



Biddle air curtains

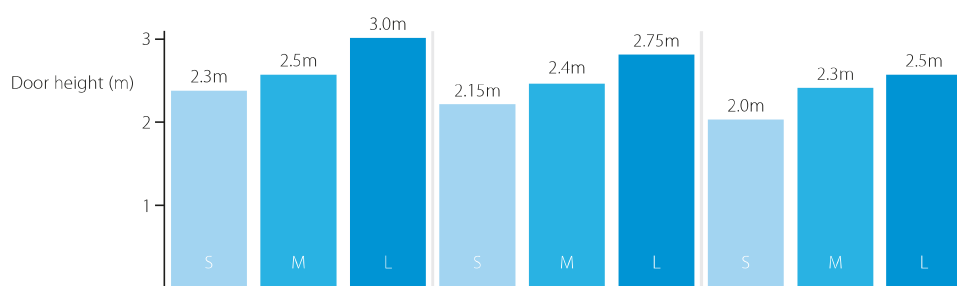
Biddle air curtains provide highly efficient solutions for retailers and consultants to combat the issue of climate separation across their outlet or office doorway.

Outdoor units portfolio for connection to Biddle air curtains

System	Type	Product name	Condensing units	71	100	125	140	200	250
Air cooled	Heat pump	ERQ-AV1 ¹ Condensing Units	- High efficiency - High comfort levels - Easy design and installation			●	●	●	
		ERQ-AW1 ¹ Condensing Units	- Maximize installation flexibility by offering 4 types of control systems				●		●

1) Only use the condensing units in combinations with an air handling unit.

Biddle air curtain portfolio



Installation condition

Favourable




ex: covered shopping mall or revolving door entrance

Normal

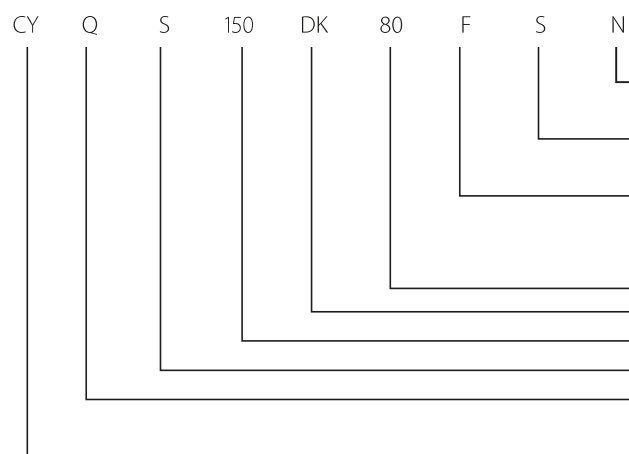
ex: little direct wind, no opposite open doors, building with ground floor only

Unfavourable

ex: location at a corner or square, multiple floors and / or open stairwell

Type	Product name	Features	
Biddle standard air curtain free hanging	CYQ S/M/L-DK-F	- CYQ - Biddle air curtain for connection to ERQ - Connectable to ERQ heat pump	
Biddle standard air curtain cassette	CYQ S/M/L-DK-C	- Cassette model (C): mounted into a false ceiling leaving only the decoration panel visible - Free-hanging model (F): easy wall mounted installation - Recessed model (R): neatly concealed in the ceiling	
Biddle standard air curtain recessed	CYQ S/M/L-DK-R	- A payback period of less than 1.5 years compared to installing an electric air curtain - Easy and quick to install at reduced costs since no additional water systems, boilers and gas connections are required	

Biddle air curtain nomenclature



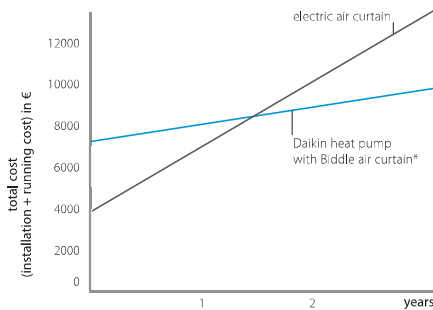
- N = No controller
 - C = Controller as standard
 - Color
 - B = White (RAL 9016)
 - S = Grey (RAL 9006)
 - Installation type
 - F = Free hanging
 - C = Cassette
 - R = Recessed
 - Capacity class (kW)
 - Daikin direct expansion
 - Door width (cm)
 - Range
 - S = Small
 - M = Medium
 - L = Large
 - V = Connectable to VRV
 - Q = Connectable to ERQ
- Biddle air curtain

