DAIKIN

Air conditioners,

Commercial and Technical Data

VRV®

Biddle air curtain for connection to Daikin heat pumps

ECDEN10-202A

Daikin Europe N.V.

About Daikin

Daikin has a worldwide reputation based on almost 85 years' experience in the successful manufacture of high quality air conditioning equipment for industrial, commercial and residential use.

Daikin Quality

Daikin's much envied quality quite simply stems from the close attention paid to design, production and testing as well as aftersales support. To this end, every component is carefully selected and rigorously tested to verify its contribution to product quality and reliability.

Biddle, the Company

Biddle is an internationally renowned company with more than 50 years' experience in the manufacturing and marketing of innovative outdoor/indoor climate separation equipment. Throughout its long history the company has made its name in engineering advanced custom made solutions for retail, industrial and public sector buildings.

Daikin and Biddle

The remarkable synergy between Daikin and Biddle, both leaders in their respective fields, has lead to a combined heat pump and air curtain system that represents the ideal solution for retail outlets and office buildings. Co-operation of this order guarantees customers high energy efficiencies, rapid payback on investment and hard to beat in store comfort.

Environmental Awareness

Air Conditioning and the Environment

Air conditioning systems provide a significant level of indoor comfort, making **optimum working and living conditions** possible in the most extreme climates.

In recent years, motivated by a global awareness of the need to reduce the burdens on the environment, Daikin has invested enormous efforts in limiting the negative effects associated with the production and the operation of air conditioners.

Hence, models with **energy saving** features and improved **eco-production** techniques have seen the light of day, making a significant contribution to limiting the impact on the environment.

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Benefits of Daikin heat pumps

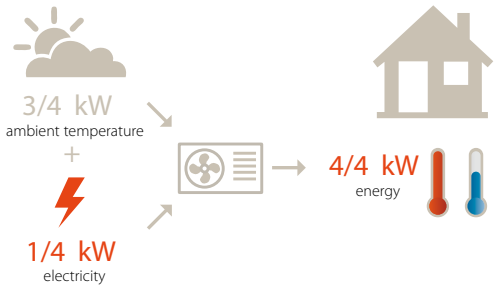
The Solution for those with an Eye to the Future

Heat pumps are used to extract calories (heat) contained in the outside air, even in cold weather. Using a compressor, they are capable of very effectively heating offices, commercial spaces, hotels and any other application. The only input that heat pumps require to make the system work is electricity: the heat they produce is entirely drawn from the outside air. Electricity use is thus minimum and far lower than that of an electric space-heater or air curtain for example. It is a simple equation: using Daikin heat pumps, 75% of the energy consumed to heat your building is found in the outside air: it is thus free of charge and… renewable!

Quiet and discrete, heat pumps are currently the most advanced technology used to equip buildings with low energy consumption.

Did you know that hi-VRV®...

- Means variable refrigerant volume
- Is the industry leader with several unique products
- Is a rapid response system in which up to 64 indoor units can operate on the same refrigerant circuit
- Integrates air conditioning, ventilation and control



A Renewable Resource

Up to 3/4th of the heat produced by a heat pump is free of charge since it is drawn from the outside air. It is thus a no-cost and non-depletable resource!

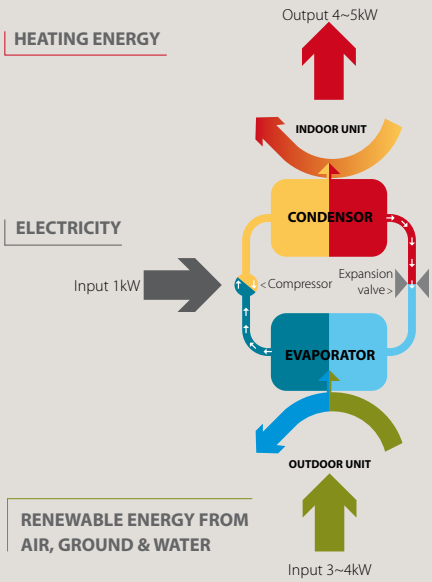
How does it work?

As its name makes clear, a heat pump is a system designed to extract and transport heat, thus allowing one to maintain a constant indoor temperature all year long.

