

BXK - T/EC

As08 1E ↔ F061 2E



Refrigerant
R410A | GWP=2.088



BLDC
compressor
available



PLUG FAN



"Tecno"
solutions

Direct expansion with remote air cooled condenser



Configuration

- O - Upflow
- U - Downflow

Operation

- SF - Cooling only

Solution

- T - Technological

Cooling Capacity 7 - 67,7 kW

Dual-cooling capacity 17,9 - 51,4 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 ("V" configuration).

Compressor

HERMETIC SCROLL type, complete with thermal protection. Antivibration 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 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 selfextinguish 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

BXK - T/EC

As08 1E ↔ F061 2E

Direct expansion with remote air cooled condenser

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	m3/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	700	700	700	700	700	700	700	700	700
Height	mm	1950	1950	1950	1950	1950	1950	1950	1950	1950
Operating weight	Kg	200	205	220	230	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
Dual 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	m3/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 and Ethylenic Glycol 30% 12/7°C (13/7°C from size "D")

THE DECLARED COOLING CAPACITY ARE NOT TAKING INTO ACCOUNT THE FAN MOTOR POWER INPUT.