

PRODUCT SELECTION DATA

AIR-COOLED FIXED-SPEED SCREW CHILLER

Very economical operation Low sound levels Simple installation Environmentally responsible Exceptional reliability

30XB 250-1700



Nominal cooling capacity 273-1682 kW - 50 Hz

The AquaForce[®] 30XB liquid chillers are the economic solution for commercial and industrial applications where high reliability and economic operation in all climate conditions are key customer requirements.

The AquaForce[®] 30XB liquid chillers are designed to meet current and future regulations for energy efficiency and operating sound levels. They use the latest Carrier technologies: Carrier 06T twin-rotor fixed-speed screw compressors.

Low noise 6th generation of Carrier Flying Bird[™] fans with AC motor.

Carrier flooded shell-and-tube evaporator with new copper tube design for low pressure drops

2nd generation of "V" shape Carrier NovationTM microchannel heat exchangers with optional Enviro-Shield coatings.

Carrier SmartVu[™] control with color touch screen user interface that includes 10 langages and integrated web-server.

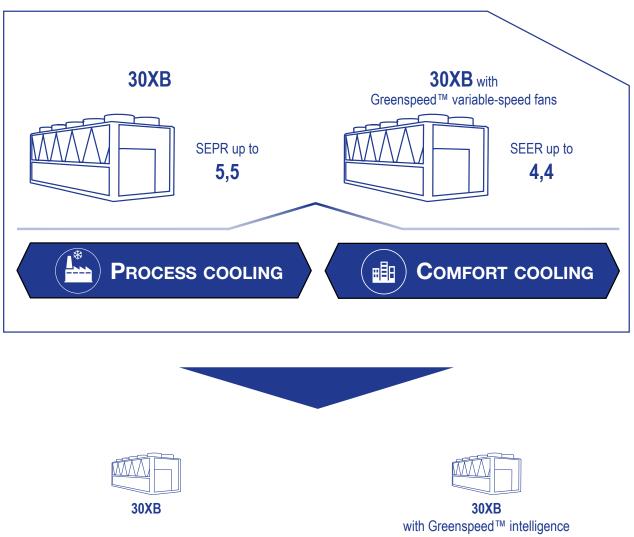




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AQUAFORCE®, THE RIGHT SOLUTION FOR EVERY APPLICATION

Carrier's AquaForce® 30XB range is available in two levels of efficiency to perfectly match each customer application.



The AquaForce[®] 30XB is equipped with fixed-speed screw compressor and fixed-speed fans with AC motor. The 30XB offers an economical solution whilst providing high full load energy efficiency level for process applications and 12/7°C operation in hot climates. (Application thermal load variation from 80% to 100%).

The AquaForce[®] 30XB with Greenspeed TM intelligence is equipped with variable-speed AC fan motors. It offers an economical solution to enhance seasonal energy efficiency levels for comfort applications. (Application thermal load variation from 0% to 100%).

30XB CUSTOMER BENEFITS

Absolute reliability

Carrier's AquaForce[®] 30XB is the evolution of the 30XA range that counts thousands of installations worldwide. The reliability of the AquaForce[®] system is the result of intensive research, field experience combined with the highest quality standards. The AquaForce[®] range is equipped with the Carrier 06T twin screw compressors, well-known for its robustness, 99,7% of units without a compressor failure*, and the fully aluminium Novation[®] microchannel heat exchangers with Super EnviroshieldTM coatings to deliver guaranteed long-term optimized performance.

Quality rate measured over a period of 15 years operation.

Extensive scope of application

Carrier's AquaForce[®] 30XB adapt effortlessly to a wide range of applications. Extended operating temperatures from -20°C to 55°C outdoor air temperatures and negative water temperatures make it ideal for various sectors of activity. From high-end office buildings and hotels to healthcare facilities, data centers and industrial projects, AquaForce[®] 30XB are the perfect solutions to combine competitive price associated with high energy efficiency whatever the climate and wherever the location.



Environmental responsibility

Carrier's AquaForce[®] 30XB is a boost for green cities and contributes to a sustainable future. Combining a reduced load refrigerant (-40% vs traditional cu/al coils) thanks to the use of Novation[®] microchannel heat exchangers and high energy efficiency it significantly lowers energy consumption while reducing carbon dioxide emissions throughout its life cycle.

The AquaForce[®] PUREtec[™] version, designed exclusively for ultra low GWP HFO R1234ze, is available.

Compact

Designed with one "V shape" Novation[®] microchannel heat exchanger less, Carrier's AquaForce[®] 30XB is 25% smaller than the previous 30XA generation. As an example, the 30XB-500 model is 1.2 meters shorter than the previous 30XA-502 model while offering same energy efficiency ratio. This 30XB model is having the same dimensions as the previous Carrier's 30GX while offering at least 15% energy efficiency improvement.

Low operating sound levels

The AquaForce[®] 30XB range offers 4 sound levels to meet the most demanding technical requirements in noise sensitive environments. 30XB is up to 6 dB(A) quieter than the AquaForce[®] 30XAV generation.

The range is equipped in standard with the 6th generation of Carrier Flying Bird fans. The new fan blade inspired by nature is the result of advanced research in our laboratory. The unit can be equipped in option with AC to guarantee smooth fan speed variation and thus eliminate start-stop noise during part load operation.

For further acoustic comfort, the units can be equipped with an acoustic compressor and oil separator enclosure reducing radiated noise (option 15), with low speed fans (option 15LS) and with sound attenuation material on the refrigerating circuit to guarantee ultra-low noise operation for highly noise sensitive environment (option 15LS+).

CUSTOMER BENEFITS

The range is available in 2 efficiency levels.

30XB standard unit

The AquaForce[®] 30XB is equipped with fixed-speed screw compressors and fixed-speed fans with AC motors. The 30XB offers an economical solution whilst providing high full load efficiency for process applications and operation in high ambients.

(Average SEPR of 5.2, average SEER of 4.2, average EER of 3.1)

- 30XB with variable-speed AC fan motors (Option 17)
 - The 30XB with variable-speed AC fan motors offers an economical solution to enhance seasonal energy efficiency levels for comfort applications. (Average SEPR of 5.5, average SEER of 4.3, average EER of 3.1)

Very economical operation

Exceptionally high full load and part load energy efficiency:

- 30XB version : SEER 12/7°C up to 4.4 with option 17 in accordance with EN14825.
- Twin-rotor screw compressor equipped with a highefficiency motor and a variable capacity valve that permits exact matching of the cooling capacity to the load.
- Novation[™] aluminium condenser with high-efficiency micro-channels.
- Flooded shell-and-tube evaporator with new generation of cooler tubes to reduce exchanger pressure drops, especially in applications with high percentage of glycol.
- Electronic expansion device permitting operation at a lower condensing pressure and improved utilisation of the evaporator heat exchange surface (superheat control).
- Economiser system with electronic expansion device for increased cooling capacity.

Low operating sound levels

- Compressors
 - Discharge dampers integrated in the oil separator (Carrier patent).
 - Silencer on the economiser return line.
 - Compressor and oil separator acoustic enclosure, reducing radiated noise (option).
- Condenser section
 - Condenser coils in wide angle V configuration, allowing quieter air flow across the coil
 - Low-noise 6th generation Flying Bird fans, made of a composidte material (Carrier patent), are now even quieter and do not generate intrusive low-frequency noise
 - Rigid fan mounting preventing start-up noise (Carrier patent).

CUSTOMER BENEFITS

Simple installation

- Integrated hydraulic module (option)
 - Centrifugal low or high-pressure water pump (as required), based on the pressure loss of the hydraulic installation
 - Single or dual pump (as required) with run time balancing and automatic changeover to the back-up pump if a fault develops
 - Water filter to protect pump against circulating debris
 - High-capacity membrane expansion tank ensures pressurisation of the water circuit (option)
 - Thermal insulation and aluminium cladding (option)
 - Pressure sensor to check filter condition and for direct numerical display of the water flow rate with an estimate of the instantaneous cooling capacity at the control interface
- Simplified electrical connections
 - Main disconnect switch with high trip capacityTransformer to supply the integrated control circuit
 - (400/24 V).
- Fast commissioning
 - Systematic factory operation test before shipment
 Quick-test function for step-by-step verification of the
 - controls, expansion devices, fans and compressors.

Environmental responsibility

- R-134a refrigerant
 - Range designed for use with R-134a refrigerant with the possibility to upgrade to ultra-low global warming potential R-1234ze by using the dedicated field retrofit kit.
 - 40% reduction in the refrigerant charge through the use of micro-channel heat exchangers
- Leak-tight refrigerant circuit
 - Reduction of leaks as no capillary tubes and flare connections are used
 - Verification of pressure transducers and temperature sensors without transferring refrigerant charge
 - Liquid line service valve for simplified maintenance (option).

Exceptional reliability

- Screw compressors
 - Industrial-type screw compressors with oversized bearings and motor cooled by suction gas.
 - All compressor components are easily accessible on site minimising down-time.
 - Dedicated electronic compressor protection module.
- Air condenser
 - 2nd generation of "V" shape Carrier Novation[™] aluminium microchannel heat exchangers (MCHE) with high corrosion resistance. The all aluminium design eliminates the formation of galvanic currents between aluminium and copper that cause coil corrosion in saline or corrosive environments.
- Evaporator

Thermal insulation with aluminium sheet finish (option) for improved resistance to mechanical and UV damage.

- Auto-adaptive control
 - Control algorithm prevents excessive compressor cycling (Carrier patent)
 - Automatic compressor unloading in case of abnormally high condensing pressure. If condenser coil fouling or fan failure occurs, the AquaForce[®] continues to operate, but at reduced capacity
- Exceptional endurance tests
 - Partnerships with specialised laboratories and use of sophisticated finite element stress analysis for the design of critical components.
 - Transport simulation test in the laboratory on a vibrating table. The test is based on a military standard and equivalent to 4000 km by truck.
 - Salt mist corrosion resistance test in the laboratory for increased corrosion resistance.

30XB TECHNICAL INSIGHTS



6TH GENERATION OF FLYING BIRD™ FANS WITH AC

- Exclusive Carrier design
- Fan blade design inspired by nature
- 30XB standard version with fixed-speed
- fans and AC motor
- Variable-speed fans available as an option on 30XB standard version



2ND GENERATION OF "V" SHAPE NOVATION® MICRO CHANNEL HEAT EXCHANGERS

- Exclusive Carrier design
- High reliability with long-life aluminum alloy
- Significantly reduces refrigerant load (-40% vs cu/al coils)
- Enviro-shield[™] coating for mildly corrosive environments
- Super Enviro-shield[™] coating for highly corrosive environments (industry or marine applications)

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FIXED-SPEED SINGLE OR DUAL PUMPS WITH AC MOTOR (OPTION)

- Low static pressure (~100 kPa) or high static pressure (~180 kPa) available
- Available on all sizes up to 500 kW



CARRIER FIXED-SPEED 06T TWIN SCREW COMPRESSOR WITH AC MOTOR

- Exclusive Carrier design
- Twin screw compressor designed for fixed-speed operation
- Sliding valve control (30%-100%)
- Bearing life exceeding 100.000 hours
- 99,7% of units without compressor default

FLOODED SHELL AND TUBE EVAPORATOR

- Exclusive Carrier design
- Flooded technology for high energy efficiency
- New generation of copper tubes with specific profile to reduce pressure drops when operating with glycol

ADVANCED SMARTVU[™] WITH 5 INCH COLOR TOUCH SCREEN INTERFACE

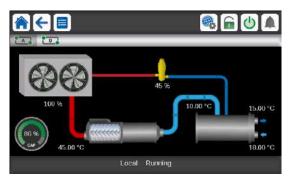
- Exclusive Carrier design
- 10 languages available: DE, EN, ES, FR, IT, NL, PT, TR, TU + one additional customer choice
- Touch screen user interface
- BACnet, J-Bus or LON communication interfaces
- Optional wireless connectivityWeb server capabilities-easy
- remote access via internet ■ Trending capabilities



TECHNICAL INSIGHTS

SmartVu[™] Control

SmartVu[™], user interface



- New innovative smart control features:
 - An intuitive and user-friendly, coloured, 5" interface (7» optional)
 - Direct access to the unit's technical drawings and the main service documents
 - Screen-shots with concise and clear information in local languages
 - Complete menu, customised for different users (end user, service personnel and Carrier-factory technicians)
 - Easy access to the control panel with inclined touch screen mounting to ensure legibility under any lighting conditions
 - Safe operation and unit setting: password protection ensures that unauthorised people cannot modify any advanced parameters
 - Simple and «smart» intelligence uses data collection from the constant monitoring of all machine parameters to optimise unit operation.
- Energy management:
 - Internal time schedule clock controls chiller on/off times and operation at a second set-point
 - The DCT (Data Collection Tool) records the alarms history to simplify and facilitate service operations.

Remote Management (Standard)

- Units with SmartVuTM control can be easily accessed from the internet, using a PC with an Ethernet connection. This makes remote control quick and easy and offers significant advantages for service operations.
- AquaForce[®] is equipped with an RS485 serial port that offers multiple remote control, monitoring and diagnostic possibilities. When networked with other Carrier equipment through the CCN (Carrier Comfort Network - proprietary protocol), , and in conjunction with one of Carrier's network products (Chiller System Manager or Plant system Manager) it forms part of a fully integrated and balanced HVAC system (optional).
- AquaForce[®] also communicates with other building management systems via optional communication gateways.