Biddle air curtain for ERQ

- › Connectable to ERQ heat pump
- › ERQ is among the first DX systems suitable for connection to air curtains
- › Free-hanging model (F): easy wall mounted installation
- › Cassette model (C): mounted into a false ceiling leaving only the decoration panel visible
- › Recessed model (R): neatly concealed in the ceiling
- › A payback period of less than 1.5 years compared to installing an electric air curtain
- › Easy and quick to install at reduced costs since no additional water systems, boilers and gas connections are required
- › Maximum energy efficiency stemming from almost zero down flow turbulence, optimised air flow and the application of advanced discharge rectifier technology
- › Around 85% air separation efficiency, greatly reducing both heat loss and required indoor unit heating capacity



Packtime of less than 1.5 years



				Small			Medium			
				CYQS150DK80 *BN/*SN	CYQS200DK100 *BN/*SN	CYQS250DK140 *BN/*SN	CYQM100DK80 *BN/*SN	CYQM150DK80 *BN/*SN	CYQM200DK100 *BN/*SN	CYQM250DK140 *BN/*SN
Heating capacity	Speed 3		kW	9.0	11.6	16.2	9.2	11.0	13.4	19.9
Power input	Fan only	Nom.	kW	0.35	0.46	0.58	0.37	0.56	0.75	0.94
	Heating	Nom.	kW	0.35	0.46	0.58	0.37	0.56	0.75	0.94
Delta T	Speed 3		K	15			16	17	14	15
Casing	Colour			BN: RAL9010 / SN: RAL9006						
Dimensions	Unit	Height F/C/R	mm	270/270/270						
		Width F/C/R	mm	1,500/1,500/1,548	2,000/2,000/2,048	2,500/2,500/2,548	1,000/1,000/1,048	1,500/1,500/1,548	2,000/2,000/2,048	2,500/2,500/2,548
		Depth F/C/R	mm	590/821/561						
Required ceiling void >			mm	420						
Door height	Max.		m	2.3 (1) / 2.15 (2) / 2.0 (3)	2.3 (1) / 2.15 (2) / 2.0 (3)	2.3 (1) / 2.15 (2) / 2.0 (3)	2.5 (1) / 2.4 (2) / 2.3 (3)	2.5 (1) / 2.4 (2) / 2.3 (3)	2.5 (1) / 2.4 (2) / 2.3 (3)	2.5 (1) / 2.4 (2) / 2.3 (3)
Door width	Max.		m	1.5	2.0	2.5	1.0	1.5	2.0	2.5
Weight	Unit		kg	66	83	107	57	73	94	108
Fan-Air flow rate	Heating	Speed 3	m ³ /h	1,746	2,328	2,910	1,605	2,408	3,210	4,013
Sound pressure level	Heating	Speed 3	dB(A)	49	50	51	50	51	53	54
Refrigerant	Type / GWP			R-410A / 2,087.5						
Piping connections	Liquid/OD/Gas/OD		mm	9.52/16.0		9.52/19.0	9.52/16.0		9.52/19.0	
Required accessories (should be ordered separately)				Daikin wired remote control (BRC1E52A/B or BRC1D52)						
Power supply	Voltage		V	230						

				Large			
				CYQL100DK125 *BN/*SN	CYQL150DK200 *BN/*SN	CYQL200DK250 *BN/*SN	CYQL250DK250 *BN/*SN
Heating capacity	Speed 3		kW	15.6	23.3	29.4	31.1
Power input	Fan only	Nom.	kW	0.75	1.13	1.50	1.88
	Heating	Nom.	kW	0.75	1.13	1.50	1.88
Delta T	Speed 3		K	15			12
Casing	Colour			BN: RAL9010 / SN: RAL9006			
Dimensions	Unit	Height F/C/R	mm	370/370/370			
		Width F/C/R	mm	1,000/1,000/1,048	1,500/1,500/1,548	2,000/2,000/2,048	2,500/2,500/2,548
		Depth F/C/R	mm	774/1,105/745			
Required ceiling void >			mm	520			
Door height	Max.		m	3.0 (1) / 2.75 (2) / 2.5 (3)	3.0 (1) / 2.75 (2) / 2.5 (3)	3.0 (1) / 2.75 (2) / 2.5 (3)	3.0 (1) / 2.75 (2) / 2.5 (3)
Door width	Max.		m	1.0	1.5	2.0	2.5
Weight	Unit		kg	76	100	126	157
Fan-Air flow rate	Heating	Speed 3	m ³ /h	3,100	4,650	6,200	7,750
Sound pressure level	Heating	Speed 3	dB(A)	53	54	56	57
Refrigerant	Type / GWP			R-410A / 2,087.5			
Piping connections	Liquid/OD/Gas/OD		mm	9.52/16.0	9.52/19.0	9.52/22.0	
Required accessories (should be ordered separately)				Daikin wired remote control (BRC1E52A/B or BRC1D52)			
Power supply	Voltage		V	230			

(1) Favorable conditions: covered shopping mall or revolving door entrance (2) Normal conditions: little direct wind, no opposite open doors, building with ground floor only (3) Unfavorable conditions: location at a corner or square, multiple floors and/or open stairway