

BKT 4 DATACENTER- Cooling Systems iROW DX

# SmoothAir™ – Row Mount DX

Air cooled, row mount, split type, ideal for micro data center, cube data center and container data center solutions.

**5.6kW – 90,1kW**  
**300/600/900mm Width**

**DX – Direct Expansion**



**1-** Dynamically modulated cooling capacity with inverter compressor maintains temperature within envelop and prevent compressor from cycling during low heat load period.

**2-** Air flow modulates with EC fans to match IT equipment requirements. Each fan module is easy to change with quick couple connections.

**3-** Precision cooling controller monitors and protects unit constantly. Easy to be integrated into SM4DC or BMS to display, control and manage the system.

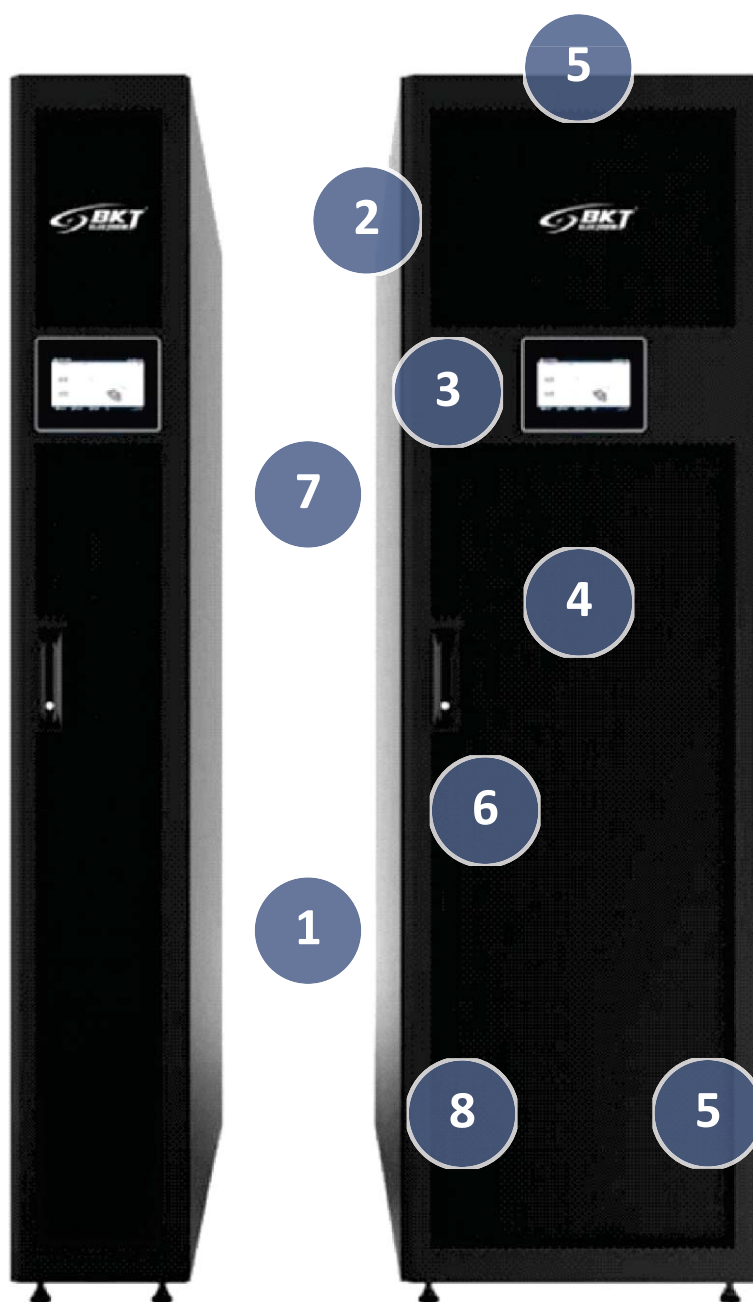
**4-** R410A green refrigerant is highly efficient and no ODP.