- The following commands/visualisations are possible from remote connection:
 - Start/stop of the machine
 - Dual set-point management: through a dedicated contact is possible to activate a second set-point (for example, during unoccupied mode).
 - Demand limit setting: to limit the maximum chiller capacity to a predefined value
 - Water pump control: these outputs control the contactors of one/two evaporator water pums
 - Automatic changeover of pumps in the event of a fault (only with options 116S/116U).
 - Operation visualisation: indication if the unit is operating or in stand-by (no cooling load), (no cooling load) alarm visualisation.

Remote Management (EMM option)

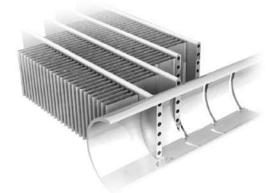
- The Energy Management Module (EMM) offers extended remote control possibilities:
 - Room temperature: Permits set-point reset based on the building indoor air temperature (if Carrier thermostat are installed)
 - Set-point reset: Allows reset of the cooling set-point based on a 4-20 mA
 - Demand limit: Permits limitation of the maximum chiller capacity
 - Demand limit 1 and 2: Closing of these contacts limits the maximum chiller capacity to two predefined values
 - User safety: This contact can be used for any customer safety loop; opening the contact generates a specific alarm
 - Ice storage end: When ice storage has finished, this input permits return to the second set-point (unoccupied mode)
 - Time schedule override: closing this contact cancels the programmed time schedule.
 - Out of service: This signal indicates that the chiller is completely out of service
 - Chiller capacity: This analogue output (0-10 V) gives an immediate indication of the chiller capacity
 - Alert indication: This volt-free contact indicates the necessity to carry out a maintenance operation or the presence of a minor fault
 - Compressors running status: Set of outputs (one for each compressor) indicating which compressors are running.

TECHNICAL INSIGHTS

06T Screw Compressor



Novation[®] Heat Exchangers with Micro-Channel coil Technology



99.7%* of units without a compressor failure

* Quality rate measured over a period of 15 years operation

The Carrier 06T screw compressor benefits from Carrier's long experience in the development of twin-rotor screw compressors. The compressor is equipped with bearings with oversized rollers, oil pressure lubricated for reliable and durable operation, even at maximum load.

A variable control valve controlled by the oil pressure permits infinitely variable cooling capacity. This system allows optimal adjustment of the compressor cooling capacity and ensures exceptionally high stability of the chilled water leaving temperature.

Among the other advantages: if a fault occurs e.g. if the condenser is fouled or at very high outside temperature, the compressor does not switch off, but continues operation with a reduced capacity (unloaded mode).

The compressor is equipped with a separate oil separator that minimises the amount of oil in circulation in the refrigerant circuit and, with its integrated silencer, considerably reduces discharge gas pulsations for much quieter operation. Already utilised in the automobile and aeronautical industries for many years, the NovationTM MCHE micro-channel heat exchanger used in the AquaForce[®] is entirely made of aluminium. This one-piece concept significantly increases its corrosion resistance by eliminating the galvanic currents that are created when two different metals (copper and aluminium) come into contact in traditional heat exchangers. Unlike traditional heat exchangers the NovationTM MCHE heat exchanger can be used in moderate marine and urban environments (Carrier recommendation).

From an energy efficiency point-of-view the Novation[™] MCHE heat exchanger is approximately 10% more efficient than a traditional coil and allows a 40% reduction in the amount of refrigerant used in the chiller. The low thickness of the Novation[™] MCHE reduces air pressure losses by 50% and makes it susceptible to very little fouling (e.g. by sand). Cleaning of the Novation[™] MCHE heat exchanger is very fast using a high-pressure washer.

To further enhance long-term performance, and to protect coils from early deterioration, Carrier offers (as options) dedicated treatments for installations in corrosive environments.

TECHNICAL INSIGHTS

New Generation of Flying Bird VI fans



The 30XB utilize Carrier's 6th generation Flying BirdTM fan technology, engineered for maximum efficiency, super low noise, and wide operating range. The fan includes Carrier patented rotating shroud technology and back-swept blades with a unique wave-serration trailing edge inspired from nature.

It was designed and optimized for the 30XB air management system configuration and heat exchanger technology and is offered with induction. The fan uses Carrier's robust and proven injection molded composite-thermoplastic construction.

OPTIONS

| Options | No. | Description | Advantages | Use for 30XB |
|--|-------|--|--|-------------------|
| Corrosion protection, traditional coils | ЗA | Fins made of pre-treated aluminum (polyurethane and epoxy) | Improved corrosion resistance, recommended for moderate marine and urban environments | 30XB 250-1700 |
| Medium-temperature brine solution | 5 | Implementation of new control algorithms and redesigned evaporator to allow chilled brine solution production down to -12°C when ethylene glycol is used (-8°C with propylene glycol) | Covers specific applications such as ice storage and industrial processes | 30XB 250-1700 |
| Low-temperature brine solution | 6 | Implementation of new control algorithms and redesigned evaporator to allow chilled brine solution production down to -15°C when ethylene glycol is used (-10°C with propylene glycol) | Covers specific applications such as ice storage and industrial processes | 30XB 250-1700 |
| Light-brine solution, down to -3°C | 8 | Implementation of new control algorithms to allow chilled brine solution production down to -3°C when ethylene glycol is used (0°C with propylene glycol) | Matches with most application requirements for ground-sourced heat pumps and fits with many industrial processes requirements | 30XB 250-1700 |
| Unit equipped for air discharge ducting | 10 | Fans equipped with discharge connection flanges - maximum available pressure 60 Pa | Facilitates connections to the discharge ducts | 30XB 250-1700 |
| Low noise level | 15 | Aesthetic and sound absorbing compressor enclosure | Noise level reduction | 30XB 250-1700 |
| Very low noise level | 15LS | Aesthetic and sound absorbing compressor enclosure associated with low-speed fans | Noise level reduction in sensitive environments | 30XB 250-1700 |
| Ultra low noise level | 15LS+ | Acoustic compressor enclosure, low-speed fans and enhanced sound insulation of main noise sources | Noise level reduction in sensitive environments | 30XB 250-1700 |
| Variable speed fans | 17 | Unit equipped with variable speed fans | Enhances the unit seasonal energy efficiency performance and reduces the noise emission thanks to a smooth fan speed variation. | 30XB 250-1700 |
| IP54 control box | 20A | Increased leak tightness of the unit | Protects the inside of the electrical box from dust, water and sand. In general this option is recommended for installations in polluted environments | 30XB 250-1700 |
| Tropicalisation of the electrical box | 22 | Electrical box equipped with an electrical heater and a fan. Electrical connections on the compressors painted with a special varnish and covered with an anti- condensation foam. | Allows safe operation in typical "tropical" climate. This option is recommended for all applications where humidy inside the electrical box can reach 80% at 40°C and unit can remain in stand-by for a long time under these conditions. | 30XB 250-1700 |
| Grilles and enclosure panels | 23 | Metal grilles on the 4 unit sides, plus side enclosure panels at each end of each coil | Improves aesthetics, protection against intrusion to the unit interior, coil and piping protection against impacts. | 30XB 250-1700 |
| Enclosure panels | 23A | Side enclosure panels at each end of each coil | Improves aesthetics, coil and piping protection against impacts. | 30XB 250-1700 |
| Low inrush current | 25C | Specific compressor loading and unloading sequence to limit the unit start-up current | Reduced start-up current | 30XB 250-1700 |
| Winter operation down to -20°C | 28 | Fan speed control via frequency converter | Stable unit operation for air temperature down to -20°C | 30XB 250- 1700 |
| Water exchanger frost protection | 41A | Electric resistance heater on the water exchanger and discharge valve | Water exchanger frost protection down to -20°C outside temperature | 30XB 250-1700 |
| Evaporator & hydraulic module frost protection | 41B | Electric resistance heater on water exchanger, discharge valve and hydraulic module | Water exchanger and hydraulic module frost protection down to -20°C outside temperature | 30XB 250-500 |
| Total heat recovery | 50 | Unit equipped with additional heat exchanger in parallel with the condenser coils. | Production of free hot-water simultaneously with chilled water production | 30XB 250-1000 |
| Master/slave operation | 58 | Unit equipped with supplementary water outlet temperature sensor kit (to be field installed) allowing master/slave operation of two units connected in parallel | Optimised operation of two units connected in parrallele operation with operating time equalisation | 30XB 250-1700 |
| Single power connection point | 81 | Unit power connection via one main supply connection | Quick and easy installation | 30XB 1100-1500 |
| Evap. and pumps with aluminum jacket | 88A | Evaporator and pumps covered with an aluminum sheet for thermal insulation protection | Improved resistance to aggressive climate conditions | 30XB 250-500 |
| Service valve set | 92 | Liquid line valve (evaporator inlet), compressor suction and discharge line valves and economiser line valve | Allow isolation of various refrigerant circuit components for simplified service and maintenance | 30XB 250-1700 |

OPTIONS

| Options | No. | Description | Advantages | Use for 30XB |
|--|------|---|--|------------------|
| Compressor discharge valves | 93A | Shut-off valve on the compressor discharge piping | Simplified maintenance | 30XB 250-1700 |
| Evaporator with one pass more | 100A | Evaporator with one pass more on the water side | Optimise chiller operation when the chilled water circuit is designed with low waterflows (high evaporator delta T) | 30XB 250-1700 |
| Evaporator with one pass less | 100C | Evaporator with one pass less on the water side. Evaporator inlet and outlet on opposite sides. | Easy to install, depending on site. Reduced pressure drops | 30XB 250-1000 |
| 21 bar evaporator | 104 | Reinforced evaporator for extension of the maximum water-side service pressure to 21 bar (standard 10 bar) | Covers applications with a high water column evaporator side (typically high-rise buildings) | 30XB 250-1700 |
| Reversed evaporator water connections | 107 | Evaporator with reversed water inlet/outlet | Easy installation on sites with specific requirements | 30XB 250-1700 |
| HP single-pump hydraulic module | 116R | Hydraulic module equipped with water filter, one high pressure pump, drain valve and pressure transducers (expansion tank & aluminum jacket not included). | Easy and fast installation (plug & play). Increased system reliability | 30XB 250-500 |
| HP dual-pump hydraulic module | 116S | Hydraulic module equipped with water filter, two high pressure pumps, drain valve and pressure transducers (expansion tank & aluminum jacket not included). | Easy and fast installation (plug & play). Increased system reliability | 30XB 250-500 |
| LP single-pump hydraulic module | 116T | Hydraulic module equipped with water filter, one low pressure pump, drain valve and pressure transducers (expansion tank & aluminum jacket not included). | Easy and fast installation (plug & play). Increased system reliability | 30XB 250-500 |
| LP dual-pump hydraulic module | 116U | Hydraulic module equipped with water filter, two low pressure pumps, drain valve and pressure transducers (expansion tank & aluminum jacket not included). | Easy and fast installation (plug & play). Increased system reliability | 30XB 250-500 |
| Dx Free Cooling system on two circuits | 118A | Patented Carrier free-cooling system with cooling micro-pump on both refrigerant circuits. Operation without glycol, no extra free-cooling coil. See Dx Free-cooling option chapter | Energy savings for applications with cooling demand throughout the entire year | 30XB 250-1000 |
| High Energy Efficiency | 119 | Additional condenser coil to improve unit energy efficiency | Enhances the unit energy efficiency performance | 30XB 900-1100 |
| Lon gateway | 148D | Bi-directional communication board complying with Lon Talk protocol | Connects the unit by communication bus to a building management system | 30XB 250-1700 |
| Bacnet over IP | 149 | Bi-directional high-speed communication using BACnet protocol over Ethernet network (IP) | Easy and high-speed connection by ethernet line to a building management system. Allows access to multiple unit parameters | 30XB 250-1700 |
| Modbus over IP and RS485 communication gateway | 149B | Bi-directional high-speed communication using the Modbus over Ethernet network (IP) protocol | Easy, quick connection via Ethernet line to a | 30XB 250-1700 |
| Energy Management Module | 156 | EMM Control board with additional inputs/ outputs. See Energy Management Module option chapter | Extended remote control capabilities (Set- point reset, ice storage end, demand limits, boiler on/off command) | 30XB 250-1700 |
| 7" user interface | 158A | Control supplied with a 7 inch colour touch screen user interface | Enhanced ease of use. | 30XB 250-1700 |
| Input contact for Refrigerant leack detection | 159 | 0-10 V signal to report any refrigerant leakage in the unit directly on the controlller (the leak detector itself must be supplied by the customer) | Immediate customer notification of refrigerant losses to the atmosphere, allowing timely corrective actions | 30XB 250-1700 |
| Under voltage relay | 159A | low voltage supply | Electrical protection | 30XB 250-1500 |
| Dual relief valves on 3-way valve | 194 | Three-way valve upstream of dual relief valves on the evaporator and the oil separator | Valve replacement and inspection facilitated without refrigerant loss. Comforms to European standard EN378/BGVD4 | 30XB 250-1700 |
| Compliance with Russian regulations | 199 | EAC certification | Conformance with Russian regulations | 30XB 250-1700 |

