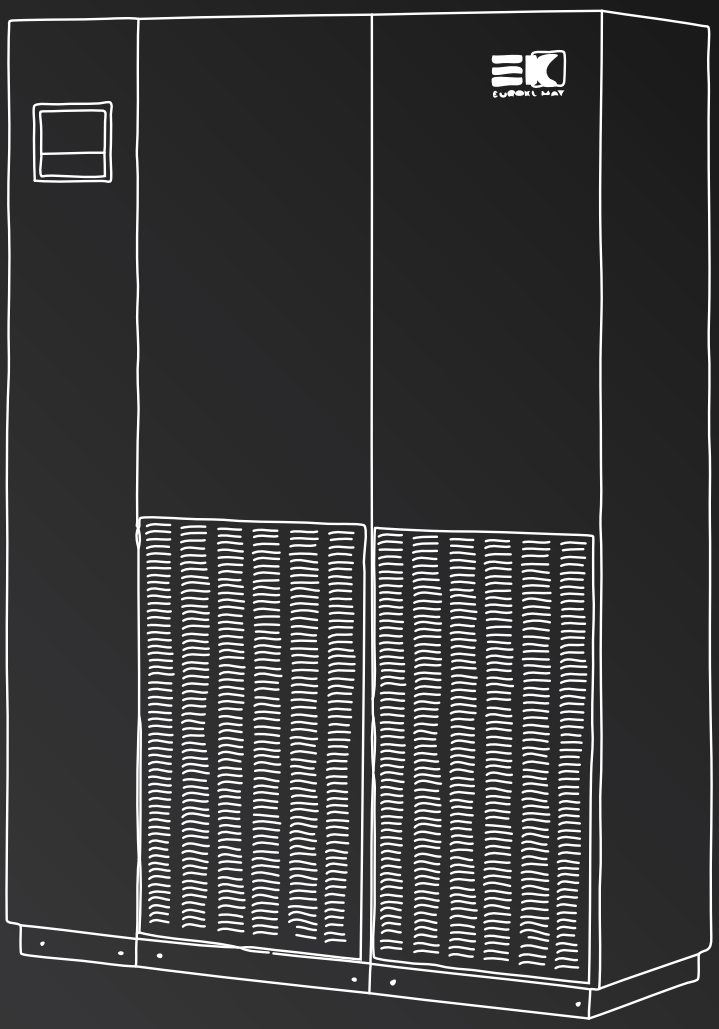


EUROKLIMAT®

COOLING SYSTEM SOLUTIONS

Close Control Catalogue

2011

SUMMARY

INNOVATION, TRADITION, VALUE

...fifty years of innovation...

1963. Klimat born, one of the first companies that offers in the Italian market type semi-hermetic compressors and air-cooled chillers block.

1970. Klimat opens to the Spanish market creating a large industrial complex still active today.

1975. Klimat acquires Interproind, an established company in the temperature control of industrial fluids and start the production of a wide range of chillers for the process.

1975-1985. Klimat is a well known and appreciated reality for its innovative and high quality models. In this years there is the study and manufacture of special conditions for telephony.

1999. The civil and industrial sector was sold and taken over by new shareholders. Born **Euroklimat** dedicated to the production of systems for industrial refrigeration and air conditioning.

2000. Technological experience, deep market knowledge and the ability to respond flexibly to different products and customer's specific needs made **Euroklimat** a company with an international feel: more than 60% of products are exported. **Euroklimat** products, high-impact technology, reveal the special attention of the design, used to save energy and respect for the environment.

2001. **Euroklimat** is certified UNI EN ISO 9001 by the agency DNV.

2004. Rodolfo Caciolli becomes President and Michele Bedin CEO of **Euroklimat** Spa.

2010. The new organization brings to the forefront **Euroklimat** for reliability, performance, ease of maintenance and durability of machines. More generally to a high standard of quality recognized by the whole market.

A name for a story

From March 2003 **Rodolfo Caciolli** is **Euroklimat S.p.A.** CEO and in April 2004 he was appointed president.

Rodolfo Caciolli has professional experience of over 50 years in the field of machines for refrigeration and air conditioning. Always has combined great management skills with the ability to create projects and create innovative products, combining brilliant insights with excellent technical skills. Research on quality and advanced technology were the goals that have characterized his entire career.

Euroklimat is a special company which produces machines for the packaging and unique applications. Today it is led by a man capable of providing the company a wealth of experience in a simple and direct way.

We are assured that **Rodolfo** will contribute to the growing success of **Euroklimat** and its products.

EUROKLIMAT
SINCE 1963

REFERENCES

Wien - Informatic centre 2010

IT	Intesa San Paolo	Air conditioners	BXK, AXK, CWK differents	n	**2010**
IT	Telelombardia	Chilled water unit	CWK.0–T/ST/AS 15 W	4	**2007**
KZ	Petrolchemical plant	Air conditioner with air cooled condenser	BXK.0–B/ST/AS 1051	2	**2008**
IT	Bank Nazionale del Lavoro	Air conditioners	BXK, AXK,CWK, differents	n	**2009**
IT	Acciai Speciali Terni	Air conditioner with water cooled condenser	AXK.0-B/ST/AS E 152 E	3	**2005**
DE	DLR	Chilled water unit	CWK.0 T/ST/AS D050 W	8	**2006**
IT	Unicredito	Air/air heat pump	BXK.0/PC-K/ST/AS D132 E	1	**2005**
IT	Coin	Air conditioner with water cooled condenser	AXK 0 –T/ST/AS F 202 E	2	**2007**
IT	Mediolanum Bank	Air conditioner with air cooled condenser	BXK.U-T/ST/AS C 071 E	2	**2006**
DE	Europaische Patentamt	Chilled water unit	CWK.U T/ST/AS D050 W	2	**2006**
IT	ILVA	Air conditioner with air cooled condenser	BXK.0 B-/ST/AS 1052	3	**2007**
IT	Il Gigante mall	Air conditioner with air cooled condenser	BXK.0-K/ST/AS 061 E	1	**2007**
IT	Recordati Farmaceutici	Chilled water unit	CWK.0-K/ST/AS 020 W	3	**2008**

REFERENCES

Shanghai - China Refrigeration Exhibition 2011

IT	ENEL	Air conditioner with air cooled condenser	BXK.0-T/ST/AS D 132 E	3	**2008**
DE	Plaza Media	Chilled water unit	CWK.0-K/ST/AS 020 W	11	**2006**
IT	ATM	Air conditioner with air cooled condenser	BX.K.0-T/ST/AS A035 E	1	**2008**
IT	Lombardia Informatica	Air conditioner with air cooled condenser	BXK.0-T/ST/AS B 0 70 E	2	**2008**
IT	Iride Energia	Air conditioner with air cooled condenser	BXK.0–T /ST/AS B 061 E	1	**2008**
IT	Popolare di Milano Bank	Air conditioner with water cooled condenser	AXK 0-K/ST/AS 051 E	1	**2006**
IT	Laborsport Italia	Air conditioner with air cooled condenser	BXK.0-T/ST/SP A 022E	1	**2008**
IT	UBI Bank	Air conditioner with air cooled condenser	BXK.0-K/ST/AS B091 E	n	**2009**
DK	Bang & Olufsen	Chilled water unit	CWK.0-T/ST/AS B020 W	1	**2006**
IT	Policlinico	Chilled water unit	CWK.0–T/ST/AS BS 39 W	2	**2008**
IT	Compagnia Generale Trattori	Air conditioner with air cooled condenser	BXK.0–T/ST/AS D102 E	1	**2008**
IT	Comune di Pistoia	Air conditioner with air cooled condenser	BXK.U-T/ST/AS A 040 E	2	**2008**
IT	DHL	Air conditioner with air cooled condenser	BXK 0-T./ST/AS B081 E	1	**2008**

FOCUS

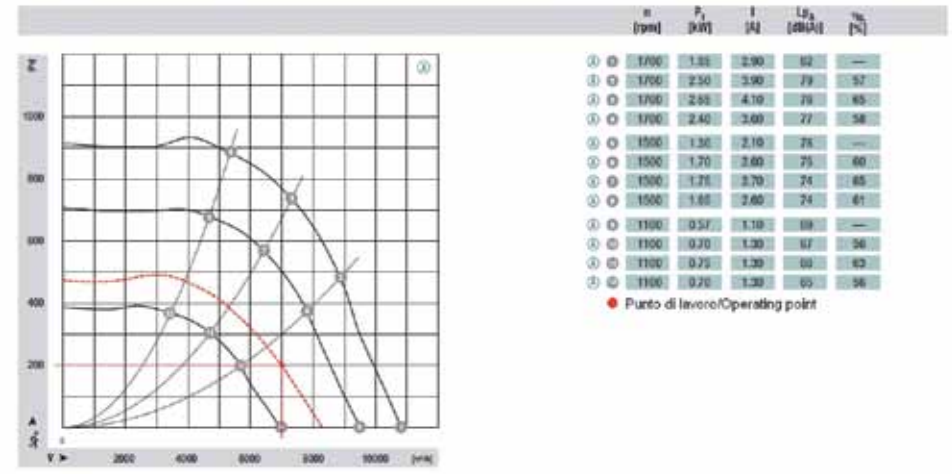
The Plug Fans

The fans have always used for air transportation, manufacturing may be very different from each other depending on the application. The fan coil is great for the amount of air being treated and the content developed, but no commitment to electric high performance in terms of prevalence. The centrifugal fan, unlike the previous show interesting properties and available just about pressure, given the different configuration options, the system with motor directly coupled to external transmission model, proved to be a very flexible product that adapts perfectly to system requirements. So for many years, these fans are used everywhere and have done their job very well.

But the search never stops, and recently we have developed a new product: the fan “Plug Fan”.

FOCUS

This revolutionary device, has unique properties and can address the topic “air” in a completely innovative. Already from the name you can guess what the quality of this product, to describe in a concise, combines the characteristics of the helical fan and the centrifugal expressed through a single object. Provides the electrical absorption and noise characteristics of providing content delivery and head very significant.



The table just wants to be an example of what are the properties of this product and the flexibility that comes from performance. Just because it can be used in a very different way, offering advantages of management of stock components, spare parts on the system, the convenience while you work. Also, the “Plug Fan”, which is technically described as a backward curved centrifugal fan, single inlet and without scroll, used by Euroklimat directly coupled to a synchronous electric motor EC (Electronic Switching) type brushless with continuously variable rotational speed. The results that this system can provide are obvious: by the microprocessor control of the machine sends a proportional signal that interacts with the EC of the gaming motor and produces the change in speed. The optimization of flow rates and removals are guaranteed.

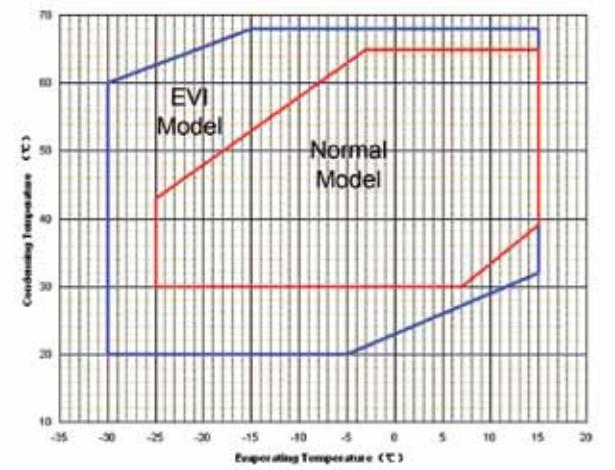
PLUG FAN with EC motor “a new way to handle the usual air”

FOCUS

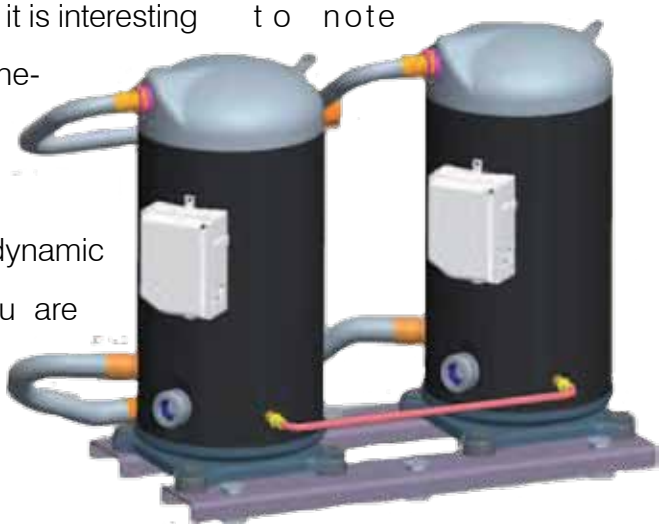
The compressors

Euroklimat uses several types of compressors to meet the different needs of use: the classic “semi-hermetic screw” to the more traditional semi-hermetic alternatives “. But on low power and unity “close control”, Euroklimat employs hermetic “Scroll”. The hermetic scroll compressors, which provide advanced technology to ensure great results and performance, consisting of two spirals orbiting, rotating, compressing the suction gas. Compared to the “old” hermetic reciprocating, offer the advantage of better absorb the blows of liquid in the absence of valves, liquid slugging that despite all the attention the case, sometimes during transient operation, is responsible of serious damage. Also, thanks to their particular constructive configuration, the “scroll” allow a greater number of starts per hour with obvious advantages of regulation and control. The maneuverability, connections, controls and safety devices are easily achievable with commercially available refrigeration components.

FOCUS



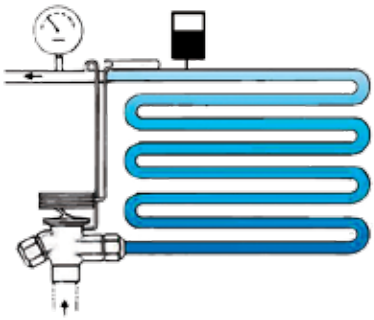
The field experience and in-depth studies of experts brought great results such as, for example, the use of this compressor on heat pumps, where for some models specifically dedicated, it was possible to widen the scope of work so you can reach functional status until a few years ago were unthinkable. In other cases, more attention has been devoted to energy saving with the achievement of the values of EER or COP very interesting. The reduced cooling capacity, which was a bit 'a limit on certain applications of this product, has been overcome by developing the possibility of coupling multiple devices on a single circuit. This, in the past seemed prohibitive for problems of equalization and oil return, is now addressed in a brilliant offering security and functionality in the system. Besides the obvious advantage due to increased cooling capacity to reach with two, three, four compressors coupled, it is interesting to note the possibility of partial power, therefore, the optimal adjustment of the system and process improvement achieved its thermodynamic phase of capacity because you are working on an exchange surface double or triple or quadruple



FOCUS

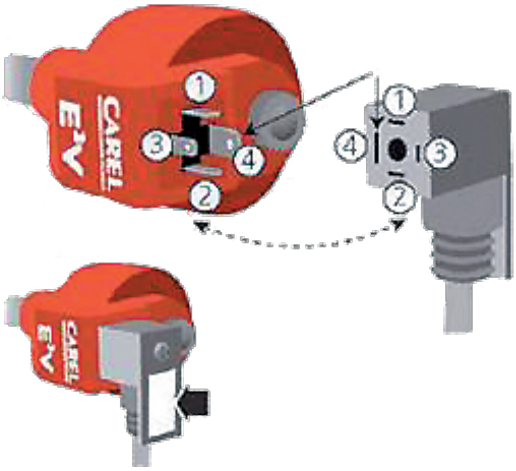
The electronic expansion valve

In the frigorific circuit, the expansion valve has a key role and its proper operation provides security to the system as well as optimize the operation from an energy standpoint. The more traditional expansion valves and more used up to now, are those defined as “thermostatic with external equalizer.” The main functions of this valve are mainly two: to reduce the pressure inside the circuit, setting the refrigerant evaporates, check the value of overheating, to ensure full freon gas inlet of the compressor. The action of this type of valve can be defined as thermo-up of a membrane positioned within act three different pressures: that of evaporation, that of a return spring which also serves to superheat setting, the external equalizer, contrary to the first two. The answers so far are certainly valid, but limited in accuracy and, above all, the ability to adapt to sudden changes in operating conditions. Thanks to electronics, has led to a totally new valve: the “electronic expansion valve.”



FOCUS

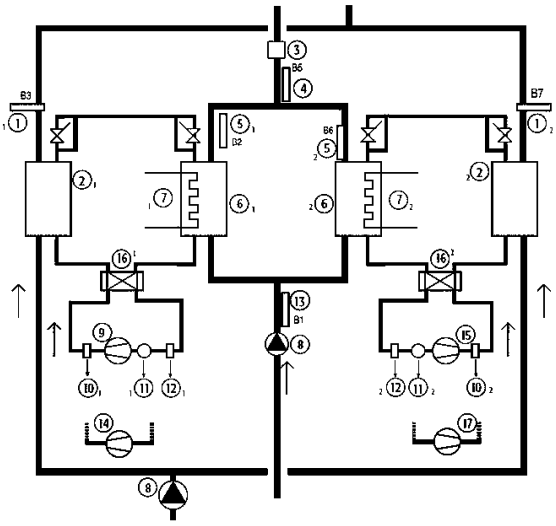
Perhaps, rather than a single element we should speak of the system because there are various components that make up this new system. The mechanical part that bears on the head of the electrical connectors, cables specially crafted link, the electronic management and control. The cards are also achieved by signals from temperature sensors and pressure scattered along the circuit. The “Electronic Expansion System”, after receiving information from sensors, compares the various parameters and sends the command to open or close mechanical element. But even greater is the evidence that all assessments are carried out in a very short time and then, the answer to the system is also very fast. Considering the change in operating conditions, a longer span of time, you get a linear response rather surprising. In some plants was measured energy optimization that led to a global savings of up to 15%, very significant value that drives us to think how important it is to make the right design evaluations.



FOCUS

Electronic controls

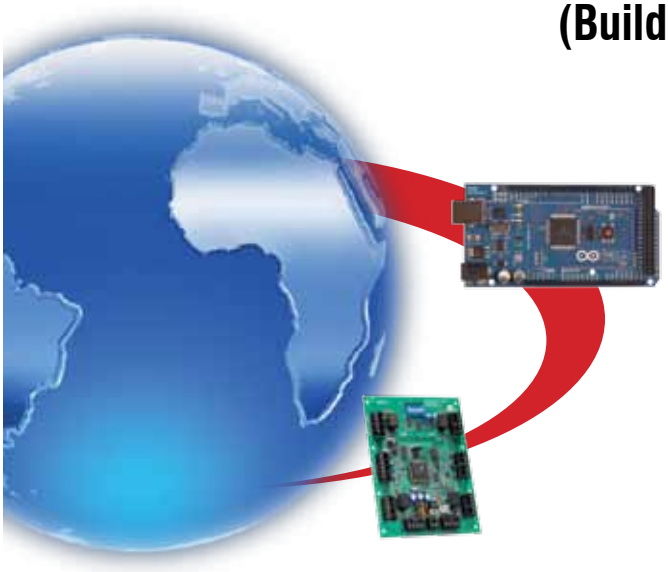
One of the strengths and quality of equipment is the accuracy and deepening management of electronic controls. The new microprocessor-based systems achieve levels of detail is absolutely incredible and the evolution of these systems offered the possibility to control not only the parameters of use but, more importantly, all functions and safety equipment stores. The electronics are basically divided into two basic parts: support for “hardware” and a program software. “ The hardware is made by the printed circuit boards where physically come all the signals from sensors placed along the circuit and where it triggers all the commands on, off, auto, block and counter. These signals can be either on-off as in the case of on / off a compressor, or as variables in proportion to the opening of a valve or a change in fan speed during a condensation control. In the software section, which consists of a computer program physically imprinted on a chip and placed on the Hardware tab, are written all the functions that the device must perform after receiving a signal, however, before sending any commands to the components of machine. While in the past to create a purpose it was necessary to combine the action of some electrical components, today is enough to write it to run. This fact has made it possible to chain several actions, perhaps even for the same function, and make much more sophisticated control or, even, as occurs in some cases carrying out functions that previously were not possible.



FOCUS

LANs that arise through a simple electrical connection, allowing the dialogue more microprocessors and, therefore, more machines with the obvious advantages plant. Moreover, given the now widespread systems “BMS” for total control of buildings, we can interface with the microprocessor of the machines these devices even if the design language is different and, of course, just any producer. If you can not talk directly, you can refer to a “communication protocol” international, through which send their information to the outside.

Global connectivity to all BMS controllers (Building Managemet System)

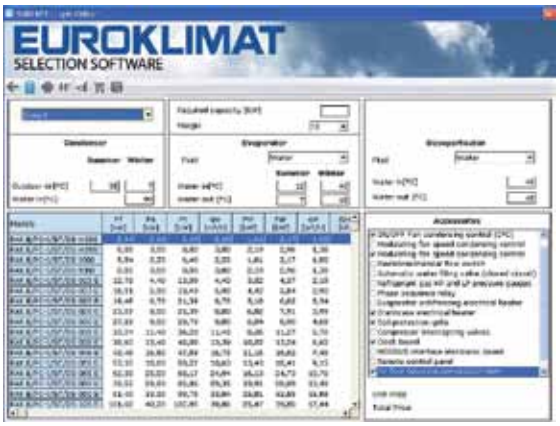


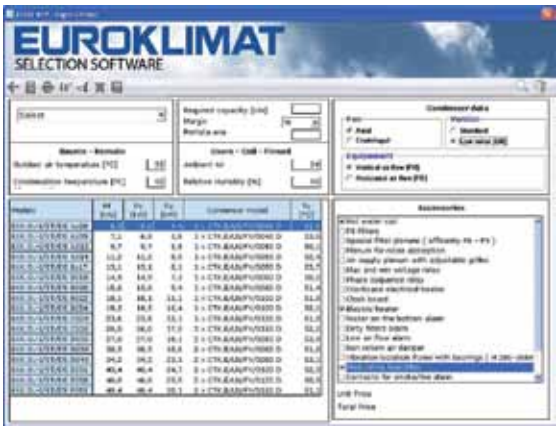
FOCUS

Selection Software

The most delicate problem of every modern company is to be able to provide rapid, accurate and complete informations.
The evolution of communications technology has led to significantly reduce the time available to produce the answers and to make matters worse, the specialized technical / production which has been gaining increasing, has allowed companies to expand product capabilities and configurations.
This has dealt a blow to that part of business that must oversee the preparation and communication of technical data or commercial products. Marketing efforts, documentation, the same sales and even the general trend of the company often depend on the capacity and speed to respond to market demand.