A perpetual cycle

A heat transfer fluid, harmless to the ozone layer, circulates in a closed circuit inside the system in order to transfer heat to and from the air outside and inside your home.

- The evaporator enables the fluid to extract heat from the outside air by changing from a liquid state to a gas.
- The electric compressor then compresses the gas, which raises its temperature.
- The condensor then allows the gas to transfer its heat to the heating system as it returns to a liquid state.
- The expansion valve lowers the pressure of the fluid, which triggers its vaporisation to begin a new cycle.



Benefits of Biddle Air Curtains connected to Daikin Heat Pumps

Biddle air curtains provide highly efficient solutions to combat the issue of climate separation across your outlet or office doorway.

'Open Door' Trading

Although the customer friendly aspects of open door trading are widely appreciated by retail and commercial outlet managers, open doors can also give rise to massive losses in warm air and hence, energy. Biddle air curtains however, not only preserve indoor warmth and generate significant economies, they also represent an **invitation for customers** to enter a pleasant trading and working environment.

High efficiency and low CO_2 emission

The stable store environment ensuing from efficient outdoor/indoor climate separation limits heat loss through the door opening and enhances the efficiency of the air conditioning system. By combining Biddle air curtains with highly efficient Daikin VRV® and ERQ heat pumps, users benefit from substantial energy savings of up to 72% compared to electric air curtains.

Short pay back period

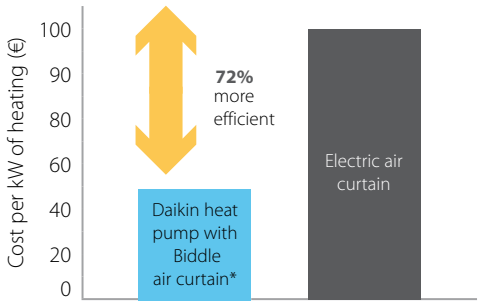
Energy savings accruing from the installation of this advanced equipment give rise to the remarkable payback period of less then **1.5 years** with massive potential extra savings likely to stem from reductions in future energy bills.

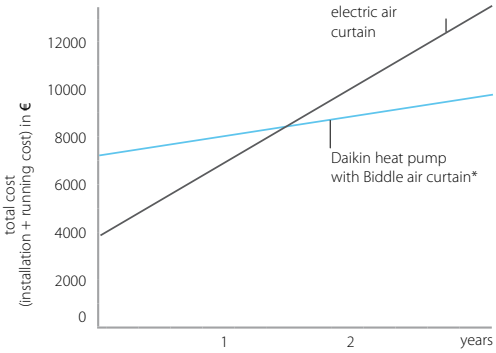
Comfort through patented technology

Customers and staff alike can enjoy maximum indoor comfort all year round, irrespective of external weather conditions resulting from the combined advanced rectifier technology and constant air velocity inherent in Biddle air curtains.

Easy installation

Easy and fast installation of these systems not only reduces costs but makes expensive water systems, boilers and gas connection redundant. Furthermore, integrating a Biddle air curtain with a Daikin VRV® also eliminates the need to install multiple outdoor units, thereby reducing installation time and costs still further. This unrivalled combination in fact, enables Daikin to offer its customers the ultimate, environmentally conscious, '**total solution' package,** comprising cooling, heating, outdoor-indoor climate separation and fresh air ventilation.





* Payback period and gains calculated based upon the following: Air curtain is 9hrs/day – 156 days/year (1,404 hrs/year) in use.
Annual energy consumption for an electric air curtain: 3,137EUR (COP = 0.95).
Typical installation cost: 1,000EUR;
Typical equipment cost: 2,793EUR.
Annual energy consumption for CYQS200DK100FBN and ERQ100AV: 748EUR (COP 4.00).
Typical installation cost: 2,000EUR;
Typical equipment cost: 5,150EUR.
Calculation based upon electricity cost: 0,1705EUR /kWh.