OPTIONS

| Options | No. | Description | Advantages | Use for 30XB |
|---|------|--|---|--|
| Traditional coils (Cu/Al) | 254 | Coils made of copper tubes with aluminum fins | None | 30XB 250-1700 (not available for size 1500) |
| Traditional coils (Cu/Al) without slots | 255 | Coils made of copper tubes with aluminum fins without slots | None | 30XB 250-1700 (not available for size 1500) |
| Insulation of the evap. in/out ref.lines | 256 | Thermal insulation of the evaporator entering/leaving refrigerant lines with flexible, UV resistant insulation | Prevents condensation on the evaporator entering/leaving refrigerant lines | 30XB 250-1700 |
| Enviro-Shield anti- corrosion protection | 262 | Coating by conversion process which modifies the surface of the aluminum producing a coating that is integral to the coil. Complete immersion in a bath to ensure 100% coverage. No heat transfer variation, tested 4000 hours salt spray per ASTM B117 | Improved corrosion resistance, recommended for use in moderately corrosive environments | 30XB 250-1700 |
| Super Enviro-Shield anti-corrosion protection | 263 | Extremely durable and flexible epoxy polymer coating applied on micro channel heat exchangers by electro coating process, final UV protective topcoat. Minimal heat transfer variation, tested 6000 hours constant neutral salt spray per ASTM B117, superior impact resistance per ASTM D2794 | Improved corrosion resistance, recommended for use in extremely corrosive environments | 30XB 250-1700 |
| Welded evaporator connection kit | 266 | Victaulic pipe adapters for welded joints | Easy installation | 30XB 250-1700 |
| Compressor enclosure | 279a | Compressor enclosure | Improved aesthetic, compressor protection against external elements (dust, sand, water) | 30XB 250-1700 |
| Evaporator with aluminum jacket | 281 | Evaporator covered with an aluminum sheet for thermal insulation protection | Improved resistance to aggressive climate conditions | 30XB 250-1700 |
| 230V electrical plug | 284 | 230V AC power supply source provided with plug socket and transformer (180 VA, 0,8 Amps) | Permits connection of a laptop or an electrical device during unit commissioning or servicing | 30XB 250-1700 |
| Expansion tank | 293 | 6 bar expansion tank integrated in the hydraulic module (requires hydraulic module option) | Easy and fast installation (plug & play), & Protection of closed water systems from excessive pressure | 30XB 250-500 |
| Mexico screw compressor | 297 | Screw compressor made in Mexico | | 30XB 500-1700 |
| Variable Water Flow control | 299 | Hydraulic control function package that permits control of the water flow rate based on different possible logics (at customer choice): constant ∆T, constant outlet pressure and "fixed-speed" control | When variable-speed pumps on the primary circuit, the VWF control modulates flow rate through the evaporator, minimising pump consumption while ensuring safe/optimised chiller operation | 30XB 250-1700 |
| Free-cooling dry-cooler control | 313 | Remote control of 09PE or 09VE dry-cooler based on a 0-10V signal. | Easy system management, extended control capabilities of a remote dry-cooler used in free-cooling mode | 30XB 250-1700 |
| Compliance with UAE regulation | 318 | Additional label on the unit with rated power input, rated current and EER following AHRI 550/590 | Compliance with ESMA standard UAE.S 5010-5:2019. | 30XB 250-1700 |
| Compliance with Qatar regulation | 319 | Specific nameplate on the unit with power supply 415 V+/-6% | Compliance with KAHRAMAA regulation in Qatar. | 30XB 250-1700 |
| Compliance with Morocco regulation | 327 | Specifics documents according Morroco regulation | Conformance with Morocco regulations | 30XB 250-1700 |
| Plastic tarp | 331 | Plastic tarp covering units with strapping and campled on the wooden pallet. | Allow unit to avoid dust and dirt from the outside environment during stocking and shipping. | 30XB 250-1700 |
| Compliance with Turkish regulations | 332 | Specific CE labelling according Turkish regulation. This CE marking is valid for use of the equipment in Turkey only as it does not cover Ecodesign Directive 2009/125/CE | CE marking compliant with Turkey regulations | 30XB 250-1700 |

PHYSICAL DATA, SIZES 30XB-250 TO 800

| 30XB | | | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 750 | 800 |
|--|---|---------|------|------|------|------|------|------|------|------|------|------|
| Cooling | | | | | | | | | | | | |
| Standard unit | Nominal capacity | kW | 274 | 299 | 327 | 393 | 444 | 496 | 615 | 682 | 726 | 788 |
| Full load performances* CA1 | EER | kW/kW | 3,14 | 3,11 | 3,11 | 3,22 | 3,11 | 3,1 | 3,15 | 3,34 | 3,11 | 3,14 |
| Unit with option 15LS (+) CA1 | Nominal capacity | kW | 270 | 294 | 321 | 382 | 430 | 485 | 607 | 661 | 698 | 767 |
| Full load performances* CAT | EER | kW/kW | 3,1 | 3,05 | 3,07 | 3,17 | 2,98 | 2,93 | 3,12 | 3,2 | 3 | 2,97 |
| Standard unit | SEER 12/7°C Comfort low temp. | kWh/kWh | 4,12 | 4,16 | 4,24 | 4,00 | - | - | - | 4,26 | - | 4,17 |
| Seasonal energy efficiency ** | ŋs cool _{12/7℃} | % | 162 | 164 | 166 | 157 | - | - | - | 167 | - | 164 |
| | SEPR _{12/7°C} Process high temp. | kWh/kWh | 4,74 | 5,15 | 5,51 | 4,95 | 5,33 | 5,00 | 5,20 | 5,50 | 5,07 | 5,09 |
| Unit with Option 5 Seasonal energy efficiency ** | SEPR _{-2/-8°C} Process medium temp.*** | kWh/kWh | - | 2,89 | 2,97 | 2,6 | 3,43 | 2,94 | 3,57 | 3,71 | 3,39 | 3,33 |
| Unit with Option 17 & 299 | SEER 12/7°C Comfort low temp. | kWh/kWh | 4,12 | 4,16 | 4,23 | 4,28 | 4,27 | 4,09 | 4,13 | 4,47 | 4,21 | 4,36 |
| Seasonal energy efficiency ** | ŋs cool ₁₂/フ°C | % | 162 | 164 | 166 | 168 | 168 | 161 | 162 | 176 | 166 | 171 |
| | SEPR 12/7°C Process high temp. | kWh/kWh | 4,75 | 5,16 | 5,54 | 4,99 | 5,21 | 5,02 | 5,25 | 5,55 | 5,10 | 5,13 |
| Unit with Option 5&17 Seasonal energy efficiency ** | SEPR _{-2/-8°C} Process medium temp.*** | kWh/kWh | 2,79 | 3,1 | 3,27 | 2,93 | 3,66 | 3,71 | 3,82 | 3,93 | 3,59 | 3,49 |
| Unit with Option 15LS (+) | SEER 12/7°C Comfort low temp. | kWh/kWh | 4,26 | 4,29 | 4,51 | 4,26 | 4,18 | 4,13 | - | 4,34 | - | - |
| Seasonal energy efficiency ** | ŋs cool ₁₂/フ°C | % | 167 | 169 | 177 | 167 | 164 | 162 | - | 171 | - | - |
| | SEPR _{12/7°C} Process high temp. | kWh/kWh | 5,03 | 5,24 | 5,98 | 5,17 | 5,50 | 5,13 | 5,66 | 5,69 | 5,40 | 5,52 |
| Unit with Option 5 & 15LS (+) Seasonal energy efficiency ** | SEPR _{-2/-8°C} Process medium temp.*** | kWh/kWh | 2,67 | 2,96 | 3,08 | - | 3,59 | 3,12 | 3,92 | 3,94 | 3,66 | 3,70 |
| Unit with Option 17 & 299 & | SEER 12/7°C Comfort low temp. | kWh/kWh | 4,15 | 4,17 | 4,39 | 4,37 | 4,30 | 4,20 | 4,21 | 4,41 | 4,23 | 4,23 |
| 15LS (+) | ŋs cool ₁₂/フ°C | % | 163 | 164 | 173 | 172 | 169 | 165 | 165 | 174 | 166 | 166 |
| Seasonal energy efficiency ** | SEPR _{12/7°C} Process high temp. | kWh/kWh | 5,69 | 5,80 | 6,10 | 5,61 | 5,58 | 5,78 | 5,73 | 5,91 | 5,52 | 5,57 |
| Unit with Option 5, 17, 15LS(+) Seasonal energy efficiency ** | SEPR _{-2/-8°C} Process medium temp.*** | kWh/kWh | 2,80 | 3,17 | 3,39 | 2,95 | 3,69 | 3,83 | 3,96 | 3,99 | 3,69 | 3,72 |
| Sound levels | | | | | | | | | | | | |
| Standard unit | | | | | | | | | | | | |
| Sound power ⁽¹⁾ | | dB(A) | 99 | 99 | 99 | 99 | 101 | 99 | 101 | 99 | 103 | 103 |
| Sound pressure at 10 m ⁽²⁾ | | dB(A) | 67 | 67 | 67 | 67 | 69 | 67 | 68 | 67 | 70 | 70 |
| Unit + option 15 ⁽³⁾ | | _ | | | | | | | | | | |
| Sound power ⁽¹⁾ | | dB(A) | 93 | 93 | 94 | 95 | 95 | 95 | 97 | 96 | 97 | 98 |
| Sound pressure at 10 m ⁽²⁾ | | dB(A) | 61 | 61 | 62 | 63 | 63 | 63 | 65 | 63 | 64 | 65 |
| Unit + option 15LS ⁽³⁾ | | | | | | | | | | | | |
| Sound power ⁽¹⁾ | | dB(A) | 87 | 87 | 87 | 90 | 91 | 91 | 93 | 92 | 94 | 94 |
| Sound pressure at 10 m ⁽²⁾ | | dB(A) | 55 | 55 | 55 | 58 | 59 | 59 | 60 | 59 | 61 | 61 |
| Unit + option 15LS+ ⁽³⁾ | | | | | | | | | | | | |
| Sound power ⁽¹⁾ | | dB(A) | - | - | - | - | 89 | 89 | 91 | 90 | 91 | 92 |
| Sound pressure at 10 m ⁽²⁾ | | dB(A) | - | - | - | - | 56 | 56 | 57 | 56 | 58 | 58 |
| Dimensions | | | | | | | | | | | | |
| Standard unit | | | | | | | | | | | | |
| Length | | mm | 3604 | | 3604 | | 4798 | 4798 | 7186 | | 7186 | 7186 |
| Width | | mm | | 2253 | | | | 2253 | | 2253 | | |
| Height | | mm | 2322 | 2322 | 2322 | 2322 | 2322 | 2322 | 2322 | 2322 | 2322 | 2322 |

In accordance with standard EN14511-3.2018, average climate

**

CA1

Cooling mode conditions: Evaporator water entering/leaving temperature 12°C/7°C, outside air temperature 35°C, evaporator fooling factor 0 m².KW



