

A vertical white rectangular card with rounded corners, centered against a dark background of glowing particles.

EMIBYTE

CATALOGUE

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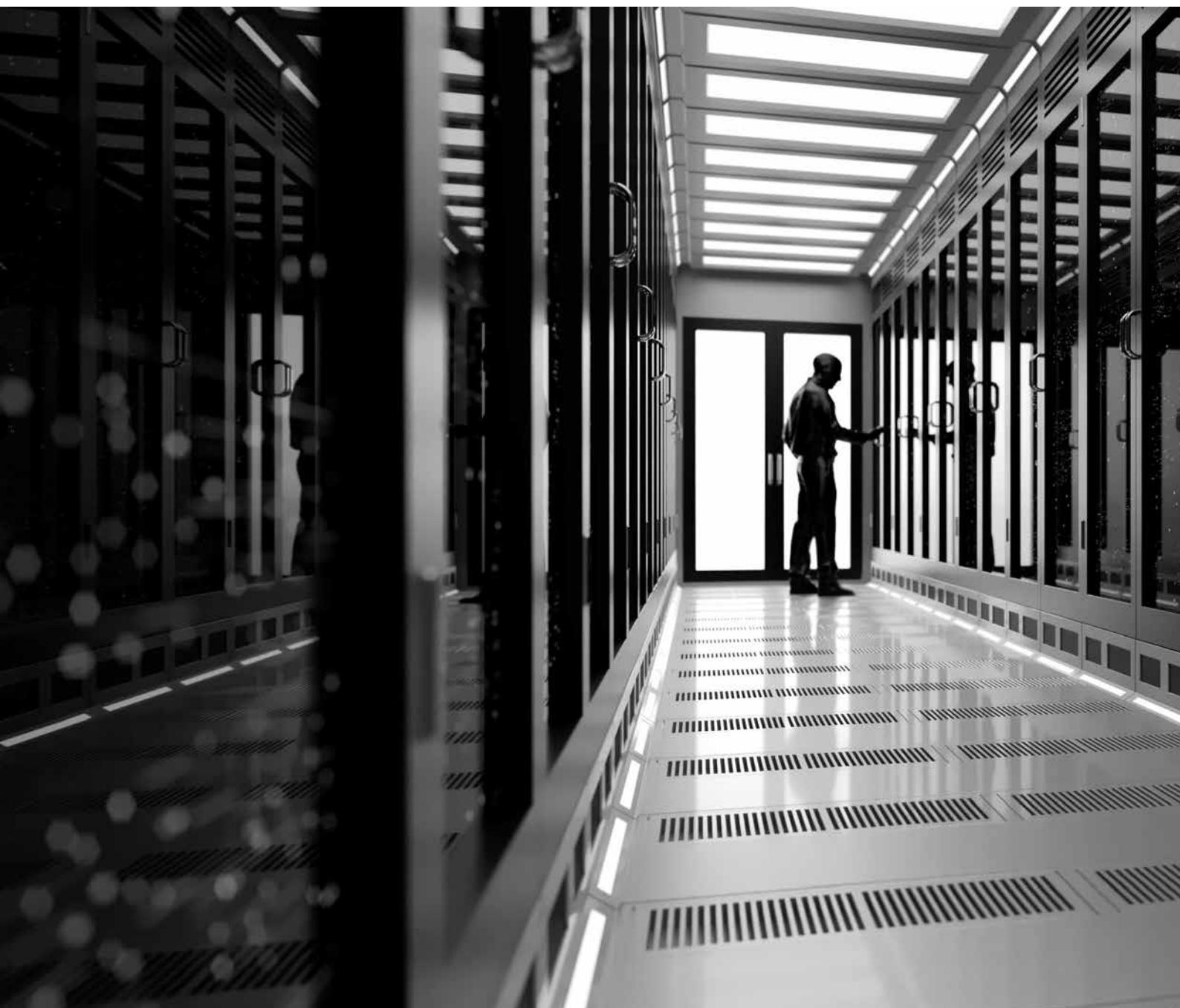
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Notes

EMIBYTE

HIGH PRECISION COOLING SOLUTIONS FOR DATA CENTER AND TECHNOLOGICAL ENVIRONMENTS



POWERED BY

EMICON
CLIMATE SOLUTIONS

Mission critical cooling & Thermal management has been Emicon core focus since 1984 Our range of precision air conditioning solutions have been designed for a wide range of applications where close control, high precision cooling is essential, including data centres, telecom switching stations, theatres, museum and high technological density environments in general Throughout its history, the data center and server room has consistently been asked to do more handle more capacity, deliver more availability and achieve more efficiency Thanks to the resourcefulness and dedication of the people responsible for managing these business-critical facilities, they have largely responded The question now is can they continue to do so within the existing paradigms, or are we on the verge of fundamental changes in data center technologies, designs and processes?



KNOWLEDGE AND CONSOLIDATED ITALIAN QUALITY AT THE CENTER OF YOUR DATA

The result to this main question nowadays is EMICON EMIBYTE , the new partner in IT cooling with his new series of products entirely designed and produced in the Emicon factories, Reliable, integrated cooling, from chiller and computer room air conditioners, tackles the issues head on to lower costs and reduce downtime risk We provide all levels of heat removal for different sized rooms and applications Whether you're building new, retrofitting, or modernizing, achieve a healthy data center environment with our EMIBYTE cooling solutions



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DX A

DIRECT EXPANSION UNIT, AIR COOLED WITH ON/OFF COMPRESSOR

Close control air-conditioners for vertical installations and cooling only, with optional heating by means of heating element, optional humidifier and dehumidifier for precise temperature and humidity control. Particularly suitable for precision air conditioning in servers and IT rooms and all technological applications in general. Units fitted with EC Inverter fans, up flow or downflow External air condenser Emibyte equipment are fully designed and tested in the Emicon validation laboratories.

CONTROL

Semi-graphic display 132x64 pixel, programmable software, record storage of 200 alarms, general alarm, automatic reset after blackout, integral LAN system, standby management, automatic rotation, serious alarms, operating contemporaneity, clock function modality

FEATURES

Unit for installing inside or outside the room to be air-conditioned. Maximum resistance to rust thanks to the galvanized sheet metal structures and panels with bevelled corner uprights to enhance its unique, clean and attractive design. The panels are lined with sound-insulating material to limit noise levels. New generation EC Inverter centrifugal fan made in high class technological material with 5 backward curved blades. Impeller with bionic 3D profile thanks to an innovative design in the form of a blade geometry with specific buckling. Special V-shaped rear edge allows a wide characteristic field. Together with the rotating diffuser that opens, exceptional performances of the impeller and the entire system are thus obtained. In combination with the undulated surface of the blade surface, a diffused sound emission takes place which guarantees a very low noise level. Standard COARSE 60% (ISO EN 16890) EU4/G4 filtering section installed. The filter is self-extinguishing. The microprocessor controls the compressor activation times thereby regulating the cooling capacity, it also controls the operating alarms with the possibility of interfacing to supervisor and remote-servicing systems. Refrigerant circuit consisting of Electronic Expansion Valve, sight glass filter dryer on liquid line, pressure transducer with indication, control and protection functions on low and high refrigerant pressure, high pressure safety switch with manual reset, liquid receiver with accessories.

VERSIONS

D - DOWNGRAPHIC DISPLAY
U - UP FLOW AIR SUPPLY
F - FRONT SUPPLY (DISPLACEMENT)
B - UP SUPPLY, REAR RETURN

ACCESSORIES

- REMOTE USER TERMINAL
- ELECTRIC HEATING COIL
- HUMIDIFIER
- VIBRATION ISOLATION FRAME WITH RUBBER MOUNTINGS
- INTERFACE ELECTRONIC BOARD
- AIR DISTRIBUTION PLENUM
- CONDENSING PUMP DISCHARGE
- INTERFACE CARD FOR TCP/IP PROTOCOL
- TOUCH SCREEN GRAPHIC TERMINAL
- POWER SUPPLY DIFFERENT FROM STANDARD

ALSO AVAILABLES

DX H Water cooled air expansion with on/off compressors
DX AF Air cooled direct expansion with Dual-Fluid
DX HF Water cooled direct expansion with Dual-Fluid
DX E Evaporating with external condensing unit

EMIBYTE

30 | 62

DXi

DIRECT EXPANSION UNIT, AIR COOLED WITH INVERTER COMPRESSOR

Close control air-conditioners for vertical installations and cooling only, with optional heating by means of heating element, optional humidifier and dehumidifier for precise temperature and humidity control. Particularly suitable for precision air conditioning in servers and IT rooms and all technological applications in general. The INVERTER compressor allows the cooling capacity modulation according to the real internal load, particularly efficient at the partial loads, optimizing the power absorbed and eliminating the starting current. Electronic expansion valve and EC Inverter fans are fitted in this model as standard. External air condenser Emibyte equipment are fully designed and tested in the Emicon validation laboratories.

CONTROL

Semi-graphic display 132x64 pixel, programmable software, record storage of 200 alarms, general alarm, automatic reset after blackout, integral LAN system, standby management, automatic rotation, serious alarms, operating contemporaneousness, clock function modality

VERSIONS

D - DOWNFLOW AIR SUPPLY
U - UP FLOW AIR SUPPLY
F - FRONT SUPPLY (DISPLACEMENT)
B - UP SUPPLY, REAR RETURN

FEATURES

Unit for installing inside or outside the room to be air-conditioned. Maximum resistance to rust thanks to the galvanized sheet metal structures and panels with bevelled corner uprights to enhance its unique, clean and attractive design. The panels are lined with sound-insulating material to limit noise levels. Last generation of BLDC INVERTER compressor designed to deliver maximum cooling efficiency when you need it most. This latest variable speed compressor technology allows CRAC system manufacturers as Emicon to achieve superior performance. New generation EC Inverter centrifugal fan made in high class technological material with 5 backward curved blades. Impeller with bionic 3D profile thanks to an innovative design in the form of a blade geometry with specific buckling. Special V-shaped rear edge allows a wide characteristic field. Together with the rotating diffuser that opens, exceptional performances of the impeller and the entire system are thus obtained. In combination with the undulated surface of the blade surface, a diffused sound emission takes place which guarantees a very low noise level.

Standard COARSE 60% (ISO EN 16890) EU4/G4 filtering section is fitted. The filter is self-extinguishing. The microprocessor controls the compressor activation times thereby regulating the cooling capacity, it also controls the operating alarms with the possibility of interfacing to supervisor and remote-servicing systems.

Refrigerant circuit consisting of Electronic Expansion Valve, sight glass filter dryer on liquid line, pressure transducer with indication, control and protection functions on low and high refrigerant pressure, high pressure safety switch with manual reset, liquid receiver with accessories.

ACCESSORIES

- REMOTE USER TERMINAL
- ELECTRIC HEATING COIL
- HUMIDIFIER
- VIBRATION ISOLATION FRAME WITH RUBBER MOUNTINGS
- INTERFACE ELECTRONIC BOARD
- AIR DISTRIBUTION PLENUM
- CONDENSING PUMP DISCHARGE
- INTERFACE CARD FOR TCP/IP PROTOCOL
- TOUCH SCREEN GRAPHIC TERMINAL
- POWER SUPPLY DIFFERENT FROM STANDARD

DXi HF

DIRECT EXPANSION UNIT, WATER COOLED UNIT WITH ADDITIONAL FREECOOLING COIL & INVERTER

Close control air-conditioners for vertical installations and cooling only, with optional heating by means of heating element, optional humidifier and dehumidifier for precise temperature and humidity control. Particularly suitable for precision air conditioning in servers and IT rooms and all technological applications in general. Direct expansion FREE-COOLING unit with INVERTER compressor is water cooled and it has to be connected to a remote dry cooler. The INVERTER compressor allows the cooling capacity modulation according to the real internal load, particularly efficient at the partial loads and optimizing the power absorbed and eliminating the start current. Units fitted with electronic expansion valve and EC INVERTER fans, upflow or downflow.

CONTROL

Semi-graphic display 132x64 pixel, programmable software, record storage of 200 alarms, general alarm, automatic reset after blackout, integral LAN system, standby management, automatic rotation, serious alarms, operating contemporaneously, clock function modality

VERSIONS

D - DOWNFLOW AIR SUPPLY
U - UP FLOW AIR SUPPLY
F - FRONT SUPPLY (DISPLACEMENT)
B - UP SUPPLY, REAR RETURN



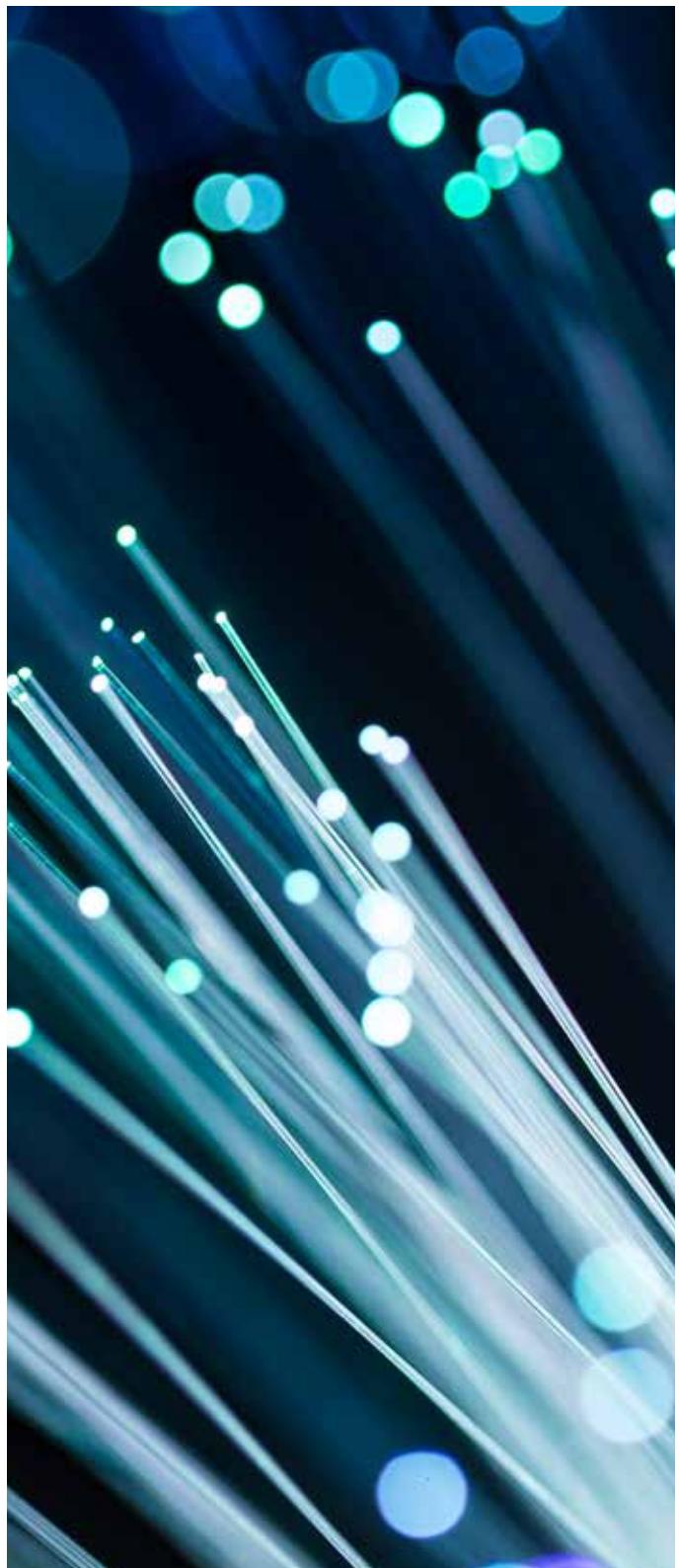
FEATURES

Unit for installing inside or outside the room to be air-conditioned. Maximum resistance to rust thanks to the galvanized sheet metal structures and panels with bevelled corner uprights to enhance its unique, clean and attractive design. The panels are lined with sound-insulating material to limit noise levels. Last generation of BLDC INVERTER compressor designed to deliver maximum cooling efficiency when you need it most. This latest variable speed compressor technology allows CRAC system manufacturers as Emicon to achieve superior performance. New generation EC Inverter centrifugal fan made in high class technological material with 5 backward curved blades. Impeller with bionic 3D profile thanks to an innovative design in the form of a blade geometry with specific buckling. Special V-shaped rear edge allows a wide characteristic field. Together with the rotating diffuser that opens, exceptional performances of the impeller and the entire system are thus obtained. In combination with the undulated surface of the blade surface, a diffused sound emission takes place which guarantees a very low noise level. Standard COARSE 60% (ISO EN 16890) EU4/G4 filtering section is fitted. The filter

is self-extinguishing. The microprocessor controls the compressor activation times thereby regulating the cooling capacity, it also controls the operating alarms with the possibility of interfacing to supervisor and remote-servicing systems.

Refrigerant circuit consisting of Electronic Expansion Valve, sight glass filter dryer on liquid line, pressure transducer with indication, control and protection functions on low and high refrigerant pressure, high pressure safety switch with manual reset, liquid receiver with accessories.

Thanks to the double coil (Free-cooling water and Direct Expansion) the unit provides the highest saving match with full availability of the DX solution. The usage of Free cooling coil and the BLDC Inverter compressor allows maximizing the saving in mixed mode operation, so whenever the free-cooling is not able to fully take the load the compressors can work just to complete the missing cooling needs. Therefore Emicon DXI-HF can provide extremely high energy saving granting the highest availability of the application.



ACCESSORIES

- REMOTE USER TERMINAL
- ELECTRIC HEATING COIL
- HUMIDIFIER
- VIBRATION ISOLATION FRAME WITH RUBBER MOUNTINGS
- INTERFACE ELECTRONIC BOARD
- AIR DISTRIBUTION PLENUM
- CONDENSING PUMP DISCHARGE
- INTERFACE CARD FOR TCP/IP PROTOCOL
- TOUCH SCREEN GRAPHIC TERMINAL
- POWER SUPPLY DIFFERENT FROM STANDARD

DXi.H

DIRECT EXPANSION WATER COOLED UNIT WITH INVERTER COMPRESSOR

Close control air-conditioners for vertical installations and cooling only, with optional heating by means of heating element, optional humidifier and dehumidifier for precise temperature and humidity control. Particularly suitable for precision air conditioning in servers and IT rooms and all technological applications in general. The INVERTER compressor allows the cooling capacity modulation according to the real internal load, particularly efficient at the partial loads, optimizing the power absorbed and eliminating the starting current. Electronic expansion valve and EC Inverter fans are fitted in this model as standard. External air condenser Emibyte equipment are fully designed and tested in the Emicon validation laboratories.

