Comfort Cooling

Process Cooling

Precision Air
Conditioning

Refrigeration

EUROKLIMAT®

Cooling System Solutions

PRECISION AIR CONDITIONING 2016

EUROKLIMAT®

Cooling System Solutions

WE BELIEVE IN ACTION

Euroklimat is a byword for innovation in mind & methods and therefore the products. Innovation, which in turn mean positive change, attention paid to needs, sensitivity towards the market and its expectations, required imagination, creativity and insight.

In other words a flexible approach to problems and possible solutions, which should never be banal or off the cuff, but the result of study, attention to details as well as total and not just perceived quality.
Because quality is a word that gains strength as time passes, that is confirmed over the years; it is our idea of work, it is our style as well as the essence of Made in Italy.

Over the last fifty years Euroklimat has conceived, manufactured and distributed air-conditioning/heating appliances paying particular attention to the quality and constant innovation of its products: features that have distinguished this firm made up of values, commitment and persons.

Euroklimat has always enjoyed a steady growth in its business thanks to the introduction of many innovative products and expansion on the home and international markets. It is a go-ahead concern that boasts fifty years of experience in the air-conditioning, heating, ventilation, filtering and cogeneration sector.

Growth has been constant ever since 1963 the date of foundation, helped by early entry into the European markets, continual qualified labour recruitment and the creation of air-conditioning products offering high technological and constructional quality.

In a highly competitive and demanding market that is ever more concerned with respect for the environment and energy saving, Euroklimat has implemented marketing policies that draw attention to improvements on its own products and to the design of new ones, while optimizing the methods of creation and development.

Managing Director
MICHELE BEDIN

WE BELIEVE IN DOING THINGS RIGHT

Comfort Cooling

Water chillers and heat pumps specially designed for "comfort" applications. Configurations, arrangements, accessories and possibilities that make this line of products to solve any requirement of utilization with a focus on energy saving and low noise emissions.

Process Cooling

Machines for cooling or heating fluid designed with the expertise and experience of those who have lived for years in close contact with the production cycles and operational issues. The workings of "process" industry, in various forms application, find the answer in this section and the optimal solution to any problem.

Precision Air Conditioning

Equipment suited to the "control" technology environments and/or civil liability. Purity of the air and thermo-hygrometric conditions inside, the different needs are treated in a specific way and overcome with flexible solutions that are easy to apply. All of this, with the use of ecological components.

Low refrigeration and Storage

Chillers and, more in general, refrigerant units suitable for all the activities where it is important to keep controlled temperature such as storage areas or refrigerated foods in supermarkets. These machines grants reliability and safety. You can also reach negative temperatures up to -8/-10 °C.

WE BELIEVE IN A BETTER WORLD

When Euroklimat was established in 1963, our mission was simple: to create the best conditioners in the world. Today we added more to our mission: maximizing efficiency, energy savings and respect for the environment. High-tech, cutting edge to make the most of natural refrigerants and systems "free-cooling". Just on high-tech products, in which Euroklimat has invested a lot, here's an overview of the infinite possibilities. First, solutions, versions, equipment specifically designed for the needs of particular use until you get a real set of fixtures born "tailored" by the demands of the market.

The Propane, in addition to being a totally natural refrigerant and then complying with new regulations, as well as having operational efficiencies very interesting and therefore in line with the new provisions relating to energy savings, its operating limits are very large making it versatile and suitable for all refrigerant use in different sectors and of various installation requirements. Since the R290 is used for many years now and there is a file "historic" behavioral well articulated and complete, including handle, treat and maintain appliances using this refrigerant has now become commonplace and not roesent more unknowns or difficulty. The availability on the market, finally, is abundant and available everywhere without having to make special research or be forced to pay substantial amounts of money and not justifiable.

FACTORIES

Factory in Italy

In about fifty years of activity, Euroklimat has changed several production sites to the current configuration located in the industrial area of Siziano (PV), Italy. As always, the main office is Italian, which is also the heart of society. In addition to the actual production of the devices, in fact, the factory in Siziano where all technical design, research and development of new technologies and financial management is taken care of. As befits a modern and flexible organization, Euroklimat encourages the use of external professionals while maintaining its internal supervision and decision-making aspect.

Covering an area of 5,000 square meters. and a workforce of 50 people, Euroklimat develops and manufactures high technology machines that can be used both in the field of industrial process applications and traditional comfort. Chillers, heat pumps, air conditioners and roof top cabinets are totally and independently designed & built, offering the highest international quality standards as well as compliance with the requirements of the regulations. The establishment and operation in general are regulated by the "quality system" recognized by the certification body "DNV".

Factory in China

The general trend of globalization in recent years, of which Euroklimat has always been a part of, encouraged contacts and openings to different markets and needs for both traditions. Comparing the various needs and experiences of specifications has led many manufacturers to share knowledge, logic and systems, fundamentally different but have allowed everyone to make money and to grow with great importance. Euroklimat has made use of this advantageous exchange of information which has resulted in co-operation with a Chinese partner.

40,000 square meters, and approximatley 450 people on the staff, are figures that characterize the reality of all respect and offer a significant image of Euroklimat factory in China. Our factory in China also produces all the packaging equipment, from coolers to the cabinets, which are used for both the domestic market and for export. To take advantage of the collaboration, it is right that each partner has its own vision of production in organization, but in the proven experience Euroklimat has certainly given it a fundamental and well-established growth.

DET NORSKE VERITAS

QUALITY MANAGEMENT SYSTEM CERTIFICATE

EUROKLIMAT S.p.A.
Via Liguria, 8 - 27010 Siziano (PV) - Italy

UNI EN ISO 9001:2000 (ISO 9001:2000)

Progettazione, produzione, vendita ed assistenza di macchine per il condizionamento e la refrigerazione di ambienti civili ed industriali

Design, manufacturing, sale and servicing of conditioning and refrigeration equipments for civil and industrial applications

SINCERT

DNV - MODULO UNO

CERTIFICATO DI APPROVAZIONE
APPROVAL CERTIFICATE

Certificato N°/Certificate N°: CE PED.12.0001.06/2323

Condizionatori d'aria, refrigeratori d'acqua e sistemi di condizionamento
Air conditioning and water chillers refrigeration systems

Euroklimat S.p.A.
Via Liguria n° 8 - 27010 Siziano (PV) - Italia

CE 0496

DNV - MODULO UNO

Allegato al Certificato di Approvazione N°: CE PED.12.0001.06/2323

DNV - MODULO UNO

Allegato al Certificato di Approvazione N°: CE PED.12.0001.06/2323

"...In these fifty years Euroklimat has never stopped to certify its products because the quality of the job is represented by delivering the clients a reliable and stable products."

WE BELIEVE IN THE WORK OF OUR CUSTOMERS

IBM - Austria

UBI Banca - Italy

Business Center Preo8 - Russian Federation

Banca Popolare di Milano - Italy

Finnish Army - Finland

Deutsche Bank - Spain

Hoepli - Italy

Bahnhof AB - Sweden

Telelombardia - Italy

Acciai Speciali terni - England

Mediobanca - Italy

Ministry of Defence - Russian Federation

Unicredit - Italy

Danish Technological Institute - Denmark

Alapaevsk Road-building M F - Russian Federation

Ospedale Maggiore di Trieste - Italy

DHL - Data Center - Italy

Banca Intesa - Italy

APMT - Nigeria

Banca Mediolanum - Italy

Saturn - Russian Federation

Plaza Media - Germany

Recordati Farmaceutici - Italy

Cementa AB - Sweden

WE BELIEVE IN THE WORK OF OUR CUSTOMERS

Petrolchemical - Kazakistan

ATM Azienda Trasporti Milano - Italy

La Stampa - Italy

San Paolo IMI - Italy

ILVA - Italy

Kumz - Russian Federation

Parlament - Austria

E.ON Kernkraft Gmbh - Germany

13 TV - Spain

B Token - Belgium

Farmabios - Italy

Orebro Flygplats Airport - Sweden

Mercury city - Russian Federation

Comando di Polizia di Stato - Italy

Supermercati “Il Gigante” - Italy

Ministry of Youth and Sports - Iraq

COIN - Italy

Banca Nazionale del Lavoro - Italy

ENI Divisione Tecnomare - Italy

Aspesi - Italy

BMW - Germany

ADB - Belgium

PT Tirta - Indonesia

Beer Thai - Thailand

ORGANIZATION IS AN IMPORTANT FEATURE

The internal and external organization of Euroklimat has been painstakingly studying and mastering every detail at all levels of the company to give its customers a highly professional and qualified services. Since 1963, the year of its foundation, Euroklimat researches new products using the latest technologies and always puts attention to the demands or needs of the market in order to satisfy users.
The technical department has extensive experience in the field of comfort, industry and technology and is able to optimize products targeting the real needs of the plant.

All the constituent parts of the devices are designed internally by ensuring the necessary expertise both from the point of view of the refrigeration/mechanical and electrical/electronics. At the same time respecting the laws enforced in the various countries of destination.
A sophisticated and precise quality procedure checks the exact correspondence of the part design with the components of purchase and with the realization of production, which is divided into different operational lines in order to ensure implementation times content.

The internal warehouse stock, feeds production rapidly and offers a good availability for the supply of spare parts at the same time.
It is important to mention here, that the best customer care support is provided directly by the main organization. From production to delivery and after sales services, all the documentation of order and the logistics of delivery of the equipment on site, are handled by vastly experienced professionals which are capable of providing essential help for the completion of the

EUROKLIMAT®
Cooling System Solutions

The information gathered from the international market is transmitted back to the Head office, which is the base of a consistent growth and improvement of the product as well as the organization.