With EG 30%



Eurovent certified values

PHYSICAL DATA, SIZES 30XB-250 TO 800

| Unit + option 15 ⁽³⁾ I 2271 2881 3262 4015 5005 51.4 5000 51.4 5000 51.4 5000 51.4 5000 51.4 5000 51.4 5000 51.4 5000 51.4 5000 51.4 5000 51.4 5000 51.2 52.3 52.3 52.5 52.5 52.5 52.5 52.5 52.5 52.5 52.5 52.5 52.5 52.5 52.5 52.5 52.5 <th></th> | | | | | | | | | | | | |
|--|--|--------|---------|---|---------|---------|-----------|-----------|---------------------------------------|------------|----------|---------|
| Sindard unit i 2902 3024 3024 3024 3024 3024 3024 3024 3036 377 74 70 | 30XB | | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 750 | 800 |
| Sindard unit i 2902 3024 3024 3024 3024 3024 3024 3024 3036 377 74 70 | Operating weight ⁽⁴⁾ | | | | | | | | | | | |
| Unit - option 118 a ⁽³⁾ I 3064 3103 3084 4103 5084 4707 4100 4303 5216 5523 6235 5623 6235 5623 6245 Campressors I 1 | | I | 2992 | 3023 | 3042 | 3620 | 3684 | 3746 | 4717 | 4849 | 5115 | 5431 |
| Unit - option 118 a ⁽³⁾ I 3064 3103 3084 4103 5084 4707 4100 4303 5216 5523 6235 5623 6235 5623 6245 Campressors I 1 | Unit + option 15 ⁽³⁾ | I | 3237 | 3268 | 3287 | 3889 | 3952 | 4015 | 5005 | 5134 | 5400 | 5716 |
| Unit - oplion 50 ⁽³⁾ I 3314 3345 3394 3023 4164 4515 5282 5657 5923 6245 Compressors OFF Sector | · · · | | 3053 | 3084 | 3103 | 3694 | 3757 | 4100 | 4806 | 4935 | 5216 | 5532 |
| Compressors OT semi-hermetic screw compressor. 50 r/s Circuit A 1 | · · · | | 3314 | 3345 | 3364 | 4023 | 4164 | 4515 | 5428 | 5657 | 5923 | 6245 |
| Circuit A 1 | i | | | | 06T ser | ni-herm | etic sci | | npresso | or. 50 r/s | 3 | |
| No. of control slages kg 37 35 35 5 </td <td></td> <td></td> <td>1</td> <td></td> <td>1</td> <td></td> <td></td> <td>1</td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td> <td>1</td> | | | 1 | | 1 | | | 1 | · · · · · · · · · · · · · · · · · · · | | | 1 |
| Refrigerant/• k | Circuit B | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant/• k | No. of control stages | | | | | | | | | | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | | | | | 34a | l | l | | |
| Circuit A teqCO2 52,9 50,1 50,1 72,2 74,4 76,5 82,9 82,0 93,0 98,7 Circuit B teqCO2 55,1 51,5 52,8 22,5 22,9 46,5 82,9 82,0 93,0 98,7 Circuit B teqCO2 55,1 51,5 52,8 52,5 23,5 </td <td></td> <td>ka</td> <td>37</td> <td>35</td> <td>35</td> <td>51</td> <td></td> <td></td> <td>58</td> <td>58</td> <td>65</td> <td>69</td> | | ka | 37 | 35 | 35 | 51 | | | 58 | 58 | 65 | 69 |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | Circuit A | - | | | | - | - | - | | | | |
| Circuit B teqCO2 55.1 51.5 52.9 52.2 52.9 46.5 84.4 88.7 82.9 93.0 Oli Image: Instant Control Image: Instant Contro Image: Instant Control | | | | | | | | | , | , | | |
| Oil For more information, contact Carrier ERCD Circuit A 1 20,8 20,8 23,6 23,5 <td>Circuit B</td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td></td> <td>-</td> <td></td> <td></td> | Circuit B | | | | - | - | - | | | - | | |
| Circuit A I 20,8 20,8 20,8 23,5 | Qil | 109002 | | , | , | , | , | | , | | , | 00,0 |
| Circuit B I 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.5 23.5 15 <th< td=""><td>-</td><td></td><td>20.8</td><td></td><td></td><td></td><td>,</td><td></td><td></td><td>r</td><td></td><td>27.6</td></th<> | - | | 20.8 | | | | , | | | r | | 27.6 |
| Capacity control SmartVu TM , Electronic Expansion Valve (EXV) Minimum capacity % 15 16 17 | - | I | , | | , | , | , | | , | | | - |
| Minimum capacity % 15 </td <td>-</td> <td></td> <td>20,0</td> <td>1 '</td> <td></td> <td>· ·</td> <td>· ·</td> <td></td> <td></td> <td></td> <td></td> <td>20,0</td> | - | | 20,0 | 1 ' | | · · | · · | | | | | 20,0 |
| Air heat exchanger Aluminum micro-channel coils (MCHE) Fans FLYING-BIRD 6, axial fan with rotating impeller Standard unit Cuantity 6 6 6 8 8 11 12 12 12 12 Maximum total air flow l/s 28920 28920 28920 38560 38560 53020 57840 57840 57840 Maximum total air flow l/s 28920 28920 28920 38560 38560 38560 38560 3720 57840 57840 57840 Maximum total air flow l/s 23580 23580 23580 31440 31440 431440 4404 43230 47160 | | 0/_ | 15 | | | | | 1 | | 1 | | 15 |
| Fans FLYING-BIRD 6, axial fan with rotating impeller Standard unit G 6 6 6 8 8 11 12 12 12 Quantity 6 6 6 8 8 8 11 12 12 12 12 Maximum total in flow 1/s 28920 28920 28920 38560 38560 53020 57840 <td></td> <td>70</td> <td>15</td> <td>15</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>15</td> <td>15</td> | | 70 | 15 | 15 | - | - | - | - | - | - | 15 | 15 |
| Standard unit 6 6 6 6 8 8 11 12 12 12 Maximum total air flow I/s 28920 28920 28920 28560 38560 53020 57840 | | | | | | | | | <u>``</u> | <i>,</i> | or | |
| Quantity 6 6 6 8 8 8 11 12 12 12 Maximum total air flow 1/s 28920 28920 28920 38560 38560 53020 57840 <th57840< th=""> <th< td=""><td></td><td></td><td></td><td>Г</td><td>LTING-</td><td></td><td>, axiai i</td><td></td><td>Totating</td><td>y impen</td><td>ei</td><td></td></th<></th57840<> | | | | Г | LTING- | | , axiai i | | Totating | y impen | ei | |
| Maximum total air flow I/s 28920 28920 28920 28920 28920 38560 38560 53020 57840 | | | 6 | 6 | 6 | 0 | 0 | 0 | 11 | 10 | 10 | 10 |
| Maximum rotation speed r/s 15,7 10,7 <t< td=""><td>`</td><td>1/2</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td></td><td></td><td></td><td></td></t<> | ` | 1/2 | - | - | - | - | - | - | | | | |
| Unit + option 15LS I/s 23580 23580 23580 31440 31440 31440 42330 47160 | | | | | | | | | | | | |
| Maximum total air flow I/s 23580 23580 23580 31440 31440 31440 43230 47160 47160 47160 Maximum rotation speed r/s 11,7 11,0 11,0 11,0 11,0 11,0 11,0 11,0 | · · · · · · · · · · · · · · · · · · · | ſ/S | 15,7 | 15,7 | 15,7 | 15,7 | 15,7 | 15,7 | 15,7 | 15,7 | 15,7 | 15,7 |
| Maximum rotation speed r/s 11,7 11,0 <t< td=""><td></td><td>17-</td><td>00500</td><td>00500</td><td>00500</td><td>01110</td><td>04440</td><td>04440</td><td>40000</td><td>47400</td><td>47400</td><td>47400</td></t<> | | 17- | 00500 | 00500 | 00500 | 01110 | 04440 | 04440 | 40000 | 47400 | 47400 | 47400 |
| Water heat exchanger Flooded multi-tube type Water volume I 58 61 61 66 70 77 79 94 98 119 Max. water-side operating pressure without hydraulic module KPa 1000 | | | | | | | | | | | | |
| Water volume I 58 61 61 66 70 77 79 94 98 119 Max. water-side operating pressure without hydraulic module kPa 1000 </td <td></td> <td>r/s</td> <td>11,7</td> <td>11,7</td> <td>11,7</td> <td>,</td> <td></td> <td></td> <td>,</td> <td>11,7</td> <td>11,7</td> <td>11,7</td> | | r/s | 11,7 | 11,7 | 11,7 | , | | | , | 11,7 | 11,7 | 11,7 |
| Max. water-side operating pressure without hydraulic module kPa 1000 | | | | 0.1 | 0.1 | r | r | 1 | | 0.1 | 00 | 440 |
| Module MPa Hod Hod< | | I | 58 | 61 | 61 | 66 | 70 | 11 | 79 | 94 | 98 | 119 |
| Hydraulic module (option) pressure sensors, expansion tank (option) Pump Centrifugal pump, monocell, 48,3r/s, low or high pressure (as required) single or dual (as required) Expansion vessel volume I 50 50 50 50 80 Image: Image | | kPa | | | | | | | | | | 1000 |
| Pump single or dual (as required) Expansion vessel volume I 50 50 50 50 80 Image: Single or dual (as required) Max. water-side operating pressure with hydraulic module kPa 400 | Hydraulic module (option) | | Pum | np, Victa | | | | | | | drain va | alve, |
| Expansion vessel volume I 50 50 50 50 80 I I I Max. water-side operating pressure with hydraulic module kPa 400 40 40 40 | | | Centrif | ugal pu | imp, mo | nocell, | 48,3r/s | , low or | high p | ressure | (as rec | uired), |
| Max. water-side operating pressure with hydraulic module kPa 400 4113 1413 1413 1413 1413 1413 1413 1413 1413 1413 1413 1413 1413 1413 1413 1413 1413 <th1< td=""><td>Pump</td><td></td><td></td><td></td><td></td><td>single</td><td>or dua</td><td>l (as reo</td><td>quired)</td><td></td><td>-</td><td></td></th1<> | Pump | | | | | single | or dua | l (as reo | quired) | | - | |
| Water connections without or with hydraulic module Victaulic® type Standard & option 8, without option 116 Victaulic® type Nominal diameter in 5 5 5 5 6 6 6 Actual outside diameter mm 141,3 141,3 141,3 141,3 141,3 141,3 141,3 141,3 168,3 141,3 114,3 114,3 114,3 114,3 114,3 114,3 114,3 114,3 141,3 <td>Expansion vessel volume</td> <td>I</td> <td>50</td> <td>50</td> <td>50</td> <td>50</td> <td>50</td> <td>80</td> <td></td> <td></td> <td></td> <td></td> | Expansion vessel volume | I | 50 | 50 | 50 | 50 | 50 | 80 | | | | |
| Standard & option 8, without option 116 in 5 6 6 6 6 Actual outside diameter mm 141,3 | Max. water-side operating pressure with hydraulic module | kPa | 400 | 400 | 400 | 400 | 400 | 400 | | | | |
| Nominal diameter in 5 5 5 5 5 5 6 6 6 Actual outside diameter mm 141,3 | Water connections without or with hydraulic module | | | | | | Victauli | ic® type |) | | | |
| Actual outside diametermm141,3 <th< td=""><td>Standard & option 8, without option 116</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<> | Standard & option 8, without option 116 | | | | | | | | | | | |
| Options 5, 6 et 100A nominal diameter in 4 4 4 4 4 4 4 5 5 5 5 Actual outside diameter mm 114,3 114,3 114,3 114,3 114,3 114,3 141,3 168,3 <td>Nominal diameter</td> <td>in</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>6</td> <td>6</td> <td>6</td> | Nominal diameter | in | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 |
| Nominal diameter in 4 4 4 4 4 4 4 5 5 5 Actual outside diameter mm 114,3 114,3 114,3 114,3 114,3 114,3 114,3 114,3 141,3 < | Actual outside diameter | mm | 141,3 | 141,3 | 141,3 | 141,3 | 141,3 | 141,3 | 141,3 | 168,3 | 168,3 | 168,3 |
| Actual outside diameter mm 114,3 114,3 114,3 114,3 114,3 141,3 | Options 5, 6 et 100A | | | | | | | | | | | |
| Actual outside diameter mm 114,3 | Nominal diameter | in | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 |
| Options 100C Nominal diameter in 5 5 5 5 5 6 6 6 6 Actual outside diameter mm 141,3 141,3 141,3 141,3 141,3 141,3 141,3 168,3 <td>Actual outside diameter</td> <td>mm</td> <td>114,3</td> <td>114,3</td> <td>114,3</td> <td>114,3</td> <td>114,3</td> <td>114,3</td> <td>141,3</td> <td>141,3</td> <td>141,3</td> <td></td> | Actual outside diameter | mm | 114,3 | 114,3 | 114,3 | 114,3 | 114,3 | 114,3 | 141,3 | 141,3 | 141,3 | |
| Nominal diameter in 5 5 5 5 5 6 6 6 6 Actual outside diameter mm 141,3 141,3 141,3 141,3 141,3 141,3 141,3 141,3 141,3 168,3 | Options 100C | | | | | | | | | | | |
| Actual outside diameter mm 141,3 | Nominal diameter | in | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| Options 116 Image: state s | | | | | | | | | | | | |
| Nominal diameter in 4 4 4 4 4 - | | | ,,, | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | ,,, | . ,, | ,,, | ,,,, | , , , | | - , - | -,- |
| Actual outside diameter mm 114,3 114,3 114,3 114,3 114,3 114,3 114,3 | Nominal diameter | in | 4 | 4 | 4 | 4 | 4 | 4 | - | - | - | - |
| | | | | | | | | | - | - | | |
| | Casing paint | | ,5 | , · · · , · | ,9 | | | | 7035 | 1 | | |

(3) Options : 15 = Low noise, 15LS = Very Low noise, 118a = Dx freecooling option, 50 = heat recovery.
(4) Values are guidelines only. Refer to the unit name plate.

