

BXK - K

As09 1E ↔ F097 4E


Refrigerant
R410A | GWP=2.088


Centrifugal
fan


"Comfort"
Solution

Direct expansion with remote air cooled condenser



Configuration

- O - Upflow
- U - Downflow

Operation

- SF - Cooling only
- PC - Heat pump (available on request)

Solution

- K - Comfort

Cooling Capacity 9,5 - 96,8 kW

| | |
|------------------------------------|---|
| 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 aesthetic 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. Antivibration 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 | Remote air cooled condenser (CTK) available on request. |
| Refrigerant circuit | Liquid receiver, filter dryer, moisture-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. |
| Control panel | The microprocessor controls the unit capacity by timing the compressors and checks the operating alarms. Advanced electronic control is standard. |

ACCESSORIES

- Water heating coil
- Electric heating coil
- Electronic expansion valve
- Contacts for smoke/fire alarm
- 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)
- Sound absorber plenum

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Direct expansion with remote air cooled condenser

| BXK Comfort | | As09 1E | As12 1E | A017 1E | A019 1E | Bs24 1E | B030 1E | B034 1E | C040 1E |
|--|-------|------------------|---------|---------|---------|---------|---------|---------|---------|
| Total cooling capacity(1) | kW | 9,5 | 12,2 | 17,5 | 19,4 | 24,2 | 30,1 | 33,6 | 40,2 |
| Sensible cooling capacity(1) | kW | 7,9 | 9,0 | 13,6 | 14,4 | 18,3 | 23,5 | 24,8 | 30,7 |
| Power supply | - | 400V/3+N/50Hz +T | | | | | | | |
| Number of compressors | n° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Number of refrigerant circuits | n° | 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 |
| Compressors total current(1) | A | 4,7 | 6,7 | 8,4 | 9,2 | 13 | 15,5 | 16,5 | 19,5 |
| Air flow | m3/h | 2300 | 2300 | 3300 | 3300 | 4200 | 5600 | 5600 | 8200 |
| External static pressure | Pa | 80 | 80 | 80 | 80 | 150 | 125 | 125 | 125 |
| Fans quantity | n° | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| Fans power input | kW | 0,35 | 0,35 | 0,55 | 0,55 | 0,75 | 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 |
| Front sound pressure OVER(2) | dB(A) | 52 | 52 | 53 | 53 | 53 | 56 | 56 | 56 |
| Front sound pressure UNDER(2) | dB(A) | 49 | 49 | 50 | 50 | 50 | 53 | 53 | 53 |
| Discharge refrigerant pipe dimension | mm | 1/016 | 1/016 | 1/016 | 1/016 | 1/018 | 1/022 | 1/022 | 1/022 |
| Liquid refrigerant pipe dimension | mm | 1/012 | 1/012 | 1/012 | 1/012 | 1/016 | 1/016 | 1/016 | 1/016 |
| Combination with remote cond. CTK.E/ST | - | 0040D | 0040D | 0050D | 0050D | 0080D | 0120D | 0120D | 0150D |
| Combination with remote cond. CTK.E/LN | - | 0040D | 0050D | 0080D | 0080D | 0100D | 0120D | 0150D | 0180D |

| ELECTRIC COIL | | | | | | | | | |
|---------------------|----|-----|-----|-----|-----|-----|-----|-----|------|
| Stages of operation | n° | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| Power | kW | 3,0 | 3,0 | 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 | 13,0 |

| HUMIDIFIER | | | | | | | | | |
|------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Capacity | kg/h | 1 - 3 | 1 - 3 | 1 - 3 | 1 - 3 | 1 - 3 | 5 - 8 | 5 - 8 | 5 - 8 |
| Power | kW | 2,3 | 2,3 | 2,3 | 2,3 | 2,3 | 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 |