CONTROL

Semi-graphic display 132x64 pixel, programmable software, record storage of 200 alarms, general alarm, automatic reset after blackout, integral LAN system, standby management, automatic rotation, serious alarms, operating contemporaneity, clock function modality

VERSIONS

D - DOWNTOWNS AIR SUPPLY
U - UP FLOW AIR SUPPLY
F - FRONT SUPPLY (DISPLACEMENT)
B - UP SUPPLY, REAR RETURN

FEATURES

Unit for installing inside or outside the room to be air-conditioned. Maximum resistance to rust thanks to the galvanized sheet metal structures and panels with bevelled corner uprights to enhance its unique, clean and attractive design. The panels are lined with sound-insulating material to limit noise levels. Last generation of BLDC INVERTER compressor designed to deliver maximum cooling efficiency when you need it most. This latest variable speed compressor technology allows CRAC system manufacturers as Emicon to achieve superior performance. New generation EC Inverter centrifugal fan made in high class technological material with 5 backward curved blades. Impeller with bionic 3D profile thanks to an innovative design in the form of a blade geometry with specific buckling. Special V-shaped rear edge allows a wide characteristic field. Together with the rotating diffuser that opens, exceptional performances of the impeller and the entire system are thus obtained. In combination with the undulated surface of the blade surface, a diffused sound emission takes place which

guarantees a very low noise level. Standard COARSE 60% (ISO EN 16890) EU4/G4 filtering section is fitted. The filter is self-extinguishing. The microprocessor controls the compressor activation times thereby regulating the cooling capacity; it also controls the operating alarms with the possibility of interfacing to supervisor and remote-servicing systems. Refrigerant circuit consisting of Electronic Expansion Valve, sight glass filter dryer on liquid line, pressure transducer with indication, control and protection functions on low and high refrigerant pressure, high pressure safety switch with manual reset, liquid receiver with accessories.

The condensation heat is disposed of in an internal plate heat exchanger, connected in turn to a water circuit. The condensation water can derive from a well, local water network or closed circuits such as evaporative towers and / or dry coolers.



DXi AF

DIRECT EXPANSION AIR COOLED UNIT WITH ADDITIONAL FREECOOLING COIL, INVERTER COMPRESSOR

Close control air-conditioners for vertical installations and cooling only, with optional heating by means of heating element, optional humidifier and dehumidifier for precise temperature and humidity control. Particularly suitable for precision air conditioning in servers and IT rooms and all technological applications in general. Direct expansion FREE-COOLING unit with INVERTER compressor is water cooled and it has to be connected to a remote dry cooler. The INVERTER compressor allows the cooling capacity modulation according to the real internal load, particularly efficient at the partial loads and optimizing the power absorbed and eliminating the start current. Units fitted with electronic expansion valve and EC INVERTER fans, upflow or downflow.

CONTROL

Semi-graphic display 132x64 pixel, programmable software, record storage of 200 alarms, general alarm, automatic reset after blackout, integral LAN system, standby management, automatic rotation, serious alarms, operating contemporaneity, clock function modality

VERSIONS

D - DOWNSUPPLY
U - UP FLOW AIR SUPPLY
F - FRONT SUPPLY (DISPLACEMENT)
B - UP SUPPLY, REAR RETURN



FEATURES

Unit for installing inside or outside the room to be air-conditioned. Maximum resistance to rust thanks to the galvanized sheet metal structures and panels with bevelled corner uprights to enhance its unique, clean and attractive design. The panels are lined with sound-insulating material to limit noise levels. Last generation of BLDC INVERTER compressor designed to deliver maximum cooling efficiency when you need it most. This latest variable speed compressor technology allows CRAC system manufacturers as Emicon to achieve superior performance. New generation EC Inverter centrifugal fan made in high class technological material with 5 backward curved blades. Impeller with bionic 3D profile thanks to an innovative design in the form of a blade geometry with specific buckling. Special V-shaped rear edge allows a wide characteristic field. Together with the rotating diffuser that opens, exceptional performances of the impeller and the entire system are thus obtained. In combination with the undulated surface of the blade surface, a diffused sound emission takes place which guarantees a very low noise level. Standard COARSE 60% (ISO EN 16890) EU4/G4 filtering section is fitted. The filter

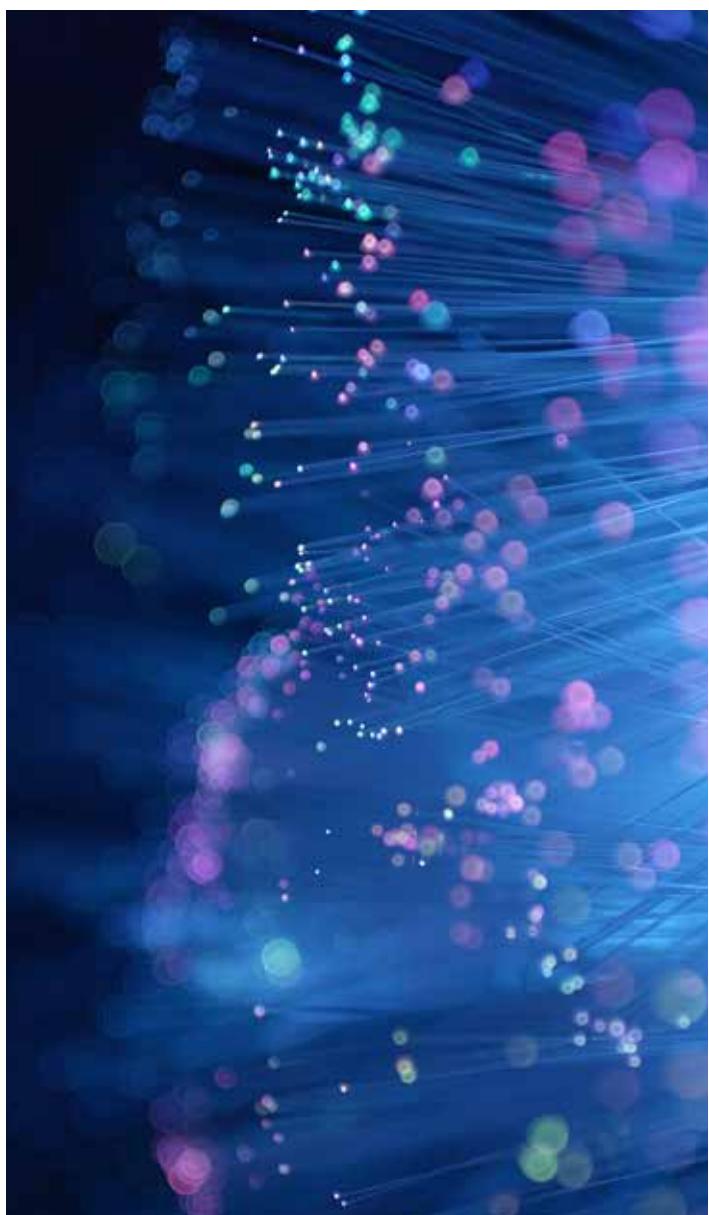
is self-extinguishing. The microprocessor controls the compressor activation times thereby regulating the cooling capacity, it also controls the operating alarms with the possibility of interfacing to supervisor and remote-servicing systems.

Refrigerant circuit consisting of Electronic Expansion Valve, sight glass filter dryer on liquid line, pressure transducer with indication, control and protection functions on low and high refrigerant pressure, high pressure safety switch with manual reset, liquid receiver with accessories.

Thanks to the double coil (Free-cooling water and Direct Expansion) the unit provides the highest saving match with full availability of the DX solution. The usage of Free cooling coil and the BLDC Inverter compressor allows maximizing the saving in mixed mode operation, so whenever the free-cooling is not able to fully take the load the compressors can work just to complete the missing cooling needs. Therefore Emicon DXI-HF can provide extremely high energy saving granting the highest availability of the application.

ACCESSORIES

- REMOTE USER TERMINAL
- ELECTRIC HEATING COIL
- HUMIDIFIER
- VIBRATION ISOLATION FRAME WITH RUBBER MOUNTINGS
- INTERFACE ELECTRONIC BOARD
- AIR DISTRIBUTION PLENUM
- CONDENSING PUMP DISCHARGE
- INTERFACE CARD FOR TCP/IP PROTOCOL
- TOUCH SCREEN GRAPHIC TERMINAL
- POWER SUPPLY DIFFERENT FROM STANDARD



WU

WATER COOLED UNIT

Ductable close control air-conditioners for vertical installation and cooling only, with optional heating by means of heating element, optional humidifier and dehumidifier for precise temperature and humidity control. Particularly suitable for precision air conditioning in servers and IT rooms and all technological applications in general. Units fitted with EC INVERTER fans, upflow or downflow. These units are provided with 2 way modulating valve and servomotor. Unit has to be connected with an external chiller.

CONTROL

Semi-graphic display 132x64 pixel, programmable software, record storage of 200 alarms, general alarm, automatic reset after blackout, integral LAN system, standby management, automatic rotation, serious alarms, operating contemporaneity, clock function modality

FEATURES

Unit for installing inside or outside the room to be air-conditioned. Maximum resistance to rust thanks to galvanised sheet metal structures and panels with powder-coated paint finish. The panels are lined with sound-insulating material to limit noise levels. The reliability and functionality of the all parts are guaranteed by partners who are world leaders in their sector. NEW EC INVERTER fans with electronic commutation in order to maximize the energy saving and reducing the noise emissions. The fan section is contained within the machine and includes centrifugal fans with backward curved blades with wing profile, single suction and without scroll housings (Plug-fans), directly coupled to external rotor EC electric motor.

brushless type with integrated electronic commutated system and continuous variation of the rotation speed. Standard COARSE 60% (ISO EN 16890) filtering section is fitted. The filter is self-extinguishing.

Chilled water coil with copper tube and aluminium Blue-fins with hydrophilic coating treatment surface to reduce the pressure drops on the air side. Water circuit realized with pipes entirely coated with insulated material and bronze fittings, complete temperature probe and with 3-way modulating valve.

VERSIONS

D - DOWNTOWNS AIR SUPPLY
U - UP FLOW AIR SUPPLY
F - FRONT SUPPLY (DISPLACEMENT)
B - UP SUPPLY, REAR RETURN

ACCESSORIES

- REMOTE USER TERMINAL
- ELECTRIC HEATING COIL
- HUMIDIFIER
- VIBRATION ISOLATION FRAME WITH RUBBER MOUNTINGS
- INTERFACE ELECTRONIC BOARD
- AIR DISTRIBUTION PLENUM
- CONDENSING PUMP DISCHARGE
- INTERFACE CARD FOR TCP/IP PROTOCOL
- TOUCH SCREEN GRAPHIC TERMINAL
- POWER SUPPLY DIFFERENT FROM STANDARD



WUL

WATER COOLED UNIT - LARGE MODEL

Close control air-conditioners for vertical installation and cooling only, with optional heating by means of heating element, optional humidifier and dehumidifier for precise temperature and humidity control. Particularly suitable for precision air conditioning in servers and IT rooms and all technological applications in general. Units consist of two modules the first housing the heat exchanger, usually placed over the floor, the second where EC inverter fans are fitted. Downflow air supply. These units are provided with modulating 2 way valve and servomotor. Unit has to be connected with an external chiller.

CONTROL

Semi-graphic display 132x64 pixel, programmable software, record storage of 200 alarms, general alarm, automatic reset after blackout, integral LAN system, standby management, automatic rotation, serious alarms, operating contemporaneity, clock function modality



VERSIONS

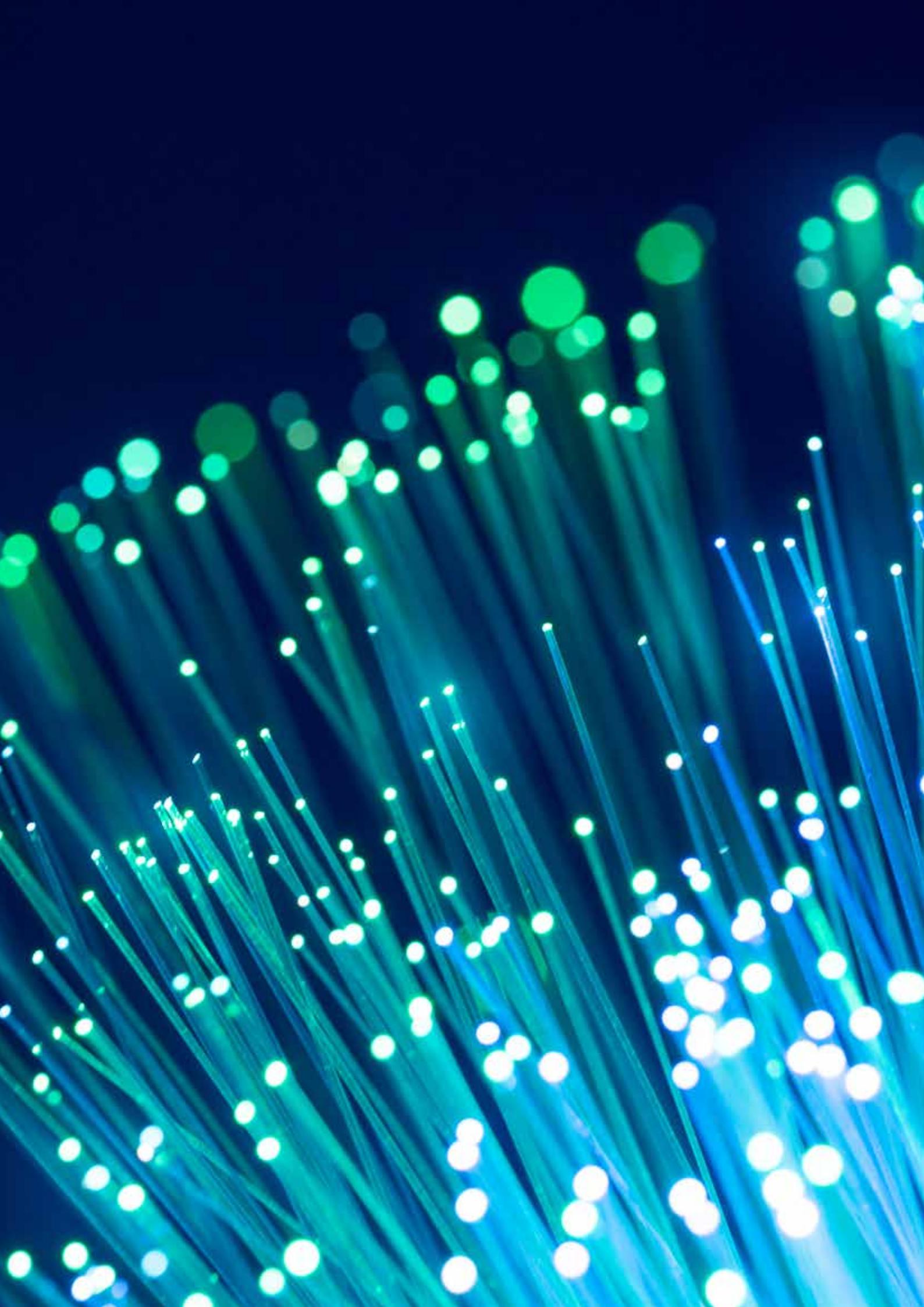
D - DOWNFLOW AIR SUPPLY
U - UP FLOW AIR SUPPLY
F - FRONT SUPPLY (DISPLACEMENT)
B - UP SUPPLY, REAR RETURN

FEATURES

Unit for installing inside or outside the room to be air-conditioned. Maximum resistance to rust thanks to galvanised sheet metal structures and panels with powder-coated paint finish. The panels are lined with sound-insulating material to limit noise levels. The reliability and functionality of the all parts are guaranteed by partners who are world leaders in their sector. NEW EC INVERTER fans with electronic commutation in order to maximize the energy saving and reducing the noise emissions. The fan section includes centrifugal fans with backward curved blades with wing profile, single suction and without scroll housings (Plug-fans), directly coupled to external rotor EC electric motor brushless type with integrated electronic commutated system and continuous variation of the rotation speed. Standard G4 filtering section, M5, to CEN-EN 779 with average degree of separation 90.1% ASHRAE. The filter is self-extinguishing. Switchboard to IEC 204-1/EN60204-1. Capillary Pre and After sales service.

ACCESSORIES

- REMOTE USER TERMINAL
- ELECTRIC HEATING COIL
- HUMIDIFIER
- VIBRATION ISOLATION FRAME WITH RUBBER MOUNTINGS
- INTERFACE ELECTRONIC BOARD
- AIR DISTRIBUTION PLENUM
- CONDENSING PUMP DISCHARGE
- INTERFACE CARD FOR TCP/IP PROTOCOL
- TOUCH SCREEN GRAPHIC TERMINAL
- POWER SUPPLY DIFFERENT FROM STANDARD





EMIBYTE

30°C
62%

A BIG
BREATH
FOR YOUR
TECHNOLOGY

INNOV

EMIBYTE



TECHNOLOGY
FOR YOUR
BREATH
BIG V

VORAN

IRDXi

30cm - 60cm DIRECT EXPANSION

The indoor vertical air conditioning unit RACK COOLER is an effective management system of the Hot Spots in the data center, ensuring low energy consumption and usage possibilities even under extremely high loads for HIGH DENSITY rack up to over 40 kW/m² rack. The use of EC fan systems, featuring last-generation electronic-switching brushless motors, assures excellent performance and low consumption. Available as standard with the dynamic management of N+1 EC fans to optimize consumption and redundancy of the cooling system. Coupled with outdoor condensing unit air-cooled type with axial-flow fans, fitted with INVERTER-DRIVEN HERMETIC SCROLL compressor for operation on R410A refrigerant, available on versions BASIC and LT for low external temperature control, semi-graphic display 132x64 pixel, programmable software, record storage of 200 alarms, general alarm, automatic reset after blackout, integral LAN system, standby management, automatic rotation, serious alarms, operating contemporaneity, clock function modality.