PHYSICAL DATA, SIZES 30XB-850 TO 1700

| 30ХВ | | | 850 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1550 | 1700 |
|--|---|--------------|------|------|------|------|------|------|------|------|------|------|
| Cooling | | | | | | | | | | | | |
| Standard unit | Nominal capacity | kW | 828 | 890 | 965 | 1126 | 1244 | 1332 | 1440 | 1492 | 1532 | 1689 |
| Full load performances* CA1 | EER | kW/kW | 3,13 | 3,13 | 2,97 | 3,08 | 3,1 | 3,18 | 3,08 | 3,12 | 3,23 | 3,25 |
| Unit with option 15LS (+) | Nominal capacity | kW | 775 | 859 | 929 | 1111 | 1211 | 1298 | 1391 | 1418 | 1457 | 1627 |
| Full load performances* CA1 | EER | kW/kW | 2,8 | 2,97 | 2,96 | 2,9 | 3,03 | 2,9 | 2,77 | 2,94 | 2,96 | 3,1 |
| | SEER 12/7°C Comfort low temp. | kWh/kWh | - | 4,12 | - | - | 4,18 | - | 4,16 | - | - | - |
| Standard unit | ns cool 12/7°C | % | - | 162 | - | - | 164 | - | 163 | - | - | - |
| Seasonal energy efficiency ** | SEPR 12/7°C Process high temp. | kWh/kWh | 5,18 | 5,08 | 5,13 | 5,31 | 5,46 | 5,33 | 5,43 | 5,17 | 5,31 | 5,24 |
| Unit with Option 5 | SEPR -2/-8°C Process medium | kWh/kWh | _ | | 3,49 | 3,50 | 3,39 | 3,36 | 3,40 | _ | 3,57 | 3,77 |
| Seasonal energy efficiency ** | temp.*** | KVVII/KVVII | - | - | 3,49 | 3,50 | 3,39 | 3,30 | 3,40 | - | 3,57 | 3,77 |
| Unit with Option 17 & 299 | SEER _{12/7°C} Comfort low temp. | kWh/kWh | 4,10 | 4,20 | 3,98 | 4,10 | 4,26 | 4,16 | 4,19 | 4,10 | - | 4,22 |
| Seasonal energy efficiency ** | ηs cool _{12/7°C} | % | 161 | 165 | 156 | 161 | 167 | 164 | 165 | 161 | - | 166 |
| | SEPR 12/7°C Process high temp. | kWh/kWh | 5,58 | 5,33 | 5,22 | 5,47 | 5,55 | 5,61 | 5,58 | 5,20 | - | 5,38 |
| Unit with Option 17 & 299 & | SEER 12/7°C Comfort low temp. | kWh/kWh | - | - | 3,98 | 4,10 | - | - | - | - | - | - |
| 119 | դs cool _{12/7°C} | % | - | - | 156 | 161 | - | - | - | - | - | - |
| Seasonal energy efficiency ** | SEPR 12/7°C Process high temp. | kWh/kWh | - | - | 5,22 | 5,47 | - | - | - | - | - | - |
| Unit with Option 5 & 17 Seasonal energy efficiency ** | SEPR _{-2/-8°C} Process medium temp.*** | kWh/kWh | 3,76 | 3,70 | 3,60 | 3,68 | 3,61 | 3,68 | 3,67 | 3,48 | - | 3,89 |
| Unit with Option 15LS (+) | SEER 12/7°C Comfort low temp. | kWh/kWh | - | - | - | - | - | - | - | - | - | - |
| Seasonal energy efficiency ** | ns cool 12/7°C | % | - | - | - | _ | - | - | - | - | - | - |
| couconal energy enterency | SEPR 12/7°C Process high temp. | kWh/kWh | 5,23 | 5,37 | 5,31 | 5,10 | 5,34 | - | - | - | 5,39 | 5,23 |
| Unit with Option 5 & 15LS (+) | SEPR _{-2/-8°C} Process medium | | | 0,01 | L ' | , | | | | | | , |
| Seasonal energy efficiency ** | temp.*** | kWh/kWh | 3,27 | - | 3,82 | 3,50 | 3,47 | 3,24 | 3,27 | - | 3,70 | 3,97 |
| Unit with Option 17 & 299 & | SEER 12/7°C Comfort low temp. | kWh/kWh | 4,10 | 4,10 | 3,80 | 3,76 | 4,09 | - | - | 4,09 | - | 4,09 |
| 15LS (+) | ηs cool _{12/7°C} | % | 161 | 161 | 149 | 147 | 161 | - | - | 161 | - | 161 |
| Seasonal energy efficiency ** | SEPR 12/7°C Process high temp. | kWh/kWh | 5,64 | 5,48 | 5.20 | 5,15 | 5,43 | 5,06 | 5.05 | 5,21 | - | 5.30 |
| Unit with Option 17 & 299 & | SEER _{12/7°C} Comfort low temp. | kWh/kWh | - | - | 4,14 | 4,02 | - | - | - | - | - | - |
| 15LS (+) & 119 | ns cool 12/7°C | % | - | - | 162 | 157 | - | - | - | - | - | - |
| Seasonal energy efficiency ** | SEPR 12/7°C Process high temp. | kWh/kWh | - | - | 5,64 | 5,40 | - | - | - | - | - | - |
| Unit with Option 5, 17, 15LS(+) | | | | | , · | | 0 -0 | | | | | |
| Seasonal energy efficiency ** | temp.*** | kWh/kWh | 3,80 | 3,83 | 3,81 | 3,55 | 3,52 | 3,28 | 3,33 | 3,63 | - | 3,97 |
| Sound levels | · · · | | | | | | | | | | | |
| Standard unit | | | | | | | | | | | | |
| Sound power ⁽¹⁾ | | dB(A) | 101 | 104 | 102 | 103 | 102 | 104 | 104 | 104 | 104 | 104 |
| Sound pressure at 10 m ⁽²⁾ | | dB(A) | 70 | 71 | 69 | 70 | 69 | 71 | 71 | 71 | 71 | 70 |
| Unit + option 15 ⁽³⁾ | | | | | | | | | | | | |
| Sound power ⁽¹⁾ | | dB(A) | 97 | 99 | 98 | 98 | 98 | 100 | 99 | 99 | 100 | 100 |
| Sound pressure at 10 m ⁽²⁾ | | dB(A) | 65 | 66 | 65 | 65 | 65 | 67 | 65 | 65 | 67 | 66 |
| Unit + option 15LS ⁽³⁾ | | | | | | | | | | | | |
| Sound power ⁽¹⁾ | | dB(A) | 94 | 95 | 94 | 94 | 94 | 99 | 95 | 96 | 96 | 96 |
| Sound pressure at 10 m ⁽²⁾ | | dB(A) | 61 | 62 | 61 | 61 | 61 | 66 | 62 | 63 | 63 | 62 |
| Unit + option 15LS+ ⁽³⁾ | | | | | | | | | | | | |
| Sound power ⁽¹⁾ | | dB(A) | 91 | 93 | 92 | 93 | 93 | 97 | 94 | 95 | 93 | 93 |
| Sound pressure at 10 m ⁽²⁾ | | dB(A) | 58 | 60 | 59 | 60 | 60 | 66 | 61 | 62 | 60 | 60 |
| * In accorda | ance with standard EN14511-3:2018. | | | | | | | | | | | |
| ** In accorda | ance with standard EN14825:2018, av | verage clima | te | | | | | | | | | |
| *** With EG 3 | 00/ | | | | | | | | | | | |

* *** + CA1

With EG 30%

SEER calculated with the option 119 Cooling mode conditions: Evaporator water entering/leaving temperature 12°C/7°C, outside air temperature 35°C, evaporator fooling factor 0 m².K/W Not applicable



Eurovent certified values

PHYSICAL DATA, SIZES 30XB-850 TO 1700

| 30XB | | 850 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1550 | 1700 |
|--|--------------------|------------|------------|--------------|--------------|--------------|---------------------|--------------|----------|-----------------|---------------|
| Dimensions | | | | | | | | | | | |
| Standard unit | | | | | | | | | | | |
| Length | mm | 7186 | 7186 | 8380 | 9574 | 10770 | 11962 | 11962 | 13157 | 9574/ 4798 | 8380/ 8380 |
| Width | mm | 2253 | 2253 | 2253 | 2253 | 2253 | 2253 | 2253 | 2253 | 2253 | 2253 |
| Height | mm | 2322 | 2322 | 2322 | 2322 | 2322 | 2322 | 2322 | 2322 | 2322 | 2322 |
| Operating weight ⁽⁴⁾ | | | | | | | | | | | |
| Standard unit | kg | 5480 | 5749 | 6244 | 7202 | 7650 | 8545 | 8622 | 8928 | 3356/ 6612 | 5835/ 5835 |
| Unit + option 15 ⁽³⁾ | kg | 5765 | 6034 | 6521 | 7511 | 7952 | 8840 | 8917 | 9215 | 3557/ 6985 | 6234/ 6234 |
| Unit + option 118 ⁽³⁾ | kg | 5868 | 6157 | 6643 | - | - | - | - | - | - | - |
| Unit + option 50 ⁽³⁾ | kg | 6294 | 6660 | 7144 | - | - | - | - | - | - | - |
| Compressors | | | | 06T s | semi-heri | metic sci | ew com | oressor, | 50 r/s | | |
| Circuit A | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Circuit B | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Circuit C | | | | | | | | | | 1 | 1 |
| Circuit D | | | | | | | | | | | 1 |
| No. of control stages | | | | | | | | | | | |
| Refrigerant ⁽⁴⁾ | | | | | | R1 | 34a | | | | |
| Circuit A | kg | 69 | 67 | 71 | 76 | 76 | 110 | 116 | 132 | 85 | 72 |
| Circuit A | teqCO ₂ | 98,7 | 95,8 | 100,8 | 108,7 | 108,7 | 157,3 | 165,9 | 188,8 | 121,6 | 103,0 |
| Circuit P | kg | 65 | 67 | 72 | 108 | 120 | 116 | 124 | 120 | 88 | 63 |
| Circuit B | teqCO ₂ | 93,0 | 95,8 | 103,0 | 154,4 | 171,6 | 165,9 | 177,3 | 171,6 | 125,8 | 90,1 |
| Circuit C | kg | | | | | | | | | 80,0 | 72,0 |
| Circuit C | teqCO ₂ | | | | | | | | | 114,4 | 103,0 |
| Circuit D | kg | | | | | | | | | | 63,0 90,1 |
| Oil | teqCO ₂ | | | | l info | rmation | contact | Corrior F | | | 90,1 |
| Circuit A | | 27.6 | 27.6 | 1 | nore info | | | | 1 | 27.6 | 27.6 |
| Circuit B | I | 27,6 | 27,6 | 27,6 27,6 | 27,6 36,0 | 27,6 36,0 | 36,0 | 36,0 36,0 | 36,0 | 27,6 | 27,6 |
| Circuit C | | 23,5 | 27,6 | 27,0 | 30,0 | 30,0 | 36,0 | 30,0 | 36,0 | 27,6 27,6 | 23,5 27,6 |
| Circuit D | I | | | | | | | | | 27,0 | 23,5 |
| Capacity control | | | | Smort | Vu™, El | octronic | Evnanci | an Valvo | | | 23,5 |
| Minimum capacity | % | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 10 | 8 |
| Air heat exchanger | 70 | 15 | 15 | - | uminum | - | _ | - | - | 10 | 0 |
| Fans | | | | | G-BIRD | | | <u> </u> | | | |
| Standard unit | | | | | G-DIND | 0, axiai i | | otating i | npellel | | |
| Quantity | | 12 | 12 | 14 | 16 | 18 | 20 | 20 | 22 | 24 | 28 |
| Maximum total air flow | l/s | 57840 | | | 77120 | 86760 | 96400 | | 106040 | | |
| Maximum rotation speed | r/s | 15,7 | 15,7 | 15,7 | 15,7 | 15,7 | 15,7 | 15,7 | 15,7 | 15,7 | 15,7 |
| Unit + option 15LS | 1/3 | 15,7 | 15,7 | 15,7 | 15,7 | 15,7 | 15,7 | 15,7 | 15,7 | 15,7 | 10,7 |
| Maximum total air flow | l/s | 47160 | 47160 | 55020 | 62880 | 70740 | 78600 | 78600 | 86460 | 0/320 | 110040 |
| Maximum rotation speed | r/s | 11,7 | 11,7 | 11,7 | 11,7 | 11,7 | 11,7 | 11,7 | 11,7 | 11,7 | 11,7 |
| Water heat exchanger | 1/3 | 11,7 | 11,7 | 11,7 | <u> </u> | oded mu | , | , | 11,7 | 11,7 | , |
| Water volume | | 119 | 130 | 140 | 164 | 174 | 180 | 189 | 189 | 240 | 240 |
| Max. water-side operating pressure without | | 113 | 100 | 140 | 104 | 1/4 | 100 | 100 | 100 | 240 | |
| hydraulic module | kPa | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Water connections without or with hydrauli | c module | | | | | Victauli | c [®] type | | | | ļ |
| Standard & option 8 | e medule | | | | | Violaan | o type | | | | |
| Nominal diameter | in | 6 | 6 | 8 | 6 | 6 | 6 | 6 | 6 | 8/6 | 6 |
| Actual outside diameter | mm | 168,3 | 168,3 | 219,1 | 168,3 | 168,3 | 168,3 | 168,3 | 168,3 | 219,1/ 168,3 | 168,3 |
| Options 5 6 at 100A | | | 1 | 1 | <u> </u> | | <u> </u> | | <u> </u> | 100,3 | 1 |
| Options 5, 6 et 100A | in | F | F | 6 | 6 | 6 | e | e | 6 | Q/E | 6/6 |
| Nominal diameter Actual outside diameter | in | 5 141,3 | 5 141,3 | 168,3 | 168,3 | 168,3 | 6 168,3 | 6 168,3 | 168,3 | 8/5 219,1/ | 168,3/ |
| | | ,9 | ,3 | | | | ,0 | | | 141,3 | 168,3 |
| Options 100C | | | - | - | 1 | | | | | 1 | |
| Nominal diameter | in | 6 | 6 | 8 | - | - | - | - | - | - | - |
| Actual outside diameter | mm | 168,3 | 168,3 | 219,1 | - | - | - | - | - | - | - |
| Casing paint | | | | | Co | lour cod | e RAL 7(| 135 | | | |

(3) Options : 15 = Low noise, 15LS = Very Low noise, 118a = Dx freecooling option, 50 = heat recovery.
(4) Values are guidelines only. Refer to the unit name plate.