To meet the international Standards that Euroklimat has built over the years, the organization's external trade is of great importance. Our nationwide agents and distributors/subsidiaries abroad, ensures a significant presence of Euroklimat globaly. And the information gathered from the international market is transmitted back to the Head office, which is the base of a consistent growth and improvement of the product as well as the organization.

TOOLS AND SUPPORT ARE OUR STRENGTH

Euroklimat consideres taking advantage of information & technology potential by creating a website, which provides a very detailed and articulate product information to the customers. This "webservice", also provides an interactive platform which is a direct link between users and the company. Within the various sections, it contains general information about the company, it's history, the correct contacts, pages dedicated to Euroklimat certifications, a few important installations.
But the most interesting and detailed areas concern the access and the availability to download documents. Last but not least, the area that has given his name to the whole site provides access to detailed documentation of every single machine: dimensional drawing, schematic diagram, spare part list, confirmation order, instruction manuals. Arranged and designed for the specific skills, "webservice" allows the customer or the service technician to access their files and recover real time informations which are then updated and available even when present on the installation site. 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.

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.

Euroklimat has invested heavily in electronics because we always wanted to provide a serious service to our customers and after several years of discussions, research and improvements we may present with pride "Euroklimat Software Selection".
In the vast range of products, this software is able to search and offers the equipment necessary to meet the demand. The options are many and the flexibility is extreme. From silenced machine type to use the heat recovery, from easier calculation with nominal conditions to more complicated units with the use of specific values, just a few number of clicks to get immediate answers, analytical results and articulate.
Another great advantage of this software is to be able to directly compare multiple units, without laborious manual assessment, to select the optimal product. At the conclusion of the selection, a large section devoted to print or export documents in a traditional formats, allows the production of clear and very well planned process.

SUMMARY

Precision air conditioners with Plug Fan “EC” for technological applications

BXK - T

As08 1E - F061 2E

DIRECT EXPANSION WITH REMOTE AIR COOLED CONDENSER

- **Configuration**
  O - Upflow
  U - Downflow
- **Type**
  SF - Cooling only
- **Solution**
  T - Technological

Cooling Capacity 7 - 67,7 kW
Dual-cooling capacity 6,6 - 51,4 kW

INVERTER Scroll Available

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.
- **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
- Electronic expansion valve
- Contacts for smoke/fire alarm
- Upgrading electronic control (standard)
- 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 (water conductivity 350...750 µS/cm)
- 3-way modul. valve 0/10V (heating)*
- Step by step 3-way valve (heating)
- Sound absorber plenum

(*) Available only in coupling to the upgrading electronic control

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	7,0	9,1	10,9	11,8	16,1	17,4	20,1	22,6	25,1
Sensible cooling capacity(1)	kW	7,0	8,1	10,9	11,4	15,2	17,4	19,7	20,7	21,7
R Factor	-	1,00	0,89	1,00	0,97	0,94	1,00	0,98	0,92	0,86
Dual cooling - Tot. cap./Sens. cap.(3)	kW	-	-	-	-	-	17,9 / 15,4	17,9 / 15,4	17,9 / 15,4	17,9 / 15,4
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	2,6	3,4	3,4	3,5	4,5	4,6	5,5	6,5	7,2
Compressors total current(1)	A	5,2	6,2	6,2	6,4	7,7	8,0	9,5	11,3	12,8
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	0,4	0,4	0,8	0,8	0,9	1,2	1,2	1,2	1,2
Fans total current	A	0,8	0,8	1,3	1,3	1,5	1,9	1,9	1,9	1,9
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
ELECTRIC COIL										
Stages of operation	n°	1	1	2	2	2	2	2	2	2
Power	kW	3,0	3,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0
Absorbed current	A	4,4	4,4	8,7	8,7	8,7	8,7	8,7	8,7	8,7
HUMIDIFIER										
Capacity	Kg/h	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3
Power	kW	2,3	2,3	2,3	2,3	2,3	2,3	2,3	2,3	2,3
Absorbed current	A	3,2	3,2	3,2	3,2	3,2	3,2	3,2	3,2	3,2
DIMENSIONS AND WEIGHT										
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	29,0	32,0	38,8	44,0	48,6	51,7	58,5	67,7
Sensible cooling capacity(1)	kW	27,4	28,7	37,4	39,5	41,4	49,9	52,6	60,5
R Factor	-	0,94	0,90	0,96	0,90	0,85	0,97	0,90	0,89
Free cooling - Tot. cap./Sens. cap.(3)	kW	24,1 / 21,2	24,1 / 21,2	31,3 / 27,6	31,3 / 27,6	31,3 / 27,6	44,9 / 38,7	44,9 / 38,7	51,4 / 44,3
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	8,3	9,6	11,1	13,0	13,0	14,3	16,6	19,2
Compressors total current(1)	A	14,5	16,5	19,0	22,6	22,6	25,6	29,0	33,0
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	3	3	3
Fans power input	kW	1,8	1,8	2,2	2,2	2,2	3,3	3,3	3,6
Fans total current	A	3,0	3,0	3,4	3,4	3,4	5,1	5,1	5,4
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
ELECTRIC COIL									
Stages of operation	n°	2	2	2	2	2	2	2	2
Power	kW	9,0	9,0	12,0	12,0	12,0	18,0	18,0	18,0
Absorbed current	A	13,0	13,0	17,4	17,4	17,4	26,0	26,0	26,0
HUMIDIFIER									
Capacity	Kg/h	5 - 8	5 - 8	5 - 8	5 - 8	5 - 8	5 - 8	5 - 8	10 - 15
Power	kW	6,2	6,2	6,2	6,2	6,2	6,2	6,2	11,3
Absorbed current	A	8,7	8,7	8,7	8,7	8,7	8,7	8,7	16,2
DIMENSIONS AND WEIGHT									
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

3 Air inlet 24°C / 50% U.r. - Water temperature 12/7°C (13/7°C from size "D") - Ethylenic Glycol 30% (for not combined free cooling)

THE DECLARED COOLING CAPACITY ARE NOT TAKING INTO ACCOUNT THE FAN MOTOR POWER INPUT. THIS ONE MUST BE DEDUCTED TO GET THE NET COOLING CAPACITY.

AXK - T

As07 1E - F069 2E

DIRECT EXPANSION WITH WATER COOLED CONDENSER

- **Configuration**
  O - Upflow
  U - Downflow
- **Type**
  SF - Cooling only
- **Solution**
  T - Technological

Cooling Capacity 7,9 - 74,5 kW
Free-cooling capacity 6,6 - 51,4 kW

INVERTER Scroll Available

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.
- **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
- Electronic expansion valve
- Contacts for smoke/fire alarm
- Upgrading electronic control (standard)
- 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 (water conductivity 350...750 µS/cm)
- 3-way modul. valve 0/10V (heating)*
- Condensing pressure valve
- Step by step 3-way valve (heating)
- Sound absorber plenum

(*) Available only in coupling to the upgrading electronic control

Technical data

Scroll Compressor | PLUG FAN | Phe Condenser | Refrigerant R410A

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	7,9	10,4	12,0	12,9	16,4	18,7	22,7	25,5	28,2
Sensible cooling capacity(1)	kW	7,6	8,6	11,7	12,0	13,5	16,2	20,8	21,9	27,0
R Factor	-	0,96	0,83	0,98	0,93	0,82	0,87	0,92	0,86	0,96
Free cooling - Tot. cap./Sens. cap.(3)	kW	-	-	-	-	-	-	17,9 / 15,4	17,9 / 15,4	24,1 / 21,2
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	2,4	2,7	2,7	2,8	3,6	3,7	4,4	5,1	5,7
Compressors total current(1)	A	5,0	5,4	5,4	5,5	6,8	6,8	7,9	9,4	10,6
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	0,4	0,4	0,8	0,8	0,9	1,2	1,2	1,2	2,4
Fans total current	A	0,8	0,8	1,3	1,3	1,5	1,9	1,9	1,9	3,8
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
ELECTRIC COIL										
Stages of operation	n°	1	1	2	2	2	2	2	2	2
Power	kW	3,0	3,0	6,0	6,0	6,0	6,0	6,0	6,0	9,0
Absorbed current	A	4,4	4,4	8,7	8,7	8,7	8,7	8,7	8,7	13,0
HUMIDIFIER										
Capacity	Kg/h	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	5 - 8
Power	kW	2,3	2,3	2,3	2,3	2,3	2,3	2,3	2,3	6,2
Absorbed current	A	3,2	3,2	3,2	3,2	3,2	3,2	3,2	3,2	8,7
DIMENSIONS AND WEIGHT										
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	31,7	35,6	44,2	49,4	51,9	57,5	64,4	74,5
Sensible cooling capacity(1)	kW	28,5	30,3	39,6	41,7	50,0	52,2	55,0	63,2
R Factor	-	0,90	0,85	0,90	0,84	0,96	0,91	0,85	0,85
Free cooling - Tot. cap./Sens. cap.(3)	kW	24,1 / 21,2	24,1 / 21,2	31,3 / 27,6	31,3 / 27,6	44,9 / 38,7	44,9 / 38,7	44,9 / 38,7	51,4 / 44,3
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	6,6	7,7	8,8	10,3	10,3	11,4	13,3	15,3
Compressors total current(1)	A	12,0	13,7	15,8	18,8	18,8	21,2	24,0	27,4
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	3	3	3	3
Fans power input	kW	1,8	1,8	2,2	2,2	3,3	3,3	3,3	3,6
Fans total current	A	3,0	3,0	3,4	3,4	5,1	5,1	5,1	5,4
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"
ELECTRIC COIL									
Stages of operation	n°	2	2	2	2	2	2	2	2
Power	kW	9,0	9,0	12,0	12,0	18,0	18,0	18,0	18,0
Absorbed current	A	13,0	13,0	17,4	17,4	26,0	26,0	26,0	26,0
HUMIDIFIER									
Capacity	Kg/h	5 - 8	5 - 8	5 - 8	5 - 8	5 - 8	5 - 8	5 - 8	10 - 15
Power	kW	6,2	6,2	6,2	6,2	6,2	6,2	6,2	11,3
Absorbed current	A	8,7	8,7	8,7	8,7	8,7	8,7	8,7	16,2
DIMENSIONS AND WEIGHT									
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
3 Air inlet 24°C / 50% U.r. - Water temperature 12/7°C (13/7°C from size "D") - Ethylenic Glycol 30%
THE DECLARED COOLING CAPACITY ARE NOT TAKING INTO ACCOUNT THE FAN MOTOR POWER INPUT. THIS ONE MUST BE DEDUCTED TO GET THE NET COOLING CAPACITY.