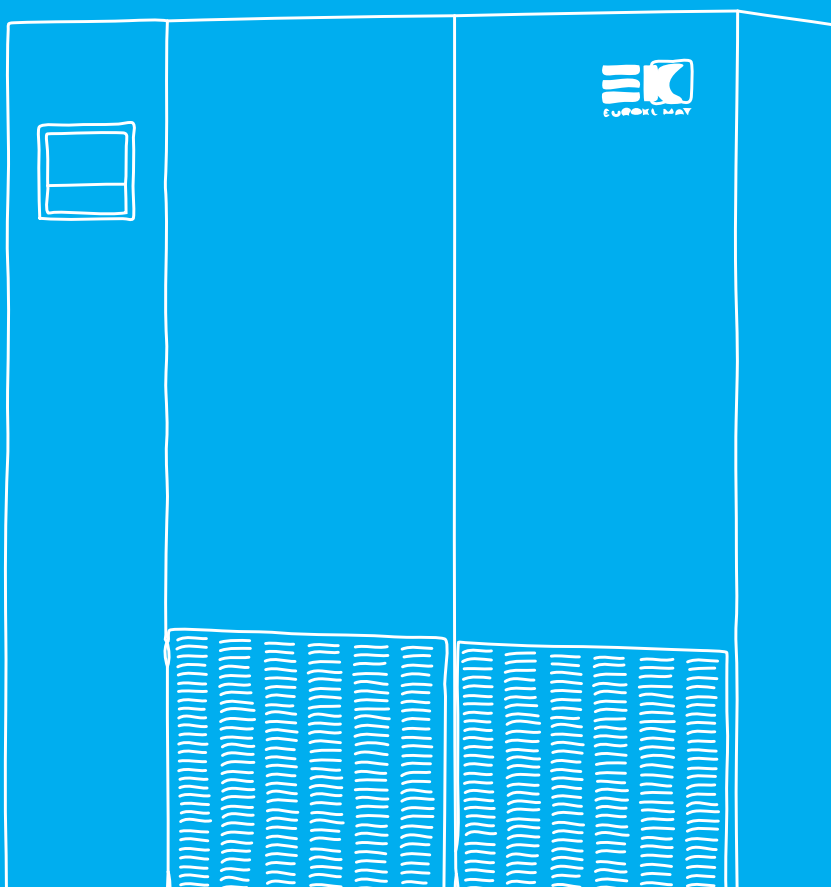
FOCUS





Until the last century it was unthinkable to imagine multiple assessments, while rich in information, while immediate. You could certainly make an interesting document but at the expense of the timeframe for implementation or at the expense of accuracy. Fortunately, technology has also allowed in this area to find good solutions and helpful to the operators. Euroklimat has invested heavily in electronics because he always wanted to provide a serious service to its customers and after several years of discussions, research and improvements may present with pride Euroklimat Software Selection. In the vast range of products Euroklimat, this program is able to search, select and deliver the equipment or appliances necessary to meet the demand. The options are many, the flexibility is extreme. Machine-type silenced the use of heat recovery from the calculation easier with the nominal conditions for the dimensioning more complicated to use specific values, just a shot of clicks to get immediate answers analytical and articulate. Another great advantage of this software is the possibility to directly compare multiple devices and be able, therefore, without laborious manual assessment, to select the optimal product for energy performance, or for any other reason. At the conclusion of the selection, a large section devoted to print or export of documents in traditional formats, allows the production of processed clear and very well planned. The investment of Euroklimat is not limited to this aspect but is also developed through the WEB with innovative and useful services for all employees and users. The business is continually evolving and are prepared implementations and upgrades.

Precision air conditioners with Plug Fan for technological applications



BXK Tecno Plug Fan

PRECISION AIR CONDITIONERS WITH PLUG FUN

R407C Ecological gas

Configuration
- **O** Upflow
- **U** Downflow

Type
- **SF** Cooling only

Solution
- **T** Technological

Version
- **ST** Standard
- **SP** Special

Equipement
- **EC** Plug fan with EC motors

Features

- **Housing**
  Base and panelling made of galvanised steel painted with epoxy powder; frame complete with service panels designed to grant proper operation during maintenance. The aestethic panelling is internally lined to reduce the noise level.
- **Air heat exchanger**
  Air heat exchanger made of copper tubes arranged in staggered rows. The fins are made of aluminum with a special hydrophilic treatment for better drainage of the condensate and therefore better heat exchange.
- **Compressor**
  HERMETIC SCROLL type, complete with thermal protection.Anti-vibration mountings and oil charge are standard.
- **Fan**
  Fan units are new-generation; plug fan type with "EC" motor with electronic commutation in order to maximize energy savings and adjust the amount of air necessary to the environment.
- **Remote air cooled condenser (CTK)**
  Remote air cooled condenser (CTK) available on request.
- **Refrigerant circuit**
  Liquid receiver, filter dryer, moinsture-liquid sight glass, HP and LP pressure switches, solenoid valve, thermostatic expansion valve with external equalizer.
- **Filter**
  Folded type, mounted on a frame, with protection grille. Filtering cells in polyester fibers. G4 efficiency according to CEN-EN 779 norm; with 90,1% ASHRAE separation degree. The filter is of self-extinguish type.
- **Electrical board**
  It is designed and wired according to IEC 204-1/EN60204-1 regulations, complete with contactor and protection for compressors and fans, main isolator with door-lock.
- **Control panel**
  The microprocessor controls the unit capacity by timing the compressors and checks the operating alarms.

Accessories

- Water heating coil
- Electric heating coil
- Contacts for smoke/fire alarm
- Upgrading electronic control
- F5 efficiency air folded filter
- Special filter plenum for air outlet (from F6 to F9)
- Air supply plenum with two directions adjustable grilles
- Max and min voltage relay
- Phase sequence relay
- Crankcase electrical heater
- Clock board
- LonWorks® interface electronic board*
- ModBus® interface electronic board*
- Water on the bottom alarm
- Dirty filters alarm
- Low air flow alarm
- Non return air damper
- Vibration isolation frame with bearings (H 285-400mm.)
- Remote control panel*
- Modulating humidifier
- 3-way modul. valve 0/10V (heating)*
- Step by step 3-way valve (heating)
- Sound absorber plenum

BXK Tecno EC		As08 1E	As09 1E	A012 1E	A014 1E	Bs17 1E	B018 1E	B020 1E	B022 1E	B024 1E
Total cooling capacity(1)	kW	7,6	8,7	11,8	14,1	16,8	18,3	20,1	22,3	24,4
Sensible cooling capacity(1)	kW	7,2	8	11,4	13,2	15,5	18,3	19,7	21,2	22,4
R Factor	-	0,95	0,92	0,97	0,94	0,92	1	0,98	0,95	0,92
Power supply	-	400V/3+N/50Hz +T								
Number of compressors	n°	1	1	1	1	1	1	1	1	1
Number of refrigerant circuits	n°	1	1	1	1	1	1	1	1	1
Compressors total power input(1)	kW	2,2	2,6	3	3,7	4,5	4,6	5,2	6	6,7
Compressors total current(1)	A	3,9	4,8	5,4	6,6	8,4	8,5	9,2	11,1	13
Air flow	mc/h	2300	2300	3300	3300	4200	5600	5600	5600	5600
External static pressure	Pa	30 - 300	30 - 300	30 - 300	30 - 300	30 - 300	30 - 300	30 - 300	30 - 300	30 - 300
Fans quantity	n°	1	1	1	1	1	1	1	1	1
Fans power input	kW	0,37	0,37	0,61	0,61	0,61	0,93	0,93	0,93	0,93
Fans total current	A	0,75	0,75	0,99	0,99	0,99	1,51	1,51	1,51	1,51
Front sound pressure OVER(2)	dB (A)	48	48	49	49	49	52	52	52	52
Front sound pressure UNDER(2)	dB (A)	45	45	46	46	46	49	49	49	49
Discharge refrigerant pipe dimension	mm	1xØ16	1xØ16	1xØ16	1xØ16	1xØ16	1xØ16	1xØ16	1xØ16	1Xø18
Liquid refrigerant pipe dimension	mm	1xØ12	1xØ12	1xØ12	1xØ12	1xØ12	1xØ12	1xØ12	1xØ12	1xØ12
Combination with remote cond. CTK.E/ST	-	0040D	0040D	0040D	0050D	0050D	0050D	0080D	0080D	0080D
Combination with remote cond. CTK.E/LN	-	0040D	0040D	0050D	0050D	0080D	0080D	0080D	0100D	0100D
Lenght	mm	700	700	880	880	880	1140	1140	1140	1140
Depth	mm	485	485	485	485	700	700	700	700	700
Height	mm	1950	1950	1950	1950	1950	1950	1950	1950	1950
Operating weight	Kg	175	180	200	210	240	310	320	325	340

BXK Tecno EC		C029 1E	C032 1E	D035 2E	D039 2E	D043 2E	E051 2E	E058 2E	F061 2E
Total cooling capacity(1)	kW	29	32,2	35	39,2	43,1	50,6	58,3	60,7
Sensible cooling capacity(1)	kW	27,7	29,8	35	37,8	40,2	49	55,3	56,9
R Factor	-	0,96	0,93	1	0,96	0,93	0,97	0,95	0,94
Power supply	-	400V/3+N/50Hz +T							
Number of compressors	n°	1	1	2	2	2	2	2	2
Number of refrigerant circuits	n°	1	1	2	2	2	2	2	2
Compressors total power input(1)	kW	8,1	9,1	9,2	10,5	12	13,4	16,1	16,2
Compressors total current(1)	A	15,5	16,5	16,8	18,4	22,2	26	31	31,2
Air flow	mc/h	8200	8200	10500	10500	10500	14000	14000	16000
External static pressure	Pa	30 - 300	30 - 300	30 - 300	30 - 300	30 - 300	30 - 300	30 - 300	30 - 300
Fans quantity	n°	2	2	2	2	2	2	2	2
Fans power input	kW	1,2	1,2	1,7	1,7	1,7	2,5	2,5	2,6
Fans total current	A	1,9	1,9	2,7	2,7	2,7	3,8	3,8	3,9
Front sound pressure OVER(2)	dB (A)	57	57	57	57	57	58	58	59
Front sound pressure UNDER(2)	dB (A)	54	54	54	54	54	55	55	56
Discharge refrigerant pipe dimension	mm	1xØ22	1xØ22	2xØ16	2xØ16	2xØ16	2xØ18	2xØ22	2xØ22
Liquid refrigerant pipe dimension	mm	1xØ16	1xØ16	2xØ12	2xØ12	2xØ12	2xØ16	2xØ16	2xØ16
Combination with remote cond. CTK.E/ST	-	0120D	0120D	2x0050D	2x0050D	2x0080D	2x0100D	2x0120D	2x0150D
Combination with remote cond. CTK.E/LN	-	0120D	0150D	2x0080D	2x0080D	2x0080D	2x0100D	2x0120D	2x0150D
Lenght	mm	1320	1320	1760	1760	1760	2200	2200	2640
Depth	mm	840	840	840	840	840	840	840	840
Height	mm	1950	1950	1950	1950	1950	1950	1950	1950
Operating weight	Kg	410	415	500	520	530	700	720	950

Note
1 Air inlet 24°C / 50% U.r. Condenser air temperature 35°C
2 Data measured at 1m in open field conditions

AXK Tecno Plug Fan

PRECISION AIR CONDITIONERS WITH PLUG FUN

R407C Ecological gas

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- **O** Upflow
- **U** Downflow

Type
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Solution
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Version
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- **SP** Special

Equipement
- **EC** Plug fan with EC motors

Features

- **Housing**
  Base and panelling made of galvanised steel painted with epoxy powder; frame complete with service panels designed to grant proper operation during maintenance. The aestethic panelling is internally lined to reduce the noise level.
- **Air heat exchanger**
  Air heat exchanger made of copper tubes arranged in staggered rows. The fins are made of aluminum with a special hydrophilic treatment for better drainage of the condensate and therefore better heat exchange.
- **Compressor**
  HERMETIC SCROLL type, complete with thermal protection.Anti-vibration mountings and oil charge are standard.
- **Fan**
  Fan units are new-generation; plug fan type with "EC" motor with electronic commutation in order to maximize energy savings and adjust the amount of air necessary to the environment.
- **Water cooled condenser**
  High efficiency plate heat exchanger made of AISI 316 stainless steel.
- **Refrigerant circuit**
  Filter dryer, moinsture-liquid sight glass, HP and LP pressure switches, solenoid valve, thermostatic expansion valve with external equalizer.
- **Filter**
  Folded type, mounted on a frame, with protection grille. Filtering cells in polyester fibers. G4 efficiency according to CEN-EN 779 norm; with 90,1% ASHRAE separation degree. The filter is of self-extinguish type.
- **Electrical board**
  It is designed and wired according to IEC 204-1/EN60204-1 regulations, complete with contactor and protection for compressors and fans, main isolator with door-lock.
- **Control panel**
  The microprocessor controls the unit capacity by timing the compressors and checks the operating alarms.

Accessories

- Water heating coil
- Electric heating coil
- Contacts for smoke/fire alarm
- Upgrading electronic control
- F5 efficiency air folded filter
- Special filter plenum for air outlet (from F6 to F9)
- Air supply plenum with two directions adjustable grilles
- Max and min voltage relay
- Phase sequence relay
- Crankcase electrical heater
- Clock board
- LonWorks® and ModBus® interface electronic board*
- Water on the bottom alarm
- Dirty filters alarm
- Low air flow alarm
- Non return air damper
- Vibration isolation frame with bearings (H 285-400mm.)
- Remote control panel*
- Modulating humidifier
- 3-way modul. valve 0/10V (heating)*
- Condensing pressure valve
- Step by step 3-way valve (heating)
- Sound absorber plenum

AXK Tecno EC		As07 1E	As09 1E	A012 1E	A014 1E	A016 1E	Bs19 1E	B020 1E	B023 1E	C026 1E
Total cooling capacity(1)	kW	7,2	8,7	12	13,6	15,8	19,1	20,5	23,3	26,3
Sensible cooling capacity(1)	kW	7	8,1	11,6	12,8	14,6	17,9	19,9	21,4	25,1
R Factor	-	0,97	0,93	0,97	0,95	0,92	0,93	0,97	0,92	0,95
Power supply	-	400V/3+N/50Hz +T					400V/3/50Hz +T			
Number of compressors	n°	1	1	1	1	1	1	1	1	1
Number of refrigerant circuits	n°	1	1	1	1	1	1	1	1	1
Compressors total power input(1)	kW	1,2	1,6	1,8	2,2	2,6	3,4	3,4	3,9	4,4
Compressors total current(1)	A	2,4	3,2	3,8	4,3	5,4	7,1	7,1	7,2	9,1
Air flow	mc/h	2300	2300	3300	3300	3300	4200	5600	5600	8200
External static pressure	Pa	30 - 300	30 - 300	30 - 300	30 - 300	30 - 300	30 - 300	30 - 300	30 - 300	30 - 300
Fans quantity	n°	1	1	1	1	1	1	1	1	2
Fans power input	kW	0,37	0,37	0,61	0,61	0,61	0,93	0,93	0,93	0,93
Fans total current	A	0,75	0,75	0,99	0,99	0,99	1,51	1,51	1,51	1,51
Front sound pressure OVER(2)	dB (A)	48	48	49	49	49	49	52	52	57
Front sound pressure UNDER(2)	dB (A)	45	45	46	46	46	46	49	49	54
IN-OUT diameter cond. water (CITY)	"	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"
IN-OUT diameter cond. water (TOWER)	"	¾"	¾"	1"	1"	1"¼	1"¼	1"¼	1"¼	1"¼
Lenght	mm	700	700	880	880	880	880	1140	1140	1320
Depth	mm	485	485	485	485	485	700	700	700	840
Height	mm	1950	1950	1950	1950	1950	1950	1950	1950	1950
Operating weight	Kg	185	190	210	220	230	260	320	330	420

AXK Tecno EC		C029 1E	C033 1E	D042 2E	D047 2E	E048 2E	E053 2E	E058 2E	F069 2E
Total cooling capacity(1)	kW	28,7	32,8	41,6	46,9	48,2	53,2	58,1	69,3
Sensible cooling capacity(1)	kW	26,8	30,3	38,5	42,9	48,2	50,8	53,8	64
R Factor	-	0,93	0,92	0,93	0,92	1	0,95	0,93	0,92
Power supply	-	400V/3/50Hz +T							
Number of compressors	n°	1	1	2	2	2	2	2	2
Number of refrigerant circuits	n°	1	1	2	2	2	2	2	2
Compressors total power input(1)	kW	4,9	6	6,9	7,8	7,8	8,9	10	11,9
Compressors total current(1)	A	11,1	13,2	14,2	14,4	14,4	18,2	22,2	26,4
Air flow	mc/h	8200	8200	10500	10500	14000	14000	14000	16000
External static pressure	Pa	30 - 300	30 - 300	30 - 300	30 - 300	30 - 300	30 - 300	30 - 300	30 - 300
Fans quantity	n°	2	2	2	2	2	2	2	2
Fans power input	kW	1,2	1,2	1,7	1,7	1,7	2,5	2,5	2,6
Fans total current	A	1,9	1,9	2,7	2,7	2,7	3,8	3,8	3,9
Front sound pressure OVER(2)	dB (A)	57	57	57	57	58	58	58	59
Front sound pressure UNDER(2)	dB (A)	54	54	54	54	55	55	55	56
IN-OUT diameter cond. water (CITY)	"	¾"	¾"	1"	1"	1"	1"	1"	1"¼
IN-OUT diameter cond. water (TOWER)	"	1"¼	1"¼	2"	2"	2"	2"	2"	2"
Lenght	mm	1320	1320	1760	1760	2200	2200	2200	2640
Depth	mm	840	840	840	840	840	840	840	840
Height	mm	1950	1950	1950	1950	1950	1950	1950	1950
Operating weight	Kg	430	440	520	540	720	740	760	960

Note
1 Air inlet 24°C / 50% U.r. IN-OUT water condenser temperature = 30°C / 35°C
2 Data measured at 1m in open field conditions

CWK Tecno Plug Fan

PRECISION AIR CONDITIONING UNIT WITH PLUG FUN

Configuration
- **O** Upflow
- **U** Downflow

Type
- **SF** Cooling only

Solution
- **T** Technological

Version
- **ST** Standard
- **SP** Special

Equipement
- **EC** Plug fan with EC motors

Features

- **Housing**
  Base and panelling made of galvanised steel painted with epoxy powder; frame complete with service panels designed to grant proper operation during maintenance. The aestethic panelling is internally lined to reduce the noise level.
- Air heat exchanger
  Air heat exchanger made of copper tubes arranged in staggered rows. The fins are made of aluminum with a special hydrophilic treatment for better drainage of the condensate and therefore better heat exchange.
- **Fan**
  Fan units are new-generation; plug fan type with "EC" motor with electronic commutation in order to maximize energy savings and adjust the amount of air necessary to the environment.
- **Cooling circuit**
  3-way valve for the control of the chilled water flow and the air temperature.
- **Filter**
  Folded type, mounted on a frame, with protection grille. Filtering cells in polyester fibers. G4 efficiency according to CEN-EN 779 norm; with 90,1% ASHRAE separation degree. The filter is of self-extinguish type.
- **Electrical board**
  It is designed and wired according to IEC 204-1/EN60204-1 regulations, complete with contactor and protection for compressors and fans, main isolator with door-lock.
- **Control panel**
  The microprocessor controls the unit capacity by timing the compressors and checks the operating alarms.

Accessories

- Water heating coil
- Electric heating coil
- Contacts for smoke/fire alarm
- Upgrading electronic control
- F5 efficiency air folded filter
- Special filter plenum for air outlet (from F6 to F9)
- Air supply plenum with two directions adjustable grilles
- Max and min voltage relay
- Clock board
- LonWorks® interface electronic board*
- ModBus® interface electronic board*
- Water on the bottom alarm
- Dirty filters alarm
- Low air flow alarm
- Non return air damper
- Vibration isolation frame with bearings (H 285-400mm.)
- Remote control panel*
- Modulating humidifier
- 3-way modul. valve 0/10V (heating)*
- Condensing pressure valve
- Step by step 3-way valve (heating)
- Sound absorber plenum

CWK Tecno EC		As12 1W	A018 1W	Bs24 1W	B032 1W	C044 1W	D055 1W	E070 1W	E076 1W	F090 1W
Total cooling capacity(1)	kW	12	17	23	32	44	55	71	76	89
Sensible cooling capacity(1)	kW	12	17	23	32	44	55	71	76	89
R Factor	-	1	1	1	1	1	1	1	1	1
Power supply	-	230V/1/50Hz +T		400V/3/50Hz +T						
Air flow	m3/h	3200	4000	6000	8500	12000	15000	18600	21000	24000
External static pressure	Pa	30 - 300	30 - 300	30 - 300	30 - 300	30 - 300	30 - 300	30 - 300	30 - 300	30 - 300
Fans quantity	n°	1	1	1	1	2	2	2	2	2
Fans power input	kW	0,6	0,85	0,85	1,86	1,7	2,4	3,3	4,3	4,3
Fans total current	A	0,95	1,45	1,45	2,8	2,7	3,7	5,0	6,5	6,5
Front sound pressure OVER(2)	dB(A)	52	53	53	56	60	66	67	69	70
Front sound pressure UNDER(2)	dB(A)	49	50	50	53	57	63	64	66	67
Lenght	mm	700	880	880	1140	1320	1760	2200	2200	2640
Depth	mm	485	485	700	700	840	840	840	840	840
Height	mm	1950	1950	1950	1950	1950	1950	1950	1950	1950
Weight	kg	150	175	235	275	300	440	550	570	750
Water connections diameter	"	3/4"	3/4"	1"	1"	1" 1/4	1" 1/2	1" 1/2	2"	2"

Note
1 Air inlet 24,0°C / 50% U.r. - IN-OUT cooled water temperature = 10°C / 15°C
2 Data measured at 1m in open field conditions

XWK Tecno Plug Fan

PRECISION AIR CONDITIONING UNIT WITH PLUG FUN

Configuration
- **O** Upflow

Type
- **SF** Cooling only

Solution
- **T** Technological

Version
- **ST** Standard
- **SP** Special

Equipement
- **EC** Plug fan with EC motors

Features

- **Housing**
  Base and panelling made of galvanised steel painted with epoxy powder; frame complete with service panels designed to grant proper operation during maintenance. The aestethic panelling is internally lined to reduce the noise level.
- Air heat exchanger
  Air heat exchanger made of copper tubes arranged in staggered rows. The fins are made of aluminum with a special hydrophilic treatment for better drainage of the condensate and therefore better heat exchange.
- **Fan**
  Fan units are new-generation; plug fan type with "EC" motors with electronic commutation in order to maximize energy savings and adjust the amount of air necessary to the environment.
  Fan is installed in a special frame positioned under the floor.
- **Cooling circuit**
  3-way valve for the control of the chilled water flow and the air temperature.
- **Filter**
  Folded type, mounted on a frame, with protection grille. Filtering cells in polyester fibers. G4 efficiency according to CEN-EN 779 norm; with 90,1% ASHRAE separation degree. The filter is of self-extinguish type.
- **Electrical board**
  It is designed and wired according to IEC 204-1/EN60204-1 regulations, complete with contactor and protection for compressors and fans, main isolator with door-lock.
- **Control panel**
  The microprocessor controls the unit capacity by timing the compressors and checks the operating alarms.