ELECTRICAL DATA, 30XB-250 TO 1000

| 30XB | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 750 | 800 | 850 | 900 | 1000 |
|---|------|------|------|------|------|-----------|----------|--------|------|------|------|------|------|
| 30AD | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 100 | 750 | 800 | 850 | 900 | 1000 |
| Power circuit supply | | | | | | | | | | | | | |
| Nominal voltage V-ph-H | z | | | | | 4 | 00-3-5 | 0 | | | | | |
| Voltage range V | | | | | | 3 | 860-44 | 0 | | | | | |
| Control circuit supply | | | | | 24 V | ′ via int | ternal t | ransfo | rmer | | | | |
| Maximum operating input power ⁽¹⁾ - 30XB | | | | | | | | | | | | | |
| Standard unit kW | 127 | 137 | 148 | 173 | 193 | 212 | 259 | 279 | 310 | 328 | 359 | 377 | 442 |
| Unit + option 15LS kW | 121 | 132 | 142 | 166 | 186 | 204 | 249 | 268 | 299 | 317 | 348 | 366 | 428 |
| Power factor at maximum power ⁽¹⁾ - 30XB | | | | | | | | | | | | | |
| Standard unit | | _ | | | | | | | | | | | |
| Displacement Power Factor (Cos Phi) | 0,88 | 0,87 | 0,87 | 0,88 | 0,88 | 0,88 | 0,88 | 0,88 | 0,87 | 0,87 | 0,88 | 0,87 | 0,88 |
| Unit + option 15LS | | | | | | | | | | | | | |
| Displacement Power Factor (Cos Phi) | 0,88 | 0,87 | 0,87 | 0,88 | 0,88 | 0,88 | 0,88 | 0,88 | 0,87 | 0,87 | 0,88 | 0,87 | 0,88 |
| Nominal operating current draw ⁽²⁾ - 30XB | | | | | | | | | | | | | |
| Standard unit A | 151 | 167 | 183 | 211 | 242 | 263 | 327 | 351 | 402 | 423 | 439 | 495 | 535 |
| Unit + option 15LS A | 142 | 158 | 174 | 199 | 230 | 251 | 310 | 333 | 384 | 405 | 421 | 477 | 513 |
| Maximum operating current draw (Un) ⁽¹⁾ - 30XB | | | | | | | | | | | | | |
| Standard unit A | 209 | 227 | 245 | 285 | 318 | 348 | 426 | 459 | 514 | 544 | 590 | 629 | 729 |
| Unit + option 15LS A | 200 | 218 | 236 | 273 | 306 | 336 | 409 | 441 | 496 | 526 | 572 | 611 | 707 |
| Maximum current (Un-10%) ⁽¹⁾ - 30XB | | | | | | | | | | | | | |
| Standard unit A | 221 | 240 | 259 | 301 | 336 | 368 | 450 | 485 | 544 | 576 | 625 | 667 | 773 |
| Unit + option 15LS A | 212 | 231 | 250 | 289 | 324 | 356 | 433 | 467 | 526 | 558 | 607 | 649 | 751 |
| Nominal start-up current ⁽³⁾ - 30XB | | | | | | | | | | | | | |
| Standard unit A | 246 | 246 | 262 | 379 | 480 | 480 | 539 | 564 | 738 | 759 | 759 | 835 | 835 |
| Unit + option 15LS A | 241 | 241 | 257 | 374 | 475 | 475 | 531 | 555 | 730 | 751 | 751 | 826 | 844 |
| Unit + option 25C A | 184 | 177 | 193 | 317 | 411 | 411 | 413 | 438 | 631 | 637 | 637 | 666 | 659 |
| Maximum start-up current(Un) ⁽²⁾ - 30XB | | | | | | | | | | | | | |
| Standard unit A | 275 | 293 | 293 | 408 | 511 | 511 | 618 | 618 | 783 | 813 | 813 | 902 | 952 |
| Unit + option 15LS A | 270 | 288 | 288 | 403 | 506 | 506 | 610 | 609 | 775 | 805 | 805 | 893 | 941 |
| Unit + option 25C A | 213 | 224 | 224 | 346 | 442 | 442 | 492 | 492 | 676 | 691 | 691 | 733 | 756 |

Values obtained at unit continuous maximum operating conditions (data given on the unit nameplate)
 Operating current of the smallest compressor(s) + fan current + locked rotor current or reduced start-up current of the largest compressor.
 Standardised EUROVENT conditions, water-cooled exchanger water inlet/outlet = 12°C/7°C, outdoor air temperature = 35°C.

ELECTRICAL DATA, 30XB-1100 TO 1700

| 30XB | | 1100 | 1200 | 1300 | 1400 | 1500 | 1550 | 1700 |
|--|---------|------|------|----------|---------------|----------|------|------|
| Power circuit supply | | | | | | | | |
| Nominal voltage | V-ph-Hz | | | | 400-3-50 | | | |
| Voltage range | V | | | | 360-440 | | | |
| Control circuit supply | | | | 24 V via | internal trai | nsformer | | |
| Maximum operating input power ⁽¹⁾ - 30X | B | | | | | | | |
| Standard unit | | | | | | | | |
| Circuit 1 ^(a) | kW | 192 | 221 | 263 | 283 | 307 | 445 | 363 |
| Circuit 2 ^(a) | kW | 280 | 307 | 281 | 304 | 307 | 223 | 363 |
| Option 081 | kW | 471 | 527 | 544 | 587 | 613 | | |
| Unit + option 15LS | | | | | | | | |
| Circuit 1 ^(a) | kW | 186 | 214 | 254 | 274 | 296 | 431 | 350 |
| Circuit 2 ^(a) | kW | 271 | 297 | 272 | 295 | 296 | 215 | 350 |
| Option 081 | kW | 457 | 510 | 526 | 568 | 592 | | |
| Power factor at maximum power ⁽¹⁾ - 30X | В | | | | | | | |
| Standard unit | | | | | | | | |
| Displacement Power Factor (Cos Phi) | | 0,87 | 0,87 | 0,87 | 0,87 | 0,87 | 0,87 | 0,88 |
| Unit + option 15LS | | | | | | | | |
| Displacement Power Factor (Cos Phi) | | 0,87 | 0,87 | 0,87 | 0,87 | 0,87 | 0,87 | 0,88 |
| Nominal operating current draw ⁽²⁾ - 30XE | 3 | | | | | | | |
| Standard unit | | | | | | | | |
| Circuit 1 ^(a) | А | 252 | 268 | 340 | 353 | 389 | 542 | 447 |
| Circuit 2 ^(a) | А | 349 | 389 | 353 | 385 | 389 | 271 | 447 |
| Option 081 | A | 600 | 656 | 692 | 737 | 777 | - | - |
| Unit + option 15LS | | | | | | | | |
| Circuit 1 ^(a) | А | 241 | 257 | 324 | 337 | 372 | 518 | 425 |
| Circuit 2 ^(a) | А | 335 | 372 | 337 | 369 | 372 | 259 | 425 |
| Option 081 | А | 576 | 628 | 661 | 706 | 743 | - | - |
| Maximum operating current draw (Un) ⁽¹⁾ | - 30XB | | | | | | | |
| Standard unit | | | | | | | | |
| Circuit 1 ^(a) | А | 319 | 365 | 438 | 468 | 507 | 736 | 598 |
| Circuit 2 ^(a) | А | 464 | 507 | 468 | 503 | 507 | 368 | 598 |
| Option 081 | А | 782 | 871 | 905 | 970 | 1013 | - | - |
| Unit + option 15LS | | | | | | | | |
| Circuit 1 ^(a) | А | 308 | 354 | 422 | 452 | 490 | 712 | 576 |
| Circuit 2 ^(a) | А | 450 | 490 | 452 | 487 | 490 | 356 | 576 |
| Option 081 | А | 758 | 843 | 874 | 939 | 979 | - | - |

 Values obtained at unit continuous maximum operating conditions (data given on the unit nameplate)
 Operating current of the smallest compressor(s) + fan current + locked rotor current or reduced start-up current of the largest compressor.
 Standardised EUROVENT conditions, water-cooled exchanger water inlet/outlet = 12°C/7°C, outdoor air temperature = 35°C.
 When the machines are equipped with two power supplies, circuit 1 supplies the refrigerant circuit A and circuit 2 supplies the refrigerant circuit B or for units 30XB1550 to 1700 units: Circuit 1 supplies circuits A and B, circuit 2 supplies circuits C and D.

ELECTRICAL DATA, 30XB-1100 TO 1700

| 30XB | | 1100 | 1200 | 1300 | 1400 | 1500 | 1550 | 1700 |
|--|---|------|------|------|------|------|------|------|
| Maximum current (Un-10%) ⁽¹⁾ - 30XB | | | | | | | | |
| Standard unit | | | | | | | | |
| Circuit 1 ^(a) | А | 338 | 387 | 474 | 506 | 538 | 780 | 633 |
| Circuit 2 ^(a) | Α | 502 | 538 | 506 | 534 | 538 | 390 | 633 |
| Option 081 | Α | 839 | 924 | 979 | 1039 | 1075 | - | - |
| Unit + option 15LS | | | | | | | • | , |
| Circuit 1 ^(a) | Α | 327 | 376 | 458 | 490 | 521 | 756 | 611 |
| Circuit 2 ^(a) | Α | 488 | 521 | 490 | 518 | 521 | 378 | 611 |
| Option 081 | А | 815 | 896 | 948 | 1008 | 1041 | - | - |
| Nominal start-up current ⁽³⁾ - 30XB | | | | | | | | |
| Standard unit | | | | | | | | |
| Circuit 1 ^(a) | Α | 587 | 587 | 629 | 629 | 629 | 828 | 759 |
| Circuit 2 ^(a) | А | 629 | 629 | 629 | 629 | 629 | 587 | 759 |
| Option 081 | А | 936 | 976 | 982 | 1014 | 1018 | - | - |
| Option 081 & Opt 25c | А | 687 | 702 | 729 | 744 | 744 | - | - |
| Unit + option 15LS | | | | | | | | |
| Circuit 1 ^(a) | А | 587 | 587 | 629 | 629 | 629 | 828 | 751 |
| Circuit 2 ^(a) | А | 629 | 629 | 629 | 629 | 629 | 587 | 751 |
| Option 081 | А | 922 | 959 | 966 | 998 | 1001 | - | - |
| Option 081 & Opt 25c | Α | 674 | 685 | 714 | 729 | 727 | - | - |
| Maximum start-up current(Un) ⁽²⁾ - 30XB | | | | | | | | |
| Standard unit | | | | | | | | |
| Circuit 1 ^(a) | Α | 587 | 587 | 629 | 629 | 629 | 828 | 813 |
| Circuit 2 ^(a) | Α | 629 | 629 | 629 | 629 | 629 | 587 | 813 |
| Option 081 | Α | 1051 | 1094 | 1097 | 1132 | 1136 | - | - |
| Option 081 & Opt 25c | Α | 802 | 820 | 844 | 862 | 862 | - | - |
| Unit + option 15LS | | | | | | | | |
| Circuit 1 ^(a) | Α | 587 | 587 | 629 | 629 | 629 | 828 | 805 |
| Circuit 2 ^(a) | Α | 629 | 629 | 629 | 629 | 629 | 587 | 805 |
| Option 081 | А | 1037 | 1077 | 1081 | 1116 | 1119 | - | - |
| Option 081 & Opt 25c | А | 789 | 803 | 829 | 847 | 845 | - | - |

Values obtained at unit continuous maximum operating conditions (data given on the unit nameplate)
 Operating current of the smallest compressor(s) + fan current + locked rotor current or reduced start-up current of the largest compressor.
 Standardised EUROVENT conditions, water-cooled exchanger water inlet/outlet = 12°C/7°C, outdoor air temperature = 35°C.
 When the machines are equipped with two power supplies, circuit 1 supplies the refrigerant circuit 2 supplies the refrigerant circuit B or for units 30XB1550 to 1700 units: Circuit 1 supplies circuits A and B, circuit 2 supplies circuits C and D.

ELECTRICAL DATA, 30XB WITH OPTION CU/AL HEAT EXCHANGER

| 30XB with option 254 or 255 | | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 750 | 800 | 850 | 900 | 1000 |
|---|--------|------|------|------|------|------|-----------|---------|--------|------|------|------|------|------|
| Power circuit supply | | | | | | | | | | | | | | |
| | -ph-Hz | | | | | | 4 | 00-3-5 | 0 | | | | | |
| Voltage range | V | | | | | | 3 | 60-44 |) | | | | | |
| Control circuit supply | | | | | | 24 V | ′ via int | ernal t | ransfo | rmer | | | | |
| Maximum operating input power ⁽¹⁾ - 30XB | | | | | | | | | | | | | | |
| Standard unit | kW | 127 | 137 | 150 | 173 | 193 | 214 | 259 | 279 | 312 | 331 | 363 | 384 | 446 |
| Unit + option 15LS | kW | 121 | 132 | 144 | 166 | 186 | 207 | 249 | 268 | 301 | 320 | 352 | 373 | 433 |
| Power factor at maximum power ⁽¹⁾ - 30XB | | | | | | | | | | | | | | |
| Standard unit | | | | | | | | | | | | | | |
| Displacement Power Factor (Cos Phi) | | 0,88 | 0,87 | 0,87 | 0,88 | 0,88 | 0,88 | 0,88 | 0,88 | 0,87 | 0,87 | 0,88 | 0,87 | 0,88 |
| Unit + option 15LS | | | | | | | | | | | | | | |
| Displacement Power Factor (Cos Phi) | | 0,88 | 0,87 | 0,87 | 0,88 | 0,88 | 0,88 | 0,88 | 0,88 | 0,87 | 0,87 | 0,88 | 0,87 | 0,88 |
| Nominal operating current draw ⁽²⁾ - 30XB | | | | | | | | | | | | | | |
| Standard unit | А | 151 | 167 | 187 | 211 | 242 | 267 | 327 | 351 | 406 | 427 | 447 | 506 | 542 |
| Unit + option 15LS | А | 142 | 158 | 177 | 199 | 230 | 255 | 310 | 333 | 388 | 409 | 428 | 488 | 521 |
| Maximum operating current draw (Un) ⁽¹⁾ - 30XE | 3 | | | | | | | | | | | | | |
| Standard unit | А | 209 | 227 | 249 | 285 | 318 | 352 | 426 | 459 | 518 | 548 | 598 | 640 | 736 |
| Unit + option 15LS | А | 200 | 218 | 239 | 273 | 306 | 340 | 409 | 441 | 500 | 530 | 579 | 622 | 715 |
| Maximum current (Un-10%) ⁽¹⁾ - 30XB | | | | | | | | | | | | | | |
| Standard unit | А | 221 | 240 | 263 | 301 | 336 | 372 | 450 | 485 | 548 | 580 | 633 | 678 | 780 |
| Unit + option 15LS | А | 212 | 231 | 253 | 289 | 324 | 360 | 433 | 467 | 530 | 562 | 614 | 660 | 759 |
| Nominal start-up current ⁽³⁾ - 30XB | | | | | | | | | | | | | | |
| Standard unit | А | 246 | 246 | 262 | 379 | 480 | 480 | 539 | 564 | 738 | 759 | 759 | 835 | 835 |
| Unit + option 15LS | А | 241 | 241 | 257 | 374 | 475 | 475 | 531 | 555 | 730 | 751 | 751 | 826 | 844 |
| Unit + option 25C | А | 184 | 177 | 193 | 317 | 411 | 411 | 413 | 438 | 631 | 637 | 637 | 666 | 659 |
| Maximum start-up current(Un) ⁽²⁾ - 30XB | | | | | | | | | | | | | | |
| Standard unit | А | 275 | 293 | 293 | 408 | 511 | 511 | 618 | 618 | 783 | 813 | 813 | 902 | 952 |
| Unit + option 15LS | А | 270 | 288 | 288 | 403 | 506 | 506 | 610 | 609 | 775 | 805 | 805 | 893 | 941 |
| Unit + option 25C | А | 213 | 224 | 224 | 346 | 442 | 442 | 492 | 492 | 676 | 691 | 691 | 733 | 756 |

Values obtained at unit continuous maximum operating conditions (data given on the unit nameplate)
 Operating current of the smallest compressor(s) + fan current + locked rotor current or reduced start-up current of the largest compressor.
 Standardised EUROVENT conditions, water-cooled exchanger water inlet/outlet = 12°C/7°C, outdoor air temperature = 35°C.

