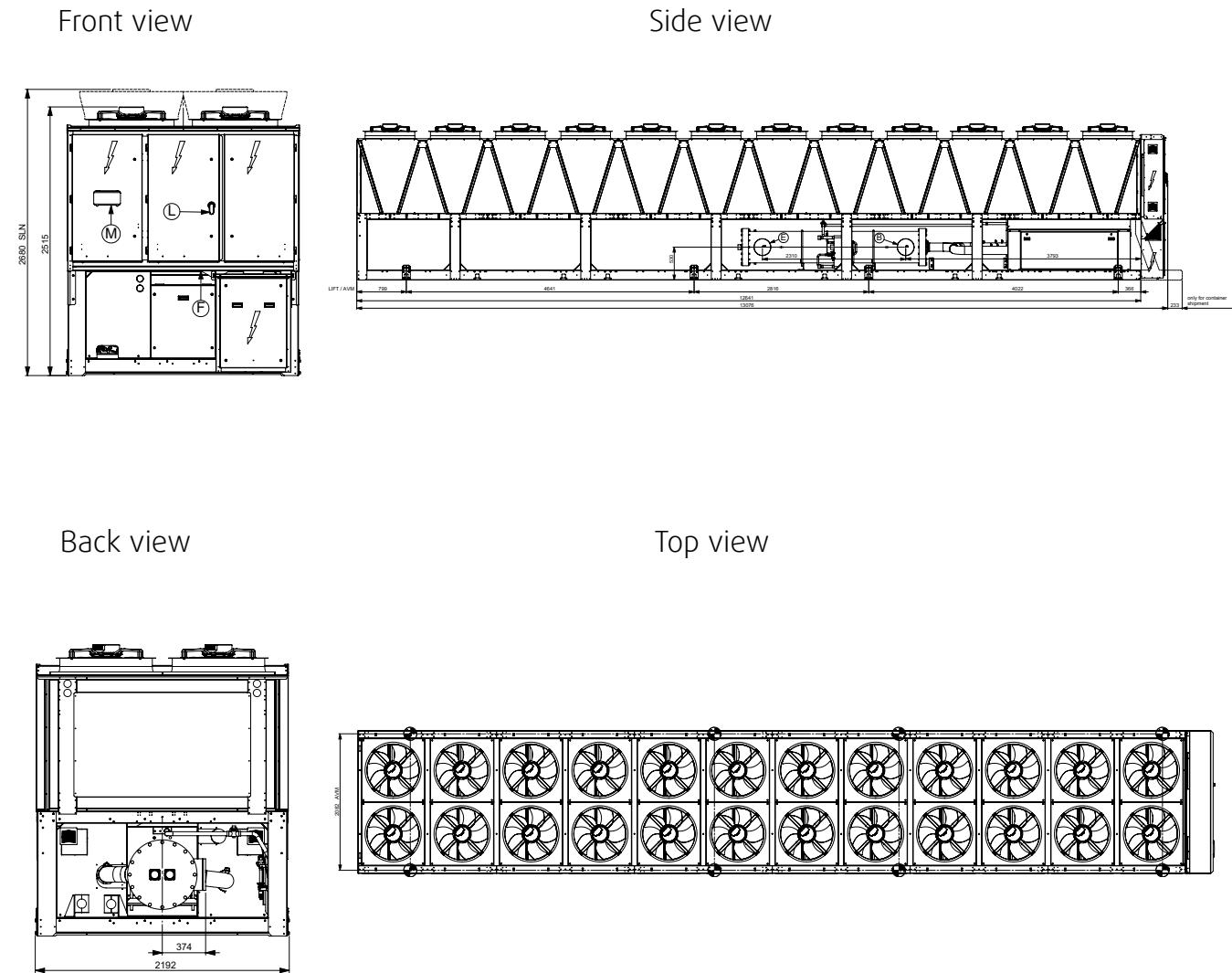


NOTES

- B Water inlet 10" Victaulic
- E Water outlet 10" Victaulic
- F Electrical power supply
- L Main switch
- M Control keypad / display

| Hydraulic option | Water in | Water out |
|------------------|----------|-----------|
| STD | B | E |