CWK - T

As09 1W - F090 1W

CHILLED WATER UNITS

- **Configuration**
  O - Upflow
  U - Downflow
- **Type**
  SF - Cooling only
- **Solution**
  T - Technological

Cooling Capacity 9 - 89 kW
Double Power capacity 6,6 - 51,4 kW

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.
- **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 (standard)
- 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 (water conductivity 350...750 µS/cm)
- 3-way modul. valve 0/10V (heating)*
- Condensing pressure valve
- Step by step 3-way valve (heating)
- Sound absorber plenum

(*) Available only in coupling to the upgrading electronic control

Technical data

CWK Tecno EC		As09 1W	As12 1W	A018 1W	Bs24 1W	B032 1W	C044 1W	D055 1W	E070 1W	E076 1W	F090 1W
Total cooling capacity(1)	kW	9	12	18	23	32	44	55	71	76	89
Sensible cooling capacity(1)	kW	9	12	18	23	32	44	55	71	76	89
R Factor	-	1	1	1	1	1	1	1	1	1	1
Double Power - Tot. cap./Sens. cap.(3)	kW	6,6 / 5,9	8,5 / 7,4	9,8 / 8,6	13,4 / 11,5	17,9 / 15,4	24,1 / 21,2	31,3 / 27,6	44,9 /38,7	49,0 / 42,4	51,4 / 44,3
Power supply	-	400V/3/50Hz +T									
Air flow	m3/h	2300	3200	5000	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	30 - 300
Fans quantity	n°	1	1	1	1	2	2	3	3	3	3
Fans power input	kW	0,4	0,8	1,2	1,3	2,4	2,6	3,3	3,6	4,1	5,4
Fans total current	A	0,8	1,3	1,9	2,0	3,8	4,0	5,1	5,4	6,3	8,4
Front sound pressure OVER(2)	dB(A)	52	52	53	53	56	60	66	67	69	70
Front sound pressure UNDER(2)	dB(A)	49	49	50	50	53	57	63	64	66	67
Cooling coil pressure drop	kPa	25	30	34	35	46	29	33	46	53	80
Water connections diameter	"	3/4"	3/4"	3/4"	1"	1"	1" 1/4	1" 1/2	1" 1/2	2"	2"
ELECTRIC COIL											
Stages of operation	n°	1	1	2	2	2	2	2	2	2	2
Power	kW	3,0	3,0	6,0	6,0	6,0	9,0	12,0	18,0	18,0	18,0
Absorbed current	A	4,4	4,4	8,7	8,7	8,7	13,0	17,4	26,0	26,0	26,0
HUMIDIFIER											
Capacity	Kg/h	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	5 - 8	5 - 8	5 - 8	5 - 8	10 - 15
Power	kW	2,3	2,3	2,3	2,3	2,3	6,2	6,2	6,2	6,2	11,3
Absorbed current	A	3,2	3,2	3,2	3,2	3,2	8,7	8,7	8,7	8,7	16,2
DIMENSIONS AND WEIGHT											
Lenght	mm	700	700	880	880	1140	1320	1760	2200	2200	2640
Depth	mm	485	485	485	700	700	840	840	840	840	840
Height	mm	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950
Operating weight	kg	140	150	175	235	275	300	440	550	570	750

Note
1 Air inlet 24,0°C / 50% U.r. - IN-OUT chilled water temperature = 10°C / 15°C
2 Data measured at 1m in open field conditions
3 Air inlet 24°C / 50% U.r. - Water temperature 12/7°C (13/7°C from size "D") - Ethylenic Glycol 30% (for not combined free cooling)
THE DECLARED COOLING CAPACITY ARE NOT TAKING INTO ACCOUNT THE FAN MOTOR POWER INPUT. THIS ONE MUST BE DEDUCTED TO GET THE NET COOLING CAPACITY.

XWK - T

C058 1W - F0116 1W

CHILLED WATER UNITS

- **Configuration**
  U - Downflow
- **Type**
  SF - Cooling only
- **Solution**
  T - Technological

Cooling Capacity 58 - 116 kW
Double Power capacity 35 - 69 kW

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.
  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 com-

Accessories

- Water heating coil
- Electric heating coil
- Contacts for smoke/fire alarm
- Upgrading electronic control (standard)
- 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 (H 600mm.)
- Remote control panel*
- Modulating humidifier (water conductivity 350...750 µS/cm)
- 3-way modul. valve 0/10V (heating)*
- Condensing pressure valve
- Step by step 3-way valve (heating)
- Sound absorber plenum

(*) Available only in coupling to the upgrading electronic control

Technical data

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
Double Power - Tot. cap./Sens. cap.(3)	kW	35 / 31	48 / 41	53 / 46	58 / 49	69 / 60
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°	1	2	2	2	2
Fans power input	kW	6,1	5,6	6,0	6,0	12,2
Fans total current	A	9,9	8,6	9,2	9,2	19,8
Front sound pressure(2)	dB(A)	64	64	66	67	66
Cooling coil pressure drop	kPa	55	62	78	81	95
Water connections diameter	"	1" 1/4	1" 1/2	2"	2"	2"
ELECTRIC COIL						
Stages of operation	n°	2	2	2	2	2
Power	kW	9,0	12,0	18,0	18,0	18,0
Absorbed current	A	13,0	17,4	26,0	26,0	26,0
HUMIDIFIER						
Capacity	Kg/h	5 - 8	5 - 8	5 - 8	5 - 8	10 - 15
Power	kW	6,2	6,2	6,2	6,2	11,3
Absorbed current	A	8,7	8,7	8,7	8,7	16,2
DIMENSIONS AND WEIGHT						
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
DIMENSIONS AND WEIGHT fan frame						
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

Note
1 Air inlet 24,0°C / 50% U.r. - IN-OUT chilled water temperature = 10°C / 15°C
2 Data measured at 1m in open field conditions
3 Air inlet 24°C / 50% U.r. - Water temperature 13/7°C - Ethylenic Glycol 30% (for not combined free cooling)
THE DECLARED COOLING CAPACITY ARE NOT TAKING INTO ACCOUNT THE FAN MOTOR POWER INPUT. THIS ONE MUST BE DEDUCTED TO GET THE NET COOLING CAPACITY.

OXYRED

Bx30 1W - E096 1W

SPECIAL CHILLED WATER UNITS

- **Configuration**
  U - Downflow
- **Type**
  SP - Special
- **Solution**
  T - Technological

Cooling Capacity 11,2 - 89 kW

Features

- **Housing**
  Base and panelling made of galvanised steel painted with epoxy powder. The aestethic panelling is internally lined to reduce the noise level. The structure is completely watertight.
- **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.
- **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.
- **Special Unit**
  These units are suitable for operating in a nitrogen atmosphere to prevent the formation or propagation of fire.

Accessories

- Dirty filter alarm
- Water on the bottom alarm
- Low air flow alarm
- Upgrading electronic control (standard)
- 3-way modulating valve 0/10 V.
- Electric heating coil
- Modulating humidifier (water conductivity 350...750 µS/cm)
- Air suction plenum
- Remote control panel
- Clock card
- Communication serial card

OXYRED		Bx30 1W	C058 1W	E096 1W
Total cooling capacity(1)	kW	11,2	29	89
Sensible cooling capacity(1)	kW	11,2	29	89
R Factor	-	1	1	1
Power supply	-		400V/3/50Hz +T	
Air flow	m3/h	4000	9000	26000
External static pressure	Pa	30 - 200	30 - 200	30 - 200
Fans quantity	n°	1	2	3
Fans power input	kW	0,8	1,64	8,4
Fans total current	A	1,5	3,0	13,4
Front sound pressure(2)	dB(A)	47	53	66
Cooling coil pressure drop	kPa	38	51	86
Water connections diameter	"	3/4"	1"	2"
ELECTRIC HEATER				
Stages of operation	n°	2	2	2
Power	kW	6,0	9,0	18,0
Absorbed current	A	8,7	13,0	26,0
HUMIDIFIER				
Capacity	Kg/h	5 - 8	5 - 8	10 - 15
Power	kW	6,2	6,2	11,3
Absorbed current	A	8,7	8,7	16,2
DIMENSIONS AND WEIGHT				
Lenght	mm	880	1320	2200
Depth	mm	840	840	840
Height	mm	1950	1950	1950
Operating weight	kg	280	360	700

Note
1 Air inlet 23,0°C / 45% U.r. - IN-OUT chilled water temperature = 10°C / 16°C
2 Data measured at 1m in open field conditions
THE DECLARED COOLING CAPACITY ARE NOT TAKING INTO ACCOUNT THE FAN MOTOR POWER INPUT. THIS ONE MUST BE DEDUCTED TO GET THE NET COOLING CAPACITY.