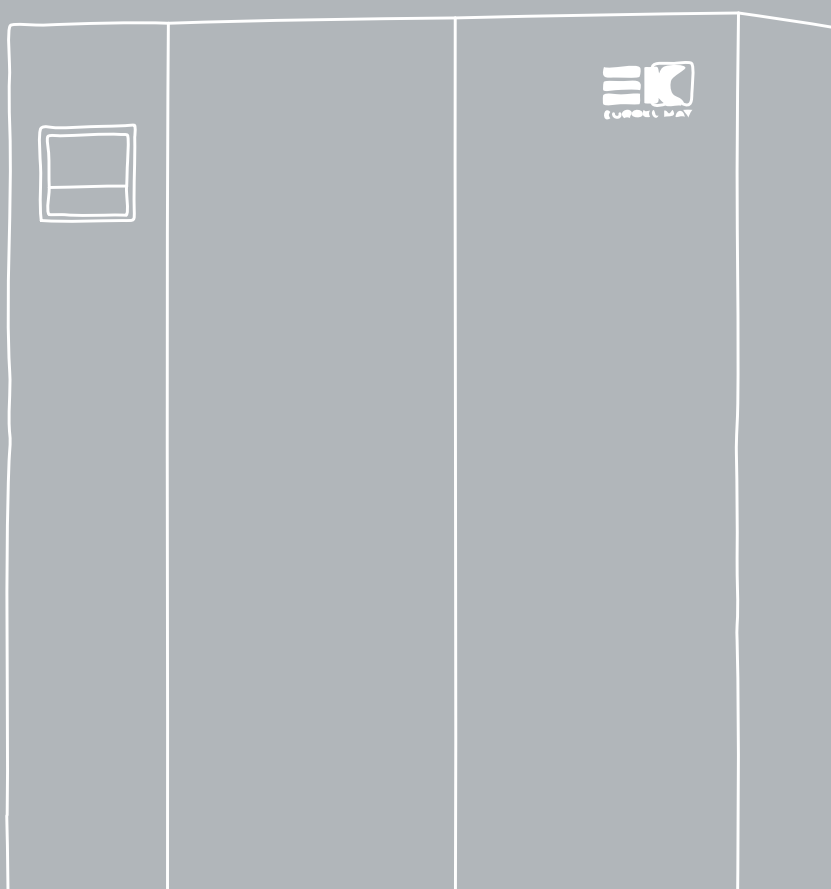
Accessories

- Water heating coil
- Electric heating coil
- Contacts for smoke/fire alarm
- Upgrading electronic control
- F5 efficiency air folded filter
- Special filter plenum for air outlet (from F6 to F9)
- Air supply plenum with two directions adjustable grilles
- Max and min voltage relay
- Clock board
- LonWorks® interface electronic board*
- ModBus® interface electronic board*
- Water on the bottom alarm
- Dirty filters alarm
- Low air flow alarm
- Non return air damper
- Vibration isolation frame with bearings (H 285-400mm.)
- Remote control panel*
- Modulating humidifier
- 3-way modul. valve 0/10V (heating)*
- Condensing pressure valve
- Step by step 3-way valve (heating)
- Sound absorber plenum

XWK Tecno EC		C058 1W	D071 1W	E086 1W	E096 1W	F01161W
Total cooling capacity(1)	kW	58	72	86	96	116
Sensible cooling capacity(1)	kW	58	72	86	96	116
R Factor	-	1	1	1	1	1
Power supply	-	400V/3/50Hz +T				
Air flow	m3/h	15600	22000	24000	26500	31000
External static pressure	Pa	20	20	20	20	20
Fans quantity	n°	2	2	3	3	3
Fans power input	kW	2,8	4,6	8,1	8,1	6,9
Fans total current	A	4,5	7,4	13,0	13,0	11,1
Front sound pressure(2)	dB(A)	64	64	66	67	66
XWK Tecno EC - Size						
Lenght	mm	1320	1760	2200	2200	2640
Depth	mm	840	840	840	840	840
Height	mm	1950	1950	1950	1950	1950
Weight	kg	350	440	570	570	750
Fan frame - Size						
Lenght	mm	1320	1760	2200	2200	2640
Depth	mm	840	840	840	840	840
Height	mm	600	600	600	600	600
Weight	kg	100	140	200	200	260
Water connections diameter		1" 1/4	1" 1/2	2"	2"	2"

Note
1 Air inlet 24,0°C / 50% U.r. - IN-OUT cooled water temperature = 10°C / 15°C
2 Data measured at 1m in open field conditions

Precision air conditioners for technological applications



BXK Tecno

PRECISION AIR CONDITIONERS

R407C Ecological gas

Configuration
- **O** Upflow
- **U** Downflow

Type
- **SF** Cooling only

Solution
- **T** Technological

Version
- **ST** Standard
- **SP** Special

Equipement
- **AS** Centrifugal fan

Features

- **Housing**
  Base and panelling made of galvanised steel painted with epoxy powder; frame complete with service panels designed to grant proper operation during maintenance. The aestethic panelling is internally lined to reduce the noise level.
- Air heat exchanger
  Air heat exchanger made of copper tubes arranged in staggered rows. The fins are made of aluminum with a special hydrophilic treatment for better drainage of the condensate and therefore better heat exchange.
- **Compressor**
  HERMETIC SCROLL type, complete with thermal protection.Anti-vibration mountings and oil charge are standard.
- **Fan**
  Centrifugal type with two suctions, directly coupled to the motor which is of external rotor type and is fixed by vibration isolation mountings. The fans have forward curved blades.
- **Remote air cooled condenser (CTK)**
  Remote air cooled condenser (CTK) available on request.
- **Refrigerant circuit**
  Liquid receiver, filter dryer, moinsture-liquid sight glass, HP and LP pressure switches, solenoid valve, thermostatic expansion valve with external equalizer.
- **Filter**
  Folded type, mounted on a frame, with protection grille. Filtering cells in polyester fibers. G4 efficiency according to CEN-EN 779 norm; with 90,1% ASHRAE separation degree. The filter is of self-extinguish type.
- **Electrical board**
  It is designed and wired according to IEC 204-1/EN60204-1 regulations, complete with contactor and protection for compressors and fans, main isolator with door-lock.
- **Control panel**
  The microprocessor controls the unit capacity by timing the compressors and checks the operating alarms.

Accessories

- Water heating coil
- Electric heating coil
- Contacts for smoke/fire alarm
- Upgrading electronic control
- F5 efficiency air folded filter
- Special filter plenum for air outlet (from F6 to F9)
- Air supply plenum with two directions adjustable grilles
- Max and min voltage relay
- Phase sequence relay
- Crankcase electrical heater
- Clock board
- LonWorks® interface electronic board*
- ModBus® interface electronic board*
- Water on the bottom alarm
- Dirty filters alarm
- Low air flow alarm
- Non return air damper
- Vibration isolation frame with bearings (H 285-400mm.)
- Remote control panel*
- Fan driven by belt and pulley (from Bs to F - 200 PA)
- Modulating humidifier
- 3-way modul. valve 0/10V (heating)*
- Step by step 3-way valve (heating)
- Sound absorber plenum

BXK Tecno		As08 1E	As09 1E	A012 1E	A014 1E	Bs17 1E	B018 1E	B020 1E	B022 1E	B024 1E
Total cooling capacity(1)	kW	7,6	8,7	11,8	14,1	16,8	18,3	20,1	22,3	24,4
Sensible cooling capacity(1)	kW	7,2	8	11,4	13,2	15,5	18,3	19,7	21,2	22,4
R Factor	-	0,95	0,92	0,97	0,94	0,92	1	0,98	0,95	0,92
Power supply	-	400V/3+N/50Hz +T								
Number of compressors	n°	1	1	1	1	1	1	1	1	1
Number of refrigerant circuits	n°	1	1	1	1	1	1	1	1	1
Compressors total power input(1)	kW	2,2	2,6	3	3,7	4,5	4,6	5,2	6	6,7
Compressors total current(1)	A	3,9	4,8	5,4	6,6	8,4	8,5	9,2	11,1	13
Air flow	mc/h	2300	2300	3300	3300	4200	5600	5600	5600	5600
External static pressure	Pa	80	80	80	80	150	125	125	125	125
Fans quantity	n°	1	1	1	1	1	2	2	2	2
Fans power input	kW	0,35	0,35	0,55	0,55	0,75	1,5	1,5	1,5	1,5
Fans total current	A	3,1	3,1	4,6	4,6	3,1	6,2	6,2	6,2	6,2
Front sound pressure OVER(2)	dB (A)	47	47	48	48	48	51	51	51	51
Front sound pressure UNDER(2)	dB (A)	44	44	45	45	45	48	48	48	48
Discharge refrigerant pipe dimension	mm	1xØ16	1xØ16	1xØ16	1xØ16	1xØ16	1xØ16	1xØ16	1xØ16	1Xø18
Liquid refrigerant pipe dimension	mm	1xØ12	1xØ12	1xØ12	1xØ12	1xØ12	1xØ12	1xØ12	1xØ12	1xØ12
Combination with remote cond. CTK.E/ST	-	0040D	0040D	0040D	0050D	0050D	0050D	0080D	0080D	0080D
Combination with remote cond. CTK.E/LN	-	0040D	0040D	0050D	0050D	0080D	0080D	0080D	0100D	0100D
Lenght	mm	700	700	880	880	880	1140	1140	1140	1140
Depth	mm	485	485	485	485	700	700	700	700	700
Height	mm	1950	1950	1950	1950	1950	1950	1950	1950	1950
Operating weight	Kg	175	180	200	210	240	310	320	325	340

BXK Tecno		C029 1E	C032 1E	D035 2E	D039 2E	D043 2E	E051 2E	E058 2E	F061 2E
Total cooling capacity(1)	kW	29	32,2	35	39,2	43,1	50,6	58,3	60,7
Sensible cooling capacity(1)	kW	27,7	29,8	35	37,8	40,2	49	55,3	56,9
R Factor	-	0,96	0,93	1	0,96	0,93	0,97	0,95	0,94
Power supply	-	400V/3+N/50Hz +T							
Number of compressors	n°	1	1	2	2	2	2	2	2
Number of refrigerant circuits	n°	1	1	2	2	2	2	2	2
Compressors total power input(1)	kW	8,1	9,1	9,2	10,5	12	13,4	16,1	16,2
Compressors total current(1)	A	15,5	16,5	16,8	18,4	22,2	26	31	31,2
Air flow	mc/h	8200	8200	10500	10500	10500	14000	14000	16000
External static pressure	Pa	125	125	155	155	155	140	140	140
Fans quantity	n°	2	2	3	3	3	4	4	4
Fans power input	kW	1,5	1,5	2,25	2,25	2,25	3,0	3,0	3,0
Fans total current	A	6,2	6,2	9,3	9,3	9,3	12,4	12,4	12,4
Front sound pressure OVER(2)	dB (A)	53	53	55	55	55	56	56	57
Front sound pressure UNDER(2)	dB (A)	50	50	52	52	52	53	53	54
Discharge refrigerant pipe dimension	mm	1xØ22	1xØ22	2xØ16	2xØ16	2xØ16	2xØ18	2xØ22	2xØ22
Liquid refrigerant pipe dimension	mm	1xØ16	1xØ16	2xØ12	2xØ12	2xØ12	2xØ16	2xØ16	2xØ16
Combination with remote cond. CTK.E/ST	-	0120D	0120D	2x0050D	2x0050D	2x0080D	2x0100D	2x0120D	2x0150D
Combination with remote cond. CTK.E/LN	-	0120D	0150D	2x0080D	2x0080D	2x0080D	2x0100D	2x0120D	2x0150D
Lenght	mm	1320	1320	1760	1760	1760	2200	2200	2640
Depth	mm	840	840	840	840	840	840	840	840
Height	mm	1950	1950	1950	1950	1950	1950	1950	1950
Operating weight	Kg	410	415	500	520	530	700	720	950

Note
1 Air inlet 24°C / 50% U.r. Condenser air temperature 35°C
2 Data measured at 1m in open field conditions

AXK Tecno

PRECISION AIR CONDITIONERS

R407C Ecological gas

Configuration
- **O** Upflow
- **U** Downflow

Type
- **SF** Cooling only

Solution
- **T** Technological

Version
- **ST** Standard
- **SP** Special

Equipement
- **AS** Centrifugal fan

Features

- **Housing**
  Base and panelling made of galvanised steel painted with epoxy powder; frame complete with service panels designed to grant proper operation during maintenance. The aestethic panelling is internally lined to reduce the noise level.
- Air heat exchanger
  Air heat exchanger made of copper tubes arranged in staggered rows. The fins are made of aluminum with a special hydrophilic treatment for better drainage of the condensate and therefore better heat exchange.
- **Compressor**
  HERMETIC SCROLL type, complete with thermal protection.Anti-vibration mountings and oil charge are standard.
- **Fan**
  Centrifugal type with two suctions, directly coupled to the motor which is of external rotor type and is fixed by vibration isolation mountings. The fans have forward curved blades.
- **Water cooled condenser**
  High efficiency plate heat exchanger made of AISI 316 stainless steel.
- **Refrigerant circuit**
  Filter dryer, moinsture-liquid sight glass, HP and LP pressure switches, solenoid valve, thermostatic expansion valve with external equalizer.
- **Filter**
  Folded type, mounted on a frame, with protection grille. Filtering cells in polyester fibers. G4 efficiency according to CEN-EN 779 norm; with 90,1% ASHRAE separation degree. The filter is of self-extinguish type.
- **Electrical board**
  It is designed and wired according to IEC 204-1/EN60204-1 regulations, complete with contactor and protection for compressors and fans, main isolator with door-lock.
- **Control panel**
  The microprocessor controls the unit capacity by timing the compressors and checks the operating alarms.

Accessories

- Water heating coil
- Electric heating coil
- Contacts for smoke/fire alarm
- Upgrading electronic control
- F5 efficiency air folded filter
- Special filter plenum for air outlet (from F6 to F9)
- Air supply plenum with two directions adjustable grilles
- Max and min voltage relay
- Phase sequence relay
- Crankcase electrical heater
- Clock board
- LonWorks® and ModBus® interface electronic board*
- Water on the bottom alarm
- Dirty filters alarm
- Low air flow alarm
- Non return air damper
- Vibration isolation frame with bearings (H 285-400mm.)
- Remote control panel*
- Fan driven by belt and pulley (from Bs to F - 200 PA)
- Modulating humidifier
- 3-way modul. valve 0/10V (heating)*
- Condensing pressure valve
- Step by step 3-way valve (heating)
- Sound absorber plenum

AXK Tecno		As07 1E	As09 1E	A012 1E	A014 1E	A016 1E	Bs19 1E	B020 1E	B023 1E	C026 1E
Total cooling capacity(1)	kW	7,2	8,7	12	13,6	15,8	19,1	20,5	23,3	26,3
Sensible cooling capacity(1)	kW	7	8,1	11,6	12,8	14,6	17,9	19,9	21,4	25,1
R Factor	-	0,97	0,93	0,97	0,95	0,92	0,93	0,97	0,92	0,95
Power supply	-	400V/3+N/50Hz +T					400V/3/50Hz +T			
Number of compressors	n°	1	1	1	1	1	1	1	1	1
Number of refrigerant circuits	n°	1	1	1	1	1	1	1	1	1
Compressors total power input(1)	kW	1,2	1,6	1,8	2,2	2,6	3,4	3,4	3,9	4,4
Compressors total current(1)	A	2,4	3,2	3,8	4,3	5,4	7,1	7,1	7,2	9,1
Air flow	mc/h	2300	2300	3300	3300	3300	4200	5600	5600	8200
External static pressure	Pa	80	80	80	80	80	150	125	125	125
Fans quantity	n°	1	1	1	1	1	1	2	2	2
Fans power input	kW	0,35	0,35	0,55	0,55	0,55	0,75	1,5	1,5	1,5
Fans total current	A	3,1	3,1	4,6	4,6	4,6	3,1	6,2	6,2	6,2
Front sound pressure OVER(2)	dB (A)	47	47	48	48	48	48	51	51	53
Front sound pressure UNDER(2)	dB (A)	44	44	45	45	45	45	48	48	50
IN-OUT diameter cond. water (CITY)	"	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"
IN-OUT diameter cond. water (TOWER)	"	¾"	¾"	1"	1"	1"¼	1"¼	1"¼	1"¼	1"¼
Lenght	mm	700	700	880	880	880	880	1140	1140	1320
Depth	mm	485	485	485	485	485	700	700	700	840
Height	mm	1950	1950	1950	1950	1950	1950	1950	1950	1950
Operating weight	Kg	185	190	210	220	230	260	320	330	420

AXK Tecno		C029 1E	C033 1E	D042 2E	D047 2E	E048 2E	E053 2E	E058 2E	F069 2E
Total cooling capacity(1)	kW	28,7	32,8	41,6	46,9	48,2	53,2	58,1	69,3
Sensible cooling capacity(1)	kW	26,8	30,3	38,5	42,9	48,2	50,8	53,8	64
R Factor	-	0,93	0,92	0,93	0,92	1	0,95	0,93	0,92
Power supply	-	400V/3/50Hz +T							
Number of compressors	n°	1	1	2	2	2	2	2	2
Number of refrigerant circuits	n°	1	1	2	2	2	2	2	2
Compressors total power input(1)	kW	4,9	6	6,9	7,8	7,8	8,9	10	11,9
Compressors total current(1)	A	11,1	13,2	14,2	14,4	14,4	18,2	22,2	26,4
Air flow	mc/h	8200	8200	10500	10500	14000	14000	14000	16000
External static pressure	Pa	125	125	155	155	140	140	140	140
Fans quantity	n°	2	2	3	3	4	4	4	4
Fans power input	kW	1,5	1,5	2.,25	2,25	3,0	3,0	3,0	3,0
Fans total current	A	6,2	6,2	9,3	9,3	12,4	12,4	12,4	12,4
Front sound pressure OVER(2)	dB (A)	53	53	55	55	56	56	56	57
Front sound pressure UNDER(2)	dB (A)	50	50	52	52	53	53	53	54
IN-OUT diameter cond. water (CITY)	"	¾"	¾"	1"	1"	1"	1"	1"	1"¼
IN-OUT diameter cond. water (TOWER)	"	1"¼	1"¼	2"	2"	2"	2"	2"	2"
Lenght	mm	1320	1320	1760	1760	2200	2200	2200	2640
Depth	mm	840	840	840	840	840	840	840	840
Height	mm	1950	1950	1950	1950	1950	1950	1950	1950
Operating weight	Kg	430	440	520	540	720	740	760	960

Note
1 Air inlet 24°C / 50% U.r. IN-OUT water condenser temperature = 30°C / 35°C
2 Data measured at 1m in open field conditions

CWK Tecno

PRECISION AIR CONDITIONING UNIT

Configuration
- **O** Upflow
- **U** Downflow

Type
- **SF** Cooling only

Solution
- **T** Technological

Version
- **ST** Standard
- **SP** Special

Equipement
- **AS** Centrifugal fan

Features

- **Housing**
  Base and panelling made of galvanised steel painted with epoxy powder; frame complete with service panels designed to grant proper operation during maintenance. The aestethic panelling is internally lined to reduce the noise level.
- Air heat exchanger
  Air heat exchanger made of copper tubes arranged in staggered rows. The fins are made of aluminum with a special hydrophilic treatment for better drainage of the condensate and therefore better heat exchange.
- **Fan**
  Centrifugal type with two suctions, directly coupled to the motor which is of external rotor type and is fixed by vibration isolation mountings. The fans have forward curved blades.
- **Cooling circuit**
  3-way valve for the control of the chilled water flow and the air temperature.
- **Filter**
  Folded type, mounted on a frame, with protection grille. Filtering cells in polyester fibers. G4 efficiency according to CEN-EN 779 norm; with 90,1% ASHRAE separation degree. The filter is of self-extinguish type.
- **Electrical board**
  It is designed and wired according to IEC 204-1/EN60204-1 regulations, complete with contactor and protection for compressors and fans, main isolator with door-lock.
- **Control panel**
  The microprocessor controls the unit capacity by timing the compressors and checks the operating alarms.