CONTROL

Semi-graphic display 132x64 pixel, programmable software, record storage of 200 alarms, general alarm, automatic reset after blackout, integral LAN system, standby management, automatic rotation, serious alarms, operating contemporaneity, clock function modality



EFFICIENCY

The unit combines the efficiency of use of last EC fans generation and a direct expansion system with inverter compressor (fitted in condensing unit) allowing a great EER value. Thanks to the adoption of inverter DC brushless compressors, these units can reduce by 50% consumptions at part load, if compared to a traditional ON/OFF compressor. This is made possible also thanks to the advantages of variable air flow enabled by EC fans.

FLEXIBILITY

The EMIBYTE INROW and Enclosure are both equipped with predisposition for passing refrigerant connections and power supply from both above and below, so as to allow a quick and easy installation in any condition, whether or not foreseen the presence of access floor.

CONTROL MANAGEMENT

The units are supplied with a new management algorithm called xxxCARELxxx able to prevent stratification of temperature within the rack through the use of 4 sensors (2 on the suction and 2 on the outlet) integrated and independent on the basis of the real load in the single stratified BLADE work to optimize the ventilation only when required so as to maximize energy benefits. The EMIBYTE control also provides the optimal management of the outlet temperatures of the treated integrating the various resources in a DYNAMIC and INTELLIGENT way.

MODULARITY

These units, with their characteristics of dimensional standardization based on the rack, are ideal for all those datacenters where SCALABILITY of the system is a strategic factor.

COMPARTIZATION

Perfect integration with systems that minimize the mixing hot and cold air between the aisles and that emphasize the efficiency of such systems.

IRWU

30cm - 60cm CHILLED WATER

The indoor vertical air conditioning units RACK COOLER 'IRUW' is an effective management system of the Hot Spots in the data center, ensuring low energy consumption and usage possibilities even under extremely high loads for HIGH DENSITY rack up to over 40 kW/m² rack. In hydronic version where the cooling is ensured by the use of an external chiller. The use of EC fan systems, featuring last-generation

electronic-switching brushless motors, assures excellent performance and low consumption. Available as standard with the dynamic management of N +1 EC fans to optimize consumption and redundancy of the cooling system. These individual units to be positioned between the racks in the row so as to act locally in order to dissipate the load of servers.

CONTROL

Semi-graphic display 132x64 pixel, programmable software, record storage of 200 alarms, general alarm, automatic reset after blackout, integral LAN system, standby management, automatic rotation, serious alarms, operating contemporaneity, clock function modality



EFFICIENCY

The unit combines the efficiency of a hydronic system for the extraction of heat with the use of last generation fans EC electronic commutated, to obtain values of EER more than 100. The reduction of the temperature of the air exhausted allows the use of water very high cooling 14-20°C by the Rack Cooler that, if on the one hand prevents unpleasant phenomena of condensation (SHR = 1), will allow the other use of only the external system in chillers Freecooling (TO BE ADJUSTED AS EMICON)

FLEXIBILITY

The EMI-ROW and Enclosure versions are both arranged with hydraulics connections and electric supply from top or bottom side, so as to allow a quick and easy installation in any condition, whether or not foreseen the presence of a access floor

MODULARITY

These units, with their characteristics of dimensional standardization based on the rack, are ideal for all those datacentres where SCALABILITY of the system is a strategic factor

COMPARTIZATION

Perfect integration with systems that minimize the mixing hot and cold air between the aisles and that emphasize the efficiency of such systems

INTEGRATION

With all the EMICON products such Perimetral CRAC-CRAH units and IT Cooling Systems range via supervision software

RCE / RCE-S [silenced]

EXTERNAL CONDENSING FOR PRECISION AIR CONDITIONING UNITS

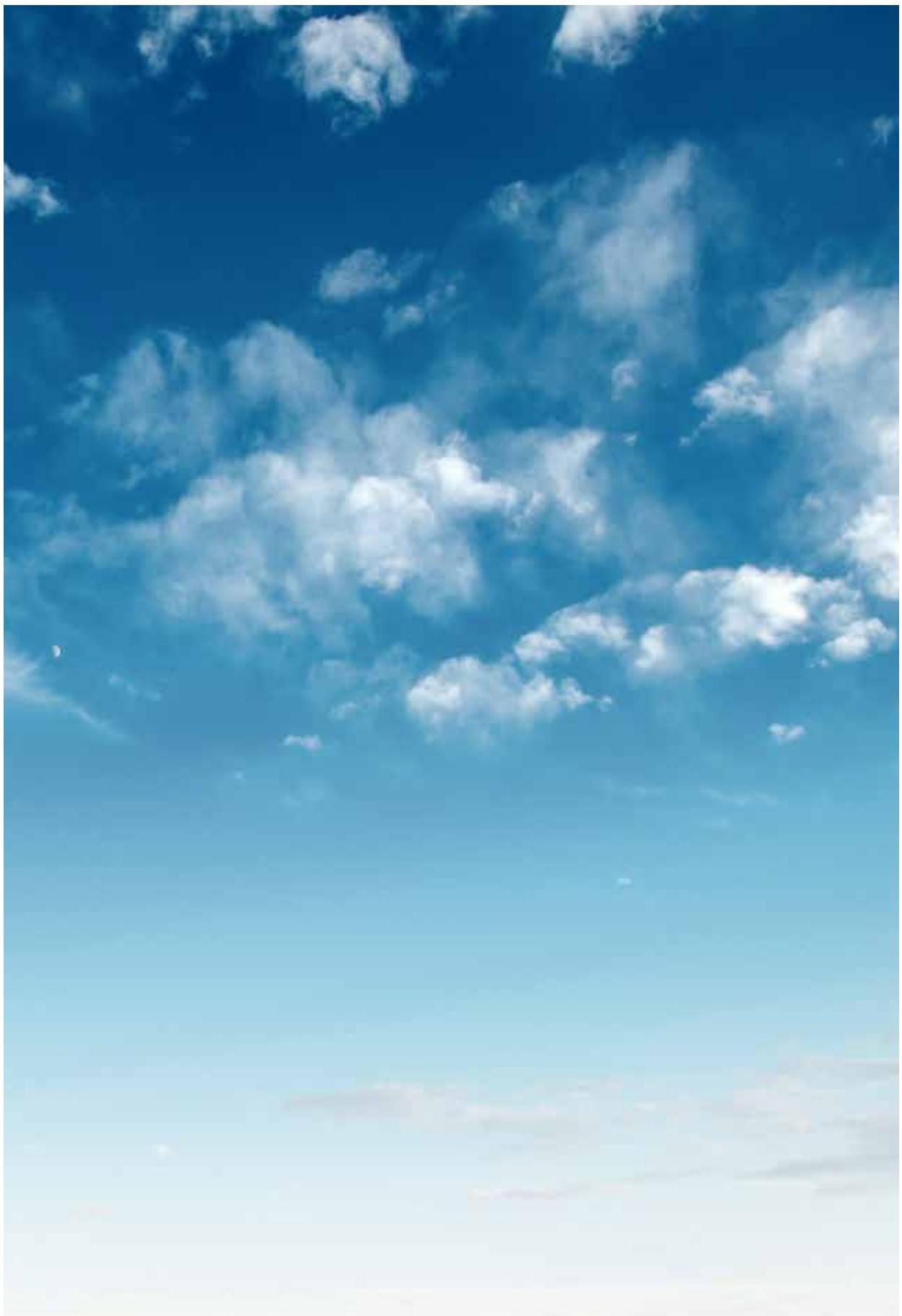
Remote condensers with axial-type fans for outdoor installation. Installation may be vertical with a horizontal air outflow or, using special brackets, horizontal with an upward air outflow. The very low noise, adjustable-speed fans are excellent for those projects where acoustical emissions play a central role. All models are available in Std version, low noise & super low noise configuration.

FEATURES

Long concentrated effort in the new EMICON axial fan air cooled condenser with special configuration of fans with 'luvre' cuts which are positioned very closely together, capable of optimizing and increasing heat transfer performance, thanks also to the use of special high-efficiency tubes with internal grooves.

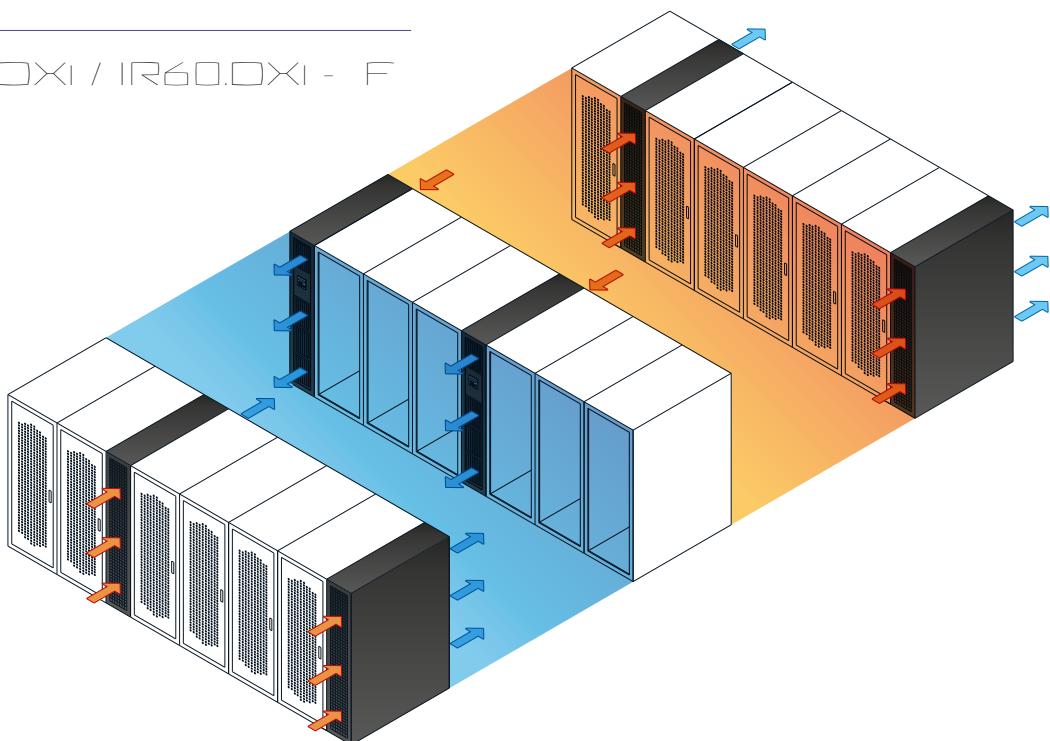
The new RCE-RCES remote condensers can be supplied with special Nanocoating protection which gradually slows down the deposit of dust and pollution on the fin surface, keeping the heat exchange surface clean and the maximum efficiency and giving an additional resistance against corrosion.



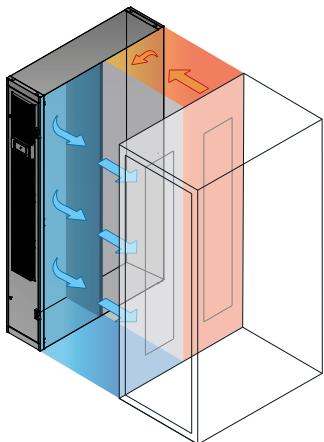


CONFIGURATIONS

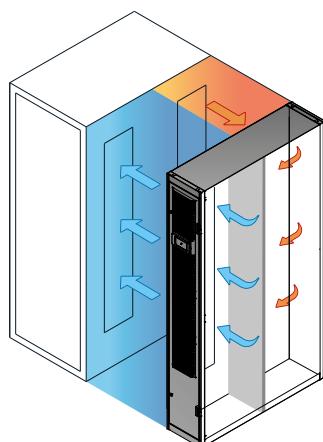
IR30.0Xi / IR60.0Xi - F



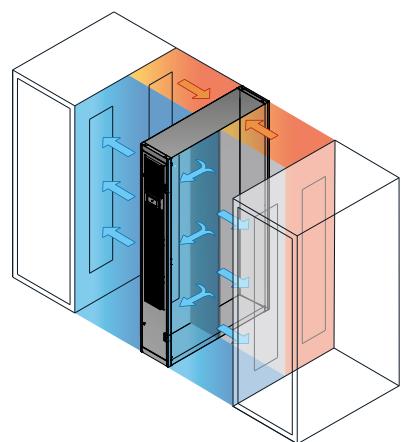
IR30.0Xi - LR



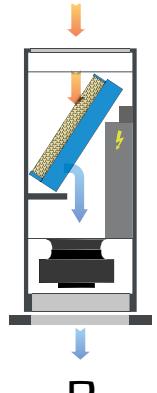
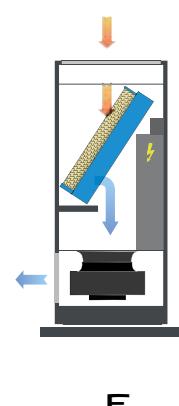
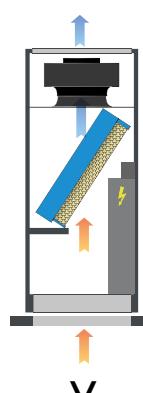
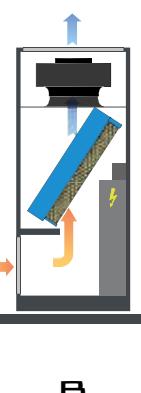
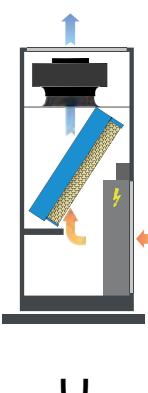
IR30.0Xi - LL



IR30.0Xi - CL



AIR FLOW CONFIGURATIONS DX / DXi / WU





COMPONENTS

FULLY CUSTOMIZABLE AND INTUITIVE TOUCH SCREEN DISPLAY

The new 4.3" touch screen designed to maximise the users system management experience. System usability is enhanced by the web server pages shown on the display relating to each individual controller connected to the network, allowing users to monitor the situation across the entire system from just one single location. Ethernet connectivity makes installation even more practical, without any constraints in terms of location relative to the monitored system.



Built-in temperature and humidity probe Can share the values read with both the display and the connected controller. This new feature means concrete advantages for the room terminal solution just one single device can be used, rather than two, to manage the function of both instruments

Micro-USB port
At the front, concealed by a faceplate, for easier access



INVERTER SCROLL COMPRESSOR

The best solution in terms of variable cooling capacity

PRECISE TEMPERATURE CONTROL

Inverter compressor-based technology allows close monitoring and control of room temperature



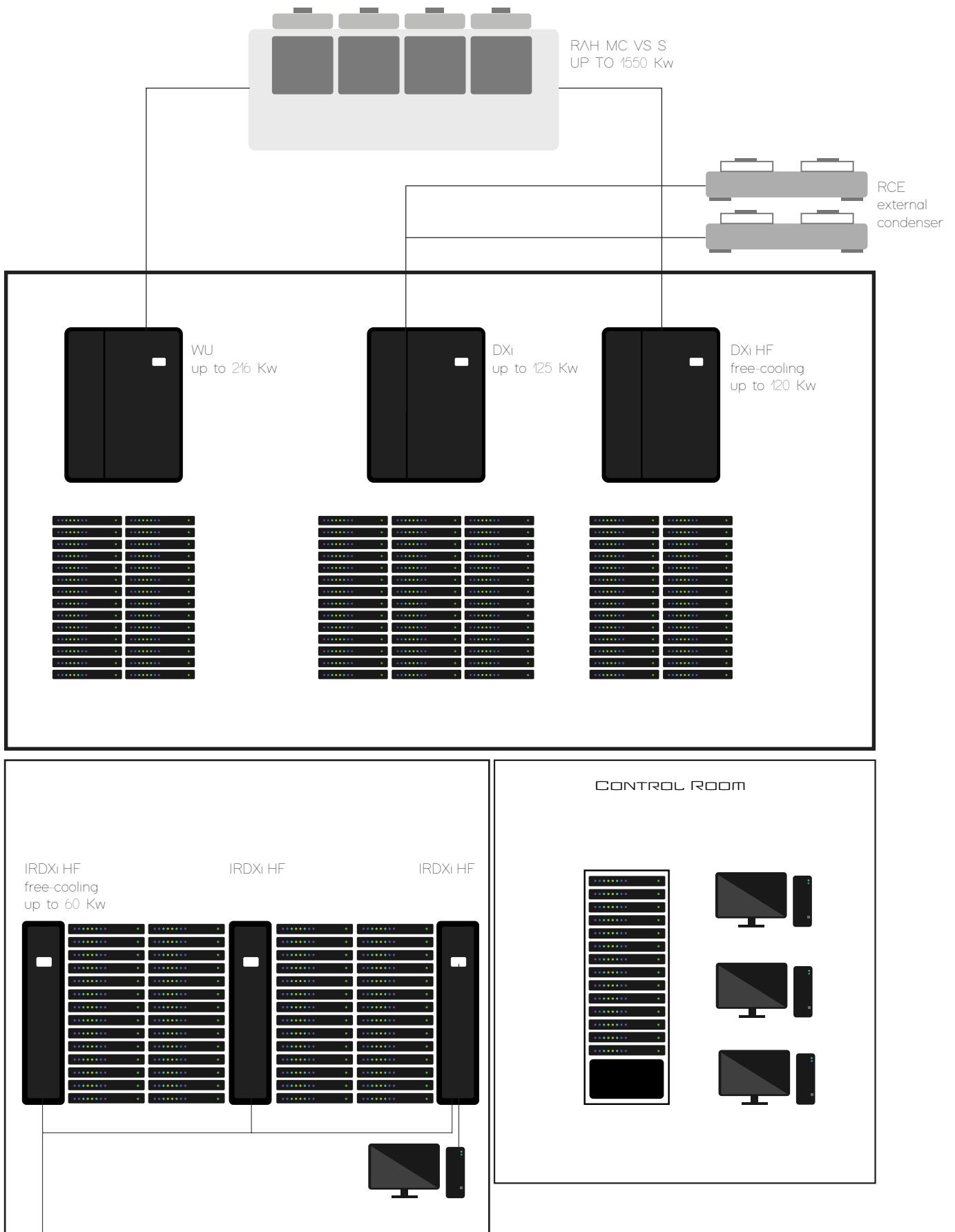
EC PREMIUM FAN

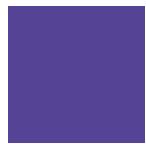
The new generation of Emicon EC Fan 2.0 is the core of EMIBYTE Precision Air Conditioner, significantly minimizing noise levels and increasing the efficiency of the unit

ULTRASONIC HUMIDIFIER

This awesome optional get Perfectly-Controlled Humidity in Any Large Room or Storage Area. It can Maintain 10 to 90% Humidity at Low Temperatures with Antibacterial and Demineralization Processes for the Best Quality Moisture for Food Preservation, Museums, Antique Shops, Industrial Facilities and More. Ultrasonic Humidifier option is the new ultrasound cool mist large room humidifier. It has been developed to control and maintain the desired level of humidity for a specific environment constant.