| DIMENSIONS AND WEIGHT | | | | | | | | | |
|-----------------------|----|------|------|------|------|------|------|------|------|
| Length | mm | 700 | 700 | 880 | 880 | 880 | 1140 | 1140 | 1320 |
| Depth | mm | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 840 |
| Height | mm | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 |
| Operating weight | Kg | 205 | 220 | 230 | 240 | 260 | 345 | 350 | 430 |

| BXK Comfort | | C046 2E | D058 2E | D064 2E | E070 2E | E080 2E | F085 2E | F097 4E | |
|--|-------|------------------|---------|---------|---------|---------|---------|---------|--|
| Total cooling capacity(1) | kW | 45,7 | 58,3 | 64,0 | 70,4 | 80,3 | 84,7 | 96,8 | |
| Sensible cooling capacity(1) | kW | 33,0 | 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 | 2 | 4 | |
| Number of refrigerant circuits | n° | 1 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Compressors total power input(1) | kW | 13,9 | 16,1 | 18,4 | 18,6 | 23,2 | 23,4 | 27,8 | |
| Compressors total current(1) | A | 23,7 | 31 | 33 | 33,2 | 39 | 39,2 | 47,4 | |
| Air flow | m3/h | 8200 | 10500 | 10500 | 14000 | 14000 | 16000 | 16000 | |
| External static pressure | Pa | 125 | 155 | 155 | 140 | 140 | 140 | 140 | |
| Fans quantity | n° | 2 | 3 | 3 | 4 | 4 | 4 | 4 | |
| Fans power input | kW | 1,5 | 2,25 | 2,25 | 3,0 | 3,0 | 3,0 | 3,0 | |
| Fans total current | A | 6,2 | 9,3 | 9,3 | 12,4 | 12,4 | 12,4 | 12,4 | |
| Front sound pressure OVER(2) | dB(A) | 56 | 60 | 60 | 61 | 61 | 62 | 62 | |
| Front sound pressure UNDER(2) | dB(A) | 53 | 57 | 57 | 58 | 58 | 59 | 59 | |
| Discharge refrigerant pipe dimension | mm | 1/028 | 2/022 | 2/022 | 2/022 | 2/022 | 2/022 | 2/028 | |
| Liquid refrigerant pipe dimension | mm | 1/018 | 2/016 | 2/016 | 2/016 | 2/016 | 2/016 | 2/018 | |
| Combination with remote cond. CTK.E/ST | - | 0180D | 2x0100D | 2x0120D | 2x0120D | 2x0150D | 2x0150D | 2x0180D | |
| Combination with remote cond. CTK.E/LN | - | 0220D | 2x0120D | 2x0150D | 2x0150D | 2x0180D | 2x0180D | 2x0220D | |

| ELECTRIC COIL | | | | | | | | | |
|---------------------|----|------|------|------|------|------|------|------|--|
| Stages of operation | n° | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Power | kW | 9,0 | 12,0 | 12,0 | 18,0 | 18,0 | 18,0 | 18,0 | |
| Absorbed current | A | 13,0 | 17,4 | 17,4 | 26,0 | 26,0 | 26,0 | 26,0 | |

| HUMIDIFIER | | | | | | | | | |
|------------------|------|-------|-------|-------|---------|---------|---------|---------|--|
| Capacity | kg/h | 5 - 8 | 5 - 8 | 5 - 8 | 10 - 15 | 10 - 15 | 10 - 15 | 10 - 15 | |
| Power | kW | 6,2 | 6,2 | 6,2 | 11,3 | 11,3 | 11,3 | 11,3 | |
| Absorbed current | A | 8,7 | 8,7 | 8,7 | 16,2 | 16,2 | 16,2 | 16,2 | |

| DIMENSIONS AND WEIGHT | | | | | | | | | |
|-----------------------|----|------|------|------|------|------|------|------|--|
| Length | mm | 1320 | 1760 | 1760 | 2200 | 2200 | 2640 | 2640 | |
| Depth | mm | 840 | 840 | 840 | 840 | 840 | 840 | 840 | |
| Height | mm | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | |
| Operating weight | Kg | 450 | 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.