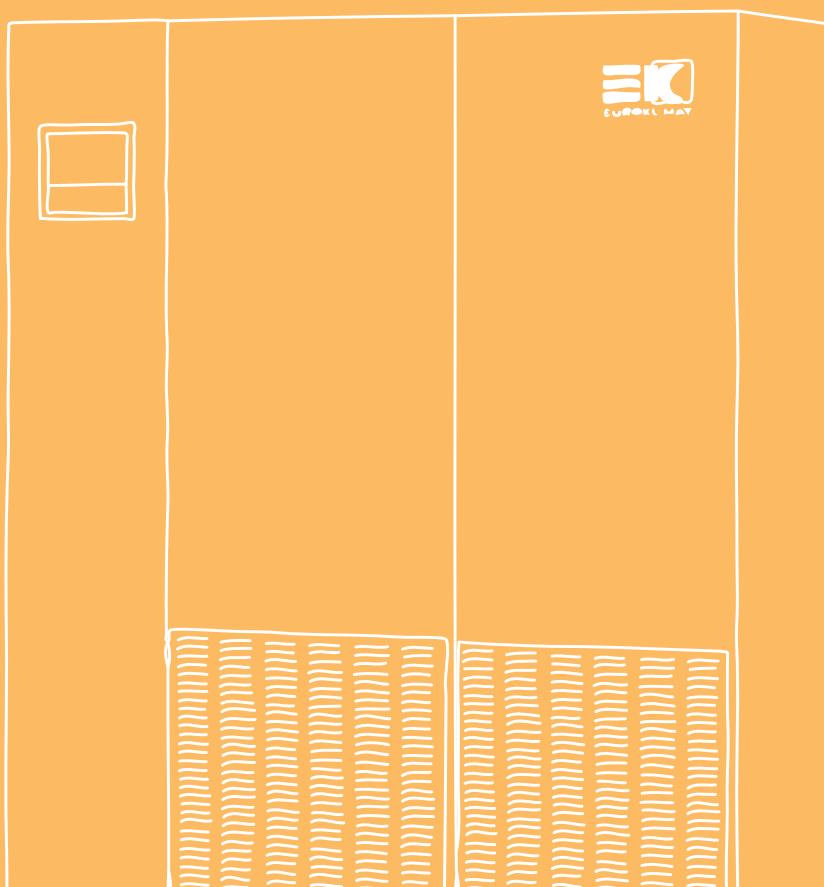
Accessories

- Water heating coil
- Electric heating coil
- Contacts for smoke/fire alarm
- Upgrading electronic control
- F5 efficiency air folded filter
- Special filter plenum for air outlet (from F6 to F9)
- Air supply plenum with two directions adjustable grilles
- Max and min voltage relay
- Clock board
- LonWorks® interface electronic board*
- ModBus® interface electronic board*
- Water on the bottom alarm
- Dirty filters alarm
- Low air flow alarm
- Non return air damper
- Vibration isolation frame with bearings (H 285-400mm.)
- Remote control panel*
- Fan driven by belt and pulley (from Bs to F - 200 PA)
- Modulating humidifier
- 3-way modul. valve 0/10V (heating)*
- Condensing pressure valve
- Step by step 3-way valve (heating)
- Sound absorber plenum

CWK Tecno		As12 1W	A018 1W	Bs24 1W	B032 1W	C044 1W	D055 1W	E070 1W	E076 1W	F090 1W
Total cooling capacity(1)	kW	12	17	23	32	44	55	71	76	89
Sensible cooling capacity(1)	kW	12	17	23	32	44	55	71	76	89
R Factor	-	1	1	1	1	1	1	1	1	1
Power supply	-	230V/1/50Hz +T		400V/3/50Hz +T						
Air flow	m3/h	3200	4000	6000	8500	12000	15000	18600	21000	24000
External static pressure	Pa	100	100	100	170	100	170	100	170	100
Fans quantity	n°	1	2	2	2	2	2	3	3	4
Fans power input	kW	0,55	0,7	1,1	1,5	2,2	3,0	3,3	4,5	4,4
Fans total current	A	3,6	5,0	3,6	5,0	7,0	11,0	10,8	16,2	14,0
Front sound pressure OVER(2)	dB(A)	51	52	52	55	58	64	65	67	68
Front sound pressure UNDER(2)	dB(A)	48	49	49	52	55	61	62	64	65
Lenght	mm	700	880	880	1140	1320	1760	2200	2200	2640
Depth	mm	485	485	700	700	840	840	840	840	840
Height	mm	1950	1950	1950	1950	1950	1950	1950	1950	1950
Weight	kg	150	175	235	275	300	440	550	570	750
Water connections diameter	"	3/4"	3/4"	1"	1"	1" 1/4	1" 1/2	1" 1/2	2"	2"

Note
1 Air inlet 24,0°C / 50% U.r. - IN-OUT cooled water temperature = 10°C / 15°C
2 Data measured at 1m in open field conditions

Air conditioners for comfort applications



BXK Comfort

AIR CONDITIONERS

R407C Ecological gas

Configuration
- **O** Upflow
- **U** Downflow

Type
- **SF** Cooling only

Solution
- **K** Comfort

Version
- **ST** Standard
- **SP** Special

Equipement
- **AS** Centrifugal fan

Features

- **Housing**
  Base and panelling made of galvanised steel painted with epoxy powder; frame complete with service panels designed to grant proper operation during maintenance. The aestethic panelling is internally lined to reduce the noise level.
- Air heat exchanger
  Air heat exchanger made of copper tubes arranged in staggered rows. The fins are made of aluminum with a special hydrophilic treatment for better drainage of the condensate and therefore better heat exchange.
- **Compressor**
  HERMETIC SCROLL type, complete with thermal protection.Anti-vibration mountings and oil charge are standard.
- **Fan**
  Centrifugal type with two suctions, directly coupled to the motor which is of external rotor type and is fixed by vibration isolation mountings. The fans have forward curved blades.
- **Remote air cooled condenser (CTK)**
  Remote air cooled condenser (CTK) available on request.
- **Refrigerant circuit**
  Liquid receiver, filter dryer, moinsture-liquid sight glass, HP and LP pressure switches, solenoid valve, thermostatic expansion valve with external equalizer.
- **Filter**
  Folded type, mounted on a frame, with protection grille. Filtering cells in polyester fibers. G4 efficiency according to CEN-EN 779 norm; with 90,1% ASHRAE separation degree. The filter is of self-extinguish type.
- **Electrical board**
  It is designed and wired according to IEC 204-1/EN60204-1 regulations, complete with contactor and protection for compressors and fans, main isolator with door-lock.
- **Control panel**
  The microprocessor controls the unit capacity by timing the compressors and checks the operating alarms.

Accessories

- Water heating coil
- Electric heating coil
- Contacts for smoke/fire alarm
- Fan remote condenser contactors and protections
- Upgrading electronic control
- F5 efficiency air folded filter
- Special filter plenum for air outlet (from F6 to F9)
- Air supply plenum with two directions adjustable grilles
- Max and min voltage relay
- Phase sequence relay
- Crankcase electrical heater
- Clock board
- LonWorks® and ModBus® interface electronic board*
- Water on the bottom alarm
- Dirty filters alarm
- Low air flow alarm
- Non return air damper
- Vibration isolation frame with bearings (H 285-400mm.)
- Remote control panel*
- Fan driven by belt and pulley (from Bs to F - 200 PA)
- Modulating humidifier
- 3-way modul. valve 0/10V (heating)*
- Step by step 3-way valve (heating)
- Sound absorber plenum

BXK Comfort		As09 1E	As12 1E	A017 1E	A019 1E	Bs24 1E	B030 1E	B034 1E	C040 1E	C046 2E
Total cooling capacity(1)	kW	9,5	12,2	17,5	19,4	24,2	30,1	33,6	40,2	45,7
Sensible cooling capacity(1)	kW	7,9	9	13,6	14,4	18,3	23,7	24,8	30,7	33
Power supply	-	400V/3+N/50Hz +T								
Number of compressors	n°	1	1	1	1	1	1	1	1	2
Number of refrigerant circuits	n°	1	1	1	1	1	1	1	1	1
Compressors total power input(1)	kW	2,6	3	4,5	5,3	6,7	8,1	9,2	11,4	13,9
Compressors total current(1)	A	4,7	6,7	8,4	9,2	13	15,5	16,5	19,5	23,7
Air flow	m3/h	2300	2300	3300	3300	4200	5600	5600	8200	8200
External static pressure	Pa	80	80	80	80	150	125	125	125	125
Fans quantity	n°	1	1	1	1	1	2	2	2	2
Fans power input	kW	0,35	0,35	0,55	0,55	0,75	1,5	1,5	1,5	1,5
Fans total current	A	3,1	3,1	4,6	4,6	3,1	6,2	6,2	6,2	6,2
Front sound pressure OVER(2)	dB (A)	52	52	53	53	53	56	56	56	56
Front sound pressure UNDER(2)	dB (A)	49	49	50	50	50	53	53	53	53
Discharge refrigerant pipe dimension	mm	1/Ø16	1/Ø16	1/Ø16	1/Ø16	1/Ø18	1/Ø22	1/Ø22	1/Ø22	1/Ø28
Liquid refrigerant pipe dimension	mm	1/Ø12	1/Ø12	1/Ø12	1/Ø12	1/Ø16	1/Ø16	1/Ø16	1/Ø16	1/Ø18
Combination with remote cond. CTK.E/ST	-	0040D	0040D	0050D	0050D	0080D	0120D	0120D	0150D	0180D
Combination with remote cond. CTK.E/LN	-	0040D	0050D	0080D	0080D	0100D	0120D	0150D	0180D	0220D
Lenght	mm	700	700	880	880	880	1140	1140	1320	1320
Depth	mm	485	485	485	485	700	700	700	840	840
Height	mm	1950	1950	1950	1950	1950	1950	1950	1950	1950
Operating weight	Kg	180	195	210	220	260	345	350	430	450

BXK Comfort		D058 2E	D064 2E	E070 2E	E080 2E	F085 2E	F097 4E
Total cooling capacity(1)	kW	58,3	64	70,4	80,3	84,7	96,8
Sensible cooling capacity(1)	kW	44,6	46,9	56,3	60,3	66,4	71,3
Power supply	-	400V/3+N/50Hz +T					
Number of compressors	n°	2	2	2	2	2	4
Number of refrigerant circuits	n°	2	2	2	2	2	2
Compressors total power input(1)	kW	16,1	18,4	18,6	23,2	23,4	27,8
Compressors total current(1)	A	31	33	33,2	39	39,2	47,4
Air flow	m3/h	10500	10500	14000	14000	16000	16000
External static pressure	Pa	155	155	140	140	140	140
Fans quantity	n°	3	3	4	4	4	4
Fans power input	kW	2,25	2,25	3,0	3,0	3,0	3,0
Fans total current	A	9,3	9,3	12,4	12,4	12,4	12,4
Front sound pressure OVER(2)	dB (A)	60	60	61	61	62	62
Front sound pressure UNDER(2)	dB (A)	57	57	58	58	59	59
Discharge refrigerant pipe dimension	mm	2/Ø22	2/Ø22	2/Ø22	2/Ø22	2/Ø22	2/Ø28
Liquid refrigerant pipe dimension	mm	2/Ø16	2/Ø16	2/Ø16	2/Ø16	2/Ø16	2/Ø18
Combination with remote cond. CTK.E/ST	-	2x0100D	2x0120D	2x0120D	2x0150D	2x0150D	2x0180D
Combination with remote cond. CTK.E/LN	-	2x0120D	2x0150D	2x0150D	2x0180D	2x0180D	2x0220D
Lenght	mm	1760	1760	2200	2200	2640	2640
Depth	mm	840	840	840	840	840	840
Height	mm	1950	1950	1950	1950	1950	1950
Operating weight	Kg	550	560	740	760	970	1000

Note
1 Air inlet 26,7°C / 50% U.r. Condenser air temperature 35°C
2 Data measured at 1m in open field conditions

BXK/PC Comfort

HEAT PUMP AIR CONDITIONERS

R407C Ecological gas

Configuration
- **O** Upflow
- **U** Downflow

Type
- **PC** Heat pump

Solution
- **K** Comfort

Version
- **ST** Standard
- **SP** Special

Equipement
- **AS** Centrifugal fan

Features

- **Housing**
  Base and panelling made of galvanised steel painted with epoxy powder; frame complete with service panels designed to grant proper operation during maintenance. The aestethic panelling is internally lined to reduce the noise level.
- Air heat exchanger
  Air heat exchanger made of copper tubes arranged in staggered rows. The fins are made of aluminum with a special hydrophilic treatment for better drainage of the condensate and therefore better heat exchange.
- **Compressor**
  HERMETIC SCROLL type, complete with thermal protection.Anti-vibration mountings and oil charge are standard.
- **Fan**
  Centrifugal type with two suctions, directly coupled to the motor which is of external rotor type and is fixed by vibration isolation mountings. The fans have forward curved blades.
- **Remote air cooled condenser (CTK)**
  Remote air cooled condenser (CTK) available on request.
- **Refrigerant circuit**
  Liquid receiver, filter dryer, moinsture-liquid sight glass, HP and LP pressure switches, solenoid valve, thermostatic expansion valve with external equalizer, 4-way valve cycle inverson
- **Filter**
  Folded type, mounted on a frame, with protection grille. Filtering cells in polyester fibers. G4 efficiency according to CEN-EN 779 norm; with 90,1% ASHRAE separation degree. The filter is of self-extinguish type.
- **Electrical board**
  It is designed and wired according to IEC 204-1/EN60204-1 regulations, complete with contactor and protection for compressors and fans, main isolator with door-lock.
- **Control panel**
  The microprocessor controls the unit capacity by timing the compressors and checks the operating alarms.

Accessories

- Water heating coil
- Electric heating coil
- Contacts for smoke/fire alarm
- Fan remote condenser contactors and protections
- Upgrading electronic control
- F5 efficiency air folded filter
- Special filter plenum for air outlet (from F6 to F9)
- Air supply plenum with two directions adjustable grilles
- Max and min voltage relay
- Phase sequence relay
- Crankcase electrical heater
- Clock board
- LonWorks® and ModBus® interface electronic board*
- Water on the bottom alarm
- Dirty filters alarm
- Low air flow alarm
- Non return air damper
- Vibration isolation frame with bearings (H 285-400mm.)
- Remote control panel*
- Fan driven by belt and pulley (from Bs to F - 200 PA)
- Modulating humidifier
- 3-way modul. valve 0/10V (heating)*
- Step by step 3-way valve (heating)
- Sound absorber plenum

BXK/PC Comfort		As09 1E	As12 1E	A017 1E	A019 1E	Bs24 1E	B030 1E	B034 1E	C040 1E	C046 2E
Total cooling capacity(1)	kW	9,5	12,2	17,5	19,4	24,2	30,1	33,6	40,2	45,7
Sensible cooling capacity(1)	kW	7,9	9	13,6	14,4	18,3	23,7	24,8	30,7	33
Heating capacity(2)	kW	7,0	9,5	12,1	14,1	17,4	22,0	24,6	29,8	34,1
Power supply	-	400V/3+N/50Hz +T								
Number of compressors	n°	1	1	1	1	1	1	1	1	2
Number of refrigerant circuits	n°	1	1	1	1	1	1	1	1	1
Compressors total power input(1)	kW	2,6	3	4,5	5,3	6,7	8,1	9,2	11,4	13,9
Compressors total current(1)	A	4,7	6,7	8,4	9,2	13	15,5	16,5	19,5	23,7
Air flow	m3/h	2300	2300	3300	3300	4200	5600	5600	8200	8200
External static pressure	Pa	80	80	80	80	150	125	125	125	125
Fans quantity	n°	1	1	1	1	1	2	2	2	2
Fans power input	kW	0,35	0,35	0,55	0,55	0,75	1,5	1,5	1,5	1,5
Fans total current	A	3,1	3,1	4,6	4,6	3,1	6,2	6,2	6,2	6,2
Front sound pressure OVER(3)	dB (A)	52	52	53	53	53	56	56	56	56
Front sound pressure UNDER(3)	dB (A)	49	49	50	50	50	53	53	53	53
Discharge refrigerant pipe dimension	mm	1/Ø16	1/Ø16	1/Ø16	1/Ø16	1/Ø18	1/Ø22	1/Ø22	1/Ø22	1/Ø28
Liquid refrigerant pipe dimension	mm	1/Ø12	1/Ø12	1/Ø12	1/Ø12	1/Ø16	1/Ø16	1/Ø16	1/Ø16	1/Ø18
Combination with remote cond. CTK.E/ST	-	0040D	0040D	0050D	0050D	0080D	0120D	0120D	0150D	0180D
Combination with remote cond. CTK.E/LN	-	0040D	0050D	0080D	0080D	0100D	0120D	0150D	0180D	0220D
Lenght	mm	700	700	880	880	880	1140	1140	1320	1320
Depth	mm	485	485	485	485	700	700	700	840	840
Height	mm	1950	1950	1950	1950	1950	1950	1950	1950	1950
Operating weight	Kg	180	195	210	220	260	345	350	430	450

BXK/PC Comfort		D058 2E	D064 2E	E070 2E	E080 2E	F085 2E	F097 4E
Total cooling capacity(1)	kW	58,3	64	70,4	80,3	84,7	96,8
Sensible cooling capacity(1)	kW	44,6	46,9	56,3	60,3	66,4	71,3
Heating capacity(2)	kW	42,7	47,7	51,3	60,1	62,3	72,6
Power supply	-	400V/3+N/50Hz +T					
Number of compressors	n°	2	2	2	2	2	4
Number of refrigerant circuits	n°	2	2	2	2	2	2
Compressors total power input(1)	kW	16,1	18,4	18,6	23,2	23,4	27,8
Compressors total current(1)	A	31	33	33,2	39	39,2	47,4
Air flow	m3/h	10500	10500	14000	14000	16000	16000
External static pressure	Pa	155	155	140	140	140	140
Fans quantity	n°	3	3	4	4	4	4
Fans power input	kW	2,25	2.,25	3,0	3,0	3,0	3,0
Fans total current	A	9,3	9,3	12,4	12,4	12,4	12,4
Front sound pressure OVER(3)	dB (A)	60	60	61	61	62	62
Front sound pressure UNDER(3)	dB (A)	57	57	58	58	59	59
Discharge refrigerant pipe dimension	mm	2/Ø22	2/Ø22	2/Ø22	2/Ø22	2/Ø22	2/Ø28
Liquid refrigerant pipe dimension	mm	2/Ø16	2/Ø16	2/Ø16	2/Ø16	2/Ø16	2/Ø18
Combination with remote cond. CTK.E/ST	-	2x0100D	2x0120D	2x0120D	2x0150D	2x0150D	2x0180D
Combination with remote cond. CTK.E/LN	-	2x0120D	2x0150D	2x0150D	2x0150D	2x0180D	2x0220D
Lenght	mm	1760	1760	2200	2200	2640	2640
Depth	mm	840	840	840	840	840	840
Height	mm	1950	1950	1950	1950	1950	1950
Operating weight	Kg	550	560	740	760	970	1000

Note
1 Air inlet 26,7°C / 50% U.r. Condenser air temperature 35°C
2 Air inlet 20,0°C / 50% U.r. - Condenser air temperature / U.r. = 7°C - 90% u.r.
2 Data measured at 1m in open field conditions

AXK Comfort

AIR CONDITIONERS

R407C Ecological gas

Configuration
- **O** Upflow
- **U** Downflow

Type
- **SF** Cooling only

Solution
- **K** Comfort

Version
- **ST** Standard
- **SP** Special

Equipement
- **AS** Centrifugal fan

Features

- **Housing**
  Base and panelling made of galvanised steel painted with epoxy powder; frame complete with service panels designed to grant proper operation during maintenance. The aestethic panelling is internally lined to reduce the noise level.
- Air heat exchanger
  Air heat exchanger made of copper tubes arranged in staggered rows. The fins are made of aluminum with a special hydrophilic treatment for better drainage of the condensate and therefore better heat exchange.
- **Compressor**
  HERMETIC SCROLL type, complete with thermal protection.Anti-vibration mountings and oil charge are standard.
- **Fan**
  Centrifugal type with two suctions, directly coupled to the motor which is of external rotor type and is fixed by vibration isolation mountings. The fans have forward curved blades.
- **Water cooled condenser**
  High efficiency plate heat exchanger made of AISI 316 stainless steel.
- **Refrigerant circuit**
  Filter dryer, moinsture-liquid sight glass, HP and LP pressure switches, solenoid valve, thermostatic expansion valve with external equalizer.
- **Filter**
  Folded type, mounted on a frame, with protection grille. Filtering cells in polyester fibers. G4 efficiency according to CEN-EN 779 norm; with 90,1% ASHRAE separation degree. The filter is of self-extinguish type.
- **Electrical board**
  It is designed and wired according to IEC 204-1/EN60204-1 regulations, complete with contactor and protection for compressors and fans, main isolator with door-lock.
- **Control panel**
  The microprocessor controls the unit capacity by timing the compressors and checks the operating alarms.