The datas shown are indicative and may vary according to the components and external conditions.

TECHNICAL SHEETS

DX.A		61	71	91	111	151	181	201	221	232
Cooling capacity (Total) ⁽¹⁾ ESP 20 Pa	kW	6,1	8,4	9,9	11,2	15,9	18,4	20,1	22,6	22,9
Cooling capacity (Sensible) ⁽¹⁾ ESP 20 Pa	kW	6	8	9,6	11,2	14,5	17,9	20	21,7	22,9
Tot. absorbed power ⁽²⁾ ESP 20 Pa	kW	1,9	2,5	2,7	3,6	4,6	5,4	5,5	6,4	6,9
SHR		0,99	0,96	0,97	1,00	0,91	0,97	1,00	0,96	1,00
Air flow	m ³ /h	2700	2700	2700	3900	3900	6050	6050	6050	8150
Fan	n°	1	1	1	1	1	1	1	1	1
Max. ESP	Pa	542	521	479	506	465	655	612	612	446
Unit EER without remote condenser to max. frequency	W/W	3,2	3,3	3,7	3,1	3,5	3,4	3,7	3,5	3,3
Maximum absorbed power	Kw	3,8	4,5	5	6,2	7,6	10,5	10,5	11,8	12
Maximum absorbed current	A	12,8	16,5	18,7	10,2	12,4	17	17	19,1	19,8
Starting current	A	41,4	64,4	66,4	50,4	65,4	71	71	78	60
Power supply	V/ph/Hz						400/3/50+N+PE			
Humidifier										
Steam production (nominal)	kg/h	1,5	1,5	1,5	3	3	5	5	5	8
Steam production (max.)	kg/h	3	3	3	3	3	8	8	8	8
Max. absorbed power	kW	1,12	1,12	1,12	2,25	2,25	3,75	3,75	3,75	6,0
Max. absorbed current	A	5,0	5,0	5,0	10,0	10,0	5,5	5,5	5,5	8,7
Specific conductibility at 20°C (min/max)	µS/cm	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250
Total hardness (min/max)	mg/l CaCO ₃	100/400	100/400	100/400	100/400	100/400	100/400	100/400	100/400	100/400
Electrical heaters										
Steps	n°	1	1	1	1	1	2	2	2	3
Power	kW	3,0	3,0	3,0	4,5	4,5	6,0	6,0	6,0	9,0
Absorbed current	A	4,3	4,3	4,3	6,5	6,5	8,7	8,7	8,7	13,0
Oversized electrical heaters										
Steps	n°	1	1	1	2	2	3	3	3	3
Power	kW	4,5	4,5	4,5	6,0	6,0	9,0	9,0	9,0	12,0
Absorbed current	A	6,5	6,5	6,5	8,7	8,7	13,0	13,0	13,0	17,3
Hot water coil										
Heating capacity ⁽³⁾	kW	4,9	4,9	4,9	7,3	7,3	10,6	10,6	10,6	16,7
Water flow	m ³ /h	0,85	0,85	0,85	1,3	1,3	1,86	1,86	1,86	2,91
Pressure drop (coil + 3 way valve)	kPa	36	36	36	31	31	48	48	48	56
Coil internal volume	dm ³	1,1	1,1	1,1	1,4	1,4	2,1	2,1	2,1	3,3
On / Off Compressors										
Circuits / Compressors	n°/n°	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	2/2
Condensing water pump										
Nominal flow	l/h	27,5	27,5	27,5	390,0	390,0	390,0	390,0	390,0	390,0
Max. flow (prevalence = 0 m)	l/h	34	34	34	500	500	500	500	500	500
Max. discharge height (flow=0 m ³ /h)	m	15,0	15,0	15,0	5,4	5,4	5,4	5,4	5,4	5,4
Condensing water pump + humidifier										
Nominal flow	l/h	-	-	-	-	-	-	-	-	600
Max. flow (prevalence = 0 m)	l/h	-	-	-	-	-	-	-	-	900
Max. discharge height (flow=0 m ³ /h)	m	-	-	-	-	-	-	-	-	6,0
Dimensions and weight										
Frame	n°	1	1	1	2	2	3	3	3	4
Width	mm	550	550	550	750	750	980	980	980	1160
Depth	mm	550	550	550	550	550	750	750	750	850
Height	mm	1980	1980	1980	1980	1980	1980	1980	1980	1980
Weight (Configuration U)	Kg	169	179	182	223	230	293	301	301	385
Weight (Configuration V)	Kg	171	181	185	226	232	297	305	305	390
Weight (Configuration D)	Kg	172	182	186	228	234	299	307	307	392
Weight (Configuration B)	Kg	171	181	185	226	232	297	305	305	390

Performances are referred to the following conditions:

(1) Ambient temperature 24°C, Relative humidity 50%, Condensing temperature 48°C.

(2) The fans electrical power has to be added to the ambient load.

(3) Water temperature 40/45°C, Ambient temperature 20°C, Relative humidity 50%.

DX.A		251	301	321	322	391	392	431	442	451
Cooling capacity (Total) ⁽¹⁾ ESP 20 Pa	kW	24,3	29,5	33,3	32,4	39,3	39,1	42,8	44	45,7
Cooling capacity (Sensible) ⁽¹⁾ ESP 20 Pa	kW	23,9	29,5	30,4	30,1	39,1	39	42,1	42,1	45,5
Tot. absorbed power ⁽²⁾ ESP 20 Pa	kW	6,7	7,7	8,8	9	10,1	11,2	11,3	12,9	11,4
SHR		0,99	1,00	0,91	0,93	1,00	1,00	0,98	0,96	1,00
Air flow	m ³ /h	8150	8150	8150	8150	11500	11500	11500	11500	14500
Fan	n°	1	1	1	1	1	1	1	1	2
Max. ESP	Pa	446	446	405	405	406	406	406	406	432
Unit EER without remote condenser to max. frequency	W/W	3,6	3,8	3,8	3,6	3,9	3,5	3,8	3,4	4
Maximum absorbed power	Kw	11,7	12,3	14,2	14,8	16,6	18,4	18,3	21	20
Maximum absorbed current	A	20,2	22,4	25,8	24,2	30,6	29,6	36,6	33,8	39,4
Starting current	A	99,2	132,2	143,2	77,2	123,6	83,6	145,6	92,7	148,4
Power supply	V/ph/Hz					400/3/50+N+PE				
Humidifier										
Steam production (nominal)	kg/h	8	8	8	8	8	8	8	8	8
Steam production (max.)	kg/h	8	8	8	8	8	8	8	8	8
Max. absorbed power	kW	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0
Max. absorbed current	A	8,7	8,7	8,7	8,7	8,7	8,7	8,7	8,7	8,7
Specific conductibility at 20°C (min/max)	µS/cm	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250
Total hardness (min/max)	mg/l CaCO ₃	100/400	100/400	100/400	100/400	100/400	100/400	100/400	100/400	100/400
Electrical heaters										
Steps	n°	3	3	3	3	3	3	3	3	3
Power	kW	9,0	9,0	9,0	9,0	9,0	9,0	9,0	9,0	15,0
Absorbed current	A	13,0	13,0	13,0	13,0	13,0	13,0	13,0	13,0	21,7
Oversized electrical heaters										
Steps	n°	3	3	3	3	3	3	3	3	3
Power	kW	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	18,0
Absorbed current	A	17,3	17,3	17,3	17,3	17,3	17,3	17,3	17,3	26,0
Hot water coil										
Heating capacity ⁽³⁾	kW	16,7	16,7	16,7	16,7	24,5	24,5	24,5	24,5	31,1
Water flow	m ³ /h	2,91	2,91	2,91	2,91	4,3	4,3	4,3	4,3	5,43
Pressure drop (coil + 3 way valve)	kPa	56	56	56	56	46	46	46	46	53
Coil internal volume	dm ³	3,3	3,3	3,3	3,3	4,7	4,7	4,7	4,7	5,8
On / Off Compressors										
Circuits / Compressors	n°/n°	1/1	1/1	1/1	2/2	1/1	2/2	1/1	2/2	1/1
Condensing water pump										
Nominal flow	l/h	390,0	390,0	390,0	390,0	390,0	390,0	390,0	390,0	390,0
Max. flow (prevalence = 0 m)	l/h	500	500	500	500	500	500	500	500	500
Max. discharge height (flow=0 m ³ /h)	m	5,4	5,4	5,4	5,4	5,4	5,4	5,4	5,4	5,4
Condensing water pump + humidifier										
Nominal flow	l/h	600	600	600	600	600	600	600	600	600
Max. flow (prevalence = 0 m)	l/h	900	900	900	900	900	900	900	900	900
Max. discharge height (flow=0 m ³ /h)	m	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0
Dimensions and weight										
Frame	n°	4	4	4	4	4,5	4,5	4,5	4,5	5
Width	mm	1160	1160	1160	1160	1505	1505	1505	1505	1860
Depth	mm	850	850	850	850	850	850	850	850	850
Height	mm	1980	1980	1980	1980	1980	1980	1980	1980	1980
Weight (Configuration U)	Kg	342	360	361	398	429	454	433	454	522
Weight (Configuration V)	Kg	346	365	365	403	434	459	438	459	528
Weight (Configuration D)	Kg	349	367	368	405	437	462	441	462	531
Weight (Configuration B)	Kg	346	365	365	403	434	459	438	459	528

Performances are referred to the following conditions:

(1) Ambient temperature 24°C, Relative humidity 50%, Condensing temperature 48°C.

(2) The fans electrical power has to be added to the ambient load.

(3) Water temperature 40/45°C, Ambient temperature 20°C, Relative humidity 50%.

DX.A		472	511	512	531	602	672	742	761
Cooling capacity (Total) ⁽¹⁾ ESP 20 Pa	kW	47,3	51	50,9	53,2	59,8	67,3	74,3	77
Cooling capacity (Sensible) ⁽¹⁾ ESP 20 Pa	kW	47,1	50,8	50,7	53,1	59,7	64	66,8	76,6
Tot. absorbed power ⁽²⁾ ESP 20 Pa	kW	12,9	13,3	13,5	13,9	15,6	17,8	19,5	20
SHR		1,00	1,00	1,00	1,00	1,00	0,95	0,90	1,00
Air flow	m ³ /h	14500	14500	14500	17600	17600	17600	17600	20900
Fan	n	2	2	2	2	2	2	2	2
Max. ESP	Pa	432	432	432	382	383	382	383	436
Unit EER without remote condenser to max. frequency	w/w	3,7	3,8	3,8	3,8	3,8	3,8	3,8	3,8
Maximum absorbed power	Kw	22,7	22,2	23,4	22,2	24,6	28,4	31,3	33,2
Maximum absorbed current	A	36,6	42,4	40,4	42,4	44,8	51,6	58,4	61,2
Starting current	A	95,5	182,4	119,4	182,4	154,6	169,0	151,4	154,2
Power supply	V/ph/Hz				400/3/50+N+PE				
Humidifier									
Steam production (nominal)	kg/h	8	8	8	8	8	8	8	8
Steam production (max.)	kg/h	8	8	8	8	8	8	8	8
Max. absorbed power	kW	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0
Max. absorbed current	A	8,7	8,7	8,7	8,7	8,7	8,7	8,7	8,7
Specific conductivity at 20°C (min/max)	µS/cm	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250
Total hardness (min/max)	mg/l CaCO ₃	100/400	100/400	100/400	100/400	100/400	100/400	100/400	100/400
Electrical heaters									
Steps	n°	3	3	3	3	3	3	3	3
Power	kW	15,0	15,0	15,0	18,0	18,0	18,0	18,0	24,0
Absorbed current	A	21,7	21,7	21,7	26,0	26,0	26,0	26,0	34,6
Oversized electrical heaters									
Steps	n°	3	3	3	3	3	3	3	3
Power	kW	18,0	18,0	18,0	24,0	24,0	24,0	24,0	27,0
Absorbed current	A	26,0	26,0	26,0	34,6	34,6	34,6	34,6	39,0
Hot water coil									
Heating capacity ⁽³⁾	kW	31,1	31,1	31,1	37,4	37,4	37,4	37,4	48,9
Water flow	m ³ /h	5,43	5,43	5,43	6,5	6,5	6,5	6,5	8,5
Pressure drop (coil + 3 way valve)	kPa	53	53	53	34	34	34	34	48
Coil internal volume	dm ³	5,8	5,8	5,8	7,1	7,1	7,1	7,1	10,45
On / Off Compressors									
Circuits / Compressors	n°/n°	2/2	1/1	2/2	1/1	2/2	2/2	2/2	1/2
Condensing water pump									
Nominal flow	l/h	390,0	390,0	390,0	390,0	390,0	390,0	390,0	390,0
Max. flow (prevalence = 0 m)	l/h	500	500	500	500	500	500	500	500
Max. discharge height (flow=0 m ³ /h)	m	5,4	5,4	5,4	5,4	5,4	5,4	5,4	5,4
Condensing water pump + humidifier									
Nominal flow	l/h	600	600	600	600	600	600	600	600
Max. flow (prevalence = 0 m)	l/h	900	900	900	900	900	900	900	900
Max. discharge height (flow=0 m ³ /h)	m	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0
Dimensions and weight									
Frame	n°	5	5	5	6	6	6	6	7
Width	mm	1860	1860	1860	2210	2210	2210	2210	2565
Depth	mm	850	850	850	850	850	850	850	850
Height	mm	1980	1980	1980	1980	1980	1980	1980	1980
Weight (Configuration U)	Kg	543	521	544	579	616	618	647	738
Weight (Configuration V)	Kg	549	528	551	586	624	625	654	746
Weight (Configuration D)	Kg	552	531	554	590	627	629	658	750
Weight (Configuration B)	Kg	549	528	551	586	624	625	654	746

Performances are referred to the following conditions:

(1) Ambient temperature 24°C, Relative humidity 50%, Condensing temperature 48°C.

(2) The fans electrical power has to be added to the ambient load.

(3) Water temperature 40/45°C, Ambient temperature 20°C, Relative humidity 50%.

DX.A		762	772	841	862	982	1002	1102	1252
Cooling capacity (Total) ⁽¹⁾ ESP 20 Pa	kW	77	76,8	84	86,8	98,7	98,9	111,9	124,5
Cooling capacity (Sensible) ⁽¹⁾ ESP 20 Pa	kW	76,3	76,2	77,8	78,7	95,6	95,7	101,4	104,9
Tot. absorbed power ⁽²⁾ ESP 20 Pa	kW	20	22	21,9	25,2	26,8	26,4	29,9	34,2
SHR		0,99	0,99	0,93	0,91	0,97	0,97	0,91	0,84
Air flow	m ³ /h	20900	20900	20900	20900	25700	25700	25700	25700
Fan	n	2	2	2	2	3	3	3	3
Max. ESP	Pa	436	436	436	436	458	458	458	458
Unit EER without remote condenser to max. frequency	w/w	3,8	3,5	3,8	3,4	3,7	3,7	3,7	3,6
Maximum absorbed power	Kw	33,2	36,8	36,6	42	47,1	44,6	49,5	57,1
Maximum absorbed current	A	61,2	59,2	73,2	67,6	80,8	84,8	89,6	103,2
starting current	A	154,2	113,2	182,2	126,5	159,8	224,8	199,4	220,6
Power supply	V/ph/Hz					400/3/50+N+PE			
Humidifier									
Steam production (nominal)	kg/h	8	8	8	8	8	8	8	8
Steam production (max.)	kg/h	8	8	8	8	8	8	8	8
Max. absorbed power	kW	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0
Max. absorbed current	A	8,7	8,7	8,7	8,7	8,7	8,7	8,7	8,7
Specific conductivity at 20°C (min/max)	µS/cm	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250
Total hardness (min/max)	mg/l CaCO ₃	100/400	100/400	100/400	100/400	100/400	100/400	100/400	100/400
Electrical heaters									
Steps	n°	3	3	3	3	3	3	3	3
Power	kW	24,0	24,0	24,0	24,0	27,0	27,0	27,0	27,0
Absorbed current	A	34,6	34,6	34,6	34,6	39,0	39,0	39,0	39,0
Oversized electrical heaters									
Steps	n°	3	3	3	3	3	3	3	3
Power	kW	27,0	27,0	27,0	27,0	36,0	36,0	36,0	36,0
Absorbed current	A	39,0	39,0	39,0	39,0	52,0	52,0	52,0	52,0
Hot water coil									
Heating capacity ⁽³⁾	kW	48,9	48,9	48,9	48,9	60,8	60,8	60,8	60,8
Water flow	m ³ /h	8,5	8,5	8,5	8,5	10,6	10,6	10,6	10,6
Pressure drop (coil + 3 way valve)	kPa	48	48	48	48	42	42	42	42
Coil internal volume	dm ³	10,45	10,45	10,45	10,45	12,6	12,6	12,6	12,6
On / Off Compressors									
Circuits / Compressors	n°/n°	2/2	2/4	1/2	2/4	2/4	2/2	2/4	2/4
Condensing water pump									
Nominal flow	l/h	390,0	390,0	390,0	390,0	390,0	390,0	390,0	390,0
Max. flow (prevalence = 0 m)	l/h	500	500	500	500	500	500	500	500
Max. discharge height (flow=0 m ³ /h)	m	5,4	5,4	5,4	5,4	5,4	5,4	5,4	5,4
Condensing water pump + humidifier									
Nominal flow	l/h	600	600	600	600	600	600	600	600
Max. flow (prevalence = 0 m)	l/h	900	900	900	900	900	900	900	900
Max. discharge height (flow=0 m ³ /h)	m	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0
Dimensions and weight									
Frame	n°	7	7	7	7	8	8	8	8
Width	mm	2565	2565	2565	2565	3100	3100	3100	3100
Depth	mm	850	850	850	850	850	850	850	850
Height	mm	1980	1980	1980	1980	1980	1980	1980	1980
Weight (Configuration U)	Kg	743	780	745	780	937	904	969	972
Weight (Configuration V)	Kg	752	788	753	788	947	914	979	982
Weight (Configuration D)	Kg	756	792	758	792	952	920	984	988
Weight (Configuration B)	Kg	752	788	753	788	947	914	979	982

Performances are referred to the following conditions:

(1) Ambient temperature 24°C, Relative humidity 50%, Condensing temperature 48°C.