Dimensions SYSCREW 1160 AIR EVO HSE



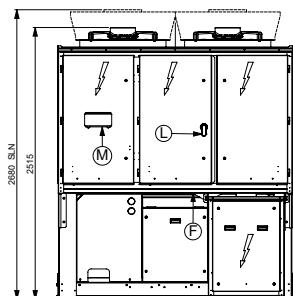
NOTES

- B Water inlet 10" Victaulic
- E Water outlet 10" Victaulic
- F Electrical power supply
- L Main switch
- M Control keypad / display

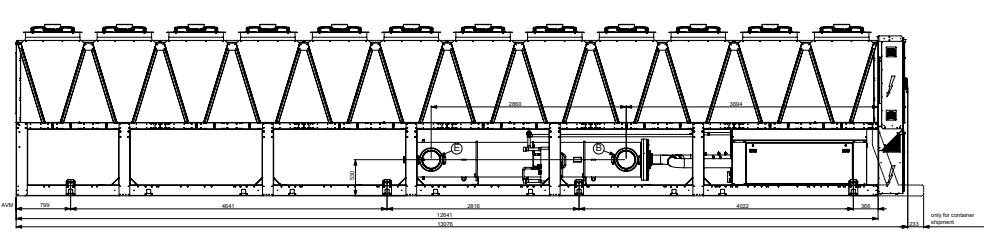
| Hydraulic option | Water in | Water out |
|------------------|----------|-----------|
| STD | B | E |