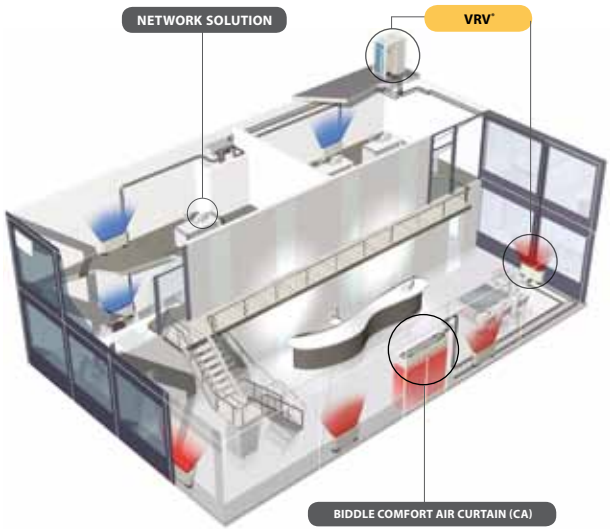
Which system offers me the best solution?

I need an air curtain and heating, and/or cooling, and/or ventilation

Integrate the Biddle air curtain in a total solution
for your shop, office building or other commercial space

VRV® heat recovery

- VRV® is among the first heat recovery systems suitable for connection to air curtains
- The most advanced and environmentally conscious method of separating outdoor and indoor climates on the market, offering a payback period of less than 1.5 years
- Provides virtually free air curtain heating via recovered heat from indoor units in cooling mode
- Easy and quick to install at reduced costs since no additional water systems, boilers and gas connections are required
- Connectable to the Biddle comfort air curtain



* VRV heat recovery in combination with Biddle comfort air curtain

VRV® heat pump

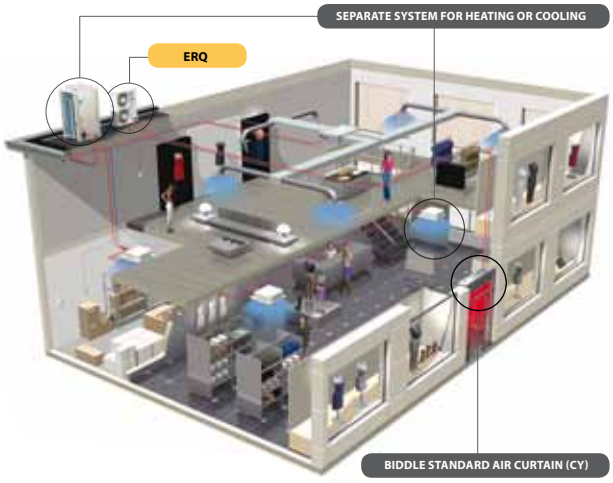
- VRV® is among the first heat pump systems suitable for connection to air curtains
- An efficient and economical method of separating outdoor and indoor climates, offering the well proven cost saving advantages inherent in VRV® heat pump technology and a payback period of less than 1.5 years
- Easy and quick to install at reduced costs since no additional water systems, boilers and gas connections are require
- Connectable to the Biddle comfort air curtain

I only need an air curtain

A solution for your commercial doorway,
connectable to ERQ (pair application)

ERQ heat pump

- A reliable and effective method of separating outdoor and indoor climates, offering a payback period of less than 1.5 years
- Easy and quick to install at reduced costs since no additional water systems, boilers and gas connections are required
- Connectable to the Biddle standard air curtain



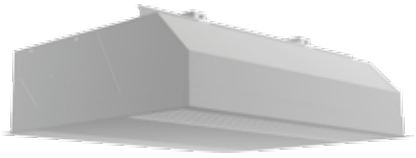
* ERQ in combination with Biddle standard air curtain
* heating or cooling can be provided by the Daikin commercial multi system

Which air curtain offers me the best solution?

Biddle air curtains come in comfort and standard versions, all of them in varying door widths from 1 up to 2.5 meters. Below you can find an overview of the different versions and available door heights.