Accessories

- Water heating coil
- Electric heating coil
- Contacts for smoke/fire alarm
- Upgrading electronic control
- F5 efficiency air folded filter
- Special filter plenum for air outlet (from F6 to F9)
- Air supply plenum with two directions adjustable grilles
- Max and min voltage relay
- Phase sequence relay
- Crankcase electrical heater
- Clock board
- LonWorks® and ModBus® interface electronic board*
- Water on the bottom alarm
- Dirty filters alarm
- Low air flow alarm
- Non return air damper
- Vibration isolation frame with bearings (H 285-400mm.)
- Remote control panel*
- Fan driven by belt and pulley (from Bs to F - 200 PA)
- Modulating humidifier
- 3-way modul. valve 0/10V (heating)*
- Condensing pressure valve
- Step by step 3-way valve (heating)
- Sound absorber plenum

AXK Comfort		As09 1E	As12 1E	A017 1E	A020 1E	Bs21 1E	Bs23 1E	Bs25 1E	B028 1E	B030 1E
Total cooling capacity(1)	kW	9,5	12,1	17,1	20	20,7	23,1	25,3	27,8	30
Sensible cooling capacity(1)	kW	7,9	8,9	13,4	14,6	16,8	17,8	18,7	22,7	23,5
Power supply	-	400V/3+N/50Hz +T				400V/3/50Hz +T				
Number of compressors	n°	1	1	1	1	1	1	1	1	1
Number of refrigerant circuits	n°	1	1	1	1	1	1	1	1	1
Compressors total power input(1)	kW	1,6	2,2	2,6	3,4	3,5	3,9	4,4	4,5	4,9
Compressors total current(1)	A	3,1	4,4	5,4	7,1	7,2	7,3	9,1	9,2	11,1
Air flow	mc/h	2300	2300	3300	3300	4200	4200	4200	5600	5600
External static pressure	Pa	80	80	80	80	150	150	150	125	125
Fans quantity	n°	1	1	1	1	1	1	1	2	2
Fans power input	kW	0,35	0,35	0,55	0,55	0,75	0,75	0,75	1,5	1,5
Fans total current	A	3,1	3,1	4,6	4,6	3,1	3,1	3,1	6,2	6,2
Front sound pressure OVER(2)	dB (A)	52	52	53	53	53	53	53	56	56
Front sound pressure UNDER(2)	dB (A)	49	49	50	50	50	50	50	53	53
IN-OUT diameter cond. water (CITY)	"	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"
IN-OUT diameter cond. water (TOWER)	"	1"	1"	1"¼	1"¼	1"¼	1"¼	1"¼	1"¼	1"¼
Lenght	mm	700	700	880	880	880	880	880	1140	1140
Depth	mm	485	485	485	485	700	700	700	700	700
Operating weight	Kg	190	200	230	240	260	270	280	340	350
Height	mm	1950	1950	1950	1950	1950	1950	1950	1950	1950

AXK Comfort		B034 1E	C039 1E	C045 1E	D054 2E	D058 2E	D066 2E	E079 2E	F083 2E	F096 2E
Total cooling capacity(1)	kW	34,1	39,1	45,1	53,7	58,1	65,6	79,2	82,5	95,7
Sensible cooling capacity(1)	kW	25,3	30,3	32,8	42,7	44,4	47,5	59,8	65,6	70,8
Power supply	-	400V/3/50Hz +T								
Number of compressors	n°	1	1	1	2	2	2	2	2	2
Number of refrigerant circuits	n°	1	1	1	2	2	2	2	2	2
Compressors total power input(1)	kW	5,9	6,7	8,6	9,1	11,1	13,2	13,6	13,7	15,7
Compressors total current(1)	A	13,2	13,6	15,7	18,2	22,2	26,4	27,2	27,4	31,4
Air flow	mc/h	5600	8200	8200	10500	10500	10500	14000	14000	16000
External static pressure	Pa	125	125	125	155	155	155	140	140	140
Fans quantity	n°	2	2	2	3	3	3	4	4	4
Fans power input	kW	1,5	1,5	1,5	2,25	2,25	2,25	3,0	3,0	3,0
Fans total current	A	6,2	6,2	6,2	9,3	9,3	9,3	12,4	12,4	12,4
Front sound pressure OVER(2)	dB (A)	56	56	56	60	60	60	61	62	62
Front sound pressure UNDER(2)	dB (A)	53	53	53	57	57	57	58	59	59
IN-OUT diameter cond. water (CITY)	"	¾"	1"	1"	1"	1"	1"	1"¼	1"¼	1"¼
IN-OUT diameter cond. water (TOWER)	"	1"¼	1"½	1"½	2"	2"	2"	2"	2"	2"½
Lenght	mm	1140	1320	1320	1760	1760	1760	2200	2640	2640
Depth	mm	700	840	840	840	840	840	840	840	840
Operating weight	Kg	360	440	450	530	540	550	750	960	980
Height	mm	1950	1950	1950	1950	1950	1950	1950	1950	1950

Note
1 Air inlet 24°C / 50% U.r. IN-OUT water condenser temperature = 30°C / 35°C
2 Data measured at 1m in open field conditions

AXK/PC Comfort

HEAT PUMP AIR CONDITIONERS

R407C Ecological gas

Configuration
- **O** Upflow
- **U** Downflow

Type
- **PC** Heat pump

Solution
- **K** Comfort

Version
- **ST** Standard
- **SP** Special

Equipement
- **AS** Centrifugal fan

Features

- **Housing**
  Base and panelling made of galvanised steel painted with epoxy powder; frame complete with service panels designed to grant proper operation during maintenance. The aestethic panelling is internally lined to reduce the noise level.
- Air heat exchanger
  Air heat exchanger made of copper tubes arranged in staggered rows. The fins are made of aluminum with a special hydrophilic treatment for better drainage of the condensate and therefore better heat exchange.
- **Compressor**
  HERMETIC SCROLL type, complete with thermal protection.Anti-vibration mountings and oil charge are standard.
- **Fan**
  Centrifugal type with two suctions, directly coupled to the motor which is of external rotor type and is fixed by vibration isolation mountings. The fans have forward curved blades.
- **Water cooled condenser**
  High efficiency plate heat exchanger made of AISI 316 stainless steel.
- **Refrigerant circuit**
  Liquid receiver, filter dryer, moinsture-liquid sight glass, HP and LP pressure switches, solenoid valve, thermostatic expansion valve with external equalizer, 4-way valve cycle inverson
- **Filter**
  Folded type, mounted on a frame, with protection grille. Filtering cells in polyester fibers. G4 efficiency according to CEN-EN 779 norm; with 90,1% ASHRAE separation degree. The filter is of self-extinguish type.
- **Electrical board**
  It is designed and wired according to IEC 204-1/EN60204-1 regulations, complete with contactor and protection for compressors and fans, main isolator with door-lock.
- **Control panel**
  The microprocessor controls the unit capacity by timing the compressors and checks the operating alarms.

Accessories

- Water heating coil
- Electric heating coil
- Contacts for smoke/fire alarm
- Upgrading electronic control
- F5 efficiency air folded filter
- Special filter plenum for air outlet (from F6 to F9)
- Air supply plenum with two directions adjustable grilles
- Max and min voltage relay
- Phase sequence relay
- Crankcase electrical heater
- Clock board
- LonWorks® interface electronic board*
- ModBus® interface electronic board*
- Water on the bottom alarm
- Dirty filters alarm
- Low air flow alarm
- Non return air damper
- Vibration isolation frame with bearings (H 285-400mm.)
- Remote control panel*
- Fan driven by belt and pulley (from Bs to F - 200 PA)
- Modulating humidifier
- 3-way modul. valve 0/10V (heating)*
- Step by step 3-way valve (heating)
- Sound absorber plenum

AXK/PC Comfort		As09 1E	As12 1E	A017 1E	A020 1E	Bs21 1E	Bs23 1E	Bs25 1E	B028 1E	B030 1E
Total cooling capacity(1)	kW	9,5	12,1	17,1	20	20,7	23,1	25,3	27,8	30
Sensible cooling capacity(1)	kW	7,9	8,9	13,4	14,6	16,8	17,8	18,7	22,7	23,5
Heating capacity(2)	kW	8,9	12,0	15,3	18,6	18,8	21,9	24,6	25,2	28
Power supply	-	400V/3+N/50Hz +T				400V/3/50Hz +T				
Number of compressors	n°	1	1	1	1	1	1	1	1	1
Number of refrigerant circuits	n°	1	1	1	1	1	1	1	1	1
Compressors total power input(1)	kW	1,6	2,2	2,6	3,4	3,5	3,9	4,4	4,5	4,9
Compressors total current(1)	A	3,1	4,4	5,4	7,1	7,2	7,3	9,1	9,2	11,1
Air flow	mc/h	2300	2300	3300	3300	4200	4200	4200	5600	5600
External static pressure	Pa	80	80	80	80	150	150	150	125	125
Fans quantity	n°	1	1	1	1	1	1	1	2	2
Fans power input	kW	0,35	0,35	0,55	0,55	0,75	0,75	0,75	1,5	1,5
Fans total current	A	3,1	3,1	4,6	4,6	3,1	3,1	3,1	6,2	6,2
Front sound pressure OVER(3)	dB (A)	52	52	53	53	53	53	53	56	56
Front sound pressure UNDER(3)	dB (A)	49	49	50	50	50	50	50	53	53
IN-OUT diameter cond. water (CITY)	"	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"
IN-OUT diameter cond. water (TOWER)	"	1"	1"	1"¼	1"¼	1"¼	1"¼	1"¼	1"¼	1"¼
Lenght	mm	700	700	880	880	880	880	880	1140	1140
Depth	mm	485	485	485	485	700	700	700	700	700
Height	mm	1950	1950	1950	1950	1950	1950	1950	1950	1950
Operating weight	Kg	190	200	230	240	260	270	280	340	350

AXK/PC Comfort		B034 1E	C039 1E	C045 1E	D054 2E	D058 2E	D066 2E	E079 2E	F083 2E	F096 2E
Total cooling capacity(1)	kW	34,1	39,1	45,1	53,7	58,1	65,6	79,2	82,5	95,7
Sensible cooling capacity(1)	kW	25,3	30,3	32,8	42,7	44,4	47,5	59,8	65,6	70,8
Heating capacity(2)	kW	33,3	38,4	46,3	50,0	55,2	65,9	77	78,1	94,1
Power supply	-	400V/3/50Hz +T								
Number of compressors	n°	1	1	1	2	2	2	2	2	2
Number of refrigerant circuits	n°	1	1	1	2	2	2	2	2	2
Compressors total power input(1)	kW	5,9	6,7	8,6	9,1	11,1	13,2	13,6	13,7	15,7
Compressors total current(1)	A	13,2	13,6	15,7	18,2	22,2	26,4	27,2	27,4	31,4
Air flow	mc/h	5600	8200	8200	10500	10500	10500	14000	14000	16000
External static pressure	Pa	125	125	125	155	155	155	140	140	140
Fans quantity	n°	2	2	2	3	3	3	4	4	4
Fans power input	kW	1,5	1,5	1,5	2,25	2,25	2,25	3,0	3,0	3,0
Fans total current	A	6,2	6,2	6,2	9,3	9,3	9,3	12,4	12,4	12,4
Front sound pressure OVER(3)	dB (A)	56	56	56	60	60	60	61	62	62
Front sound pressure UNDER(3)	dB (A)	53	53	53	57	57	57	58	59	59
IN-OUT diameter cond. water (CITY)	"	¾"	1"	1"	1"	1"	1"	1"¼	1"¼	1"
IN-OUT diameter cond. water (TOWER)	"	1"¼	1"½	1"½	2"	2"	2"	2"	2"	2"
Lenght	mm	1140	1320	1320	1760	1760	1760	2200	2640	2640
Depth	mm	700	840	840	840	840	840	840	840	840
Height	mm	1950	1950	1950	1950	1950	1950	1950	1950	1950
Operating weight	Kg	360	440	450	530	540	550	750	960	980

Note
1 Air inlet 24°C / 50% U.r. IN-OUT water condenser temperature = 30°C / 35°C
2 Air inlet 20°C / 50% U.r. - IN-OUT water temperature = 12°C / 7°C
3 Data measured at 1m in open field conditions

CWK Comfort

AIR CONDITIONERS

Configuration
- **O** Upflow
- **U** Downflow

Type
- **SF** Cooling only

Solution
- **K** Comfort

Version
- **ST** Standard
- **SP** Special

Equipement
- **AS** Centrifugal fan

Features

- **Housing**
  Base and panelling made of galvanised steel painted with epoxy powder; frame complete with service panels designed to grant proper operation during maintenance. The aestethic panelling is internally lined to reduce the noise level.
- Air heat exchanger
  Air heat exchanger made of copper tubes arranged in staggered rows. The fins are made of aluminum with a special hydrophilic treatment for better drainage of the condensate and therefore better heat exchange.
- **Fan**
  Centrifugal type with two suctions, directly coupled to the motor which is of external rotor type and is fixed by vibration isolation mountings. The fans have forward curved blades.
- **Cooling circuit**
  3-way valve for the control of the chilled water flow and the air temperature.
- **Filter**
  Folded type, mounted on a frame, with protection grille. Filtering cells in polyester fibers. G4 efficiency according to CEN-EN 779 norm; with 90,1% ASHRAE separation degree. The filter is of self-extinguish type.
- **Electrical board**
  It is designed and wired according to IEC 204-1/EN60204-1 regulations, complete with contactor and protection for compressors and fans, main isolator with door-lock.
- **Control panel**
  The microprocessor controls the unit capacity by timing the compressors and checks the operating alarms.

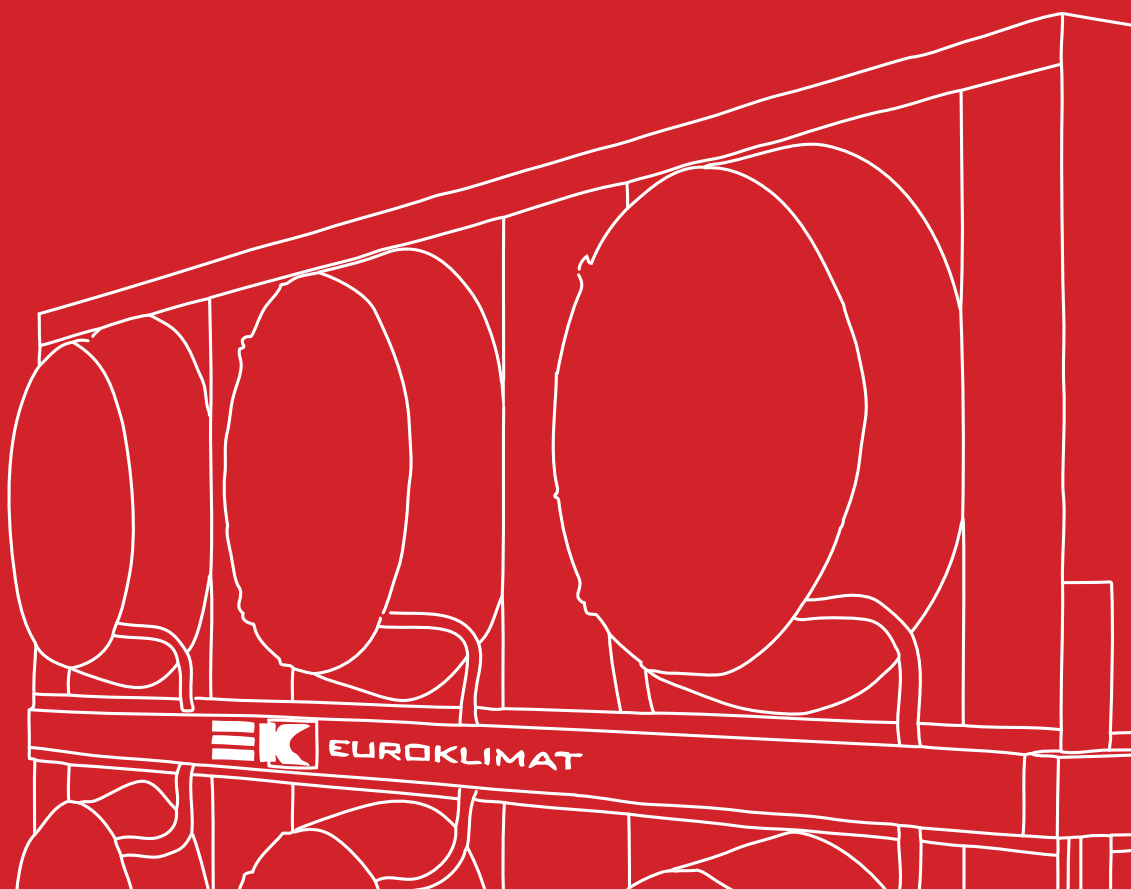
Accessories

- Water heating coil
- Electric heating coil
- Contacts for smoke/fire alarm
- Upgrading electronic control
- F5 efficiency air folded filter
- Special filter plenum for air outlet (from F6 to F9)
- Air supply plenum with two directions adjustable grilles
- Max and min voltage relay
- Clock board
- LonWorks® interface electronic board*
- ModBus® interface electronic board*
- Water on the bottom alarm
- Dirty filters alarm
- Low air flow alarm
- Non return air damper
- Vibration isolation frame with bearings (H 285-400mm.)
- Remote control panel*
- Fan driven by belt and pulley (from Bs to F - 200 PA)
- Modulating humidifier
- 3-way modul. valve 0/10V (heating)*
- Condensing pressure valve
- Step by step 3-way valve (heating)
- Sound absorber plenum

CWK Comfort		As24 1W	A034 1W	Bs44 1W	B064 1W	C090 1W	D110 1W	E140 1W	E150 1W	F180 1W
Total cooling capacity(1)	kW	24	34	45	64	88	109	140	146	177
Sensible cooling capacity(1)	kW	17	24	32	45	62	77	99	104	126
Power supply	-	230V/1/50Hz +T		400V/3/50Hz +T						
Air flow	mc/h	3200	4000	6000	8500	12000	15000	18600	21000	24000
External static pressure	Pa	100	100	100	170	100	170	100	170	100
Fans quantity	n°	1	2	2	2	2	2	3	3	4
Fans power input	kW	0,55	0,7	1,1	1,5	2,2	3,0	3,3	4,5	4,4
Fans total current	A	3,6	5,0	3,6	5,0	7,0	11,0	10,8	16,2	14,0
Front sound pressure OVER(2)	dB (A)	51	52	52	55	58	64	64	65	68
Front sound pressure UNDER(2)	dB (A)	48	49	49	52	55	61	61	62	65
Lenght	mm	700	880	880	1140	1320	1760	2200	2200	2640
Depth	mm	485	485	700	700	840	840	840	840	840
Height	mm	1950	1950	1950	1950	1950	1950	1950	1950	1950
Operating weight	Kg	150	175	235	275	300	440	550	570	750
Water connections diameter	"	3/4"	1"	1"	1"1/4	1"1/2	2"	2"	2"1/2	2"1/2

Note
1 Air inlet 26,7°C / 50% U.r. - IN-OUT cooled water temperature = 7°C / 12°C
2 Data measured at 1m in open field conditions

Air cooled condensers



CTK.E

REMOTE AIR COOLED CONDENSER

R407C Ecological gas

Solution
- **B** Base

Version
- **ST** Standard
- **LN** Low noise

Equipement
- **FV** Vertical air flow
- **FO** Horizontal air flow

Features

- **Housing**
  Frame made of goffered aluminium alloy to ensure total mechanical and weathering resistance
- **Fan**
  Low speed, axial-flow fans fitted with accident-prevention protective grille; directly coupled motor with built-in thermal cutout and IP 54 protection degree; aerodynamic housing and wing profile blades increase efficiency
- **Air heat exchanger**
  Finned coil made with copper pipes and aluminium fins offering a high exchange surface area.
- **Electrical board**
  IP55 protection degree, complete with main isolator.

Accessories

- Modulating fan speed condensing control **(-15°C)**

CTK.E		0040 D	0050 D	0080 D	0100 D	0120 D	0150 D	0180 D	0220 D
ST VERSION									
Nominal capacity(3)	kW	16,6	26,4	34,0	39,5	50,0	59,7	66,9	79,3
Indipendent gas circuit	n°	1	1	1	1	1	1	1	1
Total air flow	m3/h	4.330	6.900	9.850	9.600	14.700	13.750	16.250	18.200
Fans type	-	Axial							
Fans quantity	n°	1	1	1	1	2	2	2	2
Fans power input	kW	0,28	0,37	0,63	0,63	0,74	0,74	1,26	1,26
Sound pressure(2)	dB(A)	61	65	70	70	68	68	73	73
LN VERSION									
Nominal capacity(3)	kW	13,3	20,3	28,0	31,9	38,3	44,7	54,3	63,8
Indipendent gas circuit	n°	1	1	1	1	1	1	1	1
Total air flow	m3/h	3.500	5.600	7.900	7.700	11.800	11.000	13.000	14.600
Fans type	-	Axial							
Fans quantity	n°	1	1	1	1	2	2	2	2
Fans power input	kW	0,15	0,22	0,31	0,31	0,44	0,44	0,62	0,62
Sound pressure(2)	dB(A)	58	62	67	67	65	65	70	70
Power supply	V/ph/Hz + T	230/1/50							

Note:
1 Outdoor air temperature 35°C - Condensation temperature 52°C (Dew point)
2 Sound pressure measured at 1m open field conditions

CTK.E		0040 D	0050 D	0080 D	0100 D	0120 D	0150 D	0180 D	0220 D
DIMENSIONS AND WEIGHT - ST - LN Version									
Lenght (L)	mm	1.010	1.165	1.410	1.410	1.860	1.860	1.860	2.415
Depth (P)	mm	730	930	1.130	1.130	1.130	1.130	1.130	1.130
Height (H)	mm	900	900	900	900	900	900	900	900
Shipping weight	Kg	40	51	61	70	97	110	130	165

Note: Dimensional data refer to FO equipement

CTK.C

REMOTE AIR COOLED CONDENSER

R407C Ecological gas

Solution
- **B** Base

Version
- **ST** Standard
- **LN** Low noise

Equipement
- **FV** Vertical air flow
- **FO** Horizontal air flow

Features

- **Housing**
  Frame made of goffered aluminium alloy to ensure total mechanical and weathering resistance
- **Fan**
  Centrifugal type with two suctions, coupled to the three phases motor by V-belt and pulley. The fans have forward curved blades in order to get the best performances in terms of efficiency and noise level.
- **Air heat exchanger**
  Finned coil made with copper pipes and aluminium fins offering a high exchange surface area.
- **Electrical board**
  IP55 protection degree, complete with main isolator.