(2) The fans electrical power has to be added to the ambient load.

(3) Water temperature 40/45°C, Ambient temperature 20°C, Relative humidity 50%.

DXi.A		61	111	121	151	181	201	251	321
Cooling capacity (Total) ⁽¹⁾ ESP 20 Pa	kW	7,2	10,1	11,2	16,1	18,2	20,5	25,6	33,7
Cooling capacity (Sensible) ⁽¹⁾ ESP 20 Pa	kW	7,2	9,3	11,2	14,5	17,6	20,5	25,5	30,7
Tot. absorbed power ⁽²⁾ ESP 20 Pa	kW	2,3	3,5	3,7	4,6	5,1	5,3	7,2	8,6
SHR		1,00	0,92	1,00	0,91	0,97	1,00	1,00	0,91
Air flow	m ³ /h	3900	3900	3900	3900	5700	5700	8150	8150
Fan	n	1	1	1	1	1	1	1	1
Max. ESP	Pa	559	560	479	412	568	539	451	362
Unit EER without remote condenser to max. frequency	W/W	3,2	2,8	3,0	3,4	3,5	3,8	3,5	3,9
Maximum absorbed power	kW	4	6	6	9	11	11	12	15
Maximum absorbed current	A	14	18	18	16	21	21	21	24
starting current	A	4	4	4	4	7	7	6	6
Power supply	V/ph/Hz				400/3/50+N+PE				
Humidifier									
Steam production (nominal)	kg/h	3	3	3	3	5	5	8	8
Steam production (max.)	kg/h	3	3	3	3	8	8	8	8
Max. absorbed power	kW	2,25	2,25	2,25	2,25	3,75	3,75	6,0	6,0
Max. absorbed current	A	10,0	10,0	10,0	10,0	5,5	5,5	8,7	8,7
Specific conductibility at 20°C (min/max)	µS/cm	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250
Total hardness (min/max)	mg/l CaCO ₃	100/400	100/400	100/400	100/400	100/400	100/400	100/400	100/400
Electrical heaters									
Steps	n°	3	3	3	3	2	2	3	3
Power	kW	4,5	4,5	4,5	4,5	6,0	6,0	9,0	9,0
Absorbed current	A	6,5	6,5	6,5	6,5	8,7	8,7	13,0	13,0
Oversized electrical heaters									
Steps	n°	2	2	2	2	3	3	3	3
Power	kW	6,0	6,0	6,0	6,0	9,0	9,0	12,0	12,0
Absorbed current	A	8,7	8,7	8,7	8,7	13,0	13,0	17,3	17,3
Hot water coil									
Heating capacity ⁽³⁾	kW	7,3	7,3	7,3	7,3	10,6	10,6	16,7	16,7
Water flow	m ³ /h	1,3	1,3	1,3	1,3	1,8	1,8	2,9	2,9
Pressure drop (coil + 3 way valve)	kPa	31	31	31	31	48	48	56	56
Coil internal volume	dm ³	1,4	1,4	1,4	1,4	2,1	2,1	3,3	3,3
Compressors									
Circuits / Compressors	n°/n°	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
On / Off Compressors	n°	--	--	--	--	--	--	--	--
Inverter Compressors	n°	1	1	1	1	1	1	1	1
Condensing water pump									
Nominal flow	l/h	390,0	390,0	390,0	390,0	390,0	390,0	390,0	390,0
Max. flow (prevalence = 0 m)	l/h	500	500	500	500	500	500	500	500
Max. discharge height (flow=0 m ³ /h)	m	5,4	5,4	5,4	5,4	5,4	5,4	5,4	5,4
Condensing water pump + humidifier									
Nominal flow	l/h	-	-	-	-	-	-	600	600
Max. flow (prevalence = 0 m)	l/h	-	-	-	-	-	-	900	900
Max. discharge height (flow=0 m ³ /h)	m	-	-	-	-	-	-	6,0	6,0
Dimensions and weight									
Frame	n°	2	2	2	2	3	3	4	4
Width	mm	750	750	750	750	980	980	1160	1160
Depth	mm	550	550	550	550	750	750	850	850
Height	mm	1980	1980	1980	1980	1980	1980	1980	1980
Weight (Configuration U)	Kg	198	205	209	219	284	292	331	362
Weight (Configuration V)	Kg	201	208	212	222	288	296	336	367
Weight (Configuration D)	Kg	203	209	213	223	290	298	338	369
Weight (Configuration B)	Kg	201	208	212	222	288	296	336	367

Performances are referred to the following conditions:

(1) Ambient temperature 24°C, Relative humidity 50%, Condensing temperature 48°C.

(2) The fans electrical power has to be added to the ambient load.

(3) Water temperature 40/45°C, Ambient temperature 20°C, Relative humidity 50%.

DXi.A		381	392	472	491	531	532	631	652
Cooling capacity (Total) ⁽¹⁾ ESP 20 Pa	kW	37,2	39,0	47,4	50,7	54,0	52,8	64,8	68,4
Cooling capacity (Sensible) ⁽¹⁾ ESP 20 Pa	kW	37,1	38,9	44,3	45,1	52,7	52,7	63,4	64,6
Tot. absorbed power ⁽²⁾ ESP 20 Pa	kW	10,1	10,5	13,4	13,9	14,1	14,6	16,7	17,5
SHR		1,00	1,00	0,93	0,89	0,97	1,00	0,98	0,95
Air flow	m ³ /h	11500	11500	11500	11500	14500	14500	17600	17600
Fan	n	1	1	1	1	2	2	2	2
Max. ESP	Pa	428	427	402	388	417	432	417	392
Unit EER without remote condenser to max. frequency	W/W	3,7	3,7	3,5	3,6	3,8	3,6	3,8	3,9
Maximum absorbed power	kW	16	19	21	23	24	23	28	31
Maximum absorbed current	A	26	38	40	34	37	42	47	48
starting current	A	8	24	25	8	10	27	156	30
Power supply	V/ph/Hz				400/3/50+N+PE				
Humidifier									
Steam production (nominal)	kg/h	8	8	8	8	8	8	8	8
Steam production (max.)	kg/h	8	8	8	8	8	8	8	8
Max. absorbed power	kW	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0
Max. absorbed current	A	8,7	8,7	8,7	8,7	8,7	8,7	8,7	8,7
Specific conductibility at 20°C (min/max)	µS/cm	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250
Total hardness (min/max)	mg/l CaCO ₃	100/400	100/400	100/400	100/400	100/400	100/400	100/400	100/400
Electrical heaters									
Steps	n°	3	3	3	3	3	3	3	3
Power	kW	9,0	9,0	9,0	9,0	15,0	15,0	18,0	18,0
Absorbed current	A	13,0	13,0	13,0	13,0	21,7	21,7	26,0	26,0
Oversized electrical heaters									
Steps	n°	3	3	3	3	3	3	3	3
Power	kW	12,0	12,0	12,0	12,0	18,0	18,0	24,0	24,0
Absorbed current	A	17,3	17,3	17,3	17,3	26,0	26,0	34,6	34,6
Hot water coil									
Heating capacity ⁽³⁾	kW	24,5	24,5	24,5	24,5	31,1	31,1	37,4	37,4
Water flow	m ³ /h	4,3	4,3	4,3	4,3	5,43	5,43	6,5	6,5
Pressure drop (coil + 3 way valve)	kPa	46	46	46	46	53	53	34	34
Coil internal volume	dm ³	4,7	4,7	4,7	4,7	5,8	5,8	7,1	7,1
Compressors									
Circuits / Compressors	n°/n°	1/1	2/2	2/2	1/1	1/1	2/2	1/2	2/2
On / Off Compressors	n°	--	--	--	--	--	--	1	--
Inverter Compressors	n°	1	2	2	1	1	2	1	2
Condensing water pump									
Nominal flow	l/h	390,0	390,0	390,0	390,0	390,0	390,0	390,0	390,0
Max. flow (prevalence = 0 m)	l/h	500	500	500	500	500	500	500	500
Max. discharge height (flow=0 m ³ /h)	m	5,4	5,4	5,4	5,4	5,4	5,4	5,4	5,4
Condensing water pump + humidifier									
Nominal flow	l/h	600	600	600	600	600	600	600	600
Max. flow (prevalence = 0 m)	l/h	900	900	900	900	900	900	900	900
Max. discharge height (flow=0 m ³ /h)	m	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0
Dimensions and weight									
Frame	n°	4,5	4,5	4,5	4,5	5	5	6	6
Width	mm	1505	1505	1505	1505	1860	1860	2210	2210
Depth	mm	850	850	850	850	850	850	850	850
Height	mm	1980	1980	1980	1980	1980	1980	1980	1980
Weight (Configuration U)	Kg	416	433	435	419	509	525	606	620
Weight (Configuration V)	Kg	421	439	441	425	516	531	614	627
Weight (Configuration D)	Kg	424	442	443	428	519	535	617	631
Weight (Configuration B)	Kg	421	439	441	425	516	531	614	627

Performances are referred to the following conditions:

(1) Ambient temperature 24°C, Relative humidity 50%, Condensing temperature 48°C.

(2) The fans electrical power has to be added to the ambient load.

(3) Water temperature 40/45°C, Ambient temperature 20°C, Relative humidity 50%.

DXi.A		691	742	761	861	931	952	1021	1142
Cooling capacity (Total) ⁽¹⁾ ESP 20 Pa	kW	70,1	74,9	78,2	85,8	94,7	96,5	100,7	109,8
Cooling capacity (Sensible) ⁽¹⁾ ESP 20 Pa	kW	66,3	74,7	75,2	80,2	91,6	93,9	96,1	98,8
Tot. absorbed power ⁽²⁾ ESP 20 Pa	kW	18,8	19,9	20,2	23,7	24	25,9	27,6	30,8
SHR		0,95	1,00	0,96	0,94	0,97	0,97	0,95	0,90
Air flow	m ³ /h	17600	20900	20900	20900	25700	25700	25700	25700
Fan	n	2	2	2	2	3	3	3	3
Max. ESP	Pa	432	437	436	429	446	449	442	431
Unit EER without remote condenser to max. frequency	WW	3,7	3,7	3,8	3,6	3,9	3,7	3,6	3,5
Maximum absorbed power	kW	30	33	36	38	45	49	47	56
Maximum absorbed current	A	50	51	58	61	76	74	79	93
Starting current	A	167	33	168	179	185	47	219	203
Power supply	V/ph/Hz				400/3/50+N+PE				
Humidifier									
Steam production (nominal)	kg/h	8	8	8	8	8	8	8	8
Steam production (max.)	kg/h	8	8	8	8	8	8	8	8
Max. absorbed power	kW	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0
Max. absorbed current	A	8,7	8,7	8,7	8,7	8,7	8,7	8,7	8,7
Specific conductibility at 20°C (min/max)	µS/cm	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250
Total hardness (min/max)	mg/l CaCO ₃	100/400	100/400	100/400	100/400	100/400	100/400	100/400	100/400
Electrical heaters									
Steps	n°	3	3	3	3	3	3	3	3
Power	kW	18,0	24,0	24,0	24,0	27,0	27,0	27,0	27,0
Absorbed current	A	26,0	34,6	34,6	34,6	39,0	39,0	39,0	39,0
Oversized electrical heaters									
Steps	n°	3	3	3	3	3	3	3	3
Power	kW	24,0	27,0	27,0	27,0	36,0	36,0	36,0	36,0
Absorbed current	A	34,6	39,0	39,0	39,0	52,0	52,0	52,0	52,0
Hot water coil									
Heating capacity ⁽³⁾	kW	37,4	48,9	48,9	48,9	60,8	60,8	60,8	60,8
Water flow	m ³ /h	6,5	8,5	8,5	8,5	10,6	10,6	10,6	10,6
Pressure drop (coil + 3 way valve)	kPa	34	48	48	48	42	42	42	42
Coil internal volume	dm ³	7,1	10,45	10,45	10,45	12,6	12,6	12,6	12,6
Compressors									
Circuits / Compressors	n°/n°	1/2	2/2	1/2	1/2	1/2	2/2	1/2	2/4
On / Off Compressors	n°	1	--	1	1	1	--	1	2
Inverter Compressors	n°	1	2	1	1	1	2	1	2
Condensing water pump									
Nominal flow	l/h	390,0	390,0	390,0	390,0	390,0	390,0	390,0	390,0
Max. flow (prevalence = 0 m)	l/h	500	500	500	500	500	500	500	500
Max. discharge height (flow=0 m ³ /h)	m	5,4	5,4	5,4	5,4	5,4	5,4	5,4	5,4
Condensing water pump + humidifier									
Nominal flow	l/h	600	600	600	600	600	600	600	600
Max. flow (prevalence = 0 m)	l/h	900	900	900	900	900	900	900	900
Max. discharge height (flow=0 m ³ /h)	m	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0
Dimensions and weight									
Frame	n°	6	7	7	7	8	8	8	8
Width	mm	2210	2565	2565	2565	3100	3100	3100	3100
Depth	mm	850	850	850	850	850	850	850	850
Height	mm	1980	1980	1980	1980	1980	1980	1980	1980
Weight (Configuration U)	Kg	606	717	710	710	869	878	869	954
Weight (Configuration V)	Kg	614	725	719	719	880	888	880	965
Weight (Configuration D)	Kg	617	729	723	723	885	893	885	970
Weight (Configuration B)	Kg	614	725	719	719	880	888	880	965

Performances are referred to the following conditions:

(1) Ambient temperature 24°C, Relative humidity 50%, Condensing temperature 48°C.

(2) The fans electrical power has to be added to the ambient load.

(3) Water temperature 40/45°C, Ambient temperature 20°C, Relative humidity 50%.

Single circuit remote condenser - Standard version

RCE		091 Kc	111 Kc	211 Kc	311 Kc	421 Kc	571 Kc	671 Kc	991 Kc	1101 Kc	1501 Kc
Heating capacity ⁽¹⁾	kW	9,3	11,1	19,2	29,4	44,2	60,5	66,5	97,4	100,2	150,6
Axial fans											
Quantity	n°	1	1	2	1	4	2	2	3	4	6
Rotation speed	g/min	1450	1450	1450	1300	1400	1300	1300	1300	1300	1300
Air flow	m ³ /h	2600	2400	5200	6620	9600	13250	12500	18760	29440	37530
Total input power	kW	0,14	0,14	0,29	0,68	0,58	1,36	1,36	2,04	2,72	4,08
Total nominal current	A	0,68	0,68	1,36	3,00	2,72	6,00	6,00	9,00	12,00	18,00
Diameter	mm	350	350	350	500	350	500	500	500	500	500
Sound pressure level ⁽²⁾	dB(A)	40	40	43	48	46	51	51	52	53	54
Sound power level ⁽³⁾	dB(A)	71	71	74	79	77	82	82	83	85	86
Dimensions ⁽⁴⁾											
Length - horizontal air flow	mm	882	882	1582	1203	2980	2203	2203	3203	4373	2705
Depth - horizontal air flow	mm	480	480	480	570	480	570	570	570	705	600
Height - horizontal air flow	mm	510	510	510	830	510	830	830	830	1110	1645
Length - vertical air flow	mm	882	882	1582	1219	2980	2219	2219	3219	4393	2705
Depth - vertical air flow	mm	550	550	550	895	550	895	895	895	1110	1717
Height - vertical air flow	mm	811	811	811	1099	811	1099	1099	1099	1230	1070
Weight	kg	25	27	44	67	88	112	120	170	282	250
Battery capacity	dm ³	0,9	1,2	1,5	3,0	4,5	5,9	7,2	11,1	17,7	28,2
Input/output connections	mm/mm	16/16	16/16	16/16	22/22	28/28	28/28	28/28	42/35	42/35	54/42
Power supply	V/ph/Hz							230/1/50+T			

Single circuit remote condenser - Low noise version

RCE-S		151 Kc	261 Kc	351 Kc	501 Kc	571 Kc	651 Kc	1001 Kc	1101 Kc	1301 Kc
Heating capacity ⁽¹⁾	kW	15,8	22,8	30,9	46,2	57,1	66	78,4	108,7	140,1
Axial fans										
Quantity	n°	1	1	2	2	3	3	4	6	6
Rotation speed	g/min	665	865	665	865	865	865	865	665	865
Air flow	m ³ /h	3590	4040	7180	8080	14100	12970	19930	20370	28200
Total input power	kW	0,13	0,22	0,26	0,44	0,66	0,66	0,88	0,78	1,32
Total nominal current	A	0,59	0,97	1,18	1,94	2,91	2,91	3,88	3,54	5,82
Diameter	mm	500	500	500	500	500	500	500	500	500
Sound pressure level ⁽²⁾	dB(A)	30	37	33	40	41	41	42	37	44
Sound power level ⁽³⁾	dB(A)	61	68	64	71	72	72	74	69	76
Dimensions ⁽⁴⁾										
Length - horizontal air flow	mm	1203	1203	2203	2203	3203	3203	4373	3393	3393
Depth - horizontal air flow	mm	570	570	570	570	570	570	705	990	990
Height - horizontal air flow	mm	830	830	830	830	830	830	1110	2110	2110
Length - vertical air flow	mm	1219	1219	2219	2219	3219	3219	4393	3393	3393
Depth - vertical air flow	mm	895	895	895	895	895	895	1110	2110	2110
Height - vertical air flow	mm	1099	1099	1099	1099	1099	1099	1230	1230	1230
Weight	kg	62	71	104	120	146	157	282	425	425
Battery capacity	dm ³	1,9	4,2	3,7	7,2	5,6	8,2	17,7	41,8	41,8
Input/output connections	mm/mm	16/16	28/28	28/28	28/28	28/28	35/28	42/35	54/42	54/42
Power supply	V/ph/Hz							230/1/50+T		

(1) Performances are referred to the following conditions: Ambient temperature 35°C, Condensing temperature 50°C.