ELECTRICAL DATA, 30XB WITH OPTION CU/AL HEAT EXCHANGER

| 24 V v 223 263 309 281 531 544 217 254 298 272 515 526 0,87 0,87 0,87 0,87 271 340 392 353 663 692 | 400-3-50 360-440 via internal tran 283 304 587 274 295 568 0,87 0,87 0,87 353 385 | sformer 307 307 613 296 296 296 592 0,87 0,87 | 445 223 - 431 215 - 0,87 | 363 363 - 350 350 - 0,88 |
|---|---|--|--|---|
| 223 263 309 281 531 544 217 254 298 272 515 526 0,87 0,87 0,87 0,87 271 340 392 353 | 360-440 via internal tran 283 304 587 274 295 568 0,87 0,87 | 307 307 613 296 296 592 0,87 | 223 - 431 215 - 0,87 | 363 - 350 350 - |
| 223 263 309 281 531 544 217 254 298 272 515 526 0,87 0,87 0,87 0,87 271 340 392 353 | via internal tran 283 304 587 274 295 568 0,87 0,87 353 | 307 307 613 296 296 592 0,87 | 223 - 431 215 - 0,87 | 363 - 350 350 - |
| 223 263 309 281 531 544 217 254 298 272 515 526 0,87 0,87 0,87 0,87 271 340 392 353 | 283 304 587 274 295 568 0,87 0,87 | 307 307 613 296 296 592 0,87 | 223 - 431 215 - 0,87 | 363 - 350 350 - |
| 309 281 531 544 217 254 298 272 515 526 0,87 0,87 0,87 0,87 271 340 392 353 | 304 587 274 295 568 0,87 0,87 353 | 307 613 296 296 592 0,87 | 223 - 431 215 - 0,87 | 363 - 350 350 - |
| 309 281 531 544 217 254 298 272 515 526 0,87 0,87 0,87 0,87 271 340 392 353 | 304 587 274 295 568 0,87 0,87 353 | 307 613 296 296 592 0,87 | 223 - 431 215 - 0,87 | 363 - 350 350 - |
| 309 281 531 544 217 254 298 272 515 526 0,87 0,87 0,87 0,87 271 340 392 353 | 304 587 274 295 568 0,87 0,87 353 | 307 613 296 296 592 0,87 | 223 - 431 215 - 0,87 | 363 - 350 350 - |
| 531 544 217 254 298 272 515 526 0,87 0,87 0,87 0,87 271 340 392 353 | 587 274 295 568 0,87 0,87 353 | 613 296 296 592 0,87 | - 431 215 - 0,87 | - 350 350 - |
| 217 254 298 272 515 526 0,87 0,87 0,87 0,87 271 340 392 353 | 274 295 568 0,87 0,87 353 | 296 296 592 0,87 | 431 215 - 0,87 | 350 350 - |
| 298 272 515 526 0,87 0,87 0,87 0,87 271 340 392 353 | 295 568 0,87 0,87 353 | 296 592 0,87 | 215 - 0,87 | 350 |
| 298 272 515 526 0,87 0,87 0,87 0,87 271 340 392 353 | 295 568 0,87 0,87 353 | 296 592 0,87 | 215 - 0,87 | 350 |
| 515 526 0,87 0,87 0,87 0,87 271 340 392 353 | 568 0,87 0,87 353 | 592 0,87 | - 0,87 | - |
| 0,87 0,87 0,87 0,87 271 340 392 353 | 0,87 | 0,87 | | - 0,88 |
| 0,87 0,87 271 340 392 353 | 0,87 | | | 0,88 |
| 0,87 0,87 271 340 392 353 | 0,87 | | | 0,88 |
| 0,87 0,87 271 340 392 353 | 0,87 | | | 0,88 |
| 271 340 392 353 | 353 | 0,87 | 0,87 | |
| 271 340 392 353 | 353 | 0,87 | 0,87 | |
| 392 353 | | | | 0,88 |
| 392 353 | | | | |
| 392 353 | | | | |
| | 385 | 389 | 542 | 447 |
| 663 692 | | 389 | 271 | 447 |
| | 737 | 777 | - | - |
| | | | | |
| 261 324 | 337 | 372 | 518 | 425 |
| 375 337 | 369 | 372 | 259 | 425 |
| 636 661 | 706 | 743 | | |
| | | | | |
| | | | | |
| 368 438 | 468 | 507 | 736 | 598 |
| 510 468 | 503 | 507 | 368 | 598 |
| 878 905 | 970 | 1013 | | |
| | | | l | |
| 358 422 | 452 | 490 | 712 | 576 |
| 493 452 | 487 | 490 | 356 | 576 |
| 851 874 | 939 | 979 | | |
| | | | ! | |
| | | | | |
| 390 474 | 506 | 538 | 780 | 633 |
| 541 506 | 534 | 538 | 390 | 633 |
| 931 979 | 1039 | 1075 | | |
| 0.0 | | | | |
| 380 458 | 490 | 521 | 756 | 611 |
| 524 490 | 518 | 521 | 378 | 611 |
| 904 948 | 1008 | 1041 | | |
| 0.0 | | | l | |
| - | | | | |
| 587 629 | 629 | 629 | 828 | 759 |
| 629 629 | 629 | 629 | 587 | 759 |
| 976 982 | 1014 | 1018 | | |
| J.J. 002 | | | | |
| | 1 | , | l | |
| 702 729 | 629 | 629 | 828 | 751 |
| 702 729 | | | | 751 |
| 702 729 587 629 | | | 507 | |
| 702 729 587 629 629 629 | | | | |
| 702 729 587 629 629 629 959 966 | | 121 | | |
| | 702 729 587 629 629 629 959 966 685 714 on the unit namepla | 702 729 744 587 629 629 629 629 629 959 966 998 685 714 729 on the unit nameplate) urrent or reduced start-up current of the start-up current of | 702 729 744 744 587 629 629 629 629 629 629 629 959 966 998 1001 685 714 729 727 on the unit nameplate) urrent or reduced start-up current of the largest context et = 12°C/7°C, outdoor air temperature = 35°C. | 702 729 744 744 587 629 629 629 828 629 629 629 587 959 966 998 1001 685 714 729 727 on the unit nameplate) urrent of the largest compressor. |

ELECTRICAL DATA, 30XB WITH OPTION CU/AL HEAT EXCHANGER

| 30XB with option 254 or 255 | | 1100 | 1200 | 1300 | 1400 | 1500 | 1550 | 1700 |
|--|---|------|------|------|------|------|------|------|
| Maximum start-up current(Un) ⁽²⁾ - 30XB | | | | | | | | |
| Standard unit | | | | | | | | |
| Circuit 1 ^(a) | Α | 587 | 587 | 629 | 629 | 629 | 828 | 813 |
| Circuit 2 ^(a) | Α | 629 | 629 | 629 | 629 | 629 | 587 | 813 |
| Option 081 | Α | 1051 | 1094 | 1097 | 1132 | 1136 | | |
| Option 081 & Opt 25c | А | 802 | 820 | 844 | 862 | 862 | | |
| Unit + option 15LS | | | | | | | | |
| Circuit 1 ^(a) | Α | 587 | 587 | 629 | 629 | 629 | 828 | 805 |
| Circuit 2 ^(a) | А | 629 | 629 | 629 | 629 | 629 | 587 | 805 |
| Option 081 | А | 1037 | 1077 | 1081 | 1116 | 1119 | | |
| Option 081 & Opt 25c | А | 789 | 803 | 829 | 847 | 845 | | |

(2) Operating current of the smallest compressor(s) + fan current + locked rotor current or reduced start-up current of the largest compressor.

(a) When the machines are equipped with two power supplies, circuit 1 supplies the refrigerant circuit A and circuit 2 supplies the refrigerant circuit B or for units 30XB1550 to 1700 units: Circuit 1 supplies circuits A and B, circuit 2 supplies circuits C and D.

ELECTRICAL DATA

Electrical data notes and operating conditions for 30XB units:

- 30XB 250 to 1000 units have a single power connection point; 30XB 1100 to 1700 units have two connection points.
- The control box includes the following standard features:
- One general disconnect switch per circuit
- Starter and motor protection devices for each compressor, the fan(s) and the pump
- Control devices
- Field connections:
- All connections to the system and the electrical installations must be in full accordance with all applicable local codes.
- The Carrier 30XB units are designed and built to ensure conformance with these codes. The recommendations of European standard EN 60204-1 (corresponds to IEC 60204-1) (machine safety - electrical machine components - part 1: General regulations) are specifically taken into account, when designing the electrical equipment.

IMPORTANT:

- Generally the recommendations of IEC 60364 are accepted as compliance with the requirements of the installation regulations.
- Conformance with EN 60204 is the best means of ensuring compliance with the Machines Directive ~ 1.5.1.
- Annex B of EN 60204-1 describes the electrical characteristics used for the operation of the machines.
- 1. Environment* . Environment as classified in EN 60364 (corresponds to IEC 60364):
- Outdoor installation*
- Ambient temperature range: from -20°C to +55°C**
- Altitude less than or equal to 2000 m (for hydraulic module, see paragraph 4.7 in the IOM)
- Presence of hard solids, class AE3 (no significant dust present)*
- Presence of corrosive and polluting substances, class AF1 (negligible)
 Units shall not be located in places open to all persons, which can include
- children. 2. Compatibility for low-frequency conducted disturbances according to
- EC61000-2-2 and to class 2 levels per IEC61000-2-4 standard: - Power supply frequency variation : +-2Hz
- Phase imbalance : 2%
- Total Voltage Harmonic Distortion (THDV) : 8%**
- The neutral (N) line must not be connected directly to the unit (if necessary use a transformer).

- 4. Overcurrent protection of the power supply conductors is not provided with the unit.
- The factory.installed disconnect switch(es)/circuit breaker(s) is (are) of a type suitable for power interruption in accordance with EN 60947-3 (corresponds to IEC 60947-3).
- 6. The units are designed for simplified connection on TN(s) networks (IEC 60364). For IT networks provide a local earth and consult competent local organisations to complete the electrical installation. Units delivered with variable frequency drive(s) (options : 28, 17) are not compatible with IT network. 30XB units are designed to use for domestic / residential and industrial environments:

Machines that are not equipped with variable frequency drive(s) are in accordance with the codes :

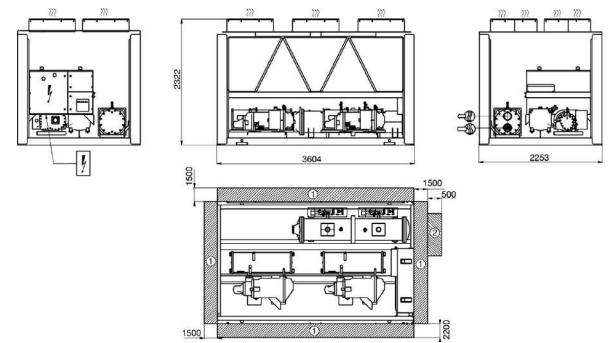
- 61000-6-3: Generic standards Standard emission for residential, commercial and light industry.
- 61000-6-2: Generic standards Immunity for industrial environments.
 Machines that are equipped with variable frequency drive(s) (options 28, 17) are in accordance with the codes
- 61000-6-4: Generic standards Emission standard for industrial environments.
- 61000-6-2: Generic standards Immunity for industrial environments.
- Leakage currents: If protection by monitoring the leakage currents is necessary to ensure the safety of the installation, the presence of circuitry with DC component as well as additional leakage currents introduced by the use of variable frequency drive(s) in the unit must be considered (options 28, 17). In particular these protection devices shall be
 - Suitable for protection of circuitry with AC and DC components
- Of reinforced immunity types and have a threshold not lower than 150mA. • Capacitors that are integrated as part of the option 231 can generate electrical
- disturbances in the installation the unit is connected to. Presence of these capacitors must be considered during the electrical study prior to the start-up.