Precision air conditioners for technological applications

BXK - T

As08 1E - F061 2E

DIRECT EXPANSION WITH REMOTE AIR COOLED CONDENSER

- **Configuration**
  O - Upflow
  U - Downflow
- **Type**
  SF - Cooling only
- **Solution**
  T - Technological

Cooling Capacity 7 - 67,7 kW
Dual-cooling capacity 6,6 - 51,4 kW

INVERTER Scroll Available

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
- Electronic expansion valve
- Contacts for smoke/fire alarm
- Upgrading electronic control (standard)
- 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 (water conductivity 350...750 µS/cm)
- 3-way modul. valve 0/10V (heating)*
- Step by step 3-way valve (heating)
- Sound absorber plenum

(*) Available only in coupling to the upgrading electronic control

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	7,0	9,1	10,9	11,8	16,1	17,4	20,1	22,6	25,1
Sensible cooling capacity(1)	kW	7,0	8,1	10,9	11,4	15,2	17,4	19,7	20,7	21,7
R Factor	-	1,00	0,89	1,00	0,97	0,94	1,00	0,98	0,92	0,86
Dual cooling - Tot. cap./Sens. cap.(3)	kW	-	-	-	-	-	17,9 / 15,4	17,9 / 15,4	17,9 / 15,4	17,9 / 15,4
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	2,6	3,4	3,4	3,5	4,5	4,6	5,5	6,5	7,2
Compressors total current(1)	A	5,2	6,2	6,2	6,4	7,7	8,0	9,5	11,3	12,8
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
ELECTRIC COIL										
Stages of operation	n°	1	1	2	2	2	2	2	2	2
Power	kW	3,0	3,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0
Absorbed current	A	4,4	4,4	8,7	8,7	8,7	8,7	8,7	8,7	8,7
HUMIDIFIER										
Capacity	Kg/h	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3
Power	kW	2,3	2,3	2,3	2,3	2,3	2,3	2,3	2,3	2,3
Absorbed current	A	3,2	3,2	3,2	3,2	3,2	3,2	3,2	3,2	3,2
DIMENSIONS AND WEIGHT										
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	29,0	32,0	38,8	44,0	48,6	51,7	58,5	67,7
Sensible cooling capacity(1)	kW	27,4	28,7	37,4	39,5	41,4	49,9	52,6	60,5
R Factor	-	0,94	0,90	0,96	0,90	0,85	0,97	0,90	0,89
Free cooling - Tot. cap./Sens. cap.(3)	kW	24,1 / 21,2	24,1 / 21,2	31,3 / 27,6	31,3 / 27,6	31,3 / 27,6	44,9 / 38,7	44,9 / 38,7	51,4 / 44,3
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	8,3	9,6	11,1	13,0	13,0	14,3	16,6	19,2
Compressors total current(1)	A	14,5	16,5	19,0	22,6	22,6	25,6	29,0	33,0
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
ELECTRIC COIL									
Stages of operation	n°	2	2	2	2	2	2	2	2
Power	kW	9,0	9,0	12,0	12,0	12,0	18,0	18,0	18,0
Absorbed current	A	13,0	13,0	17,4	17,4	17,4	26,0	26,0	26,0
HUMIDIFIER									
Capacity	Kg/h	5 - 8	5 - 8	5 - 8	5 - 8	5 - 8	5 - 8	5 - 8	10 - 15
Power	kW	6,2	6,2	6,2	6,2	6,2	6,2	6,2	11,3
Absorbed current	A	8,7	8,7	8,7	8,7	8,7	8,7	8,7	16,2
DIMENSIONS AND WEIGHT									
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
3 Air inlet 24°C / 50% U.r. - Water temperature 12/7°C (13/7°C from size "D") - Ethylenic Glycol 30% (for not combined free cooling)
THE DECLARED COOLING CAPACITY ARE NOT TAKING INTO ACCOUNT THE FAN MOTOR POWER INPUT. THIS ONE MUST BE DEDUCTED TO GET THE NET COOLING CAPACITY.

AXK - T

As07 1E - F069 2E

DIRECT EXPANSION WITH WATER COOLED CONDENSER

- **Configuration**
  O - Upflow
  U - Downflow
- **Type**
  SF - Cooling only
- **Solution**
  T - Technological

Cooling Capacity 7,9 - 74,5 kW
Free-cooling capacity 6,6 - 51,4 kW

INVERTER Scroll Available

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
- Electronic expansion valve
- Contacts for smoke/fire alarm
- Upgrading electronic control (standard)
- 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 (water conductivity 350...750 µS/cm)
- 3-way modul. valve 0/10V (heating)*
- Condensing pressure valve
- Step by step 3-way valve (heating)
- Sound absorber plenum

(*) Available only in coupling to the upgrading electronic control

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	7,9	10,4	12,0	12,9	16,4	18,7	22,7	25,5	28,2
Sensible cooling capacity(1)	kW	7,6	8,6	11,7	12,0	13,5	16,2	20,8	21,9	27,0
R Factor	-	0,96	0,83	0,98	0,93	0,82	0,87	0,92	0,86	0,96
Free cooling - Tot. cap./Sens. cap.(3)	kW	-	-	-	-	-	-	17,9 / 15,4	17,9 / 15,4	24,1 / 21,2
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	2,4	2,7	2,7	2,8	3,6	3,7	4,4	5,1	5,7
Compressors total current(1)	A	5,0	5,4	5,4	5,5	6,8	6,8	7,9	9,4	10,6
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
ELECTRIC COIL										
Stages of operation	n°	1	1	2	2	2	2	2	2	2
Power	kW	3,0	3,0	6,0	6,0	6,0	6,0	6,0	6,0	9,0
Absorbed current	A	4,4	4,4	8,7	8,7	8,7	8,7	8,7	8,7	13,0
HUMIDIFIER										
Capacity	Kg/h	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	5 - 8
Power	kW	2,3	2,3	2,3	2,3	2,3	2,3	2,3	2,3	6,2
Absorbed current	A	3,2	3,2	3,2	3,2	3,2	3,2	3,2	3,2	8,7
DIMENSIONS AND WEIGHT										
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	31,7	35,6	44,2	49,4	51,9	57,5	64,4	74,5
Sensible cooling capacity(1)	kW	28,5	30,3	39,6	41,7	50,0	52,2	55,0	63,2
R Factor	-	0,90	0,85	0,90	0,84	0,96	0,91	0,85	0,85
Free cooling - Tot. cap./Sens. cap.(3)	kW	24,1 / 21,2	24,1 / 21,2	31,3 / 27,6	31,3 / 27,6	44,9 / 38,7	44,9 / 38,7	44,9 / 38,7	51,4 / 44,3
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	6,6	7,7	8,8	10,3	10,3	11,4	13,3	15,3
Compressors total current(1)	A	12,0	13,7	15,8	18,8	18,8	21,2	24,0	27,4
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"
ELECTRIC COIL									
Stages of operation	n°	2	2	2	2	2	2	2	2
Power	kW	9,0	9,0	12,0	12,0	18,0	18,0	18,0	18,0
Absorbed current	A	13,0	13,0	17,4	17,4	26,0	26,0	26,0	26,0
HUMIDIFIER									
Capacity	Kg/h	5 - 8	5 - 8	5 - 8	5 - 8	5 - 8	5 - 8	5 - 8	10 - 15
Power	kW	6,2	6,2	6,2	6,2	6,2	6,2	6,2	11,3
Absorbed current	A	8,7	8,7	8,7	8,7	8,7	8,7	8,7	16,2
DIMENSIONS AND WEIGHT									
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
3 Air inlet 24°C / 50% U.r. - Water temperature 12/7°C (13/7°C from size "D") - Ethylenic Glycol 30%
THE DECLARED COOLING CAPACITY ARE NOT TAKING INTO ACCOUNT THE FAN MOTOR POWER INPUT. THIS ONE MUST BE DEDUCTED TO GET THE NET COOLING CAPACITY.