Accessories

- Modulating condensing control **(-15°C)**

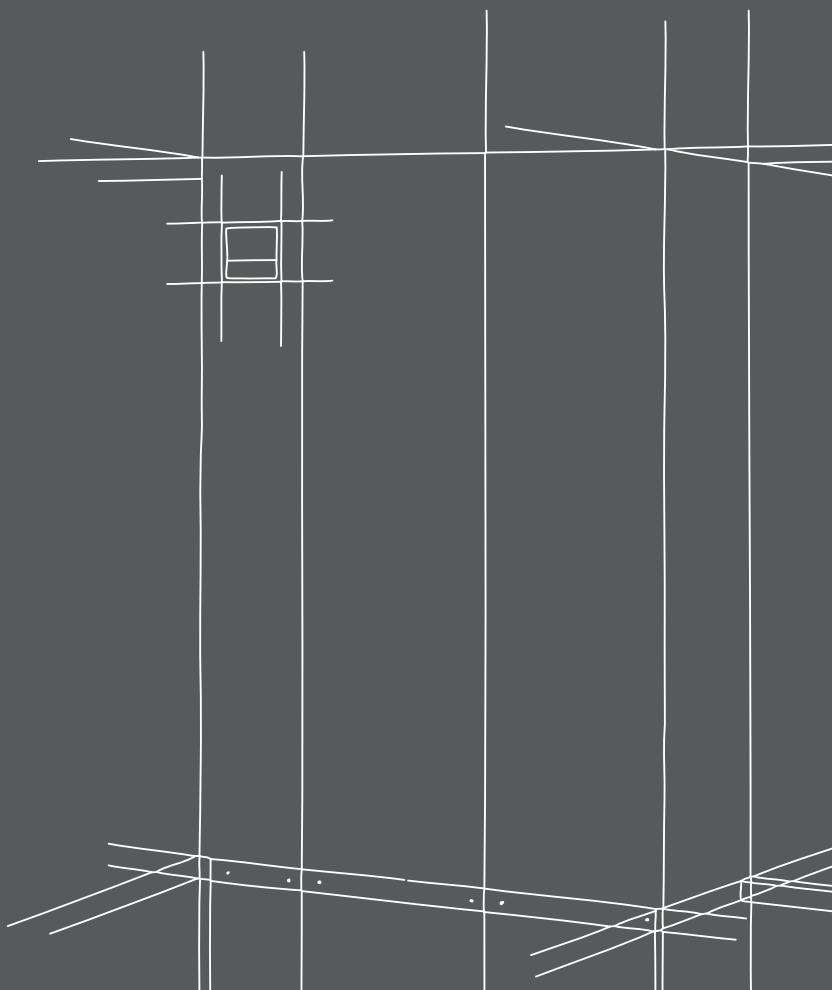
CTK.C		0040 D	0050 D	0080 D	0100 D	0120 D	0150 D	0180 D	0220 D
ST VERSION									
Nominal capacity(3)	kW	16,5	26,1	38,6	46,0	51,3	65,5	70,7	82,5
Indipendent gas circuit	n°	1	1	1	1	1	1	1	1
Total air flow	m3/h	4.700	7.400	11.700	11.700	14.000	16.000	18.000	19.000
External static pressure	Pa	50	50	50	50	50	50	50	50
Fans type	-	Centrifugal forward blades							
Fans quantity	n°	1	1	1	1	1	1	1	1
Fans power input	kW	0,75	1,5	3,0	3,0	3,0	3,0	4,0	5,5
Sound pressure(2)	dB(A)	74	77	79	81	83	87	87	88
LN VERSION									
Nominal capacity(3)	kW	13,9	22,0	32,5	38,2	43,5	54,4	59,6	69,7
Indipendent gas circuit	n°	1	1	1	1	1	1	1	1
Total air flow	m3/h	3.600	5.700	9.000	9.000	10.800	12.300	13.900	14.600
External static pressure	Pa	50	50	50	50	50	50	50	50
Fans type	-	Centrifugal forward blades							
Fans quantity	n°	1	1	1	1	1	1	1	1
Fans power input	kW	0,55	0,75	1,2	1,2	1,5	1,5	2,2	2,2
Sound pressure(2)	dB(A)	71	74	76	77	77	82	83	83
Power supply	V/ph/Hz + T	400/3/50							

Note:
1 Outdoor air temperature 35°C - Condensation temperature 52°C (Dew point)
2 Sound pressure measured at 1m open field conditions

CTK.C		0040 D	0050 D	0080 D	0100 D	0120 D	0150 D	0180 D	0220 D
DIMENSIONS AND WEIGHT - ST - LN Version									
Lenght (L)	mm	1.040	1.190	1.460	1.460	1.460	1.900	1.900	1.900
Depth (P)	mm	760	860	1.080	1.080	1.080	1.080	1.080	1.080
Height (H)	mm	770	970	1.170	1.170	1.170	1.170	1.170	1.170
Shipping weight	Kg	96	136	185	192	210	260	270	285

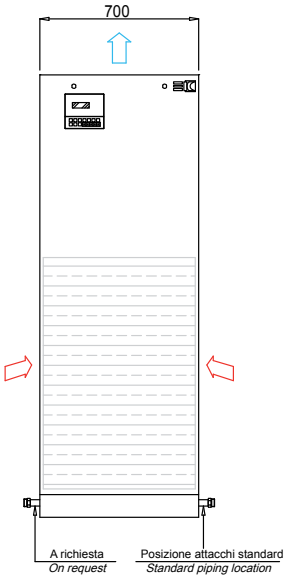
Note: Dimensional data refer to FO equipement

Dimensions

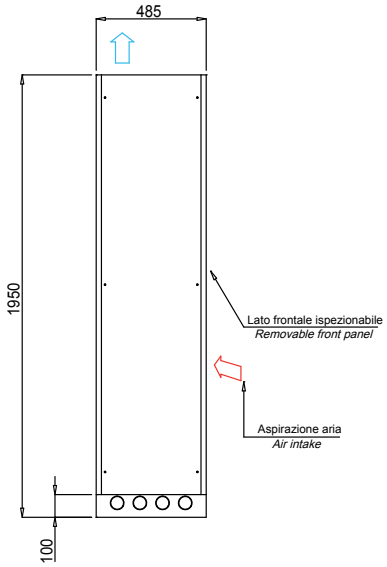


Size "As" OVER

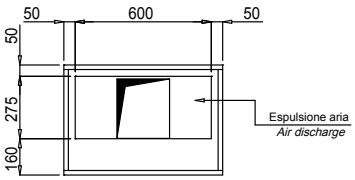
Vista frontale
Front view



Vista laterale sinistra
Side view (left)



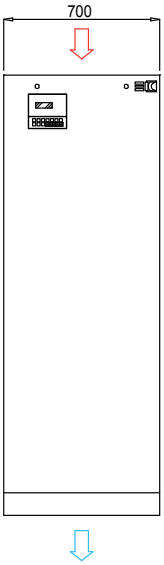
Vista in pianta
Top view



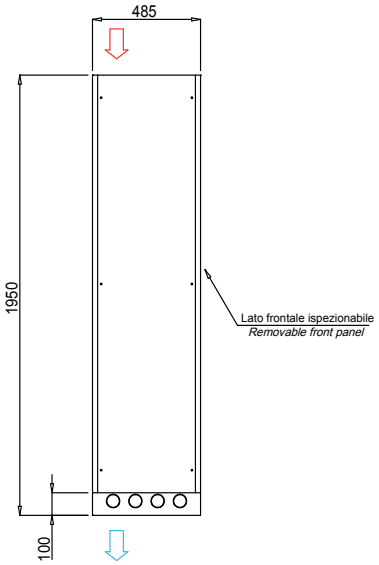
NOTE: Top view is referred to centrifugal fan unit

Size "As" UNDER

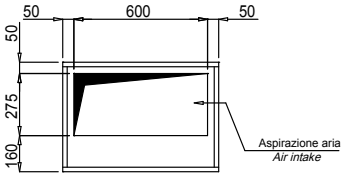
Vista frontale
Front view

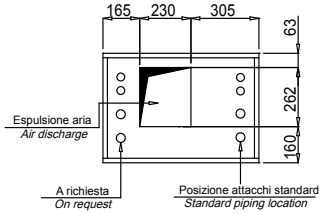


Vista laterale sinistra
Side view (left)



Vista in pianta
Top view

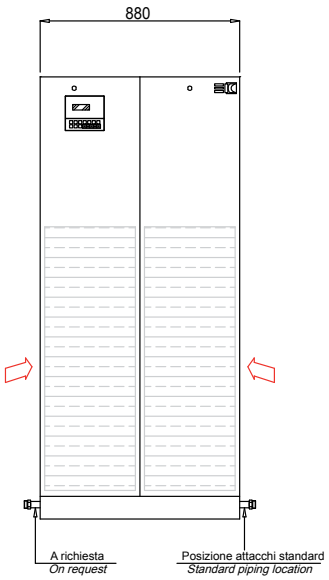




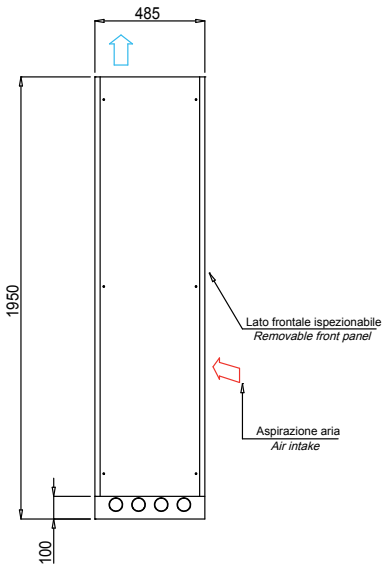
NOTE: Top view is referred to centrifugal fan unit

Size "A" OVER

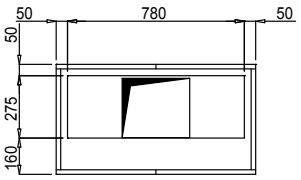
Vista frontale
Front view



Vista laterale sinistra
Side view (left)



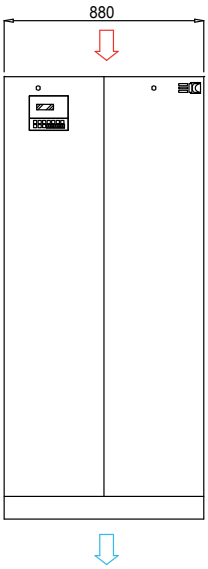
Vista in pianta
Top view



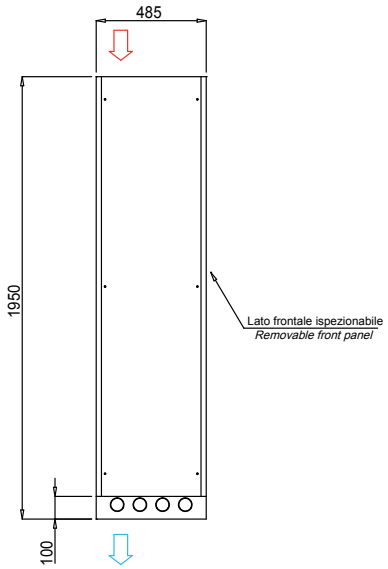
NOTE: Top view is referred to centrifugal fan unit

Size "A" UNDER

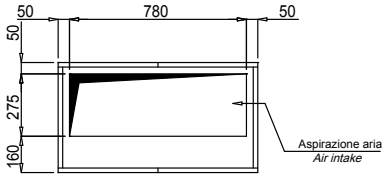
Vista frontale
Front view

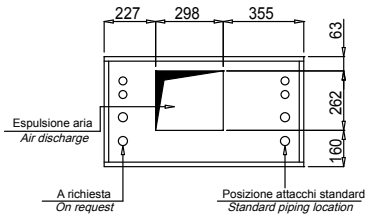


Vista laterale sinistra
Side view (left)



Vista in pianta
Top view

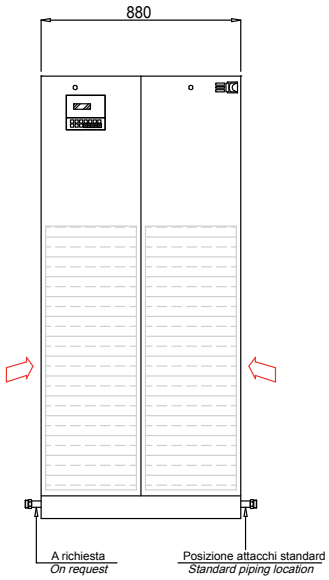




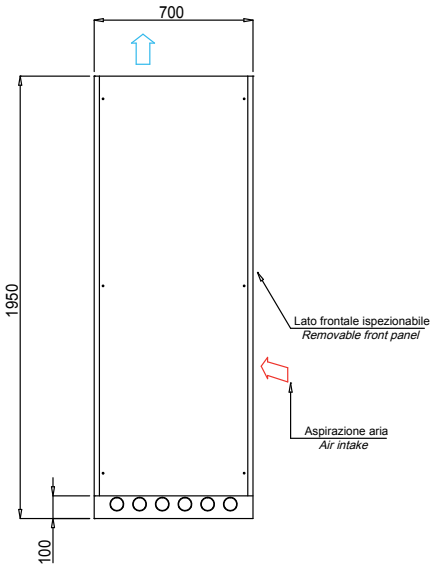
NOTE: Top view is referred to centrifugal fan unit

Size "Bs" OVER

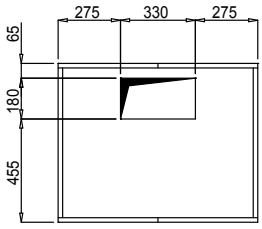
Vista frontale
Front view



Vista laterale sinistra
Side view (left)



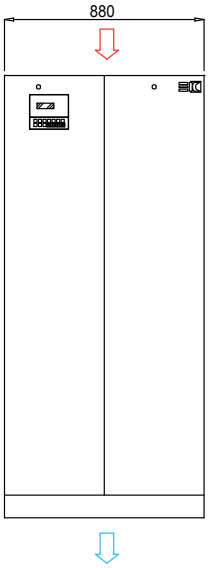
Vista in pianta
Top view



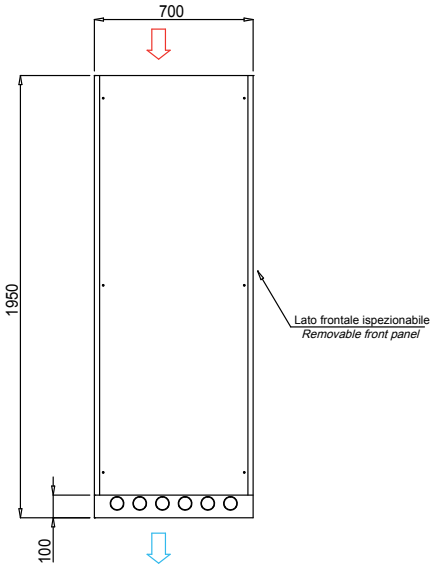
NOTE: Top view is referred to centrifugal fan unit

Size "Bs" UNDER

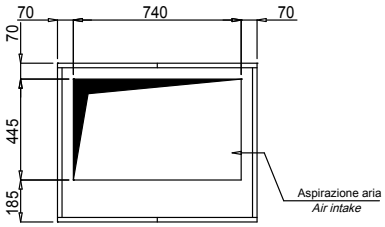
Vista frontale
Front view

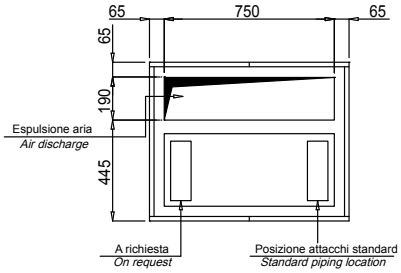


Vista laterale sinistra
Side view (left)



Vista in pianta
Top view

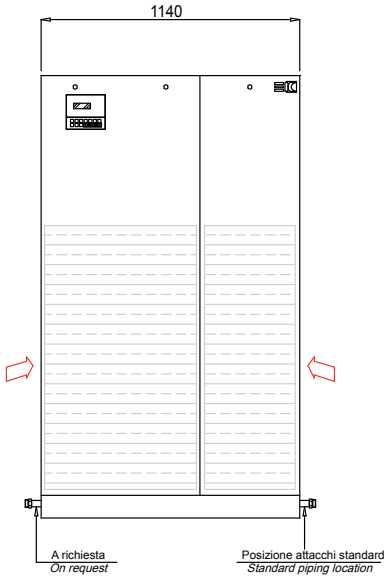




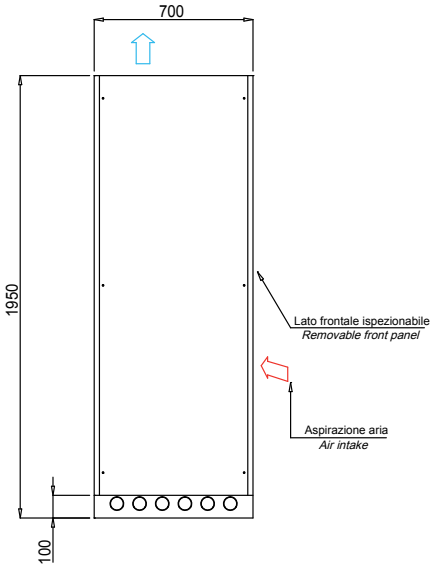
NOTE: Top view is referred to centrifugal fan unit

Size "B" OVER

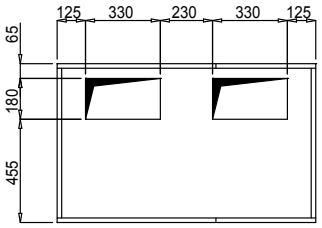
Vista frontale
Front view



Vista laterale sinistra
Side view (left)



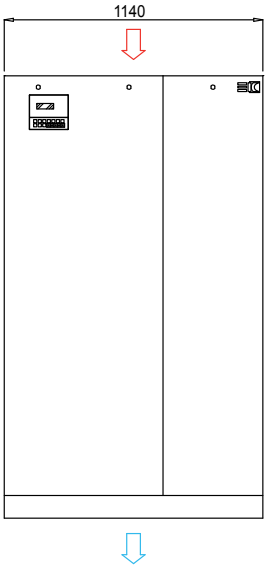
Vista in pianta
Top view



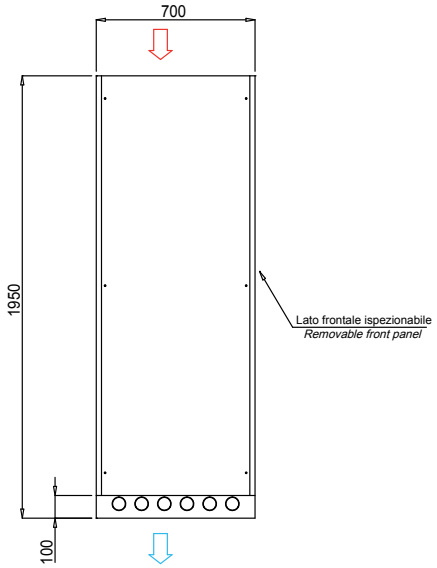
NOTE: Top view is referred to centrifugal fan unit

Size "B" UNDER

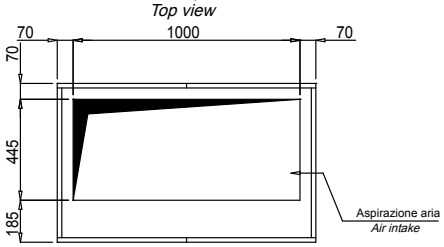
Vista frontale
Front view

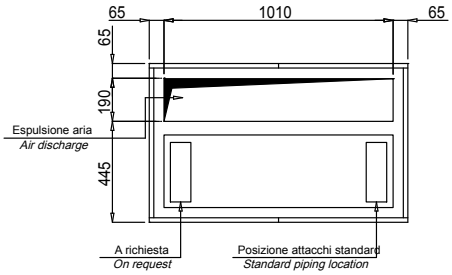


Vista laterale sinistra
Side view (left)



Vista in pianta
Top view

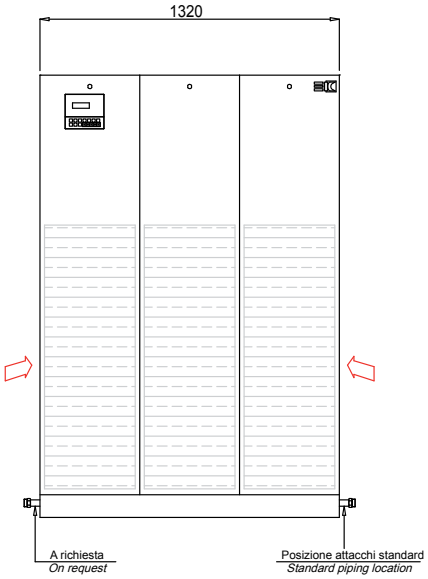




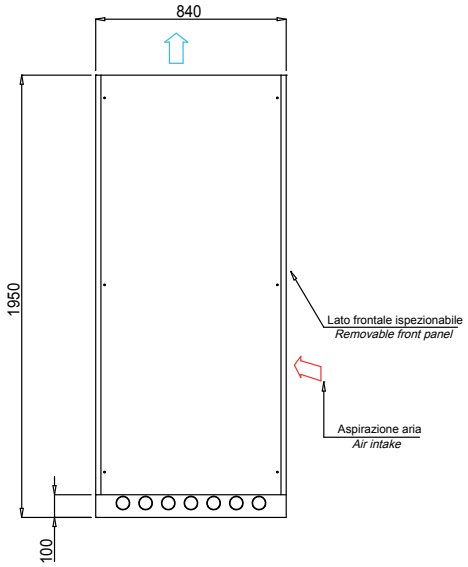
NOTE: Top view is referred to centrifugal fan unit

Size "C" OVER

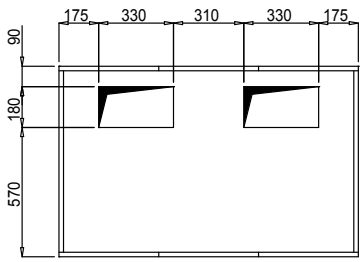
Vista frontale
Front view



Vista laterale sinistra
Side view (left)



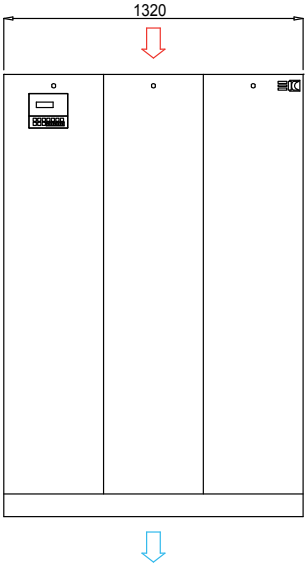
Vista in pianta
Top view



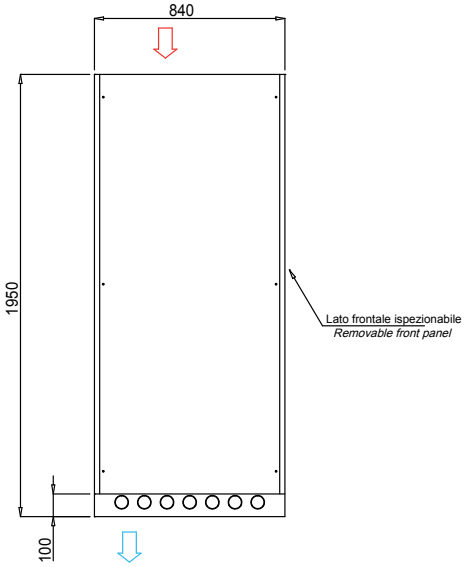
NOTE: Top view is referred to centrifugal fan unit

Size "C" UNDER

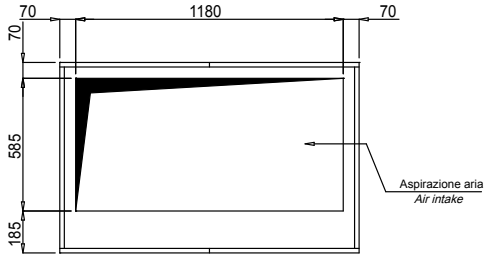
Vista frontale
Front view

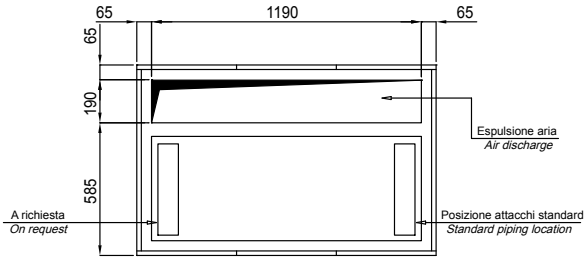


Vista laterale sinistra
Side view (left)