**5-** Copper piping adopts quick connections and supports bottom and top connections.






**6-** Easy to change G4 air filter and sealed doors help to build a clean and quiet microDC.

**7-** Slide drawer style electric box makes service easier.

**8-** Optional with condensate pump, leaking kit and dual power supply for diverse applications.



Technical Data							
Indoor Unit	110K423005 DX0/H.3	110K423007 DX0/H.3	110K4230012 DX0/H.3	110K4230017 DX0/H.3	110K4230021 DX0/H.3	110K4230025 DX0/H.3	110K4230030 DX0/H.3
Total Cooling(kW)	5.6	7.6	12.8	17.6	21.2	25.1	31.1
SHR-%	100	100	100	100	100	100	100
Air Volume (m³/h)	2000	2250	2400	4500	4920	5000	5800
Height(mm)	2000	2000	2000	2000	2000	2000	2000
Depth(mm)	1100	1100	1100	1100	1100	1100	1100
Width(mm)	300	300	300	300	300	300	300
Weight(kg)	210	213	233	253	258	260	320
Reheat(kW)	3.0	3.0	3.0	6.0	6.0	6.0	6.0
Hum.(option)[kg/h]	1.5	1.5	1.5	1.5	1.5	1.5	3
Power Input	230V/ 50-60Hz/1Ph	230V/ 50-60Hz/1Ph	400V/ 50-60Hz/3Ph	400V/ 50-60Hz/3Ph	400V/ 50-60Hz/3Ph	400V/ 50-60Hz/3Ph	400V/ 50-60Hz/3Ph
FLA-A	28.2	37.3	48.7	27.0	26.7	27.9	34.6
Startup current A	33.0	47.2	28.2	45.6	34.4	34.3	35,5
Power kW	4,4	4,6	5,7	5,7	10	10,7	11,9
EER- Efficiency Row Cool W/W	3,2	3,96	3,85	3,75	3,95	3,71	3,40
FLA-A (with Hum)	33,3	42,4	53,8	32,1	31,8	33,0	39.7
Startup current A (with Hum.)	38,1	52,3	29,1	50,7	39,5	39,4	40,6
Power kW (with Hum.)	5,6	5,8	6,9	6,9	11,1	13	13
Noise dB(A)	61	55	59,5	57	59	60,5	63,5
Outdoor Unit	110KSF1200 000.1	110KSF0800 000.1	110KSF1800 000.1	110KSF2400 000.1	110KSF3200 000.1	110KSF3800 000.1	110KSF4200 000.1
Height(mm)	790	790	1240	689	689	695	695
Depth(mm)	420	420	420	990	990	990	1273
Width(mm)	800	800	800	1407	1407	1407	1607
Leg Height(m)	-	-	-	450	450	450	450
Weight(kg)	28	40	67	105	110	120	130
Power Input	230V/ 50-60Hz/1Ph	230V/ 50-60Hz/1Ph	230V/ 50-60Hz/1Ph	400V/ 50-60Hz/3Ph	400V/ 50-60Hz/3Ph	400V/ 50-60Hz/3Ph	400V/ 50-60Hz/3Ph
FLA-A	1.5	1.5	3.0	2.0	2.0	2.8	2.8
Power kW	0,3	0,3	0,6	0,6	0,6	0,7	0,8
Single/Dual	1	1	1	1	1	1	1
Capacity refrigerant: R410A-kg	3,1	4	5,3	5,6	7	8	9,5
Noise dB(A)	44	45	44	55	54	45	47
Pipe Connection mm	10/12	10/12	12/16	16/24	16/24	16/24	16/24
							

Technical Data					
Indoor Unit	110K4230040 DX0/H.3	110K4230051 DX0/H.3	110K4230065 DX0/H.3	110K4230076 DX0/H.3	110K4230090 DX0/H.3
Total Cooling(kW)	40.9	51.2	65.7	76.8	90.1
SHR-%	100	100	100	100	100
Air Volume (m³/h)	8000	1000	12000	13500	16000
Height(mm)	2000	2000	2000	2000	2000
Depth(mm)	1100	1100	1100	1100	1100
Width(mm)	600	600	600	900	900
Weight(kg)	360	420	460	540	620
Reheat(kW)	6.0	6.0	6.0	6.0	6.0
Hum.(option)[kg/h]	3	3	3	3	3
Power Input	400V/ 50-60Hz/3Ph	400V/ 50Hz/3Ph	400V/ 50-60Hz/1Ph	400V/ 50-60Hz/1Ph	400V/ 50-60Hz/3Ph
FLA-A	37.7	48.1	60.6	70.8	84,6
Startup current A	49,9	61,1	77	89,9	107,4
Power kW	15,7	20,3	23,7	25,9	29,3
EER- Efficiency Row Cool W/W	3,83				
FLA-A (with Hum)	47,9	58.3	70,8	81.0	94,8
Startup current A (with Hum.)	60,1	71,3	87,2	100,1	117,6
Power kW (with Hum.)	17,9	22,55	25,95	28,15	31,55
Noise dB(A)	68,5	65	68	61	66
Outdoor Unit	110KSF5200 000.1	110KSF6200 000.1	110KSF0800 000.1	110KSF5200 000.1	110KSF6200 000.1
Height(mm)	695	689	695	695	689
Depth(mm)	1273	1273	1273	1273	1273
Width(mm)	1607	2107	2407	1607	2107
Leg Height(m)	450	450	450	450	450
Weight(kg)	150	160	230	150	160
Power Input	400V/ 50-60Hz/3Ph	400V/ 50-60Hz/3Ph	400V/ 50-60Hz/1Ph	400V/ 50-60Hz/1Ph	400V/ 50-60Hz/3Ph
FLA-A	4	4	4	4	4
Power kW	0,8	1,4	1,4	1,6	1,6
Single/Dual	1	1	1	2	2
Capacity refrigerant: R410A-kg	15,1	16,2	19,1	23,8	33,1
Noise dB(A)	52	54	56	52	54
Pipe Connection mm	22/28	22/28	22/28	22/28	22/28
					

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Notes:

1. Air flow is based upon maximum setting. Fan modulates per real loads.
2. Cooling Capacity based on 37°C/24%RH return air and 35°C outdoor temperature with the suggested condenser.
3. FLA of indoor unit includes FLA of outdoor unit. No including optional humidifier and heater.
4. Standard installation length up to 30m.
5. operating outside temperature range: -15°C ÷ 45°C; WinterKit- option: up to -35°C.
6. Noise: 1m at the distance the unit.

Optional:

- Winter kit do -35°C
- Communication card SNMP: ModBus-RTU, ModBus TCP-IP
- water pump
- FreeCooling kit
- liquid sensor
- ATS-KIT redundant power supply

[www.bkte.pl](http://www.bkte.pl)

BKT Elektronik  
ul. Łochowska 69  
86-005 Białe Błota  
Tel. +48 52 36 36 371  
Fax. +48 52 36 36 370