CWK - T

As09 1W - F090 1W

CHILLED WATER UNITS

- **Configuration**
  O - Upflow
  U - Downflow
- **Type**
  SF - Cooling only
- **Solution**
  T - Technological

Cooling Capacity 9 - 89 kW
Double Power capacity 6,6 - 51,4 kW

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 (standard)
- 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 (water conductivity 350...750 µS/cm)
- 3-way modul. valve 0/10V (heating)*
- Condensing pressure valve
- Step by step 3-way valve (heating)
- Sound absorber plenum

(*) Available only in coupling to the upgrading electronic control

Technical data

CWK Tecno		As09 1W	As12 1W	A018 1W	Bs24 1W	B032 1W	C044 1W	D055 1W	E070 1W	E076 1W	F090 1W
Total cooling capacity(1)	kW	9	12	18	23	32	44	55	71	76	89
Sensible cooling capacity(1)	kW	9	12	18	23	32	44	55	71	76	89
R Factor	-	1	1	1	1	1	1	1	1	1	1
Double Power - Tot. cap./Sens. cap.(3)	kW	6,6 / 5,9	8,5 / 7,4	9,8 / 8,6	13,4 / 11,5	17,9 / 15,4	24,1 / 21,2	31,3 / 27,6	44,9 /38,7	49,0 / 42,4	51,4 / 44,3
Power supply	-	230V/1/50Hz +T			400V/3/50Hz +T						
Air flow	m3/h	2300	3200	5000	6000	8500	12000	15000	18600	21000	24000
External static pressure	Pa	100	100	100	100	170	100	170	100	170	100
Fans quantity	n°	1	1	2	2	2	2	2	3	3	4
Fans power input	kW	0,3	0,5	0,8	0,8	1,2	1,4	2,4	2,3	3,3	2,8
Fans total current	A	3,6	3,6	3,6	3,6	5,0	7,0	11,0	10,8	16,2	14,0
Front sound pressure OVER(2)	dB(A)	51	51	52	52	55	58	64	65	67	68
Front sound pressure UNDER(2)	dB(A)	48	48	49	49	52	55	61	62	64	65
Cooling coil pressure drop	kPa	25	30	34	35	46	29	33	46	53	80
Water connections diameter	"	3/4"	3/4"	3/4"	1"	1"	1" 1/4	1" 1/2	1" 1/2	2"	2"
ELECTRIC COIL											
Stages of operation	n°	1	1	2	2	2	2	2	2	2	2
Power	kW	3,0	3,0	6,0	6,0	6,0	9,0	12,0	18,0	18,0	18,0
Absorbed current	A	4,4	4,4	8,7	8,7	8,7	13,0	17,4	26,0	26,0	26,0
HUMIDIFIER											
Capacity	Kg/h	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	5 - 8	5 - 8	5 - 8	5 - 8	10 - 15
Power	kW	2,3	2,3	2,3	2,3	2,3	6,2	6,2	6,2	6,2	11,3
Absorbed current	A	3,2	3,2	3,2	3,2	3,2	8,7	8,7	8,7	8,7	16,2
DIMENSIONS AND WEIGHT											
Lenght	mm	700	700	880	880	1140	1320	1760	2200	2200	2640
Depth	mm	485	485	485	700	700	840	840	840	840	840
Height	mm	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950
Operating weight	kg	140	150	175	235	275	300	440	550	570	750

Note
1 Air inlet 24,0°C / 50% U.r. - IN-OUT chilled water temperature = 10°C / 15°C
2 Data measured at 1m in open field conditions
3 Air inlet 24°C / 50% U.r. - Water temperature 12/7°C (13/7°C from size "D") - Ethylenic Glycol 30% (for not combined Freie Kühlung)
THE DECLARED COOLING CAPACITY ARE NOT TAKING INTO ACCOUNT THE FAN MOTOR POWER INPUT. THIS ONE MUST BE DEDUCTED TO GET THE NET COOLING CAPACITY.

Air conditioners
for comfort applications

BXK - K

As09 1E - F097 4E

DIRECT EXPANSION WITH REMOTE AIR COOLED CONDENSER

- **Configuration**
  O - Upflow
  U - Downflow
- **Type**
  SF - Cooling only
- **Solution**
  K - Comfort

Cooling Capacity 9,5 - 96,8 kW

INVERTER Scroll Available

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
- Electronic expansion valve
- Contacts for smoke/fire alarm
- Fan remote condenser contactors and protections
- Upgrading electronic control (standard)
- 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 (water conductivity 350...750 µS/cm)
- 3-way modul. valve 0/10V (heating)*
- Step by step 3-way valve (heating)
- Sound absorber plenum

(*) Available only in coupling to the upgrading electronic control

Technical data

Scroll Compressor | Centrifugal Fan | Remote Condenser | Refrigerant R410A

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	9,0	13,6	14,4	18,3	23,5	24,8	30,7	33,0
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
ELECTRIC COIL										
Stages of operation	n°	1	1	2	2	2	2	2	2	2
Power	kW	3,0	3,0	6,0	6,0	6,0	6,0	6,0	9,0	9,0
Absorbed current	A	4,4	4,4	8,7	8,7	8,7	8,7	8,7	13,0	13,0
HUMIDIFIER										
Capacity	Kg/h	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	5 - 8	5 - 8	5 - 8	5 - 8
Power	kW	2,3	2,3	2,3	2,3	2,3	6,2	6,2	6,2	6,2
Absorbed current	A	3,2	3,2	3,2	3,2	3,2	8,7	8,7	8,7	8,7
DIMENSIONS AND WEIGHT										
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	64,0	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
ELECTRIC COIL							
Stages of operation	n°	2	2	2	2	2	2
Power	kW	12,0	12,0	18,0	18,0	18,0	18,0
Absorbed current	A	17,4	17,4	26,0	26,0	26,0	26,0
HUMIDIFIER							
Capacity	Kg/h	5 - 8	5 - 8	10 - 15	10 - 15	10 - 15	10 - 15
Power	kW	6,2	6,2	11,3	11,3	11,3	11,3
Absorbed current	A	8,7	8,7	16,2	16,2	16,2	16,2
DIMENSIONS AND WEIGHT							
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

THE DECLARED COOLING CAPACITY ARE NOT TAKING INTO ACCOUNT THE FAN MOTOR POWER INPUT. THIS ONE MUST BE DEDUCTED TO GET THE NET COOLING CAPACITY.

BXK - K/PC

As09 1E - F097 4E

AIR/AIR HEAT PUMP

- **Configuration**
  O - Upflow
  U - Downflow
- **Type**
  PC - Heat pump
- **Solution**
  K - Comfort

Cooling Capacity 9,5 - 96,8 kW
Heat Capacity 7 - 72,6 kW

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
- Electronic expansion valve
- Contacts for smoke/fire alarm
- Fan remote condenser contactors and protections
- Upgrading electronic control (standard)
- 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 (water conductivity 350...750 µS/cm)
- 3-way modul. valve 0/10V (heating)*
- Step by step 3-way valve (heating)
- Sound absorber plenum

(*) Available only in coupling to the upgrading electronic control

Technical data

Scroll Compressor | Centrifugal Fan | Remote Condenser | Refrigerant R410A

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	9,0	13,6	14,4	18,3	23,5	24,8	30,7	33,0
Heat 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(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
ELECTRIC COIL										
Stages of operation	n°	1	1	2	2	2	2	2	2	2
Power	kW	3,0	3,0	6,0	6,0	6,0	6,0	6,0	9,0	9,0
Absorbed current	A	4,4	4,4	8,7	8,7	8,7	8,7	8,7	13,0	13,0
HUMIDIFIER										
Capacity	Kg/h	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	5 - 8	5 - 8	5 - 8	5 - 8
Power	kW	2,3	2,3	2,3	2,3	2,3	6,2	6,2	6,2	6,2
Absorbed current	A	3,2	3,2	3,2	3,2	3,2	8,7	8,7	8,7	8,7
DIMENSIONS AND WEIGHT										
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	64,0	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
Heat 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(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	2x0150D	2x0180D	2x0220D
ELECTRIC COIL							
Stages of operation	n°	2	2	2	2	2	2
Power	kW	12,0	12,0	18,0	18,0	18,0	18,0
Absorbed current	A	17,4	17,4	26,0	26,0	26,0	26,0
HUMIDIFIER							
Capacity	Kg/h	5 - 8	5 - 8	10 - 15	10 - 15	10 - 15	10 - 15
Power	kW	6,2	6,2	11,3	11,3	11,3	11,3
Absorbed current	A	8,7	8,7	16,2	16,2	16,2	16,2
DIMENSIONS AND WEIGHT							
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

THE DECLARED COOLING CAPACITY ARE NOT TAKING INTO ACCOUNT THE FAN MOTOR POWER INPUT. THIS ONE MUST BE DEDUCTED TO GET THE NET COOLING CAPACITY.

AXK - K

As09 1E - F096 2E

DIRECT EXPANSION WITH WATER COOLED CONDENSER

- **Configuration**
  O - Upflow
  U - Downflow
- **Type**
  SF - Cooling only
- **Solution**
  K - Comfort

Cooling Capacity 9,5 - 95,7 kW

INVERTER Scroll Available

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
- Electronic expansion valve
- Contacts for smoke/fire alarm
- Upgrading electronic control (standard)
- 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 (water conductivity 350...750 µS/cm)
- 3-way modul. valve 0/10V (heating)*
- Condensing pressure valve
- Step by step 3-way valve (heating)
- Sound absorber plenum

(*) Available only in coupling to the upgrading electronic control

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	20,0	20,7	23,1	25,3	27,8	30,0
Sensible cooling capacity(1)	kW	7,9	8,9	13,4	14,6	16,8	17,8	18,7	22,6	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
ELECTRIC COIL										
Stages of operation	n°	1	1	2	2	2	2	2	2	2
Power	kW	3,0	3,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0
Absorbed current	A	4,4	4,4	8,7	8,7	8,7	8,7	8,7	8,7	8,7
HUMIDIFIER										
Capacity	Kg/h	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	5 - 8	5 - 8
Power	kW	2,3	2,3	2,3	2,3	2,3	2,3	2,3	6,2	6,2
Absorbed current	A	3,2	3,2	3,2	3,2	3,2	3,2	3,2	8,7	8,7
DIMENSIONS AND WEIGHT										
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 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	25,1	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
ELECTRIC COIL										
Stages of operation	n°	2	2	2	2	2	2	2	2	2
Power	kW	6,0	9,0	9,0	12,0	12,0	12,0	18,0	18,0	18,0
Absorbed current	A	8,7	13,0	13,0	17,4	17,4	17,4	26,0	26,0	26,0
HUMIDIFIER										
Capacity	Kg/h	5 - 8	5 - 8	5 - 8	5 - 8	5 - 8	5 - 8	10 - 15	10 - 15	10 - 15
Power	kW	6,2	6,2	6,2	6,2	6,2	6,2	11,3	11,3	11,3
Absorbed current	A	8,7	8,7	8,7	8,7	8,7	8,7	16,2	16,2	16,2
DIMENSIONS AND WEIGHT										
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 26,7°C / 50% U.r. IN-OUT water condenser temperature = 30°C / 35°C
2 Data measured at 1m in open field conditions
THE DECLARED COOLING CAPACITY ARE NOT TAKING INTO ACCOUNT THE FAN MOTOR POWER INPUT. THIS ONE MUST BE DEDUCTED TO GET THE NET COOLING CAPACITY.