(2) Sound pressure level measured at 10 mt from the unit in free field conditions according to ISO 3744.

(3) Sound power level according to ISO 3744.

(4) Including support brackets.

RCE / RCE-S REMOTE CONDENSER DOUBLE CIRCUIT

Double circuit remote condenser - Standard version

RCE		302 Kc	482 Kc	602 Kc	752 Kc	862 Kc	1052 Kc	1152 Kc	1252 Kc	1602 Kc	1702 Kc
Heating capacity ⁽¹⁾	kW	29,4	44,2	60,5	66,5	87,8	97,4	100,2	124,4	150,6	170,2
Axial fans											
Quantity	n°	1	4	2	2	3	3	4	4	6	6
Rotation speed	g/min	1300	1400	1300	1300	1300	1300	1300	1300	1300	1300
Air flow	m ³ /h	6620	9600	13240	12510	19870	18770	29440	27970	37540	35330
Total input power	kW	0,68	0,58	1,36	1,36	2,04	2,04	2,72	2,72	4,08	4,08
Total nominal current	A	3	2,72	6	6	9	9	12	12	18	18
Diameter	mm	500	350	500	500	500	500	500	500	500	500
Sound pressure level ⁽²⁾	dB(A)	48	46	51	51	52	52	53	53	54	54
Sound power level ⁽³⁾	dB(A)	79	77	82	82	83	83	85	85	86	86
Dimensions ⁽⁴⁾											
Length - horizontal air flow	mm	1203	2980	2203	2203	3203	3203	4373	4373	2705	2705
Depth - horizontal air flow	mm	570	480	570	570	570	570	705	705	600	600
Height - horizontal air flow	mm	830	510	830	830	830	830	1110	1110	1645	1645
Length - vertical air flow	mm	1219	2980	2219	2219	3219	3219	4393	4393	2705	2705
Depth - vertical air flow	mm	895	550	895	895	895	895	1110	1110	1717	1717
Height - vertical air flow	mm	1099	811	1099	1099	1099	1099	1230	1230	1070	1070
Weight	kg	67	88	112	120	157	170	282	312	250	274
Battery capacity	dm ³	3,0	4,5	5,9	7,2	8,2	11,1	17,7	26,6	28,2	35,9
Input/output connections	mm/mm	22/22	28/28	28/28	28/28	35/28	42/35	42/35	54/42	54/42	54/42
Power supply	V/ph/Hz							230/1/50+T			

Double circuit remote condenser - Low noise version

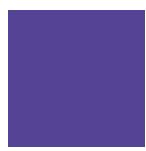
RCE-S		382 Kc	482 Kc	602 Kc	752 Kc	862 Kc	1252 Kc	1602 Kc	1702 Kc
Heating capacity ⁽¹⁾	kW	37,1	46,2	57,1	68,4	93,3	114,3	116,6	157,8
Axial fans									
Quantity	n°	2	2	3	3	4	6	5	8
Rotation speed	g/min	865	865	865	865	865	865	865	865
Air flow	m ³ /h	9400	8084	14100	12120	18800	24810	23500	39850
Total input power	kW	0,44	0,44	0,66	0,66	0,88	1,32	1,1	1,76
Total nominal current	A	1,94	1,94	2,91	2,91	3,88	5,82	4,85	7,76
Diameter	mm	500	500	500	500	500	500	500	500
Sound pressure level ⁽²⁾	dB(A)	40	40	41	41	42	44	43	45
Sound power level ⁽³⁾	dB(A)	71	71	72	72	74	76	75	77
Dimensions ⁽⁴⁾									
Length - horizontal air flow	mm	2203	2203	3203	3203	4373	2705	5373	4393
Depth - horizontal air flow	mm	570	570	570	570	705	600	705	2110
Height - horizontal air flow	mm	830	830	830	830	1110	1645	1100	990
Length - vertical air flow	mm	2219	2219	3219	3219	4393	2705	5393	4393
Depth - vertical air flow	mm	895	895	895	895	1110	1717	1110	2110
Height - vertical air flow	mm	1099	1099	1099	1099	1230	1070	1230	1230
Weight	kg	104	120	146	170	312	250	370	490
Battery capacity	dm ³	4,0	7,2	5,6	11,1	26,6	28,2	32,4	37,6
Input/output connections	mm/mm	28/28	28/28	28/28	42/35	54/42	54/42	54/42	54/42
Power supply	V/ph/Hz								

(1) Performances are referred to the following conditions: Ambient temperature 35°C, Condensing temperature 50°C.

(2) Sound pressure level measured at 10 mt from the unit in free field conditions according to ISO 3744.

(3) Sound power level according to ISO 3744.

(4) Including support brackets.



**THE FOLLOWING DXI.HF/AF UNITS DATA ARE REFERRED TO
THESE CONDITIONS**

- (1) Ambient temperature 24°C, Relative humidity 50%, water temperature 30/35°C.
- (2) The fans electrical power has to be added to the ambient load.
- (3) Free cooling: Ambient temperature 24°C, Relative humidity 50%, water inlet temperature 7°C, constant water flow
- (4) Water temperature 40/45°C, Ambient temperature 20°C, Relative humidity 50%.

TECHNICAL DATA DXi.HF

DXi.HF		181	251	381	392	531	532
Cooling capacity (Total) ⁽¹⁾ ESP 20 Pa	kW	19,2	23,6	35,1	38,4	48,1	45,9
Cooling capacity (Sensible) ⁽¹⁾ ESP 20 Pa	kW	17,1	23,9	33,8	34,4	43,5	43,1
Tot. absorbed power ⁽²⁾ ESP 20 Pa	kW	4,3	5,6	7,7	8,4	10,8	10,8
SHR		0,89	1,00	0,96	0,90	0,90	0,94
Water flow	m ³ /h	4,0	5,0	7,4	8,1	10,1	9,8
Air flow	m ³ /h	5700	8150	11500	11500	14500	14500
Fan	n	1	1	1	1	2	2
Max. ESP	Pa	622	399	344	399	389	360
EER	W/W	4,7	4,4	4,9	5,4	4,9	4,5
Maximum absorbed power	kW	11	12	16	19	24	23
Maximum absorbed current	A	21	21	26	38	37	42
Starting current	A	7	6	8	24	10	27
Power supply	V/ph/Hz				400/3/50+N+PE		
Free-cooling data							
Cooling capacity (Total) ⁽³⁾ ESP 20 Pa	kW	18,1	25,4	36,5	37,2	47,5	47,2
Tot. absorbed power ⁽²⁾ ESP 20 Pa	kW	0,8	1,1	1,6	1,6	1,9	1,8
SHR		1,00	1,00	1,00	1,00	1,00	1,00
Water flow	m ³ /h	4,0	5,0	7,4	8,1	10,1	9,8
Pressure drop (water coil+condenser+valve)	kPa	55	42	41	32	65	43
Water flow	m ³ /h	4,0	5,0	7,4	8,1	10,1	9,8
Total pressure drops	kPa	55	42	41	32	65	43
Humidifier							
Steam production (nominal)	kg/h	5	8	8	8	8	8
Steam production (max.)	kg/h	8	8	8	8	8	8
Max. absorbed power	kW	3,75	6,0	6,0	6,0	6,0	6,0
Max. absorbed current	A	5,5	8,7	8,7	8,7	8,7	8,7
Specific conductibility at 20°C (min/max)	µS/cm	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250
Total hardness (min/max)	mg/l CaCO ₃	100/400	100/400	100/400	100/400	100/400	100/400
Electrical heaters							
Steps	n°	2	3	3	3	3	3
Power	kW	6,0	9,0	9,0	9,0	15,0	15,0
Absorbed current	A	8,7	13,0	13,0	13,0	21,7	21,7
Oversized electrical heaters							
Steps	n°	3	3	3	3	3	3
Power	kW	9,0	12,0	12,0	12,0	18,0	18,0
Absorbed current	A	13,0	17,3	17,3	17,3	26,0	26,0
Heating capacity ⁽⁴⁾							
Water flow	kW	10,6	16,7	24,5	24,5	31,1	31,1
Pressure drop (coil + 3 way valve)	m ³ /h	1,8	2,9	4,3	4,3	5,43	5,43
Coil internal volume	kPa	48	56	46	46	53	53
Condensing water pump	dm ³	2,1	3,3	4,7	4,7	5,8	5,8
Nominal flow							
Max. flow (prevalence = 0 m)	l/h	390,0	390,0	390,0	390,0	390,0	390,0
Max. discharge height (flow = 0 m ³ /h)	l/h	500	500	500	500	500	500
Condensing water pump + humidifier	m	5,4	5,4	5,4	5,4	5,4	5,4
Nominal flow							
Max. flow (prevalence = 0 m)	l/h	-	600	600	600	600	600
Max. discharge height (flow = 0 m ³ /h)	l/h	-	900	900	900	900	900
Dimensions and weight							
Frame	m	-	6,0	6,0	6,0	6,0	6,0
Width	n°	3	4	4,5	4,5	5	5
Depth	mm	980	1160	1505	1505	1860	1860
Height	mm	750	850	850	850	850	850
Weight (Configuration U)	mm	1980	1980	1980	1980	1980	1980
Weight (Configuration V)	Kg	302	357	455	484	573	596
Weight (Configuration D)	Kg	306	361	461	490	579	603
Weight (Configuration B)	Kg	308	363	464	493	583	606
	Kg	306	361	461	490	579	603

DXi.HF		631	652	742	761	931	952
Cooling capacity (Total) ⁽¹⁾ ESP 20 Pa	kW	61,8	59,5	65,2	74,1	88,6	88,1
Cooling capacity (Sensible) ⁽¹⁾ ESP 20 Pa	kW	53,7	53,2	62,3	64,2	78,5	78,3
Tot. absorbed power ⁽²⁾ ESP 20 Pa	kW	13,7	13,0	14,3	16,3	19,7	19,5
SHR		0,87	0,89	0,96	0,87	0,89	0,89
Water flow	m ³ /h	13,0	12,5	13,7	15,6	18,6	18,5
Air flow	m ³ /h	17600	17600	20900	20900	25700	25700
Fan	n	2	2	2	2	3	3
Max. ESP	Pa	390	361	365	394	414	385
EER	W/W	5,0	4,9	4,9	5,0	4,9	4,8
Maximum absorbed power	kW	28	31	33	36	45	49
Maximum absorbed current	A	47	48	51	58	76	74
Starting current	A	156	30	33	168	185	47
Power supply	V/ph/Hz			400/3/50+N+PE			
Free-cooling data							
Cooling capacity (Total) ⁽³⁾ ESP 20 Pa	kW	58,3	57,6	67,9	69,8	84,7	84,6
Tot. absorbed power ⁽²⁾ ESP 20 Pa	kW	2,4	2,3	2,6	2,8	3,2	3,1
SHR		1,00	1,00	1,00	1,00	1,00	1,00
Water flow	m ³ /h	13,0	12,5	13,7	15,6	18,6	18,5
Pressure drop (water coil+condenser+valve)	kPa	13,0	12,5	13,7	15,6	18,6	18,5
Water flow	m ³ /h	13,0	12,5	13,7	15,6	18,6	18,5
Total pressure drops	kPa	56	38	43	66	57	44
Humidifier							
Steam production (nominal)	kg/h	8	8	8	8	8	8
Steam production (max.)	kg/h	8	8	8	8	8	8
Max. absorbed power	kW	6,0	6,0	6,0	6,0	6,0	6,0
Max. absorbed current	A	8,7	8,7	8,7	8,7	8,7	8,7
Specific conductibility at 20°C (min/max)	µS/cm	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250
Total hardness (min/max)	mg/l CaCO ₃	100/400	100/400	100/400	100/400	100/400	100/400
Electrical heaters							
Steps	n°	3	3	3	3	3	3
Power	kW	18,0	18,0	24,0	24,0	27,0	27,0
Absorbed current	A	26,0	26,0	34,6	34,6	39,0	39,0
Oversized electrical heaters							
Steps	n°	3	3	3	3	3	3
Power	kW	24,0	24,0	27,0	27,0	36,0	36,0
Absorbed current	A	34,6	34,6	39,0	39,0	52,0	52,0
Hot water coil							
Heating capacity ⁽⁴⁾	kW	37,4	37,4	48,9	48,9	60,8	60,8
Water flow	m ³ /h	6,5	6,5	8,5	8,5	10,6	10,6
Pressure drop (coil + 3 way valve)	kPa	34	34	48	48	42	42
Coil internal volume	dm ³	7,1	7,1	10,5	10,5	12,6	12,6
Condensing water pump							
Nominal flow	l/h	390,0	390,0	390,0	390,0	390,0	390,0
Max. flow (prevalence = 0 m)	l/h	500	500	500	500	500	500
Max. discharge height (flow = 0 m ³ /h)	m	5,4	5,4	5,4	5,4	5,4	5,4
Condensing water pump + humidifier							
Nominal flow	l/h	600	600	600	600	600	600
Max. flow (prevalence = 0 m)	l/h	900	900	900	900	900	900
Max. discharge height (flow = 0 m ³ /h)	m	6,0	6,0	6,0	6,0	6,0	6,0
Dimensions and weight							
Frame	n°	6	6	7	7	8	8
Width	mm	2210	2210	2565	2565	3100	3100
Depth	mm	850	850	850	850	850	850
Height	mm	1980	1980	1980	1980	1980	1980
Weight (Configuration U)	Kg	686	711	833	819	1003	1022
Weight (Configuration V)	Kg	693	718	841	828	1014	1032
Weight (Configuration D)	Kg	696	722	845	832	1019	1037
Weight (Configuration B)	Kg	693	718	841	828	1014	1032

DXi.AF		181	251	381	392	531	532
Cooling capacity (Total) ⁽¹⁾ ESP 20 Pa	kW	20,1	27,1	40,1	42,0	59,5	56,9
Cooling capacity (Sensible) ⁽¹⁾ ESP 20 Pa	kW	17,0	24,2	38,3	38,4	52,6	52,3
Tot. absorbed power ⁽²⁾ ESP 20 Pa	kW	5,3	7,4	10,1	10,5	15,0	14,6
SHR		0,91	0,96	1,00	0,99	0,95	0,99
Air flow	m ³ /h	5700	8150	11500	11500	14500	14500
Fan	n	1	1	1	1	2	2
Max. ESP	Pa	830	615	615	615	640	640
EER	W/W	3,78	3,66	3,97	4,00	3,97	3,90
Maximum absorbed power	kW	10,6	11,5	16,4	18,6	24,3	23
Maximum absorbed current	A	21	21,2	25,6	37,6	36,9	42,4
Starting current	A	17,8	17,8	21,6	34,4	32	39
Power supply	V/ph/Hz			400/3/50+N+PE			
Free - cooling							
Cooling capacity (Total) ⁽¹⁾ ESP 20 Pa	kW	17,7	25,9	36,8	36,8	47,7	47,7
Tot. absorbed power ⁽²⁾ ESP 20 Pa	kW	0,58	0,84	1,32	1,39	1,61	1,68
SHR		0,96	0,95	0,95	0,95	0,95	0,95
Water flow	m ³ /h	3,13	4,58	6,54	6,54	8,45	8,45
Pressure drop (coil + valve)	kPa	18,2	28,8	26,8	28,4	42,4	41,7
Total pressure drop	kPa	18,2	28,8	26,8	28,4	42,4	41,7
Humidifier							
Steam production (nominal)	kg/h	5	8	8	8	8	8
Steam production (max.)	kg/h	8	8	8	8	8	8
Max. absorbed power	kW	3,75	6	6	6	6	6
Max. absorbed current	A	5,5	8,7	8,7	8,7	8,7	8,7
Specific conductibility at 20°C (min/max)	µS/cm	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250
Total hardness (min/max)	mg/l CaCO ₃	100/400	100/400	100/400	100/400	100/400	100/400
Electrical heaters							
Steps	n°	2	3	3	3	3	3
Power	kW	6	9	9	9	15	15
Absorbed current	A	8,7	13	13	13	21,7	21,7
Oversized electrical heaters							
Steps	n°	3	3	3	3	3	3
Power	kW	9	12	12	12	18	18
Absorbed current	A	13	17,3	17,3	17,3	26	26
Hot water coil							
Heating capacity ⁽³⁾	kW	10,6	16,7	24,5	24,5	31,1	31,1
Water flow	m ³ /h	1,8	2,9	4,3	4,3	5,43	5,43
Pressure drop (coil + 3 way valve)	kPa	48	56	46	46	53	53
Coil internal volume	dm ³	2,1	3,3	4,7	4,7	5,8	5,8
Condensing water pump							
Nominal flow	l/h	390	390	390	390	390	390
Max. flow (prevalence = 0 m)	l/h	500	500	500	500	500	500
Max. discharge height (flow=0 m ³ /h)	m	5,4	5,4	5,4	5,4	5,4	5,4
Condensing water pump + humidifier							
Nominal flow	l/h	-	600	600	600	600	600
Max. flow (prevalence = 0 m)	l/h	-	900	900	900	900	900
Max. discharge height (flow=0 m ³ /h)	m	-	6	6	6	6	6
Dimensions and weight							
Frame	n°	3	4	4,5	4,5	5	5
Width	mm	980	1160	1505	1505	1860	1860
Depth	mm	750	850	850	850	850	850
Height	mm	1980	1980	1980	1980	1980	1980
Weight (Configuration U)	Kg	297	352	446	463	560	575
Weight (Configuration V)	Kg	301	356	452	469	566	581
Weight (Configuration D)	Kg	303	359	454	471	570	585
Weight (Configuration B)	Kg	301	356	452	469	566	581

Performances are referred to the following conditions:

(1) Ambient temperature 24°C, Relative humidity 50%, Condensing temperature 48°C.