Dimensions SYSCREW 1260 AIR EVO HSE

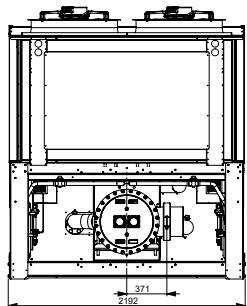
Front view



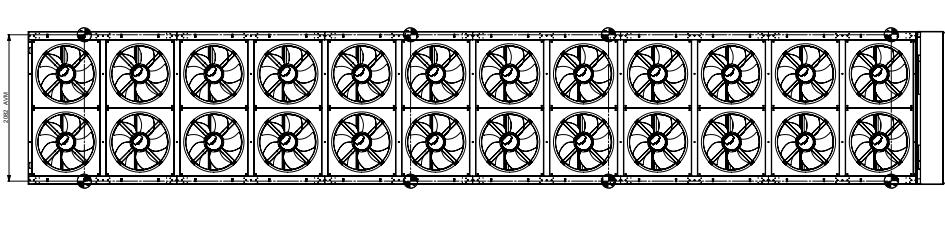
Side view



Back view



Top view

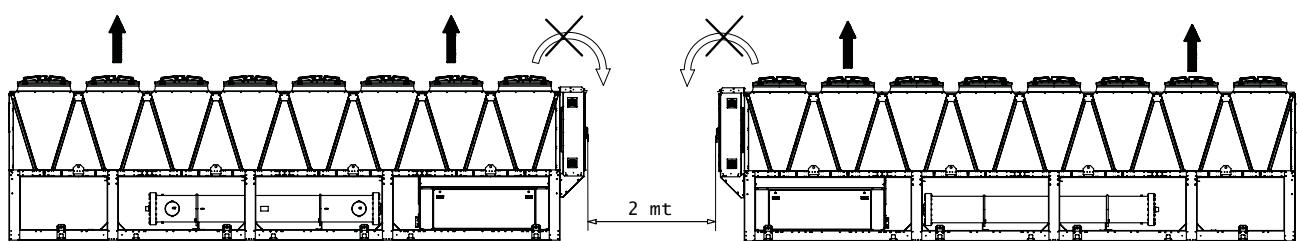
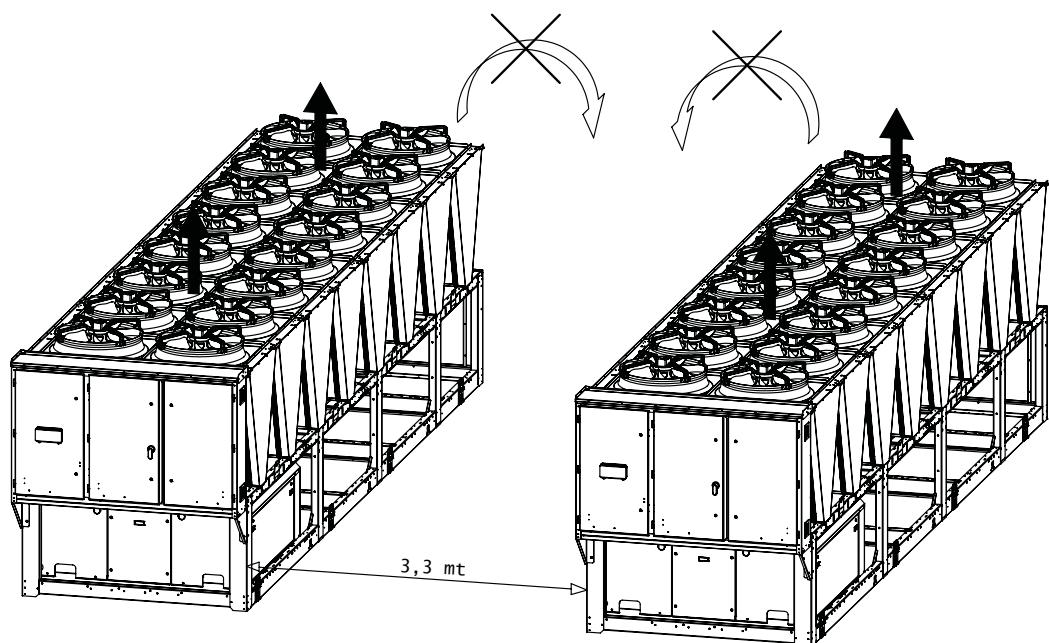
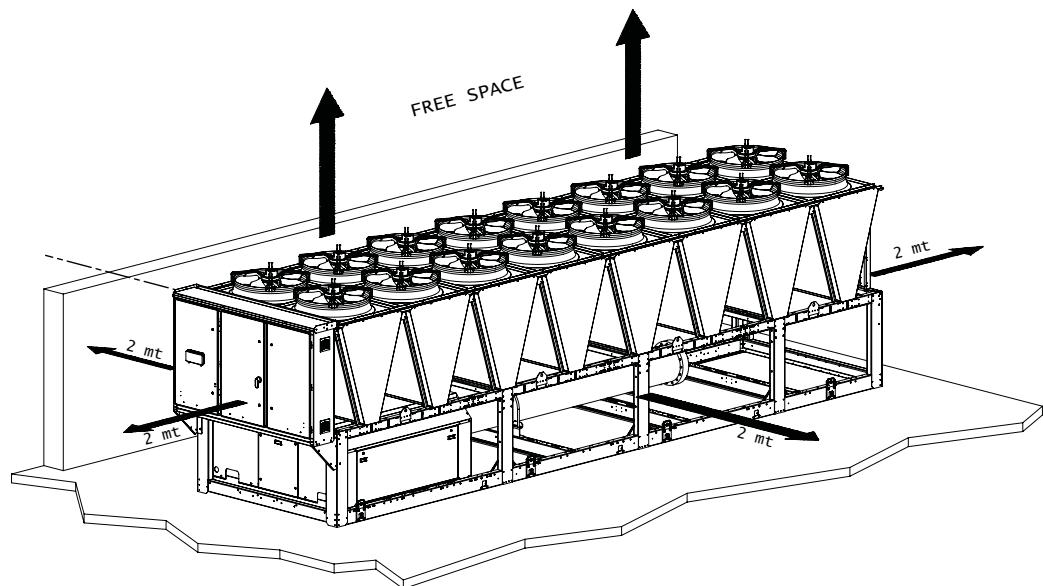


NOTES

- B Water inlet 10" Victaulic
- E Water outlet 10" Victaulic
- F Electrical power supply
- L Main switch
- M Control keypad / display

| Hydraulic option | Water in | Water out |
|------------------|----------|-----------|
| STD | B | E |

Space Requirements



Notes



www.systemair.com

Systemair srl
Via XXV Aprile, 29
20825 Barlassina (MB)
Italy

Tel. +39 0362 680 1
Fax +39 0362 680 693
info@systemair.it