AXK - K/PC

As09 1E - F096 2E

WATER/AIR HEAT PUMP

- **Configuration**
  O - Upflow
  U - Downflow
- **Type**
  PC - Heat pump
- **Solution**
  K - Comfort

Cooling Capacity 9,5 - 95,7 kW
Heat Capacity 8,9 - 94,1 kW

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
- Electronic expansion valve
- Contacts for smoke/fire alarm
- Upgrading electronic control (standard)
- 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 (water conductivity 350...750 µS/cm)
- 3-way modul. valve 0/10V (heating)*
- Step by step 3-way valve (heating)
- Sound absorber plenum

(*) Available only in coupling to the upgrading electronic control

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	20,0	20,7	23,1	25,3	27,8	30,0
Sensible cooling capacity(1)	kW	7,9	8,9	13,4	14,6	16,8	17,8	18,7	22,6	23,5
Heat capacity(2)	kW	8,9	12,0	15,3	18,6	18,8	21,9	24,6	25,2	28,0
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
ELECTRIC COIL										
Stages of operation	n°	1	1	2	2	2	2	2	2	2
Power	kW	3,0	3,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0
Absorbed current	A	4,4	4,4	8,7	8,7	8,7	8,7	8,7	8,7	8,7
HUMIDIFIER										
Capacity	Kg/h	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	5 - 8	5 - 8
Power	kW	2,3	2,3	2,3	2,3	2,3	2,3	2,3	6,2	6,2
Absorbed current	A	3,2	3,2	3,2	3,2	3,2	3,2	3,2	8,7	8,7
DIMENSIONS AND WEIGHT										
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	25,1	30,3	32,8	42,7	44,4	47,5	59,8	65,6	70,8
Heat capacity(2)	kW	33,3	38,4	46,3	50,0	55,2	65,9	77,0	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(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"
IN-OUT diameter cond. water (TOWER)	"	1"¼	1"½	1"½	2"	2"	2"	2"	2"	2"
ELECTRIC COIL										
Stages of operation	n°	2	2	2	2	2	2	2	2	2
Power	kW	6,0	9,0	9,0	12,0	12,0	12,0	18,0	18,0	18,0
Absorbed current	A	8,7	13,0	13,0	17,4	17,4	17,4	26,0	26,0	26,0
HUMIDIFIER										
Capacity	Kg/h	5 - 8	5 - 8	5 - 8	5 - 8	5 - 8	5 - 8	10 - 15	10 - 15	10 - 15
Power	kW	6,2	6,2	6,2	6,2	6,2	6,2	11,3	11,3	11,3
Absorbed current	A	8,7	8,7	8,7	8,7	8,7	8,7	16,2	16,2	16,2
DIMENSIONS AND WEIGHT										
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 26,7°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
THE DECLARED COOLING CAPACITY ARE NOT TAKING INTO ACCOUNT THE FAN MOTOR POWER INPUT. THIS ONE MUST BE DEDUCTED TO GET THE NET COOLING CAPACITY.

CWK - K

As18 1W - F180 1W

CHILLED WATER UNITS

- **Configuration**
  O - Upflow
  U - Downflow
- **Type**
  SF - Cooling only
- **Solution**
  K - Comfort

Cooling Capacity 18 - 177 kW

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 (standard)
- 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 (water conductivity 350...750 µS/cm)
- 3-way modul. valve 0/10V (heating)*
- Condensing pressure valve
- Step by step 3-way valve (heating)
- Sound absorber plenum

(*) Available only in coupling to the upgrading electronic control

CWK Comfort		As18 1W	As24 1W	A034 1W	Bs44 1W	B064 1W	C090 1W	D110 1W	E140 1W	E150 1W	F180 1W
Total cooling capacity(1)	kW	18	24	36	45	64	88	109	140	146	177
Sensible cooling capacity(1)	kW	13	17	26	32	45	62	77	99	104	126
Power supply	-	230V/1/50Hz +T			400V/3/50Hz +T						
Air flow	mc/h	2300	3200	5000	6000	8500	12000	15000	18600	21000	24000
External static pressure	Pa	100	100	100	100	170	100	170	100	170	100
Fans quantity	n°	1	1	2	2	2	2	2	3	3	4
Fans power input	kW	0,3	0,5	0,8	0,8	1,2	1,4	2,4	2,3	3,3	2,8
Fans total current	A	3,6	3,6	3,6	3,6	5,0	7,0	11,0	10,8	16,2	14,0
Front sound pressure OVER(2)	dB (A)	51	51	52	52	55	58	64	64	65	68
Front sound pressure UNDER(2)	dB (A)	48	48	49	49	52	55	61	61	62	65
Cooling coil pressure drop	kPa	50	58	65	68	88	56	64	89	104	154
Water connections diameter	"	3/4"	3/4"	1"	1"	1"1/4	1"1/2	2"	2"	2"1/2	2"1/2
ELECTRIC COIL											
Stages of operation	n°	1	1	2	2	2	2	2	2	2	2
Power	kW	3,0	3,0	6,0	6,0	6,0	9,0	12,0	18,0	18,0	18,0
Absorbed current	A	4,4	4,4	8,7	8,7	8,7	13,0	17,4	26,0	26,0	26,0
HUMIDIFIER											
Capacity	Kg/h	1 - 3	1 - 3	1 - 3	1 - 3	5 - 8	5 - 8	5 - 8	10 - 15	10 - 15	10 - 15
Power	kW	2,3	2,3	2,3	2,3	6,2	6,2	6,2	11,3	11,3	11,3
Absorbed current	A	3,2	3,2	3,2	3,2	8,7	8,7	8,7	16,2	16,2	16,2
DIMENSIONS AND WEIGHT											
Lenght	mm	700	700	880	880	1140	1320	1760	2200	2200	2640
Depth	mm	485	485	485	700	700	840	840	840	840	840
Height	mm	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950
Operating weight	Kg	140	150	175	235	275	300	440	550	570	750

Note
1 Air inlet 26,7°C / 50% U.r. - IN-OUT chilled water temperature = 7°C / 12°C
2 Data measured at 1m in open field conditions
THE DECLARED COOLING CAPACITY ARE NOT TAKING INTO ACCOUNT THE FAN MOTOR POWER INPUT. THIS ONE MUST BE DEDUCTED TO GET THE NET COOLING CAPACITY.

Air cooled condensers and Dry Coolers

CTK.E

0040 D - 0220 D

REMOTE AIR COOLED CONDENSER

- **Solution**
  B - Base
- **Version**
  ST - Standard
  LN - Low noise
- **Equipment**
  FV - Vertical air flow
  FO - Horizontal air flow