(2) The fans electrical power has to be added to the ambient load.

(3) Water temperature 40/45°C, Ambient temperature 20°C, Relative humidity 50%.

DXi.AF		631	652	742	761	931	952
Cooling capacity (Total) ⁽¹⁾ ESP 20 Pa	kW	71,5	78,2	80,7	89,4	105,6	115,6
Cooling capacity (Sensible) ⁽¹⁾ ESP 20 Pa	kW	63,6	65,6	74,7	77,7	93,9	97,2
Tot. absorbed power ⁽²⁾ ESP 20 Pa	kW	17,6	19,6	19,9	22,5	26,0	29,5
SHR		0,96	0,91	1,00	0,94	0,96	0,91
Air flow	m ³ /h	17600	17600	20900	20900	25700	25700
Fan	n	2	2	2	2	3	3
Max. ESP	Pa	640	640	645	645	665	665
EER	W/W	4,06	3,99	4,05	3,97	4,06	3,92
Maximum absorbed power	kW	27,7	30,8	32,7	35,9	44,5	48,8
Maximum absorbed current	A	46,6	48,4	51,2	57,9	76,3	73,8
Starting current	A	156,4	44,4	47,2	167,7	185,3	68,9
Power supply	V/ph/Hz			400/3/50+N+PE			
Free - cooling							
Cooling capacity (Total) ⁽¹⁾ ESP 20 Pa	kW	57,2	57,2	69,7	69,7	84,2	84,2
Tot. absorbed power ⁽²⁾ ESP 20 Pa	kW	2,13	2,13	2,44	2,44	2,81	2,82
SHR		0,95	0,95	0,90	0,90	0,95	0,95
Water flow	m ³ /h	10,1	10,1	12,4	12,4	14,9	14,9
Pressure drop (coil + valve)	kPa	35,2	34,3	30,8	34,3	28,1	28,0
Total pressure drop	kPa	35,2	34,3	30,8	34,3	28,1	28,0
Humidifier							
Steam production (nominal)	kg/h	8	8	8	8	8	8
Steam production (max.)	kg/h	8	8	8	8	8	8
Max. absorbed power	kW	6	6	6	6	6	6
Max. absorbed current	A	8,7	8,7	8,7	8,7	8,7	8,7
Specific conductibility at 20°C (min/max)	µS/cm	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250
Total hardness (min/max)	mg/l CaCO ₃	100/400	100/400	100/400	100/400	100/400	100/400
Electrical heaters							
Steps	n°	3	3	3	3	3	3
Power	kW	18	18	24	24	27	27
Absorbed current	A	26	26	34,6	34,6	39	39
Oversized electrical heaters							
Steps	n°	3	3	3	3	3	3
Power	kW	24	24	27	27	36	36
Absorbed current	A	34,6	34,6	39	39	52	52
Hot water coil							
Heating capacity ⁽³⁾	kW	37,4	37,4	48,9	48,9	60,8	60,8
Water flow	m ³ /h	6,5	6,5	8,5	8,5	10,6	10,6
Pressure drop (coil + 3 way valve)	kPa	34	34	48	48	42	42
Coil internal volume	dm ³	7,1	7,1	10,45	10,45	12,6	12,6
Condensing water pump							
Nominal flow	l/h	390	390	390	390	390	390
Max. flow (prevalence = 0 m)	l/h	500	500	500	500	500	500
Max. discharge height (flow=0 m ³ /h)	m	5,4	5,4	5,4	5,4	5,4	5,4
Condensing water pump + humidifier							
Nominal flow	l/h	600	600	600	600	600	600
Max. flow (prevalence = 0 m)	l/h	900	900	900	900	900	900
Max. discharge height (flow=0 m ³ /h)	m	6	6	6	6	6	6
Dimensions and weight							
Frame	n°	6	6	7	7	8	8
Width	mm	2210	2210	2565	2565	3100	3100
Depth	mm	850	850	850	850	850	850
Height	mm	1980	1980	1980	1980	1980	1980
Weight (Configuration U)	Kg	680	684	807	810	996	994
Weight (Configuration V)	Kg	687	692	815	818	1006	1004
Weight (Configuration D)	Kg	691	695	819	822	1011	1009
Weight (Configuration B)	Kg	687	692	815	818	1006	1004

Performances are referred to the following conditions:

(1) Ambient temperature 24°C, Relative humidity 50%, Condensing temperature 48°C.

(2) The fans electrical power has to be added to the ambient load.

(3) Water temperature 40/45°C, Ambient temperature 20°C, Relative humidity 50%.

DXi.H		61	111	121	151	181	201	251	321
Cooling capacity (Total) ⁽¹⁾ ESP 20 Pa	kW	7,7	10,5	12,1	17,7	20,2	21,7	25,9	35,1
Cooling capacity (Sensible) ⁽¹⁾ ESP 20 Pa	kW	7,7	9,5	11,8	15,4	18,5	21,7	24,8	31,6
Tot. absorbed power ⁽²⁾ ESP 20 Pa	kW	2,1	3,0	3,2	4,5	4,7	4,8	6,4	7,6
SHR		1,00	0,91	0,97	0,88	0,91	1,00	0,96	0,90
Water flow	m ³ /h	1,7	2,3	2,6	3,8	4,3	4,6	5,6	7,3
Pressure drop	kPa	46	35	45	45	33	37	29	27
Air flow	m ³ /h	3900	3900	3900	3900	5700	5700	8150	8150
Fan	n	1	1	1	1	1	1	1	1
Max. ESP	Pa	535	536	512	439	622	575	399	358
EER	W/W	4,0	3,8	4,1	4,2	4,7	4,9	4,4	5,0
Maximum absorbed power	kW	4	6	6	9	11	11	12	15
Maximum absorbed current	A	14	18	18	16	21	21	21	24
Starting current	A	4	4	4	4	7	7	6	6
Power supply	V/ph/Hz					400/3/50+N+PE			
Humidifier									
Steam production (nominal)	kg/h	3	3	3	3	5	5	8	8
Steam production (max.)	kg/h	3	3	3	3	8	8	8	8
Max. absorbed power	kW	2,25	2,25	2,25	2,25	3,75	3,75	6,0	6,0
Max. absorbed current	A	10,0	10,0	10,0	10,0	5,5	5,5	8,7	8,7
Specific conductivity at 20°C (min/max)	µS/cm	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250
Total hardness (min/max)	mg/l CaCO ₃	100/400	100/400	100/400	100/400	100/400	100/400	100/400	100/400
Electrical heaters									
Steps	n°	3	3	3	3	2	2	3	3
Power	kW	4,5	4,5	4,5	4,5	6,0	6,0	9,0	9,0
Absorbed current	A	6,5	6,5	6,5	6,5	8,7	8,7	13,0	13,0
Oversized electrical heaters									
Steps	n°	2	2	2	2	3	3	3	3
Power	kW	6,0	6,0	6,0	6,0	9,0	9,0	12,0	12,0
Absorbed current	A	8,7	8,7	8,7	8,7	13,0	13,0	17,3	17,3
Hot water coil									
Heating capacity ⁽³⁾	kW	7,3	7,3	7,3	7,3	10,6	10,6	16,7	16,7
Water flow	m ³ /h	1,3	1,3	1,3	1,3	1,8	1,8	2,9	2,9
Pressure drop (coil + 3 way valve)	kPa	31	31	31	31	48	48	56	56
Coil internal volume	dm ³	1,4	1,4	1,4	1,4	2,1	2,1	3,3	3,3
Condensing water pump									
Nominal flow	l/h	390,0	390,0	390,0	390,0	390,0	390,0	390,0	390,0
Max. flow (prevalence = 0m)	l/h	500	500	500	500	500	500	500	500
Max. discharge height (flow=0m ³ h)	m	5,4	5,4	5,4	5,4	5,4	5,4	5,4	5,4
Condensing water pump + humidifier									
Nominal flow	l/h	-	-	-	-	-	-	600	600
Max. flow (prevalence = 0m)	l/h	-	-	-	-	-	-	900	900
Max. discharge height (flow=0m ³ h)	m	-	-	-	-	-	-	6,0	6,0
Dimensions and weight									
Frame	n°	2	2	2	2	3	3	4	4
Width	mm	750	750	750	750	980	980	1160	1160
Depth	mm	550	550	550	550	750	750	850	850
Height	mm	1980	1980	1980	1980	1980	1980	1980	1980
Weight (Configuration U)	Kg	201	209	212	223	289	297	339	372
Weight (Configuration V)	Kg	204	212	215	226	293	301	343	376
Weight (Configuration D)	Kg	205	213	217	228	295	303	345	379
Weight (Configuration B)	Kg	204	212	215	226	293	301	343	376

Performances are referred to the following conditions:

(1) Ambient temperature 24°C, Relative humidity 50%, Water temperature 30/35°C.

(2) The fans electrical power has to be added to the ambient load.

(3) Water temperature 40/45°C, Ambient temperature 20°C, Relative humidity 50%.

DXi.H		381	392	472	491	531	532	631	652
Cooling capacity (Total) ⁽¹⁾ ESP 20 Pa	kW	36,4	39,4	48,0	50,9	55,0	53,7	68,1	70,6
Cooling capacity (Sensible) ⁽¹⁾ ESP 20 Pa	kW	37,5	35,0	40,7	45,4	53,4	52,8	65,3	66,2
Tot. absorbed power ⁽²⁾ ESP 20 Pa	kW	8,0	8,0	11,0	11,8	12,2	13,0	14,6	15,5
SHR		1,00	0,89	0,85	0,89	0,97	0,98	0,96	0,94
Water flow	m ³ /h	7,6	8,2	10,1	10,8	11,6	11,5	14,2	14,8
Pressure drop	kPa	21	7	10	33	37	12	28	10
Air flow	m ³ /h	11500	11500	11500	11500	14500	14500	17600	17600
Fan	n	1	1	1	1	2	2	2	2
Max. ESP	Pa	344	399	370	323	389	360	390	361
EER	W/W	4,9	5,4	4,7	4,7	4,9	4,5	5,0	4,9
Maximum absorbed power	kW	16	19	21	23	24	23	28	31
Maximum absorbed current	A	26	38	40	34	37	42	47	48
Starting current	A	8	24	25	8	10	27	156	30
Power supply	V/ph/Hz				400/3/50+N+PE				
Humidifier									
Steam production (nominal)	kg/h	8	8	8	8	8	8	8	8
Steam production (max.)	kg/h	8	8	8	8	8	8	8	8
Max. absorbed power	kW	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0
Max. absorbed current	A	8,7	8,7	8,7	8,7	8,7	8,7	8,7	8,7
Specific conductivity at 20°C (min/max)	µS/cm	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250
Total hardness (min/max)	mg/l CaCO ₃	100/400	100/400	100/400	100/400	100/400	100/400	100/400	100/400
Electrical heaters									
Steps	n°	3	3	3	3	3	3	3	3
Power	kW	9,0	9,0	9,0	9,0	15,0	15,0	18,0	18,0
Absorbed current	A	13,0	13,0	13,0	13,0	21,7	21,7	26,0	26,0
Oversized electrical heaters									
Steps	n°	3	3	3	3	3	3	3	3
Power	kW	12,0	12,0	12,0	12,0	18,0	18,0	24,0	24,0
Absorbed current	A	17,3	17,3	17,3	17,3	26,0	26,0	34,6	34,6
Hot water coil									
Heating capacity ⁽³⁾	kW	24,5	24,5	24,5	24,5	31,1	31,1	37,4	37,4
Water flow	m ³ /h	4,3	4,3	4,3	4,3	5,43	5,43	6,5	6,5
Pressure drop (coil + 3 way valve)	kPa	46	46	46	46	53	53	34	34
Coil internal volume	dm ³	4,7	4,7	4,7	4,7	5,8	5,8	7,1	7,1
Condensing water pump									
Nominal flow	l/h	390,0	390,0	390,0	390,0	390,0	390,0	390,0	390,0
Max. flow (prevalence = 0m)	l/h	500	500	500	500	500	500	500	500
Max. discharge height (flow=0m ³ h)	m	5,4	5,4	5,4	5,4	5,4	5,4	5,4	5,4
Condensing water pump + humidifier									
Nominal flow	l/h	600	600	600	600	600	600	600	600
Max. flow (prevalence = 0m)	l/h	900	900	900	900	900	900	900	900
Max. discharge height (flow=0m ³ h)	m	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0
Dimensions and weight									
Frame	n°	4,5	4,5	4,5	4,5	5	5	6	6
Width	mm	1505	1505	1505	1505	1860	1860	2210	2210
Depth	mm	850	850	850	850	850	850	850	850
Height	mm	1980	1980	1980	1980	1980	1980	1980	1980
Weight (Configuration U)	Kg	428	456	458	435	525	548	627	652
Weight (Configuration V)	Kg	433	462	464	440	531	554	634	660
Weight (Configuration D)	Kg	436	465	466	443	535	558	638	663
Weight (Configuration B)	Kg	433	462	464	440	531	554	634	660

Performances are referred to the following conditions:

(1) Ambient temperature 24°C, Relative humidity 50%, Water temperature 30/35°C.

(2) The fans electrical power has to be added to the ambient load.

(3) Water temperature 40/45°C, Ambient temperature 20°C, Relative humidity 50%.

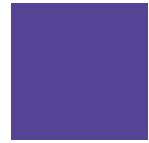
DXi.H		691	742	761	861	931	952	1021	1142
Cooling capacity (Total) ⁽¹⁾ ESP 20 Pa	kW	72,2	76,4	85,9	87,3	100,3	104,6	107,4	118,9
Cooling capacity (Sensible) ⁽¹⁾ ESP 20 Pa	kW	67,0	75,8	80,1	80,7	96,5	98,0	99,4	104,5
Tot. absorbed power ⁽²⁾ ESP 20 Pa	kW	15,7	16,9	18,7	19,9	21,9	23,5	22,9	26,8
SHR		0,93	0,99	0,93	0,92	0,96	0,94	0,93	0,88
Water flow	m ³ /h	15,1	16,0	18,0	18,4	21,0	22,0	22,4	25,1
Pressure drop	kPa	31	11	29	21	26	12	22	15
Air flow	m ³ /h	17600	20900	20900	20900	25700	25700	25700	25700
Fan	n	2	2	2	2	3	3	3	3
Max. ESP	Pa	390	365	394	394	414	385	414	386
EER	W/W	5,0	4,9	5,0	4,7	4,9	4,8	5,1	4,8
Maximum absorbed power	kW	30	33	36	38	45	49	47	56
Maximum absorbed current	A	50	51	58	61	76	74	79	93
starting current	A	167	33	168	179	185	47	219	203
Power supply	V/ph/Hz					400/3/50+N+PE			
Humidifier									
Steam production (nominal)	kg/h	8	8	8	8	8	8	8	8
Steam production (max.)	kg/h	8	8	8	8	8	8	8	8
Max. absorbed power	kW	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0
Max. absorbed current	A	8,7	8,7	8,7	8,7	8,7	8,7	8,7	8,7
Specific conductibility at 20°C (min/max)	µS/cm	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250
Total hardness (min/max)	mg/l CaCO ₃	100/400	100/400	100/400	100/400	100/400	100/400	100/400	100/400
Electrical heaters									
Steps	n°	3	3	3	3	3	3	3	3
Power	kW	18,0	24,0	24,0	24,0	27,0	27,0	27,0	27,0
Absorbed current	A	26,0	34,6	34,6	34,6	39,0	39,0	39,0	39,0
Oversized electrical heaters									
Steps	n°	3	3	3	3	3	3	3	3
Power	kW	24,0	27,0	27,0	27,0	36,0	36,0	36,0	36,0
Absorbed current	A	34,6	39,0	39,0	39,0	52,0	52,0	52,0	52,0
Hot water coil									
Heating capacity ⁽³⁾	kW	37,4	48,9	48,9	48,9	60,8	60,8	60,8	60,8
Water flow	m ³ /h	6,5	8,5	8,5	8,5	10,6	10,6	10,6	10,6
Pressure drop (coil + 3 way valve)	kPa	34	48	48	48	42	42	42	42
Coil internal volume	dm ³	7,1	10,45	10,45	10,45	12,6	12,6	12,6	12,6
Condensing water pump									
Nominal flow	l/h	390,0	390,0	390,0	390,0	390,0	390,0	390,0	390,0
Max. flow (prevalence = 0m)	l/h	500	500	500	500	500	500	500	500
Max. discharge height (flow=0m ³ h)	m	5,4	5,4	5,4	5,4	5,4	5,4	5,4	5,4
Condensing water pump + humidifier									
Nominal flow	l/h	600	600	600	600	600	600	600	600
Max. flow (prevalence = 0m)	l/h	900	900	900	900	900	900	900	900
Max. discharge height (flow=0m ³ h)	m	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0
Dimensions and weight									
Frame	n°	6	7	7	7	8	8	8	8
Width	mm	2210	2565	2565	2565	3100	3100	3100	3100
Depth	mm	850	850	850	850	850	850	850	850
Height	mm	1980	1980	1980	1980	1980	1980	1980	1980
Weight (Configuration U)	Kg	627	749	735	739	900	919	904	995
Weight (Configuration V)	Kg	634	757	743	748	910	929	915	1006
Weight (Configuration D)	Kg	638	761	747	752	915	934	920	1011
Weight (Configuration B)	Kg	634	757	743	748	910	929	915	1006

Performances are referred to the following conditions:

(1) Ambient temperature 24°C, Relative humidity 50%, Water temperature 30/35°C.

(2) The fans electrical power has to be added to the ambient load.

(3) Water temperature 40/45°C, Ambient temperature 20°C, Relative humidity 50%.



WATER UNITS

(1) Ambient temperature 24°, Relative humidity 50% , Water temperature 7/12°C

(2) The fans absorbed electrical power must be added to the ambient charge.