Biddle comfort air curtain (CA)

Free Hanging (F)

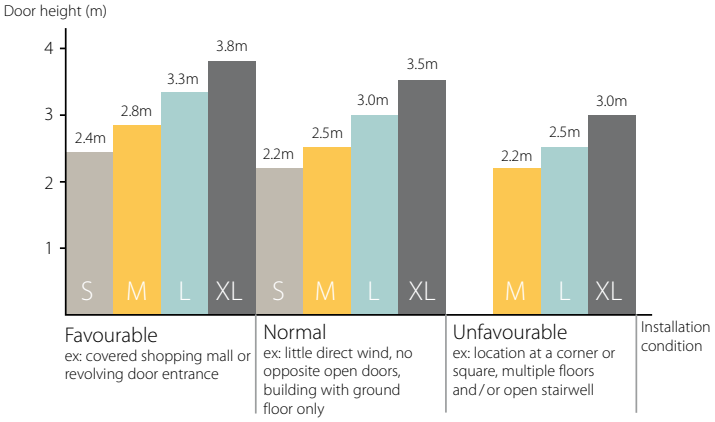


Cassette (C)

Recessed (C)

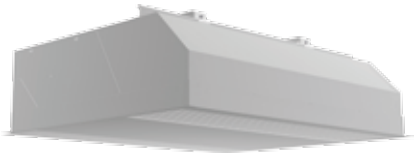
- All year round comfort ensured by the constant discharge velocity and adjustable jet air flow width (European patent)
- Maximum energy efficiency stemming from almost zero down flow turbulence, optimised air flow and the application of advanced discharge rectifier technology
- Around 85% air separation efficiency, greatly reducing both heat loss and required indoor unit heating capacity

Biddle comfort air curtain range



Biddle standard air curtain (CY)

Free Hanging (F)

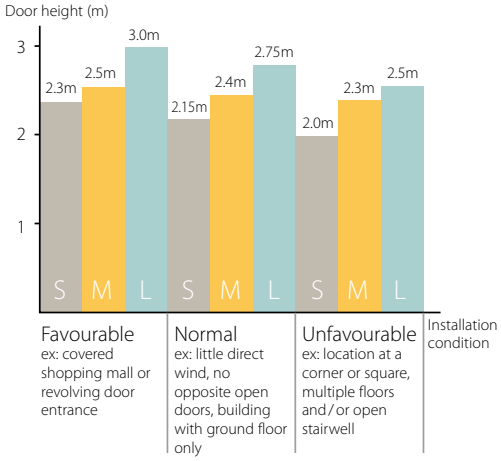


Cassette (C)

Recessed (C)

- 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

Biddle standard air curtain

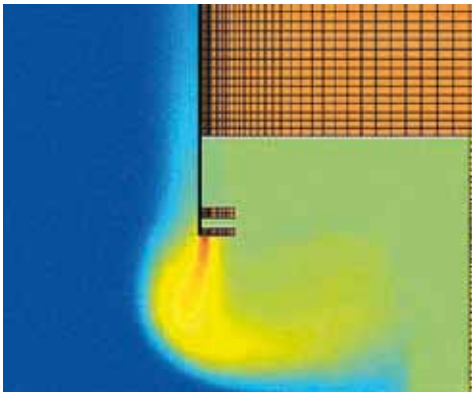


Advanced biddle air curtain technlologies

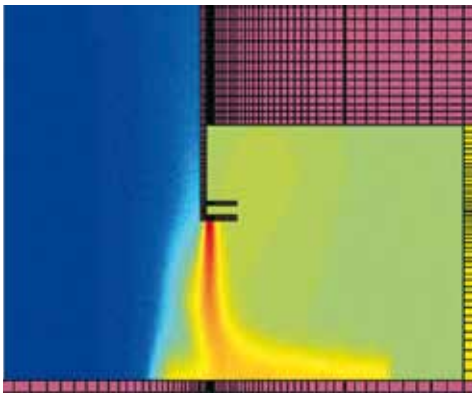
Rectifier technology

By reducing the air turbulence at the discharge of the Biddle air curtain, the induction of the surrounding air is also reduced, providing a deeply penetrating airstream. In addition the design of the rectifier provides a laminar air flow right down to floor level, reducing energy consumption and increasing comfort levels all year round.