Capacity 14,8 - 73,6 kW

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	0300 D	0350 D	0400 D	0450 D
ST VERSION													
Nominal capacity(1)	kW	14,8	25,0	31,8	37,3	49,7	57,5	62,5	73,6	99,1	113,1	127,4	145,3
Indipendent gas circuit	n°	1	1	1	1	1	1	1	1	1	1	1	1
Total air flow	m3/h	4.500	8.000	9.200	8.700	15.800	15.200	18.000	17.200	27.800	26.480	36.400	34.500
Fans type	-	Axial											
Fans quantity	n°	1	1	1	1	2	2	2	2	3	3	4	4
Fans power input (tot.)	kW	0,30	0,68	0,68	0,68	1,36	1,36	1,36	1,36	1,89	1,89	2,52	2,52
Fans absorbed current (tot.)	A	1,3	3,1	3,1	3,1	6,2	6,2	6,2	6,2	9,0	9,0	12,0	12,0
Sound pressure(2)	dB(A)	59	63	68	68	66	66	71	71	73	73	74	74
LN VERSION													
Nominal capacity(1)	kW	12,0	20,5	26,0	30,1	41,9	44,9	52,0	58,5	81,7	91,3	105,2	118,0
Indipendent gas circuit	n°	1	1	1	1	1	1	1	1	1	1	1	1
Total air flow	m3/h	3.500	6.000	7.000	6.700	12.400	11.000	14.000	13.000	22.300	21.200	29.200	27.600
Fans type	-	Axial											
Fans quantity	n°	1	1	1	1	2	2	2	2	3	3	4	4
Fans power input (tot.)	kW	0,14	0,33	0,33	0,33	0,66	0,66	0,66	0,66	0,93	0,93	1,24	1,24
Fans absorbed current (tot.)	A	0,7	1,6	1,6	1,6	3,2	3,2	3,2	3,2	4,7	4,7	6,2	6,2
Sound pressure(2)	dB(A)	56	60	65	65	63	63	68	68	70	70	71	71
Power supply	V/ph/Hz + T	230V/1/50Hz											
DIMENSIONS AND WEIGHT - ST Version - FO Equipement													
Lenght (L)	mm	974	1.124	1.374	1.374	1.809	1.809	2.489	2.489	3405	3405	4140	4140
Depth (P)	mm	660	660	660	660	755	755	755	755	780	780	780	780
Height (H)	mm	740	910	1.110	1.110	1.110	1.110	1.110	1.110	1130	1130	1130	1130
Shipping weight	Kg	46	80	80	95	133	152	163	191	190	220	235	275
Dimension drawing		CE040FOST	CE050FOST	CE080FOST	CE100FOST	CE120FOST	CE150FOST	CE180FOST	CE220FOST	CE300FOST	CE350FOST	CE400FOST	CE450FOST
DIMENSIONS AND WEIGHT - LN Version - FO Equipement													
Lenght (L)	mm	974	1.124	1.374	1.374	1.809	1.809	2.489	2.489	3405	3405	4140	4140
Depth (P)	mm	670	720	820	820	820	820	820	820	890	890	890	890
Height (H)	mm	740	910	1.110	1.110	1.110	1.110	1.110	1.110	1130	1130	1130	1130
Shipping weight	Kg	47	76	76	91	125	145	155	183	190	220	235	275
Dimension drawing		CE040FOLN	CE050FOLN	CE080FOLN	CE100FOLN	CE120FOLN	CE150FOLN	CE180FOLN	CE220FOLN	CE300FOLN	CE350FOLN	CE400FOLN	CE450FOLN
DIMENSIONS AND WEIGHT - ST Version - FV Equipement													
Lenght (L)	mm	974	1.124	1.374	1.374	1.809	1.809	2.489	2.489	3.215	3.215	3.965	3.965
Depth (P)	mm	790	962	1.162	1.162	1.162	1.162	1.162	1.162	1.130	1.130	1.130	1.130
Height (H)	mm	1.015	1.055	1.055	1.055	1.155	1.155	1.155	1.155	900	900	900	900
Shipping weight	Kg	49	83	83	98	136	155	166	194	190	220	235	275
Dimension drawing		CE040FVST	CE050FVST	CE080FVST	CE100FVST	CE120FVST	CE150FVST	CE180FVST	CE220FVST	CE300FVST	CE350FVST	CE400FVST	CE450FVST
DIMENSIONS AND WEIGHT - LN Version - FV Equipement													
Lenght (L)	mm	974	1.124	1.374	1.374	1.809	1.809	2.489	2.489	3.215	3.215	3.965	3.965
Depth (P)	mm	790	962	1.162	1.162	1.162	1.162	1.162	1.162	1.130	1.130	1.130	1.130
Height (H)	mm	1.070	1.120	1.220	1.220	1.220	1.220	1.220	1.220	900	900	900	900
Shipping weight	Kg	50	79	79	94	128	148	158	186	190	220	235	275
Dimension drawing		CE040FVLN	CE050FVLN	CE080FVLN	CE100FVLN	CE120FVLN	CE150FVLN	CE180FVLN	CE220FVLN	CE300FVLN	CE350FVLN	CE400FVLN	CE450FVLN

Note:

Note:

(1) External air 35°C - Condensation temperature 52°C (Dew point)

(2) Sound pressure measured at 5 m in open field conditions

CTK.C

0040 D - 0220 D

REMOTE AIR COOLED CONDENSER

- **Solution**
  B - Base
- **Version**
  ST - Standard
  LN - Low noise
- **Equipment**
  FV - Vertical air flow
  FO - Horizontal air flow

Capacity 16,5 - 82,5 kW

Features

- **Housing**
  Frame made of painted galvanized steel sheet that provides excellent mechanical and corrosion resistance eternal.
- **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.
- **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

PLUG FAN

Refrigerant R410A

CTK.C		0040 D	0050 D	0080 D	0100 D	0120 D	0150 D	0180 D	0220 D
ST VERSION									
Nominal capacity(1)	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	30-300	30-300	30-300	30-300	30-300	30-300	30-300	30-300
Fans type	-	Plug fan							
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(1)	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	30-300	30-300	30-300	30-300	30-300	30-300	30-300	30-300
Fans type	-	Plug fan							
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							
DIMENSIONS AND WEIGHT - ST/LN Version - FO/FV Equipment									
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
Dimension drawing		CTC	CTC	CTC	CTC	CTC	CTC	CTC	CTC

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

Dry Cooler

SAL 500 - EAL 900

DRY COOLERS (Small and medium capacity)

- **Solution**
  B - Base
- **Version**
  ST - Standard
  LN - Low noise
- **Equipment**
  FV - Vertical air flow

Capacity 15 - 1086 kW

Features

- **Structure**
  The patented structure, extensively tested on vibrating tables, provides important advantages: Casings are made of corrosion-resistant galvanized steel with an epoxy-polyester powder coating. The headers, return bends and junction boxes are all protected.
- **Heat exchanger**
  The extraordinary efficiency of the heat exchanger stems from the optimum combination of special aluminium fins with copper tubes.
- **Coil suspension**
  The coil suspension system (SAFETUBES SYSTEM®) ensures that the tubes are completely protected during transportation, installation and operation of the dry cooler.
- **Fans**
  The air cooled condensers and dry coolers can be fitted with the new electronic fans developed using EC technology, dramatically reducing energy consumption. The fans are also fitted with a control system which can modulate the rotation speed depending on requirements, with excellent acoustic performance.

Accessories

- **THE WHISPERER® - Silencer**
  This compact silencer dramatically reduces sound pressure level up to 5 dB(A).
- **Dry and Spray**
  The extraordinary performance levels due to highly efficient water nebulizzation mean that this product is an alternative to traditional cooling towers with additional important advantages.
- **Water Spray System**
  The new product is made up of a water spray system mounted on standard condensers and dry coolers which sprays finely nebulized water in the opposite direction to the air flow crossing the coils. In this way it is possible to cool the air entering the coils thus increasing the capacity of dry coolers and condensers.

SAL Ø 500

STEEL PROTECTED | SUPER SILENT EFFICIENT

MODELS		4411M	4421D	4431C	4446D	4466C
Capacity (1)	kW	15,0	30,5	45,5	61,0	90,0
Air flow	mc/h	4300	8600	12900	17200	25800
Sound pressure (2)	dB(A)	38	41	42	44	45

SAL Ø 630

STEEL PROTECTED | SUPER SILENT EFFICIENT | STS SAFETUBES SYSTEM

MODELS		6410L	6411L	6420C	6421C	6430B	6431F	6440B	6441B	6450B	6451B	6445C	6446B	6465B	6466F	6485B	6486B
Capacity (1)	kW	21	26	44	51	64	77	88	103	105	131	89	105	131	159	180	211
Air flow	mc/h	8500	7800	17000	15600	25500	23400	34000	31200	42500	39000	34000	31200	51000	46800	68000	62400
Sound pressure (2)	dB(A)	43	43	46	46	47	47	48	48	49	49	48	48	50	50	51	51

SAL Ø 800

STEEL PROTECTED | SUPER SILENT EFFICIENT | STS SAFETUBES SYSTEM

MODELS		2122C	2112B	2121B	2122F	2131E	2132E	2141A	2142A	2151A	2152A	2221B	2222F
Capacity (1)	kW	51	57	102	114	159	171	204	222	262	282	204	228
Air flow	mc/h	17200	16100	34400	32200	51600	48300	68800	64400	86000	80500	68800	64400
Sound pressure (2)	dB(A)	48	48	50	50	52	52	53	53	53	53	53	53

MODELS		2231E	2232E	2241A	2242A	2251A	2252A	2261N	2262N	2271N	2272N	2281N	2282N
Capacity (1)		318	342	408	444	524	564	633	686	745	806	857	927
Air flow	mc/h	103200	96600	137600	128800	172000	161000	206400	193200	240800	225400	275200	257600
Sound pressure (2)	dB(A)	54	54	55	55	56	56	57	57	58	58	58	58

XAL Ø 900-1000

STEEL PROTECTED | SUPER SILENT EFFICIENT | STS SAFETUBES SYSTEM

MODELS		2711C	3711C	2712B	3712E	2713A	3713A	2714A	3714A	2715N	3715N	2716N	3716N	2722B	3722B	2723A	3723A
Capacity (1)	kW	83	91	168	183	248	272	341	374	436	478	534	583	340	372	512	562
Air flow	mc/h	27200	25700	54400	51400	81600	77100	108800	102800	136000	128500	163200	154200	108800	102800	163200	154200
Sound pressure (2)	dB(A)	54	54	56	56	58	58	58	58	59	59	60	60	58	58	60	60

MODELS		2724A	3724A	2725N	3725N	2726N	3726N	5911C	6911C	5912B	6912E	5913A	6913A	5914A	6914A	5915N	6915N
Capacity (1)	kW	698	764	885	967	1072	1170	78	85	157	170	232	253	320	347	409	443
Air flow	mc/h	217600	205600	272000	257000	326400	308400	24500	23300	49000	46600	73500	69900	98000	93200	122500	116500
Sound pressure (2)	dB(A)	61	61	62	62	63	63	52	52	54	54	56	56	56	56	57	57

MODELS		5916N	6916N	5922B	6922B	5923A	6923A	5924A	6924A	5925N	6925N	5926N	6926N
Capacity (1)	kW	500	541	318	345	480	522	655	710	829	898	1004	1086
Air flow	mc/h	147000	139800	98000	93200	147000	139800	196000	186400	245000	233000	294000	279600
Sound pressure (2)	dB(A)	58	58	56	56	58	58	59	59	60	60	61	61