NOTE: If particular aspects of an actual installation do not conform to the conditions described above, or if there are other conditions which should be considered, always contact your local Carrier representative.

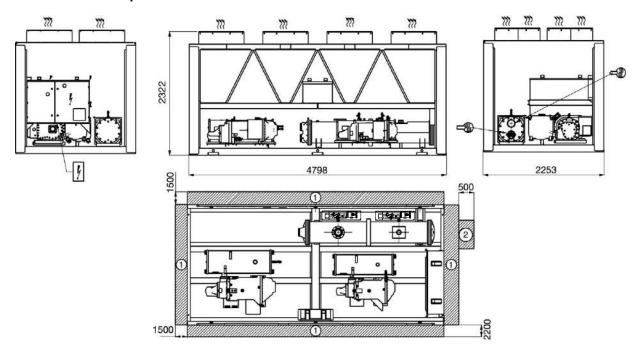
- * The required protection level for this class is IP43BW (according to reference document IEC 60529). All 30XB units are protected to IP44CW and fulfil this protection condition.
- **These limits are modified for machines equipped with option/QM 231: Maximum ambiant temperature : 45°C Total Voltage harmonic distortion : 3%

30XB250 to 350

30XB250 to 300 with option 254/255



30XB400 to 500 30XB350 to 450 with option 254/255

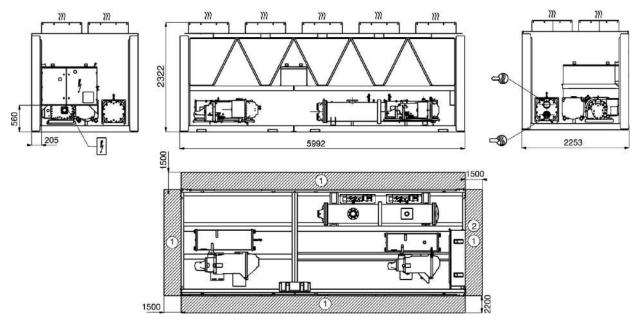


Legend

All dimensions are given in mm.

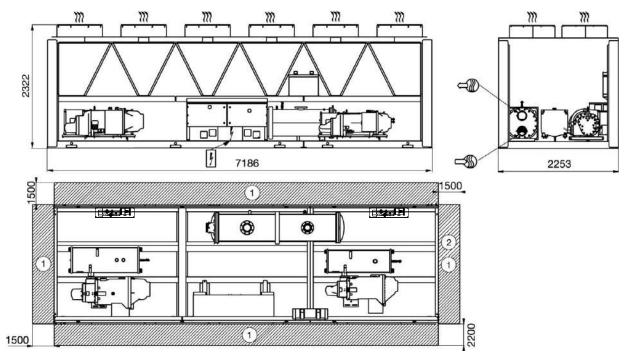
- (1) Required clearances for maintenance (see note)
- 2 Recommended space for evaporator tube removal
- Water inlet for standard unit for options 100A, 100C, 107 refer to the certified drawing.
- Water outlet for standard unit for options 100A, 100C, 107 refer to the certified drawing.
- $\left \rangle \right \rangle \right \rangle$ Air outlet do not obstruct
- 4 Power supply and control connection

- Drawings are not contractually binding.
- Before designing an installation, consult the certified dimensional drawings, available on request.
- If the installation includes several units or if this (these) is (are) close to walls, please refer to chapters 3.13 - "Multiple chiller installation" and 3.14 -"Distance to the wall" of the installation manual to determine the space required



30XB500 with options 254/255, 50 (heat recovery) or 118A (free cooling)

30XB600 to 900, 30XB600 to 700 with option 254/255



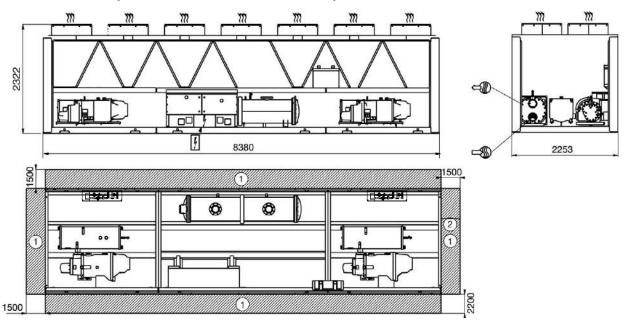
Legend

All dimensions are given in mm.

- (1) Required clearances for maintenance (see note)
- 2 Recommended space for evaporator tube removal
- Water inlet for standard unit for options 100A, 100C, 107 refer to the certified drawing.
- Water outlet for standard unit for options 100A, 100C, 107 refer to the certified drawing.
- $\left < \right > \right > \left < \right >$ Air outlet do not obstruct
- Power supply and control connection

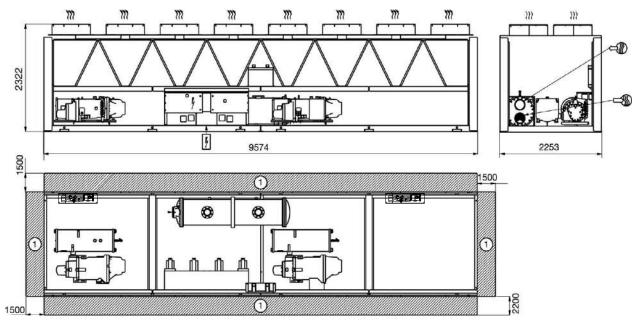
- Drawings are not contractually binding.
- Before designing an installation, consult the certified dimensional drawings, available on request.
 If the installation includes several units or if this
- the installation includes several units of in this (these) is (are) close to walls, please refer to chapters 3.13 "Multiple chiller installation" and 3.14
 "Distance to the wall" of the installation manual to determine the space required

30XB1000, 30XB750 to 850 with option 254/255, 30XB850 & 900 with options 50 or 118A, 30XB900 with option 119



30XB900 option 254/255,

30XB1000 with options 50 (heat recovery) & 118 (free cooling) & Option 119 (high efficiency)



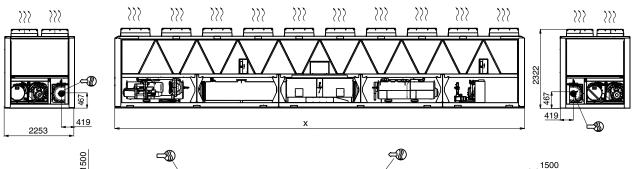
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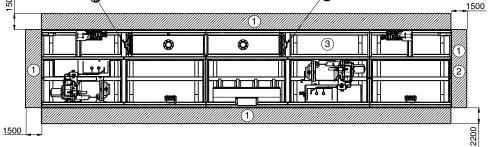
All dimensions are given in mm.

- (1) Required clearances for maintenance (see note)
- 2 Recommended space for evaporator tube removal
- Water inlet for standard unit for options 100A, 100C, 107 refer to the certified drawing.
- Water outlet for standard unit for options 100A, 100C, 107 refer to the certified drawing.
- $\left \rangle \right \rangle \right \rangle$ Air outlet do not obstruct
- Power supply and control connection

- Drawings are not contractually binding.
- Before designing an installation, consult the certified dimensional drawings, available on request.
- If the installation includes several units or if this (these) is (are) close to walls, please refer to chapters 3.13 - "Multiple chiller installation" and 3.14 - "Distance to the wall" of the installation manual to determine the space required

30XB1100 to 1400

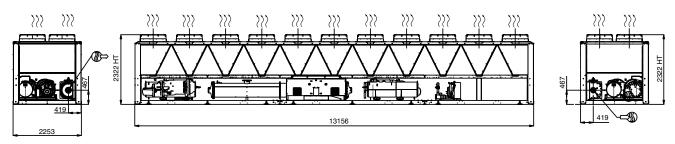


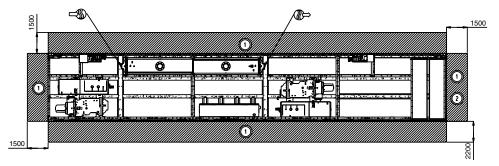


30XB1100 : X = 9574 30XB1200 : X = 10770

30XB1100 option 119 or 254/255, 30XB1200 option 254/255, 30XB1300, 30XB1400 : X = 11962

30XB1500



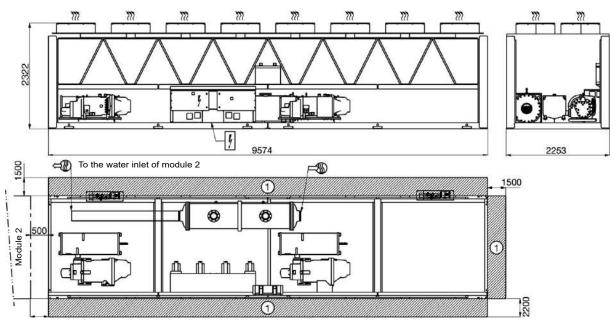




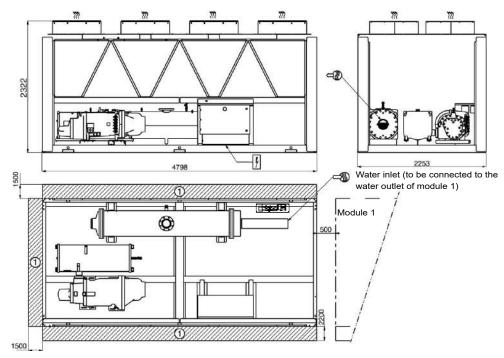
- All dimensions are given in mm.
- 1 Required clearances for maintenance (see note)
- 2 Recommended space for evaporator tube removal
- Water inlet for standard unit for options 100A, 100C, 107 refer to the certified drawing.
- Water outlet for standard unit for options 100A, 100C, 107 refer to the certified drawing.
- $\left \rangle \right \rangle \right \rangle$ Air outlet do not obstruct
- Power supply and control connection

- Drawings are not contractually binding.
- Before designing an installation, consult the certified dimensional drawings, available on request.
- If the installation includes several units or if this (these) is (are) close to walls, please refer to chapters 3.13 - "Multiple chiller installation" and 3.14 - "Distance to the wall" of the installation manual to determine the space required

30XB1550 module 1/2



30XB1550 module 2/2



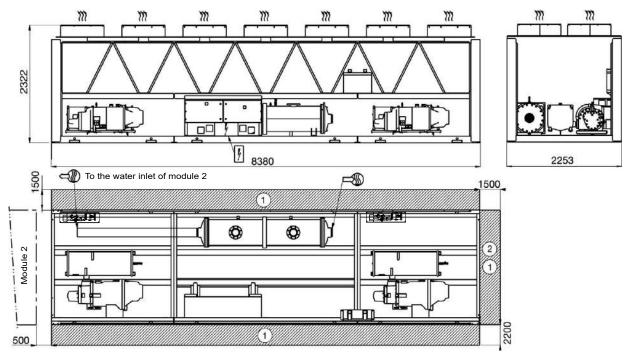
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All dimensions are given in mm.

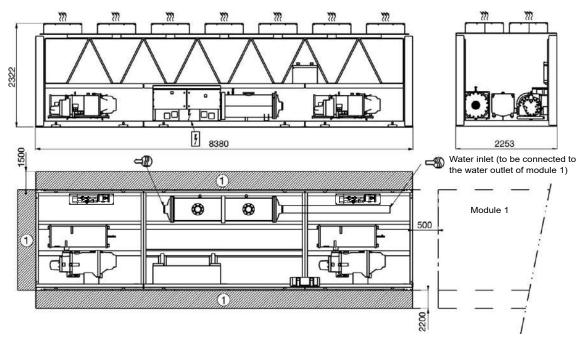
- 1 Required clearances for maintenance (see note)
- (2) Recommended space for evaporator tube removal
- Water inlet for standard unit for options 100A, 100C, 107 refer to the Water outlet for standard unit - for options 100A, 100C, 107 refer to the certified drawing.
- certified drawing.
- $\rangle\rangle\rangle$ Air outlet do not obstruct
- Power supply and control connection

- Drawings are not contractually binding.
- Before designing an installation, consult the certified dimensional drawings, available on request.
- If the installation includes several units or if this (these) is (are) close to walls, please refer to chapters 3.13 - "Multiple chiller installation" and 3.14 - "Distance to the wall" of the installation manual to determine the space required

30XB1700 module 1/2



30XB1700 module 2/2



Legend

All dimensions are given in mm.

- $\textcircled{1} \quad \text{Required clearances for maintenance (see note)}$
- 2 Recommended space for evaporator tube removal
- Water inlet for standard unit for options 100A, 100C, 107 refer to the
- certified drawing.
 Water outlet for standard unit for options 100A, 100C, 107 refer to the certified drawing.
- $\rangle\rangle\rangle$ Air outlet do not obstruct
- Power supply and control connection

- Drawings are not contractually binding.
- Before designing an installation, consult the certified dimensional drawings, available on request.
- If the installation includes several units or if this (these) is (are) close to walls, please refer to chapters 3.13 - "Multiple chiller installation" and 3.14 - "Distance to the wall" of the installation manual to determine the space required