Rectifier technology



Air curtain, with turbulent air stream and loss of airflow – low separation efficiency

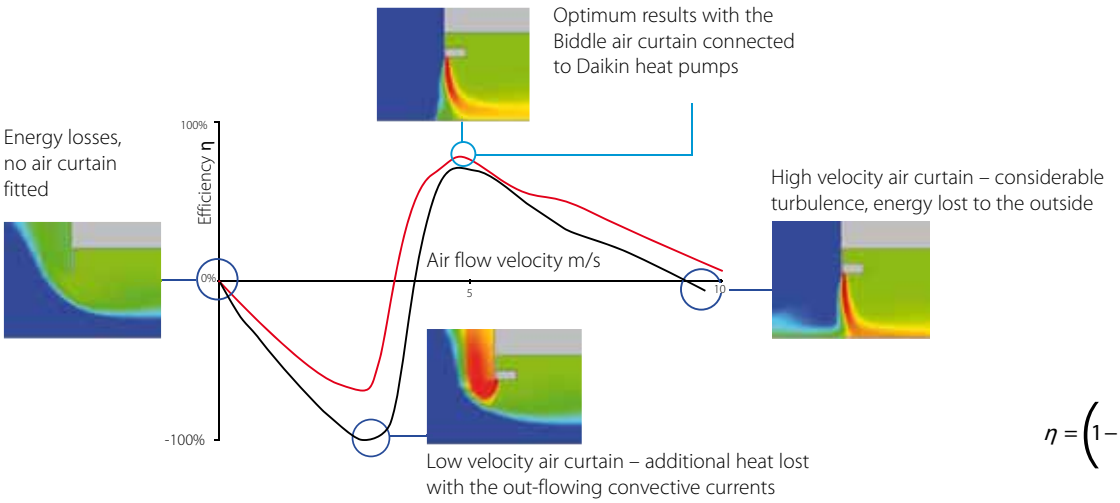


Biddle air curtain connected to Daikin heat pump with patented rectifier grille – separation efficiency up to 80-85%

- Laminar air flow stream – Minimizes air turbulence
- Top energy efficiency
- Improved penetration
- 80-85% separation efficiency

Optimised air flow velocity

The correct air flow velocity greatly improves the Biddle air curtain efficiency and when combined with the rectifier technology, results in high separation efficiencies (up to 80-85%).



$$\eta = \left(1 - \frac{Q_{\text{out, with air curtain}}}{Q_{\text{out, without air curtain}}}\right) \times 100\%$$

Biddle comfort air curtain connected to Daikin heat pumps

Other air curtain

Constant Air Velocity technology (european patent)*

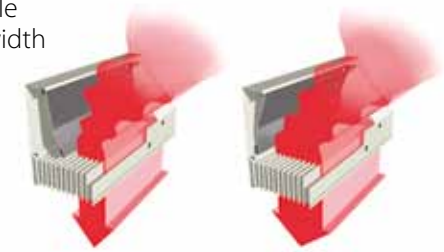
On more demanding days it is usual to increase the operational speed of the air curtain. Similarly on milder days the speed would be reduced. With air curtains featuring a fixed area discharge grille this leads to an increase or decrease in air velocity which, in turn leads to less comfort and lower energy efficiency.

One of the important differences between the Biddle comfort air curtain and other air curtains is the inclusion of a patented damper mechanism. This assembly helps maintain a constant velocity across all fan speeds, so the optimum air velocity for efficiency and thermal comfort is maintained regardless of the conditions outside.