WU		960	1050	1300	1450	1600	1710	1900	2100	2300
Cooling capacity (Totale) ¹ ESP 20 Pa	kW	63,2	68,9	88,2	95,2	106,9	115,4	126,2	140,1	157,5
Cooling capacity (Sensible) ¹ ESP 20 Pa	kW	51,6	55,4	70,4	77,6	85,2	93,9	100,7	114,3	125,6
Tot. absorbed power (fans) ² ESP 20 Pa	kW	1,9	2	2,2	2,7	2,9	3,1	3,3	3,5	3,8
SHR		0,81	0,80	0,79	0,81	0,79	0,81	0,79	0,81	0,79
Air flow	m ³ /h	13400	13400	16600	20100	20100	23800	23800	29500	29500
N° Fan		1	1	2	2	2	2	2	3	3
ESP max.	Pa	308	291	369	277	293	371	366	398	413
Coil+2 way valve pressure drop	kPa	41	42	35	40	43	47	50	37	40
Water flow	m ³ /h	10,9	11,9	15,2	16,4	18,4	19,8	21,7	24,1	27,1
Power supply	V/ph/Hz	400/3+N+T/ 50								
Humidifier										
Steam production (nominal)	kg/h	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0
Steam production (max)	kg/h	8	8	8	8	8	8	8	8	8
Maximum absorbed power	kW	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0
Maximum absorbed current	A	8,7	8,7	8,7	8,7	8,7	8,7	8,7	8,7	8,7
Specific conductibility at 20°C (min/max)	µS/cm	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250
Total hardness (min/max)	mg/l CaCO ₃	100/400	100/400	100/400	100/400	100/400	100/400	100/400	100/400	100/400
Electrical heaters										
Steps	n°	3	3	3	3	3	3	3	3	3
Power	kW	9,0	9,0	15,0	18,0	18,0	24,0	24,0	27,0	27,0
Absorbed current	A	13,0	13,0	21,7	26,0	26,0	34,6	34,6	39,0	39,0
Oversized electrical heaters										
Steps	n°	3	3	3	3	3	3	3	3	3
Power	kW	12,0	12,0	18,0	24,0	24,0	27,0	27,0	36,0	36,0
Absorbed current	A	17,3	17,3	26,0	34,6	34,6	39,0	39,0	52,0	52,0
Hot water coil										
Thermal capacity	kW	24,5	24,5	31,1	37,4	37,4	48,9	48,9	60,8	60,8
Water flow	m ³ /h	4,3	4,3	5,43	6,5	6,5	8,5	8,5	10,6	10,6
Coil+3way valv pressure drop	kPa	46	46	53	34	34	48	48	42	42
Coil internal volume	dm ³	4,7	4,7	5,8	7,1	7,1	10,45	10,45	12,6	12,6
Condensing water pump										
Nominal flow	l/h	390,0	390,0	390,0	390,0	390,0	390,0	390,0	390,0	390,0
Maximum flow (prevalence = 0m)	l/h	500	500	500	500	500	500	500	500	500
Max. discharge height (flow=0m3h)	m	5,4	5,4	5,4	5,4	5,4	5,4	5,4	5,4	5,4
Humidifier + condensig water pump										
Nominal flow	l/h	600	600	600	600	600	600	600	600	600
Maximum flow (prevalence = 0m)	l/h	900	900	900	900	900	900	900	900	900
Max. discharge height (flow=0m3h)	m	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0
Dimensions										
Frame	n°	4,5	4,5	5	6	6	7	7	8	8
Width	mm	1505	1505	1860	2210	2210	2565	2565	3100	3100
Depth	mm	850	850	850	850	850	850	850	850	850
Height	mm	1980	1980	1980	1980	1980	1980	1980	1980	1980
Weight	kg	366	373	456	503	520	600	617	715	751

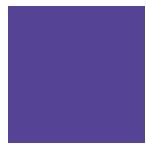
(1) Ambient temperature 24°, Relative humidity 50% , Water temperature 7/12°C

(2) The fans absorbed electrical power must be added to the ambient charge.

WUL		900	1350	1800	2200	2500	3200
Cooling capacity (Totale) ¹ ESP 20 Pa	kW	59,5	85	115,3	136,9	169,1	216,5
Cooling capacity (Sensible) ¹ ESP 20 Pa	kW	48,6	69,4	95	111,6	138,6	176,5
Tot. absorbed power (fans) ² ESP 20 Pa	kW	1,6	2,5	2,9	3,8	5,2	5,4
SHR		0,82	0,82	0,82	0,82	0,82	0,82
Air flow	m ³ /h	12000	16500	22000	26000	33000	41000
N° Fan		1	1	2	2	2	3
ESP max.	Pa	239	161	295	160	150	318
Coil+2 way valve pressure drop	kPa	28	24	37	24	33	52
Water flow	m ³ /h	10,2	14,6	19,8	23,5	29,1	37,2
Power supply	V/ph/Hz	400/3+N+T/ 50	400/3+N+T/ 50	400/3+N+T/ 50	400/3+N+T/ 50	400/3+N+T/ 50	400/3+N+T/ 50
Humidifier							
Steam production (nominal)	kg/h	8	8	15	15	15	15
Steam production (max)	kg/h	8	8	15	15	15	15
Maximum absorbed power	kW	6	6	11,2	11,2	11,2	11,2
Maximum absorbed current	A	8,7	8,7	16,2	16,2	16,2	16,2
Specific conducibility at 20°C (min/max)	µS/cm	300/1250	300/1250	300/1250	300/1250	300/1250	300/1250
Total hardness (min/max)	mg/l CaCO ₃	100/400	100/400	100/400	100/400	100/400	100/400
Electrical heaters							
Steps	n°	2	2	2	2	3	3
Power	kW	7,4	7,4	14,8	14,8	22,2	29,6
Absorbed current	A	10,7	10,7	21,4	21,4	32,0	42,7
Hot water coil							
Thermal capacity	kW	29,7	41,37	54,98	65,62	81,32	101,37
Water flow	m ³ /h	5,18	7,21	9,58	11,43	14,2	17,66
Coil+3way valv pressure drop	kPa	51	50	71	73	61	86
Coil internal volume	dm ³	7,6	11,54	13,47	15,28	17,27	22,23
Condensing water pump							
Nominal flow	l/h	390	390	390	390	390	390
Maximum flow (prevalence = 0m)	l/h	500	500	500	500	500	500
Max. discharge height (flow=0m3h)	m	5,4	5,4	5,4	5,4	5,4	5,4
Humidifier + condensig water pump							
Nominal flow	l/h	600	600	600	600	600	600
Maximum flow (prevalence = 0m)	l/h	900	900	900	900	900	900
Max. discharge height (flow=0m3h)	m	6,0	6,0	6,0	6,0	6,0	6,0
Dimensions							
Frame	n°	4	4,5	5	6	7	8
Width	mm	1160	1505	1860	2210	2565	3100
Depth	mm	850	850	850	850	850	850
Height	mm	1980 + 550	1980 + 550	1980 + 550	1980 + 550	1980 + 550	1980 + 550
Weight	kg	383	485	577	646	775	959

(1) Ambient temperature 24°, Relative humidity 50% , Water temperature 7/12°C

(2) The fans absorbed electrical power must be added to the ambient charge.



INROW UNITS
DIRECT EXPANSION / WATER UNITS

IRDXi		IR30.DXi 12	IR30.DXi 22	IR30.DXi 27	IR60.DXi 40	IR60.DXi 50
Net Cooling capacity (Total) ⁽¹⁾	kW	12,9	20,7	27,7	40,1	52,6
Cooling capacity (Sensible) ⁽¹⁾	kW	12,9	20,7	27,7	40,1	52,6
Tot. absorbed power ⁽²⁾	kW	3,89	5,20	7,58	9,66	13,04
SHR		1,00	1,00	1,00	1,00	1,00
Air flow	m ³ /h	3000	4000	5000	8000	9000
Fan	n	3	4	4	4	4
Max. ESP	Pa	194	179	218	216	167
Unit EER without remote condenser to max. frequency	W/W	3,6	4,3	4,1	4,5	4,4
Maximum absorbed power	kW	5,1	8,2	10,7	14,8	21,1
Maximum absorbed current	A	21,0	22,6	25,8	30,0	38,5
Power supply	V/ph/Hz			400/3/50+N+PE		
Humidifier						
Steam production (nominal)	kg/h	3	3	3	5	5
Steam production (max.)	kg/h	3	3	3	8	8
Max. absorbed power	kW	2,25	2,25	2,25	3,75	3,75
Max. absorbed current	A	10,0	10,0	10,0	5,5	5,5
Specific conductibility at 20°C (min/max)	µS/cm	300/1250	300/1250	300/1250	300/1250	300/1250
Total hardness (min/max)	mg/l CaCO ₃	100/400	100/400	100/400	100/400	100/400
Electrical heaters						
Steps	n°	1	1	1	3	3
Power	kW	3,0	3,0	3,0	9,0	9,0
Absorbed current	A	4,3	4,3	4,3	13,0	13,0
Condensing water pump						
Nominal flow	l/h	390,0	390,0	390,0	390,0	390,0
Max. flow (prevalence = 0 m)	l/h	500	500	500	500	500
Max. discharge height (flow=0 m ³ /h)	m	5,4	5,4	5,4	5,4	5,4
Condensing water pump + humidifier						
Nominal flow	l/h	600	600	600	600	600
Max. flow (prevalence = 0 m)	l/h	900	900	900	900	900
Max. discharge height (flow=0 m ³ /h)	m	6,0	6,0	6,0	6,0	6,0
Refrigerant data R410A						
Refrigerant charge		2,2	3,0	3,6	4,6	5,4
Global warming potential (GWP)		2088	2088	2088	2088	2088
Equivalent CO ₂ charge		4,6	6,3	7,5	9,6	11,3
Dimensions and weight						
Width	mm	300	300	300	600	600
Depth ⁽³⁾	mm	1100	1100	1100	1100	1100
Height	mm	2030	2030	2030	2030	2030
Weight	Kg	175	185	200	270	280

(1) Ambient temperature 38°C, Relative humidity 30%, Condensing temperature 50°C.

(2) The fans electrical power has not to be added to the ambient load.

(3) In LL, LR and CL versions, the depth is 1200 mm.

Single circuit remote condenser - Standard version

RCE		211 Kc	311 Kc	421 Kc	571 Kc	671 Kc
Heating capacity ⁽¹⁾	kW	19,2	29,4	44,2	60,5	66,5
Axial fans						
Quantity	n°	2	1	4	2	2
Rotation speed	g/min	1450	1300	1400	1300	1300
Air flow	m ³ /h	5200	6620	9600	13250	12500
Total input power	kW	0,29	0,68	0,58	1,36	1,36
Total nominal current	A	1,36	3,00	2,72	6,00	6,00
Diameter	mm	350	500	350	500	500
Sound pressure level ⁽²⁾	dB(A)	43	48	46	51	51
Sound power level ⁽³⁾	dB(A)	74	79	77	82	82
Dimensions ⁽⁴⁾						
Length - horizontal air flow	mm	1582	1203	2980	2203	2203
Depth - horizontal air flow	mm	480	570	480	570	570
Height - horizontal air flow	mm	510	830	510	830	830
Length - vertical air flow	mm	1582	1219	2980	2219	2219
Depth - vertical air flow	mm	550	895	550	895	895
Height - vertical air flow	mm	811	1099	811	1099	1099
Weight	kg	44	67	88	112	120
Battery capacity	dm ³	1,5	3,0	4,5	5,9	7,2
Input/output connections	mm/mm	16/16	22/22	28/28	28/28	28/28
Power supply	V/ph/Hz			230/1/50+T		

Single circuit remote condenser - Low noise version

RCE-S		151 Kc	261 Kc	351 Kc	501 Kc	571 Kc	651 Kc	1001 Kc
Heating capacity ⁽¹⁾	kW	15,8	22,8	30,9	46,2	57,1	66	78,4
Axial fans								
Quantity	n°	1	1	2	2	3	3	4
Rotation speed	g/min	665	865	665	865	865	865	865
Air flow	m ³ /h	3590	4040	7180	8080	14100	12970	19930
Total input power	kW	0,13	0,22	0,26	0,44	0,66	0,66	0,88
Total nominal current	A	0,59	0,97	1,18	1,94	2,91	2,91	3,88
Diameter	mm	500	500	500	500	500	500	500
Sound pressure level ⁽²⁾	dB(A)	30	37	33	40	41	41	42
Sound power level ⁽³⁾	dB(A)	61	68	64	71	72	72	74
Dimensions ⁽⁴⁾								
Length - horizontal air flow	mm	1203	1203	2203	2203	3203	3203	4373
Depth - horizontal air flow	mm	570	570	570	570	570	570	705
Height - horizontal air flow	mm	830	830	830	830	830	830	1110
Length - vertical air flow	mm	1219	1219	2219	2219	3219	3219	4393
Depth - vertical air flow	mm	895	895	895	895	895	895	1110
Height - vertical air flow	mm	1099	1099	1099	1099	1099	1099	1230
Weight	kg	62	71	104	120	146	157	282
Battery capacity	dm ³	1,9	4,2	3,7	7,2	5,6	8,2	17,7
Input/output connections	mm/mm	16/16	28/28	28/28	28/28	28/28	35/28	42/35
Power supply	V/ph/Hz				230/1/50+T			

(1) Performances are referred to the following conditions: Ambient temperature 35°C, Condensing temperature 50°C.

(2) Sound pressure level measured at 10 mt from the unit in free field conditions according to ISO 3744.

(3) Sound power level according to ISO 3744.

(4) Including support brackets.

IR.WU		IR30.WU 10	IR30.WU 15	IR30.WU 20	IR30.WU 25
Net Cooling capacity (Total) ⁽¹⁾	kW	11,2	17,9	25,9	30,5
Cooling capacity (Sensible) ⁽¹⁾	kW	11,0	17,6	23,6	28,8
Tot. absorbed power ⁽²⁾	kW	0,15	0,33	0,30	0,46
SHR		0,99	0,99	0,91	0,95
Air flow	m ³ /h	2000	3300	3300	4400
Fan	n°	2	3	3	4
Max. ESP	Pa	232	139	160	115
Water flow	m ³ /h	1,9	3,1	4,5	5,2
Maximum absorbed power	kW	0,34	0,51	0,51	0,68
Maximum absorbed current	A	3,30	4,95	4,95	6,60
Power supply	V/ph/Hz	400/3/50+N+PE	400/3/50+N+PE	400/3/50+N+PE	400/3/50+N+PE
Humidifier					
Steam production (nominal)	kg/h	1,5	2	3	3
Steam production (max.)	kg/h	3	3	3	3
Max. absorbed power	kW	2,25	2,25	2,25	2,25
Max. absorbed current	A	10,0	10,0	10,0	10,0
Specific conductibility at 20°C (min/max)	µS/cm	300/1250	300/1250	300/1250	300/1250
Total hardness (min/max)	mg/l CaCO ₃	100/400	100/400	100/400	100/400
Electrical heaters					
Steps	n°	1	1	1	1
Power	kW	3,0	3,0	3,0	3,0
Absorbed current	A	4,3	4,3	4,3	4,3
Condensing water pump					
Nominal flow	l/h	390,0	390,0	390,0	390,0
Max. flow (prevalence = 0 m)	l/h	500	500	500	500
Max. discharge height (flow=0 m ³ /h)	m	5,4	5,4	5,4	5,4
Condensing water pump + humidifier					
Nominal flow	l/h	600	600	600	600
Max. flow (prevalence = 0 m)	l/h	900	900	900	900
Max. discharge height (flow=0 m ³ /h)	m	6,0	6,0	6,0	6,0
Dimensions and weight					
Width	mm	300	300	300	300
Depth ⁽³⁾	mm	1100	1100	1100	1100
Height	mm	2000	2000	2000	2000
Weight	kg	150	160	165	170

(1) Ambient temperature 38°, Water temperature 7/12°C

(2) The fans absorbed electrical power has not be added to the ambient charge.

(3) In LL, LR and CL versions, the depth is 1200 mm.

IR.WU		IR30.WU 33	IR60.WU 42	IR60.WU 47	IR60.WU 56
Net Cooling capacity (Total) ⁽¹⁾	kW	42,4	50,8	56,3	68,8
Cooling capacity (Sensible) ⁽¹⁾	kW	39,9	48,4	55,7	64,9
Tot. absorbed power ⁽²⁾	kW	0,98	0,50	0,73	0,84
SHR		0,94	0,95	0,99	0,94
Air flow	m ³ /h	5600	7500	9000	9000
Fan	n°	4	3	4	4
Max. ESP	Pa	95	225	187	161
Water flow	m ³ /h	7,3	8,7	9,7	11,8
Maximum absorbed power	kW	1,76	1,50	2,00	2,00
Maximum absorbed current	A	8,80	7,50	10,00	10,00
Power supply	V/ph/Hz	400/3/50+N+PE	400/3/50+N+PE	400/3/50+N+PE	400/3/50+N+PE
Humidifier					
Steam production (nominal)	kg/h	3	5	5	5
Steam production (max.)	kg/h	3	8	8	8
Max. absorbed power	kW	2,25	3,75	3,75	3,75
Max. absorbed current	A	10,0	5,5	5,5	5,5
Specific conductibility at 20°C (min/max)	µS/cm	300/1250	300/1250	300/1250	300/1250
Total hardness (min/max)	mg/l CaCO ₃	100/400	100/400	100/400	100/400
Electrical heaters					
Steps	n°	1	3	3	3
Power	kW	3,0	9,0	9,0	9,0
Absorbed current	A	4,3	13,0	13,0	13,0
Condensing water pump					
Nominal flow	l/h	390,0	390,0	390,0	390,0
Max. flow (prevalence = 0 m)	l/h	500	500	500	500
Max. discharge height (flow=0 m ³ /h)	m	5,4	5,4	5,4	5,4
Condensing water pump + humidifier					
Nominal flow	l/h	600	600	600	600
Max. flow (prevalence = 0 m)	l/h	900	900	900	900
Max. discharge height (flow=0 m ³ /h)	m	6,0	6,0	6,0	6,0
Dimensions and weight					
Width	mm	300	600	600	600
Depth ⁽³⁾	mm	1100	1100	1100	1100
Height	mm	2000	2000	2000	2000
Weight	kg	180	245	250	260

(1) Ambient temperature 38°, Water temperature 7/12°C

(2) The fans absorbed electrical power has not be added to the ambient charge.

(3) In LL, LR and CL versions, the depth is 1200 mm.

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