EHL Ø 900

STEEL PROTECTED | SUPER SILENT EFFICIENT | STS SAFETUBES SYSTEM

MODELS		340C	342C	344B	346E	348A	350A	352A	354A	356N	358N	360N
Capacity (1)	kW	74	81	148	163	216	239	295	325	375	411	454
Air flow	mc/h	26500	24500	53000	49000	79500	73500	106000	98000	132500	122500	159000
Sound pressure (2)	dB(A)	58	58	60	60	62	62	62	62	63	63	64

MODELS		362N	364B	366B	368A	370A	372A	374A	376N	378N	380N	382N
Capacity	kW	498	296	325	433	477	591	650	749	823	908	996
Air flow	mc/h	147000	106000	98000	159000	147000	212000	196000	265000	245000	318000	294000
Sound pressure (2)	dB(A)	64	62	62	64	64	65	65	66	66	67	67

EAL Ø 800-900

STEEL PROTECTED | SUPER SILENT EFFICIENT | STS SAFETUBES SYSTEM

MODELS		6111C	6112C	6121B	6122E	6131A	6132A	6141A	6142A	6151N	6152N	6161N	6162N	6221B	6222B	6231A	6232A
Capacity (1)	kW	70	76	140	153	206	224	281	305	359	390	435	472	281	305	415	453
Air flow	mc/h	23500	22000	47000	44000	70500	66000	94000	88000	117500	110000	141000	132000	94000	88000	141000	132000
Sound pressure (2)	dB(A)	52	52	54	54	56	56	56	56	57	57	58	58	56	56	58	58

MODELS		6241A	6242A	6251N	6252N	6261N	6262N	7111C	7112C	7121B	7122E	7131A	7132E	7141A	7142A	7151N	7152N
Capacity (1)	kW	572	623	725	788	879	953	61	66	122	131	178	201	243	263	308	332
Air flow	mc/h	188000	176000	235000	220000	282000	264000	19300	18200	38600	36400	57900	54600	77200	72800	96500	91000
Sound pressure (2)	dB(A)	59	59	60	60	61	61	48	48	50	50	52	52	52	52	53	53

MODELS		7161N	7162N	7221B	7222B	7231A	7232E	7241A	7242A	7251N	7252N	7261N	7262N
Capacity (1)	kW	373	402	243	263	356	402	486	526	616	664	746	804
Air flow	mc/h	115800	109200	77200	72800	115800	109200	154400	145600	193000	182000	231600	218400
Sound pressure (2)	dB(A)	54	54	52	52	54	54	55	55	56	56	57	57

Note:
1 Outdoor air temperature 20°C - Mixture with ethylene glycol to 34% IN/OUT 35/30°C
2 Sound pressure measured at 15 m open field conditions.
Data referred to units with 6-pole motors. There are many other configurations; for more details, see the specific catalogue.

Dry Cooler

XDHL - XXLD

DRY COOLERS (Medium and large capacity)

- **Solution**
  B - Base
- **Version**
  ST - Standard
  LN - Low noise
- **Equipment**
  FV - Vertical air flow

Capacity 86 - 2333 kW

Features

- **Structure**
  The patented structure, extensively tested on vibrating tables, provides important advantages: Casings are made of corrosion-resistant galvanized steel with an epoxy-polyester powder coating. The headers, return bends and junction boxes are all protected.
- **Heat exchanger**
  The extraordinary efficiency of the heat exchanger stems from the optimum combination of special aluminium fins with copper tubes.
- **Coil suspension**
  The coil suspension system (SAFETUBES SYSTEM®) ensures that the tubes are completely protected during transportation, installation and operation of the dry cooler.
- **Fans**
  The air cooled condensers and dry coolers can be fitted with the new electronic fans developed using EC technology, dramatically reducing energy consumption. The fans are also fitted with a control system which can modulate the rotation speed depending on requirements, with excellent acoustic performance.

Accessories

- **THE WHISPERER® - Silencer**
  This compact silencer dramatically reduces sound pressure level up to 5 dB(A).
- **Dry and Spray**
  The extraordinary performance levels due to highly efficient water nebulizzation mean that this product is an alternative to traditional cooling towers with additional important advantages.
- **Water Spray System**
  The new product is made up of a water spray system mounted on standard condensers and dry coolers which sprays finely nebulized water in the opposite direction to the air flow crossing the coils. In this way it is possible to cool the air entering the coils thus increasing the capacity of dry coolers and condensers.

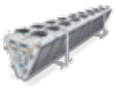
XDHL

DRY AND SPRAY | WATER SPRAY SYSTEM | STEEL PROTECTED | SUPER SILENT EFFICIENT | STS SAFETUBES SYSTEM

MODELS		1114D	1115L	1124F	1125C	1134B	1135F	1144B	1145B	1154A	1155E	1164A	1165N	1174A	1175N	1184A	1185N
Capacity	kW	86	97	174	195	264	297	362	398	440	507	537	592	640	704	737	810
Air flow	mc/h	28600	27100	57200	54200	85800	81300	114400	108400	143000	135500	171600	162600	200200	189700	228800	216800
Sound pressure	dB(A)	57	57	60	60	62	62	63	63	64	64	64	64	65	65	65	65

MODELS		2114D	2115L	2124F	2125C	2134B	2135F	2144B	2145B	2154A	2155E	2164A	2165N	2174A	2175N	2184A	2185N
Capacity	kW	79	87	159	177	241	269	331	360	403	458	491	536	585	637	674	733
Air flow	mc/h	24900	23600	49800	47200	74700	70800	99600	94400	124500	118000	149400	141600	174300	165200	199200	188800
Sound pressure	dB(A)	51	51	54	54	56	56	57	57	58	58	58	58	59	59	59	59

MODELS		3114L	3115L	3124C	3125C	3134F	3135F	3144B	3145B	3154B	3155E	3164A	3165E	3174A	3175N	3184A	3185N
Capacity	kW	69	74	140	150	214	228	286	306	365	389	425	470	505	541	582	623
Air flow	mc/h	20000	19100	40000	38200	60000	57300	80000	76400	100000	95500	120000	114600	140000	133700	160000	152800
Sound pressure	dB(A)	47	47	50	50	52	52	53	53	54	54	54	54	55	55	55	55



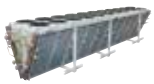
EHLD

SMART PATENTED | DRY AND SPRAY | WATER SPRAY SYSTEM | STEEL PROTECTED | SUPER SILENT EFFICIENT | STS SAFETUBES SYSTEM

MODELS		1226F	1227F	1236B	1237B	1246B	1247E	1256A	1257A	1266A	1267A	1276A	1277A	1286N	1287N	1296N	1297N
Capacity	kW	359	395	544	599	738	810	894	985	1098	1209	1294	1422	1504	1651	1703	1867
Air flow	mc/h	120400	114400	180600	171600	240800	228800	301000	286000	361200	343200	421400	400400	481600	457600	541800	514800
Sound pressure	dB(A)	63	63	65	65	66	66	67	67	67	67	68	68	68	68	68	68

MODELS		2226F	2227F	2236B	2237B	2246B	2247E	2256A	2257A	2266A	2267A	2276A	2277A	2286N	2287N	2296N	2297N
Capacity	kW	328	357	497	540	674	731	817	890	1004	1091	1182	1283	1373	1490	1554	1683
Air flow	mc/h	104400	99600	156600	149400	208800	199200	261000	249000	313200	298800	365400	348600	417600	398400	469800	448200
Sound pressure	dB(A)	57	57	59	59	60	60	61	61	61	61	62	62	62	62	62	62

MODELS		3226C	3227C	3236B	3237F	3246B	3247B	3256E	3257E	3266A	3267A	3276A	3277A	3286A	3287A	2396A	3297A
Capacity	kW	287	307	428	466	580	619	731	780	856	917	1017	1087	1181	1262	1336	1426
Air flow	mc/h	84000	80400	126000	120600	168000	160800	210000	201000	252000	241200	294000	281400	336000	321600	378000	361800
Sound pressure	dB(A)	53	53	55	55	56	56	57	57	57	57	58	58	58	58	58	58



XXLD

SMART PATENTED | DRY AND SPRAY | WATER SPRAY SYSTEM | STEEL PROTECTED | SUPER SILENT EFFICIENT | STS SAFETUBES SYSTEM

MODELS		9083B	9084B	9103E	9104E	9123A	9124A	9143A	9144A	9163N	9164N	9183N	9184N	9203N	9204N	9223N	9224N
Capacity	kW	725	798	927	1018	1075	1185	1281	1411	1478	1625	1691	1857	1907	2093	2127	2333
Air flow	mc/h	242400	229600	303000	287000	363600	344400	424200	401800	484800	459200	545400	516600	606000	574000	666600	631400
Sound pressure	dB(A)	66	66	67	67	67	67	68	68	68	68	69	69	69	69	70	70

MODELS		9085B	9086B	9105E	9106E	9125A	9126A	9145A	9146A	9165N	9166N	9185N	9186N	9205N	9206N	9225N	9226N
Capacity	kW	663	721	847	919	983	1072	1171	1275	1351	1468	1544	1677	1741	1889	1941	2105
Air flow	mc/h	210400	200000	263000	250000	315600	300000	368200	350000	420800	400000	473400	450000	526000	500000	578600	550000
Sound pressure	dB(A)	60	60	61	61	61	61	62	62	62	62	63	63	63	63	64	64

Note:
1 Outdoor air temperature 20°C - Mixture with ethylene glycol to 34% IN/OUT 35/30°C
2 Sound pressure measured at 15 m open field conditions.
Data referred to units with 6-pole motors. There are many other configurations; for more details, see the specific catalogue.

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