› All year round comfort

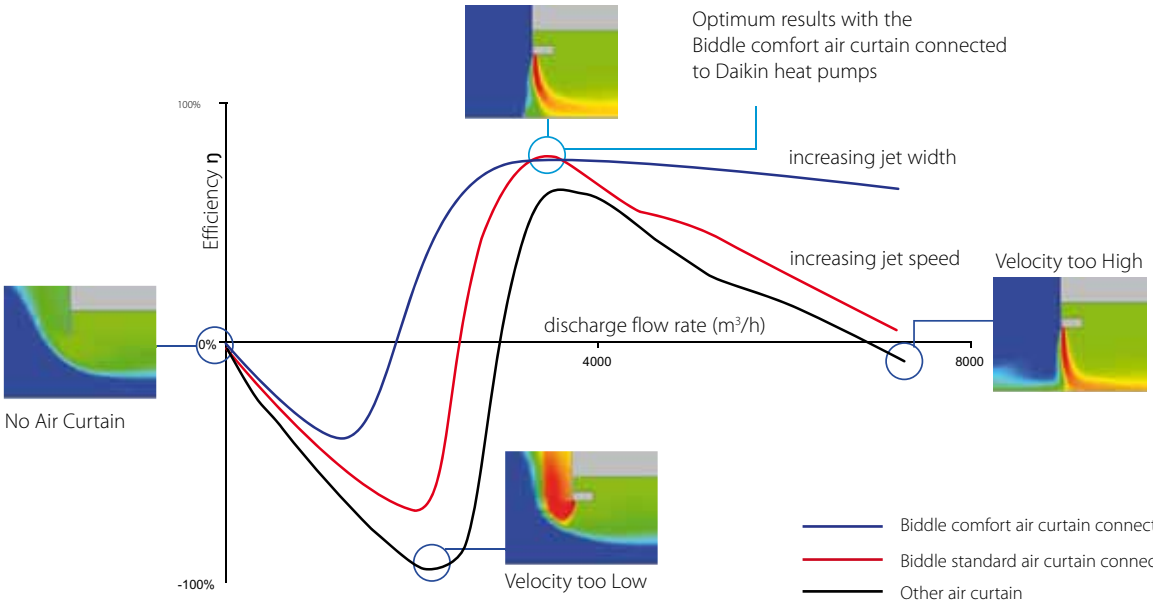
› 80-85% separation efficiency

Adjustable airflow width



Increased outlet width VS Increased air velocity *

The application of comfort air curtain technology generates a high separation efficiency compared to that of other air curtains, as the Biddle comfort air curtain increases the airstream outlet width, rather than increasing the velocity.



* Only available on Biddle comfort air curtains

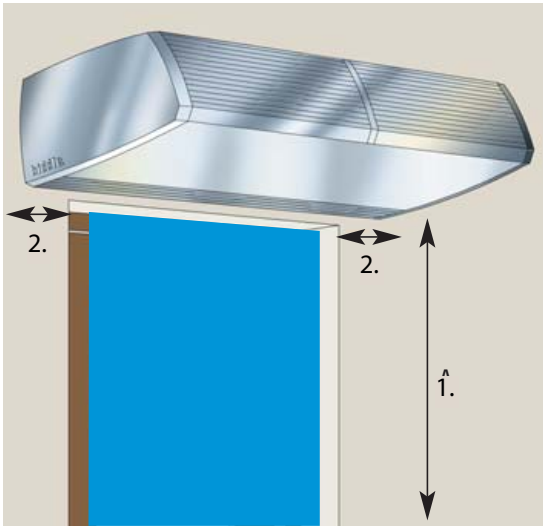
Selection of a Biddle Air Curtain

An air curtain is selected properly if it has sufficient capacity to heat up entering cold outside air to a comfortable temperature. Additionally, the unit must be able to properly screen off the entire width and height of the door opening. The air curtain type to be selected depends on:

1. The door height (= mounting height, measured from floor to bottom of unit)
2. The door width
3. The volume and temperature of the outside air entering through the open door

1. Door height and 2. Door width

It is important for the distance between the air curtain and the door to be as short as possible. In addition, the air curtain must be at least as wide as the door opening, as too narrow an air curtain will lead to air leakages on the sides.



Correct door height and width installation

› To prevent air leakages on the sides, the air curtain must be at least as wide as the door opening.

3. Entering cold air through natural ventilation

In practice, the volume and temperature of entering outside air are difficult to determine, as conditions near a door vary continuously. Other aspects, such as floors with open connections, multiple open doors in a single room, or the orientation of the building, may also have a large influence on the capacity need. To make selection easy, the following guidelines may be used:

- Favorable conditions: covered shopping mall or revolving-door entrance.
- Normal conditions: little direct wind, no opposite open doors, building with ground floor only.
- Unfavorable conditions: location at a corner or square, multiple floors and/or open stairwell.