Vista in pianta
Top view

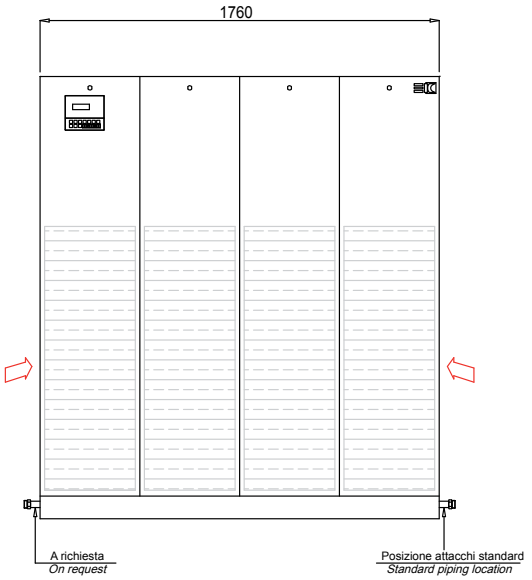




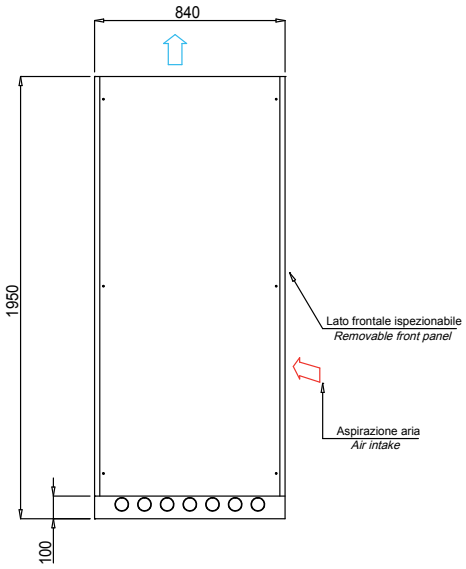
NOTE: Top view is referred to centrifugal fan unit

Size "D" OVER

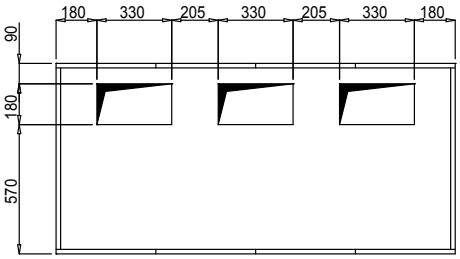
Vista frontale
Front view



Vista laterale sinistra
Side view (left)



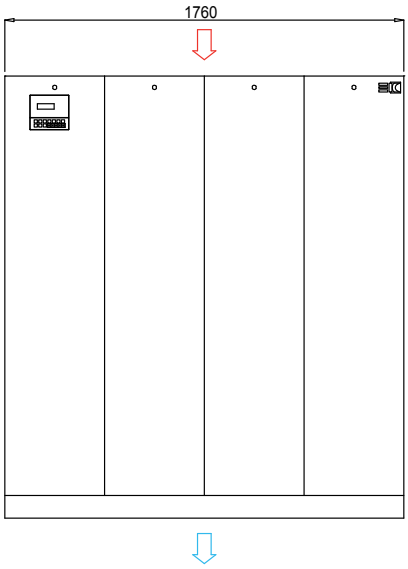
Vista in pianta
Top view



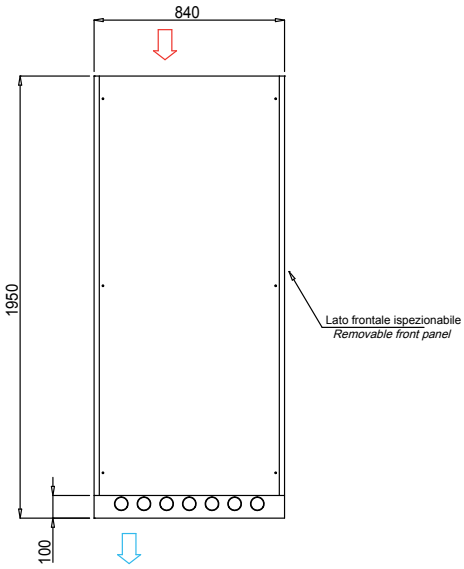
NOTE: Top view is referred to centrifugal fan unit

Size "D" UNDER

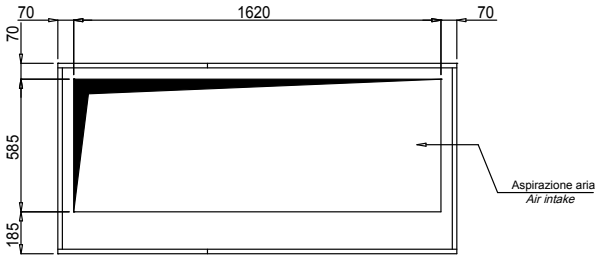
Vista frontale
Front view

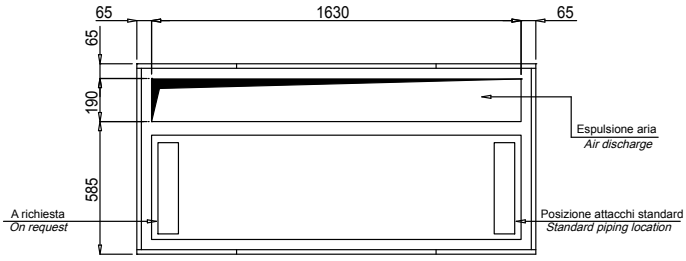


Vista laterale sinistra
Side view (left)



Vista in pianta
Top view

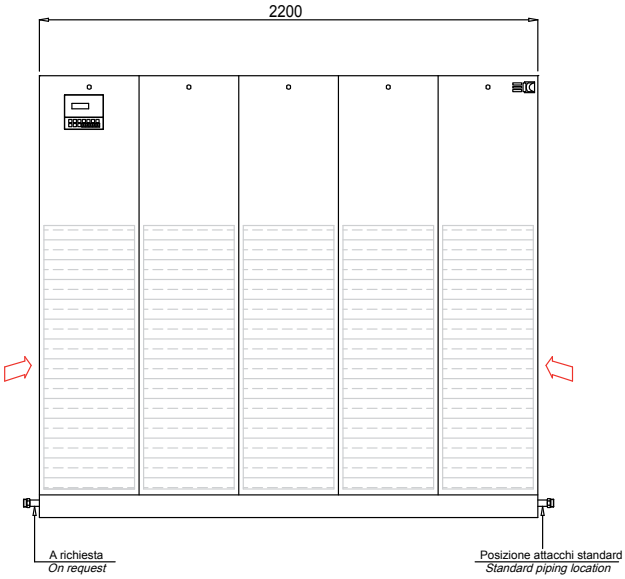




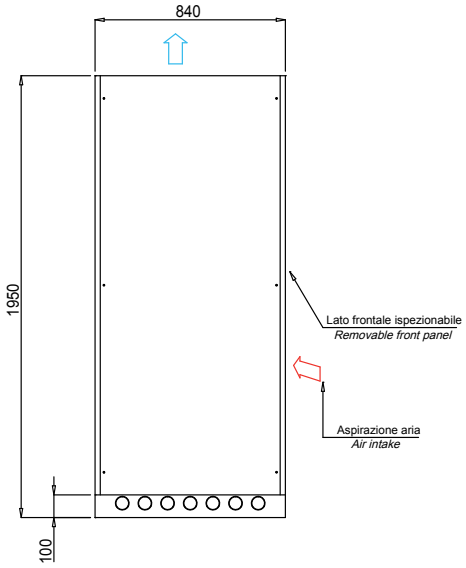
NOTE: Top view is referred to centrifugal fan unit

Size "E" OVER

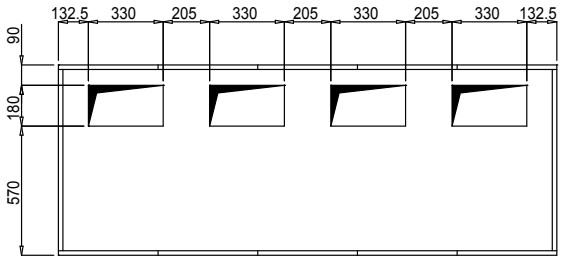
Vista frontale
Front view



Vista laterale sinistra
Side view (left)



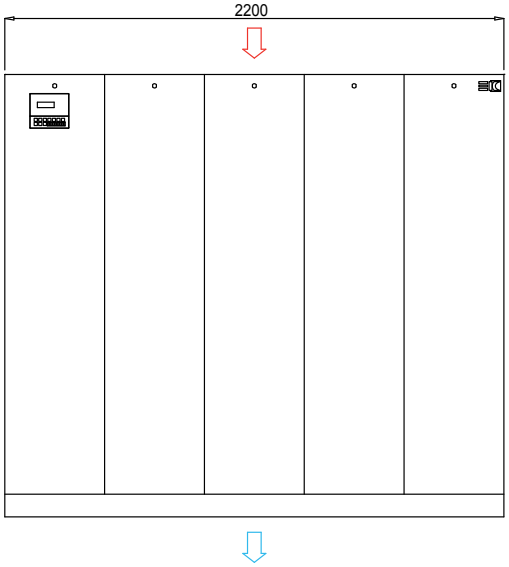
Vista in pianta
Top view



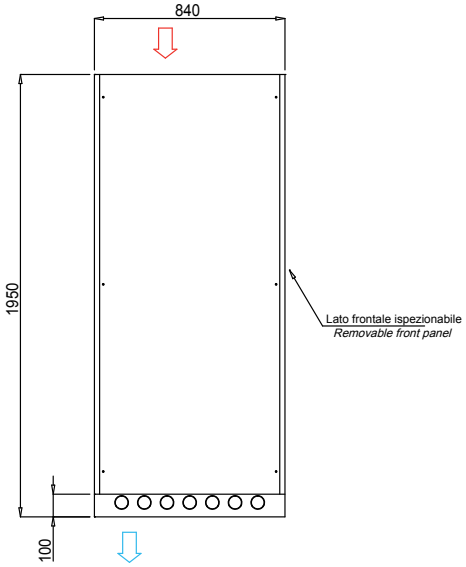
NOTE: Top view is referred to centrifugal fan unit

Size "E" UNDER

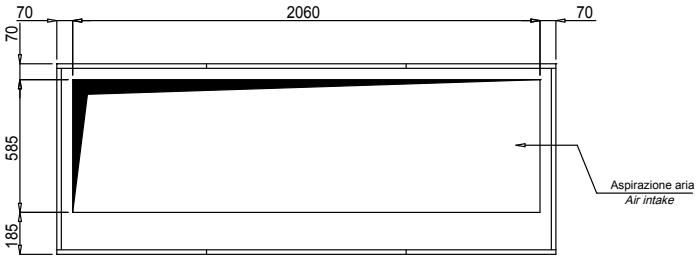
Vista frontale
Front view

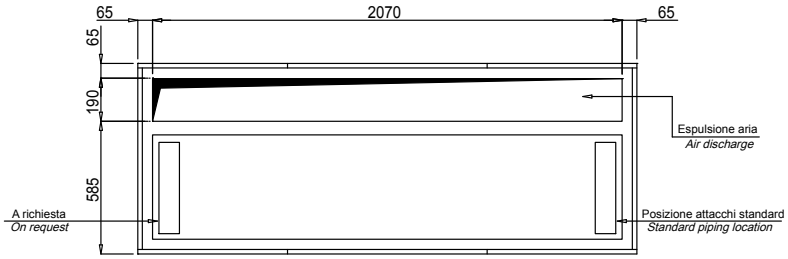


Vista laterale sinistra
Side view (left)



Vista in pianta
Top view

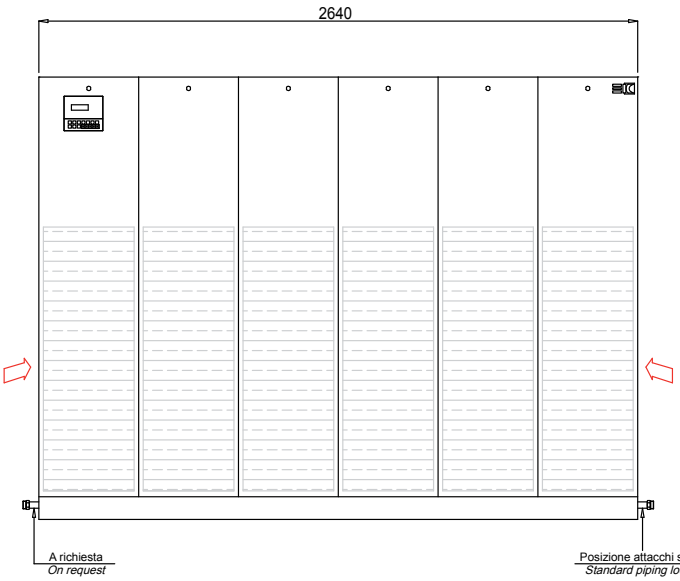




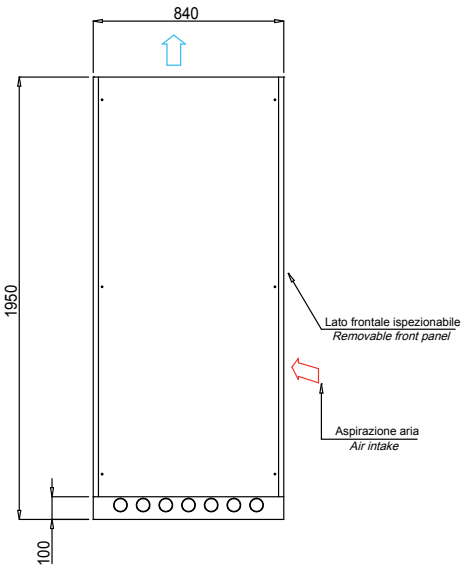
NOTE: Top view is referred to centrifugal fan unit

Size "F" OVER

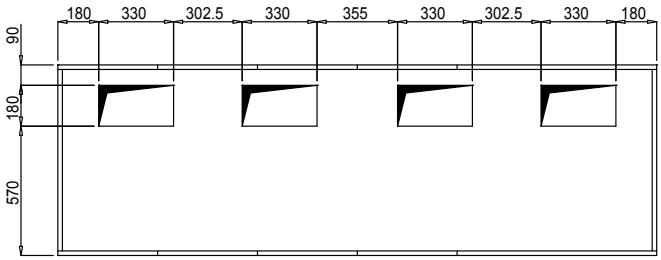
Vista frontale
Front view



Vista laterale sinistra
Side view (left)



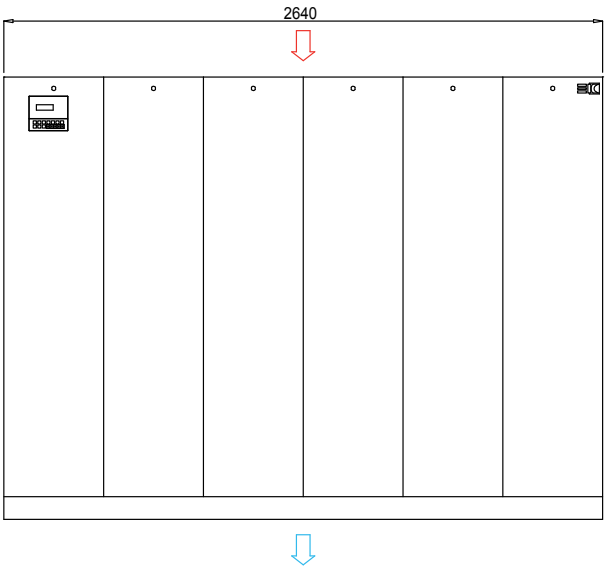
Vista in pianta
Top view



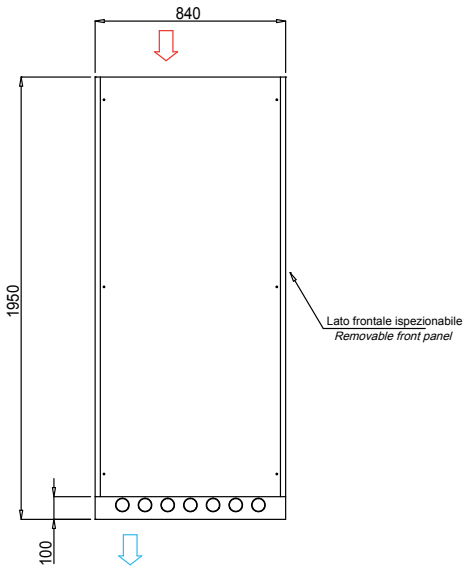
NOTE: Top view is referred to centrifugal fan unit

Size "F" UNDER

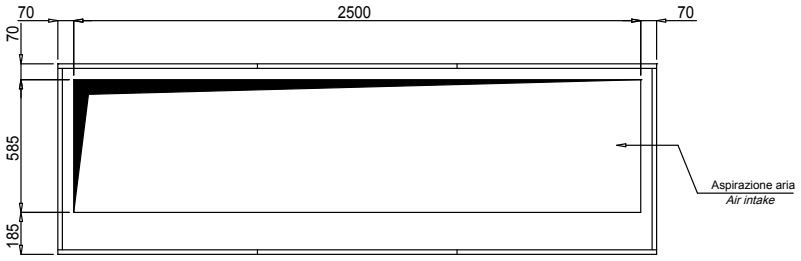
Vista frontale
Front view

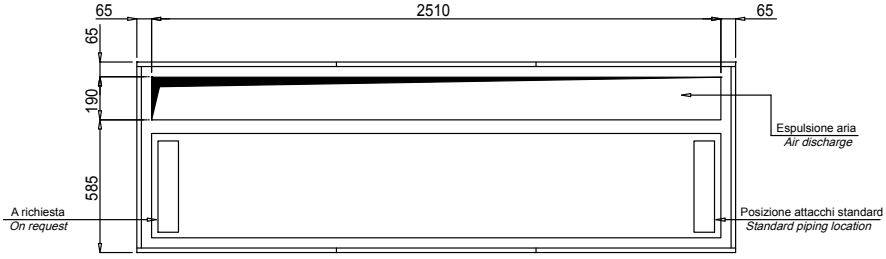


Vista laterale sinistra
Side view (left)