* Contact your local dealer for more information

Strength of the air curtain not only determined by air displacement

It is commonly believed that a properly working air curtain should displace much air, but that is a misconception. The screening effect of an air curtain, which we call the air curtain strength, is determined by a proper mix of air velocity, air outlet temperature, and air stream width. The required air velocity is partly determined by the turbulence of the air stream. If the rectifier technology is used, the air stream will be practically laminar, and far less air will have to be displaced than with conventional air curtains. This does not only result in higher comfort but it also means that less capacity will be needed, and that the electrical power consumption will be lower as well. If an air curtain is too strong, however, the efficiency will fall because a part of the heat will escape, over the floor, to outside.

Two installation levels

To accurately gear the capacity to the prevailing conditions. Biddle comfort air curtains have the possibilty to set two different installation levels:

1. Installation level A: comfort setting
   The capacity is slightly limited for all strengths. The lower discharge velocity and the lower noise level result in even higher comfort. Model CA S does not offer installation level A.
2. Installation level B: standard setting
   This level is the standard setting, and is suitable for all conditions. At all strengths, more capacity is supplied than with installation level A.

Integrating your Biddle Air Curtain into a Daikin Heat Pump System

For connection to ERQ

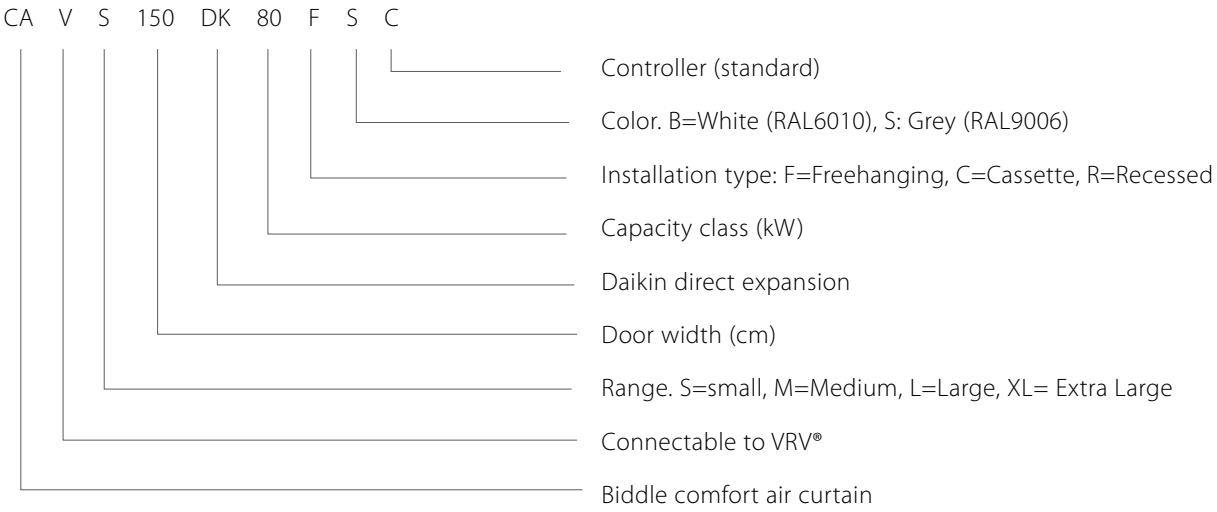
Your ERQ units capacity should be larger or equal to the capacity of the Biddle air curtain.
Ex.: CYQM100DK80FBN → ERQ100A7V1B