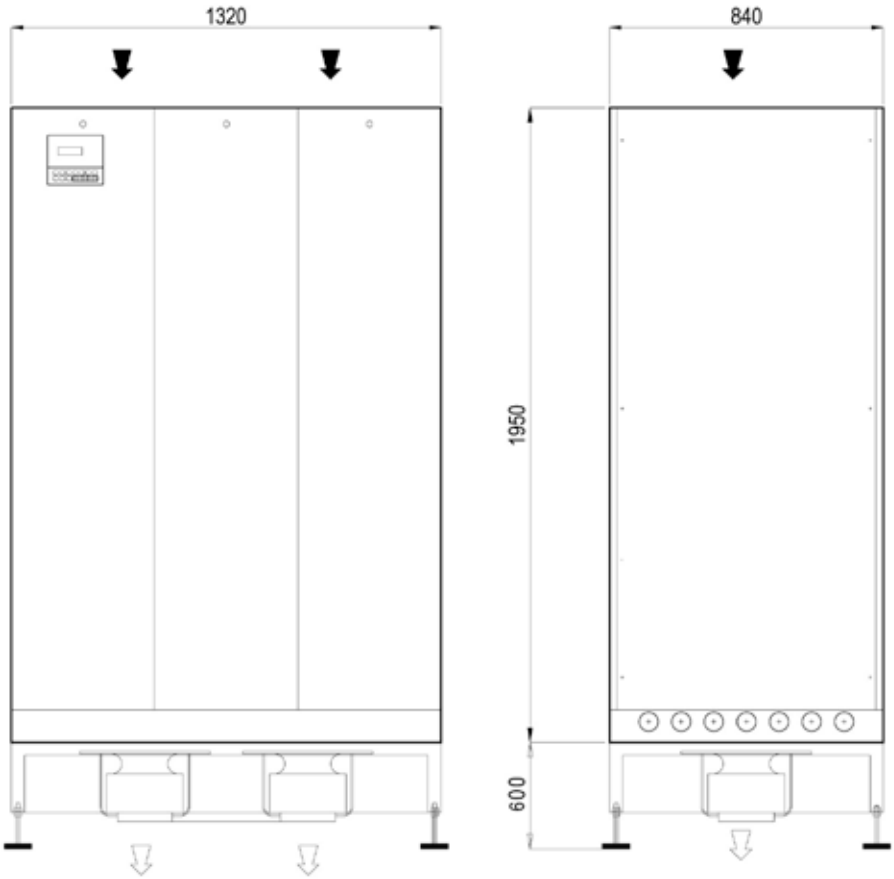
Vista in pianta
Top view



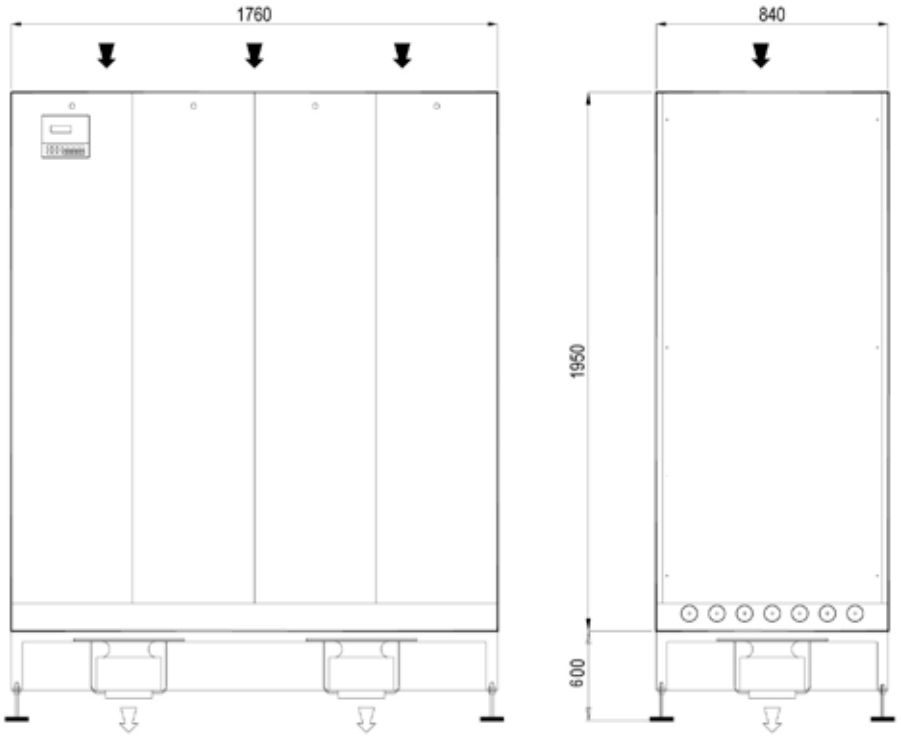


NOTE: Top view is referred to centrifugal fan unit

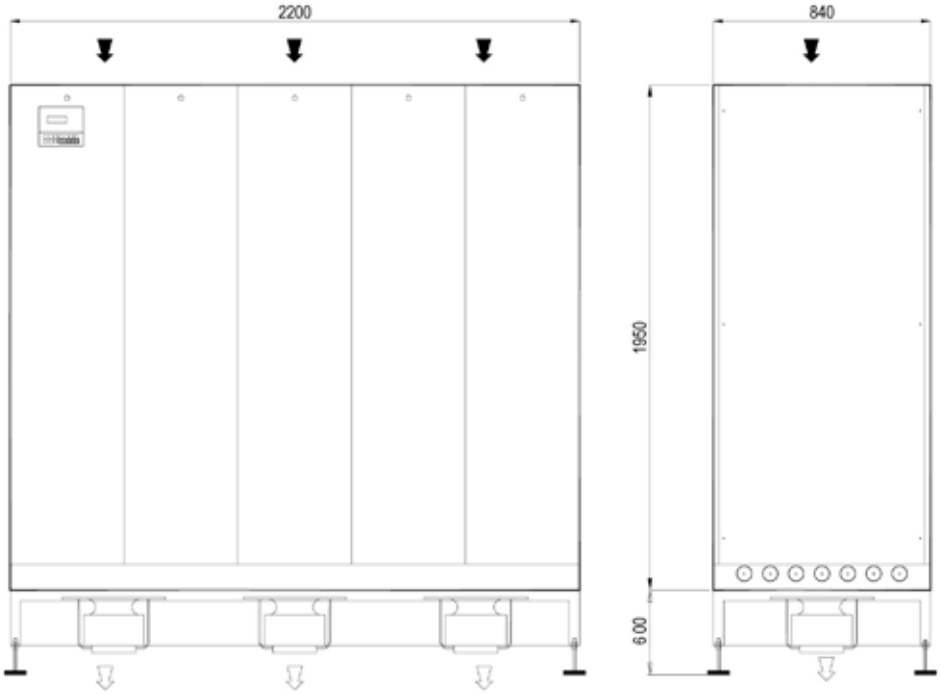
XWK model 058



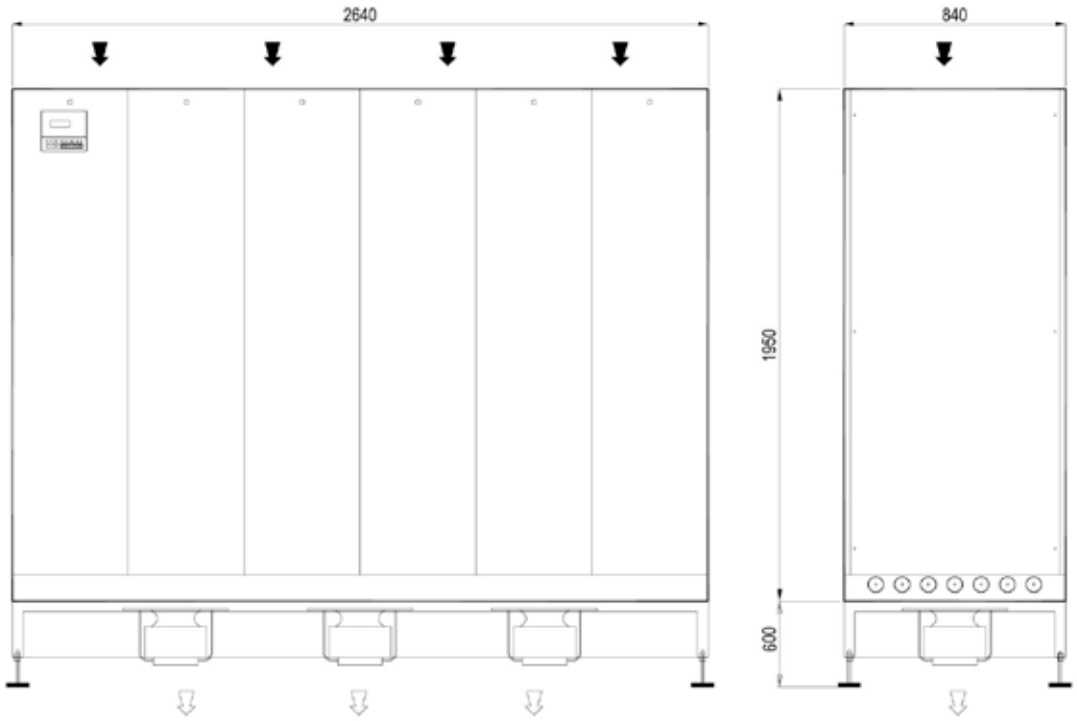
XWK model 071



XWK models 086-096

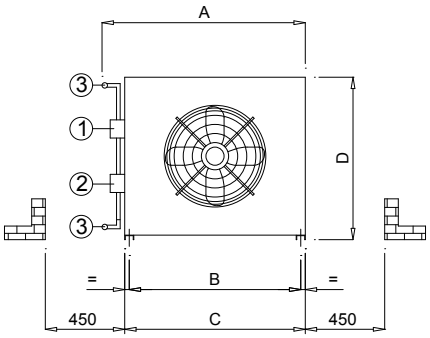


XWK model 0116

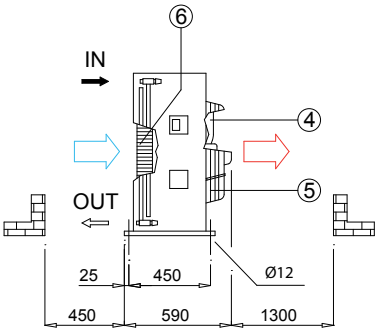


CTK.E
CTK.E/LN
FO

CTK.E 40
CTK.E 50
CTK.E 80
CTK.E 100

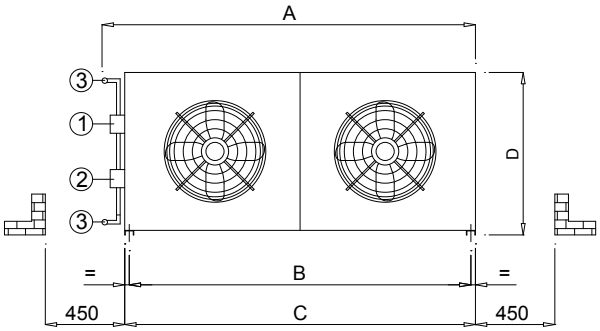


Vista frontale
Front view

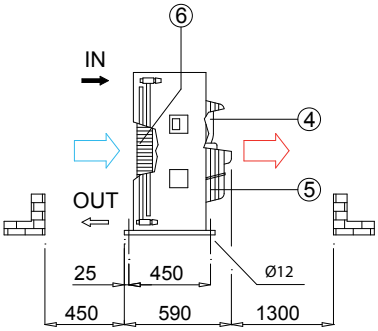


Vista laterale
Side view

CTK.E 120
CTK.E 150-180
CTK.E 220



Vista frontale
Front view



Vista laterale
Side view

Mod.	A	B	C	D	IN →	OUT ←	KG.
40	1000	830	880	695	Ø16	Ø12	40
50	1155	980	1030	895	Ø16	Ø12	50
80	1400	1230	1280	1095	Ø18	Ø16	60
100	1400	1230	1280	1095	Ø22	Ø16	70
120	1850	1670	1720	1095	Ø22	Ø18	100
150-180	1850	1670	1720	1095	Ø28	Ø22	110
220	2405	2230	2280	1095	Ø28	Ø22	165

① Cassetta di derivazione
Electric box

② Controllo condensazione modulante
Modulating pressure control

③ Connessioni refrigerante
Refrigerant connections

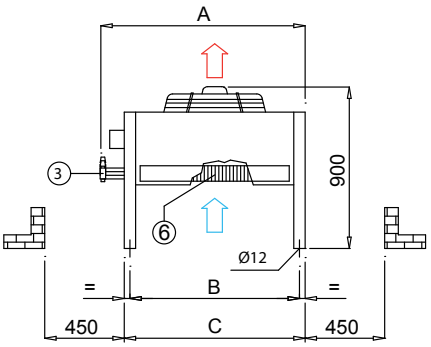
④ Ventilatore
Fan

⑤ Rete di protezione
Protection grill

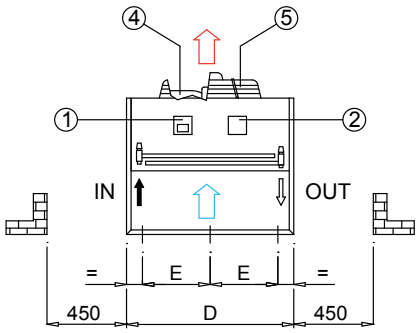
⑥ Batteria condensante
Condensing coil

⇨ Flusso aria orizzontale (FO)
Horizontal air flow (FO)

CTK.E 40
CTK.E 50
CTK.E 80
CTK.E 100

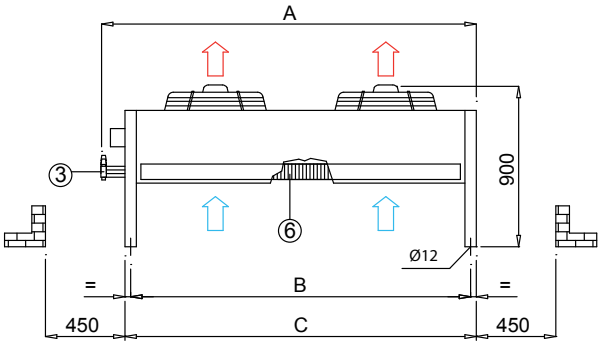


Vista frontale
Front view

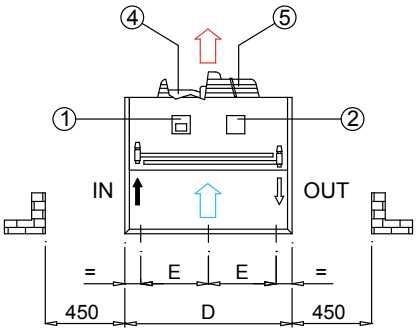


Vista laterale
Side view

CTK.E 120
CTK.E 150-180
CTK.E 220



Vista frontale
Front view



Vista laterale
Side view

Mod.	A	B	C	D	IN →	OUT ←	KG.
40	1010	830	890	730	Ø16	Ø12	40
50	1165	980	1040	930	Ø16	Ø12	50
80	1410	1230	1290	1130	Ø18	Ø16	60
100	1410	1230	1290	1130	Ø22	Ø16	70
120	1860	1670	1730	1130	Ø22	Ø18	100
150-180	1860	1670	1730	1130	Ø28	Ø22	110
220	2415	2230	2290	1130	Ø28	Ø22	165

① Cassetta di derivazione
Electric box

② Controllo condensazione modulante
Modulating pressure control

③ Connessioni refrigerante
Refrigerant connections

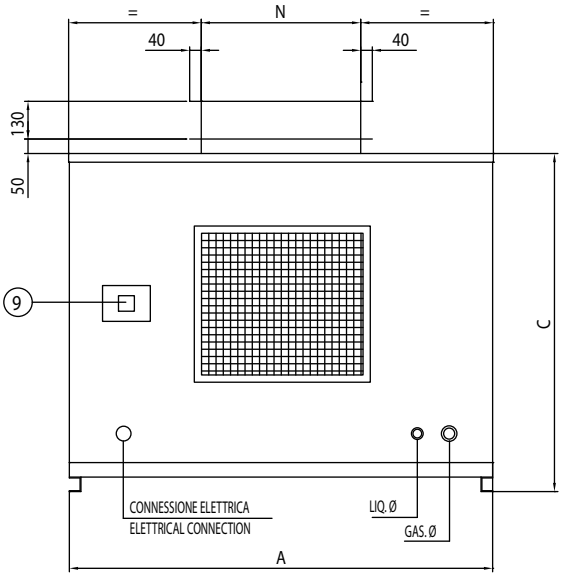
④ Ventilatore
Fan

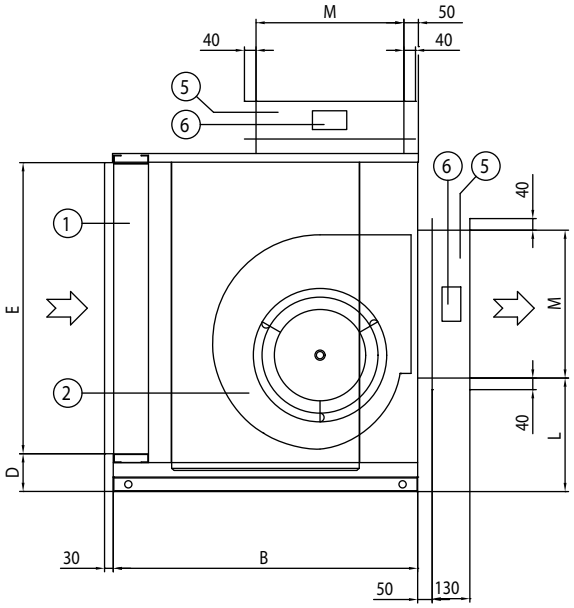
⑤ Rete di protezione
Protection grill

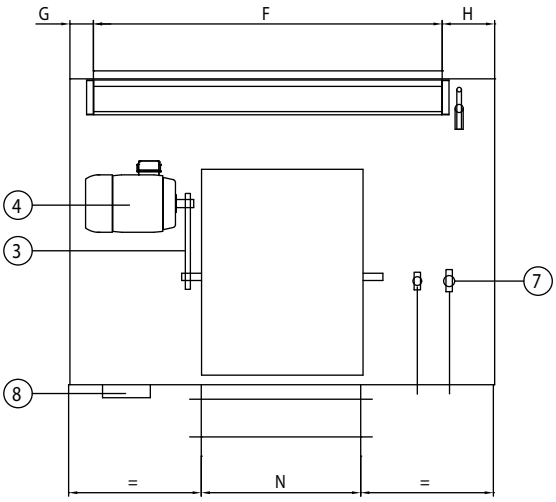
⑥ Batteria condensante
Condensing coil

⇨ Flusso aria orizzontale (FO)
Horizontal air flow (FO)

CTK.C
CTK.C/LN





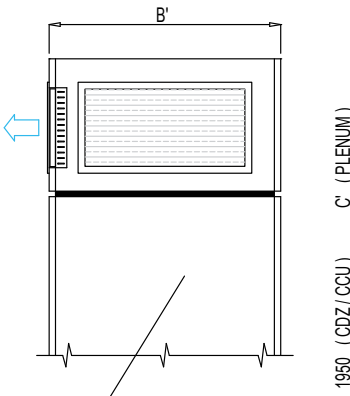


FLUSSO ARIA STANDARD (a richiesta mandata verticale)
STANDARD AIR FLOW (vertical ai flow optional)

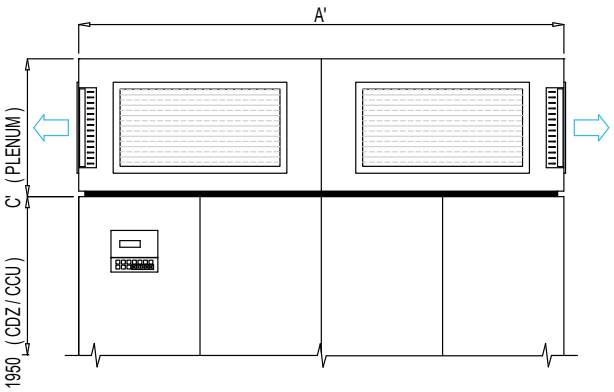
1. BATTERIA CONDENSANTE
   CONDENSING COIL
2. VENTILATORE CENTRIFUGO
   CENTRIFUGAL FAN
3. TRASMISSIONE
   "V" BELT DRIVE
4. MOTORE ELETTRICO
   ELECTRIC MOTOR
5. SERRANDA (OPZIONALE)
   DAMPER (OPTIONAL)
6. CONTROLLO CONDENSAZIONE (OPZIONALE)
   CONDENSING PRESSUR CONTROL (OPTIONAL)
7. RUBINETTI REFRIGERANTE
   REFRIGERANTS TAPS
8. CASSETTA ELETTRICA
   ELETTRIC BOX
9. SEZIONATORE (OPZIONALE)
   MAIN SWITCH (OPTIONAL)

Mod.	A	B	C	D	E	F	G	H	L	M	N	LIQ. Ø	GAS Ø	PESO Kg WEIGHT Kg
40	1040	730	770	123	604	804	58	178	245	410	400	Ø12	Ø14	82
50	1190	830	970	128	804	954	58	178	295	410	400	Ø14	Ø16	122
80 100 120	1460	1050	1170	128	1004	1204	58	198	300 300 405	510	550	Ø16 Ø16 Ø18	Ø18 Ø18 Ø22	171 178 196
150 180 220	1900	1050	1170	128	1004	1644	58	198	405	510	550	Ø18 Ø22 Ø22	Ø22 Ø28 Ø28	246 248 270

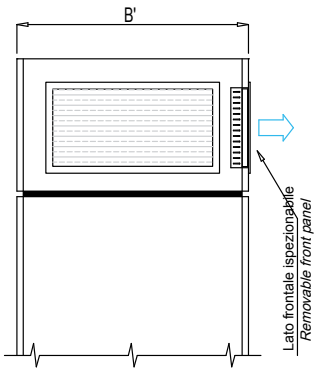
Vista laterale destra
Side view (right)

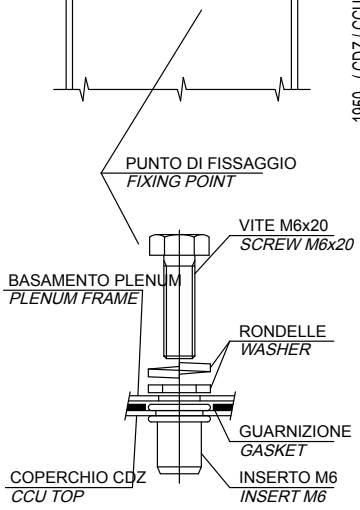


Vista frontale
Front view

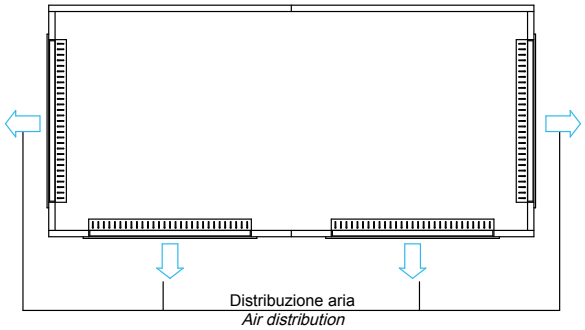


Vista laterale sinistra
Side view (left)





Vista in pianta
Top view



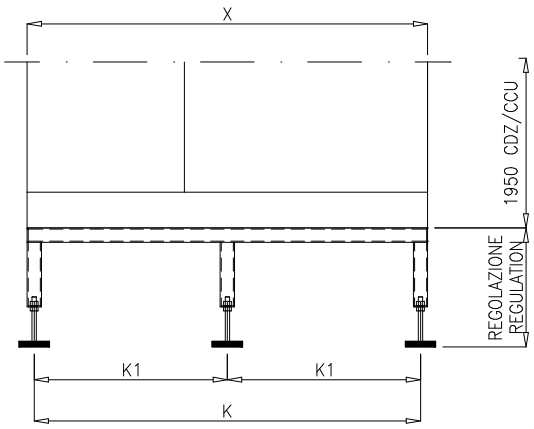
DIMENSIONI / DIMENSION			
MOBILE / SIZE	*A' (mm.)*	*B' (mm.)*	*C' (mm.)*
Sr	485	485	400**
As	700	485	500**
A	880	485	
Bs	880	700	
B	1140	700	
C	1320	840	
D	1760	840	
E	2200	840	
F	2640	840	

** Altezza standard
*** STANDARD HEIGHT*

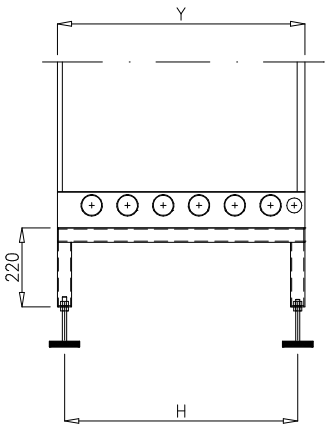
ATTENZIONE:
PLENUM FORNITO SEPARATO DAL CDZ.
VITE,RONDELLE,GUARNIZIONE,INSERTO MONTATI SUL TETTO CDZ.
ATTENTION:
PLENUM SUPPLIED LOOSE.
SCREW,WASHERS,GASKET AND INSERT ASSEMBLED ON THE TOP OF CCU.

Floor stand

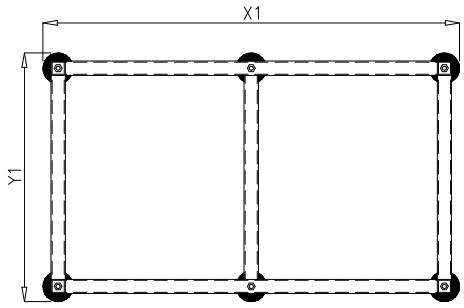
Vista frontale
Front view

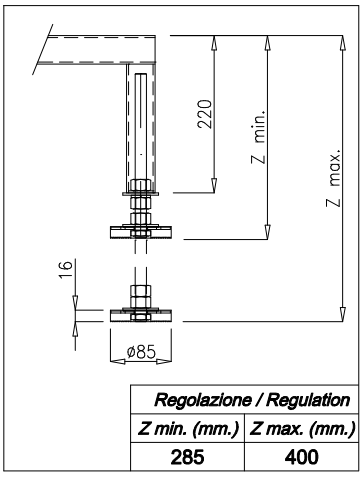


Vista laterale sinistra
Side view (left)



Vista in pianta
Top view





Regolazione / Regulation	
Z min. (mm.)	*Z max. (mm.)*
285	400

Dimensioni / Dimension								
Mobile / Size	*X (mm.)*	*Y (mm.)*	*X1 (mm.)*	*Y1 (mm.)*	*K (mm.)*	*K1 (mm.)*	*H (mm.)*	*kG.*
As	700	485	745	530	660	/	445	17
A	880	485	925	530	840	/	445	18
Bs	880	700	925	745	840	/	660	20
B	1140	700	1185	745	1100	/	660	22
C	1320	840	1365	885	1280	/	800	24
D	1760	840	1805	885	1720	/	800	27
E	2200	840	2245	885	/	1080	800	35
F	2640	840	2685	885	/	1300	800	38

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