For connection to VRV®

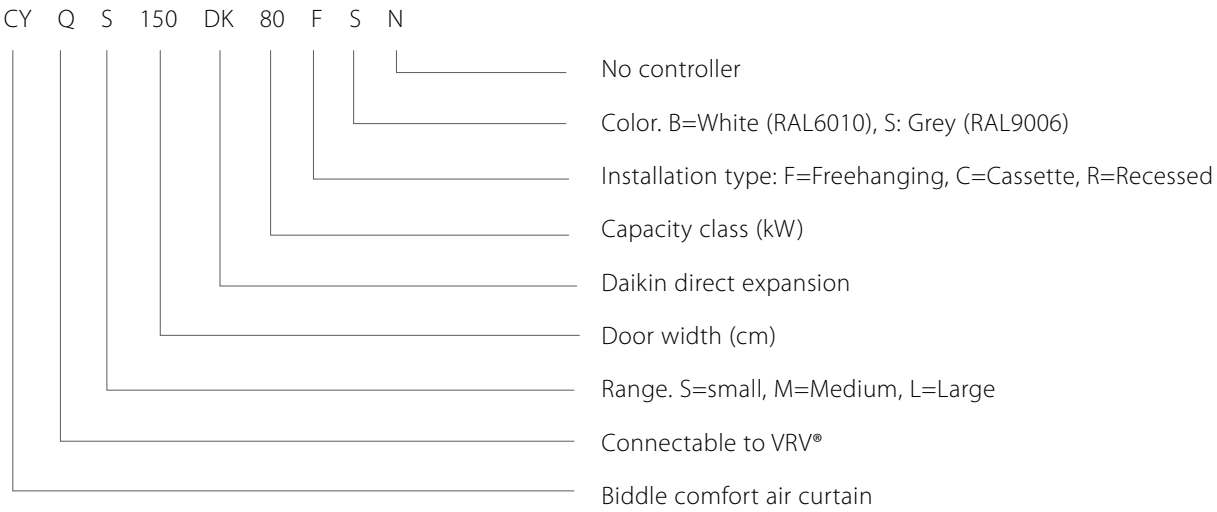
For selection of the VRV® outdoor unit handle the Biddle air curtain as a Daikin indoor unit and add the capacity to the total capacity of the other indoor units.
Then follow the VRV® outdoor unit selection.

* Contact your local dealer for more information

Biddle comfort air curtian nomenclature



Biddle standard air curtian nomenclature



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Biddle Comfort Air Curtain

1 Specifications

1 - 1 CAVS

1-1-1 Technical Specifications				CAVS100DK80*BC/*SC	CAVS150DK80*BC/*SC	CAVS200DK100*BC/*SC	CAVS250DK140*BC/*SC
Heating capacity	Installation level B	speed 1	kW	3.8	4.9	6.3	8.7
		speed 2	kW	3.8	4.9	6.3	8.7
		speed 3	kW	4.8	6.1	7.9	10.9
		speed 4	kW	6.0	7.5	9.7	13.3
		speed 5	kW	7.7	9.3	12.1	16.8
		speed 6	kW	7.7	9.3	12.1	16.8
Delta T	inlet = room temperature on installation level B	speed 1	K	23	20	20	21
		speed 2	K	23	20	20	21
		speed 3	K	22	19	18	20
		speed 4	K	20	17	16	18
		speed 5	K	18	15	14	16
		speed 6	K	18	15	14	16
Power Input (50Hz)	Fan only		kW	0.20	0.30	0.40	0.50
	Heating		kW	0.20	0.30	0.40	0.50
Maximum door width			m	1.0	1.5	2.0	2.5
Maximum door height	Favorable conditions		m	2.4	2.4	2.4	2.4
	Normal conditions		m	2.2	2.2	2.2	2.2
Dimensions	Height	Unit F	mm	270			
		Unit C	mm	270			
		Unit R	mm	270			
	Width	Unit F	mm	1,123	1,623	2,123	2,623
		Unit C	mm	1,000	1,500	2,000	2,500
		Unit R	mm	1,048	1,548	2,048	2,548
	Depth	Unit F	mm	590			
		Unit C	mm	821			
		Unit R	mm	561			
	Packed unit	Height F/C/R	mm	760			
		Width F/C/R	mm	1,630	1,630	2,130	2,630
		Depth F/C/R	mm	630	630	680	680
Weight	Unit F		kg	61	73	89	101
	Unit C		kg	59	83	102	129
	Unit R		kg	61	88	108	137
	Packed unit F		kg	78	89	122	154
	Packed unit C		kg	74	103	139	182
	Packed unit R		kg	76	108	145	190
Casing	Colour			BC:RAL9010 SC:RAL 9006	BC:RAL9010 SC:RAL 9006	BC:RAL9010 SC:RAL 9006	BC:RAL9010 SC:RAL 9006
	Material			Electrogalvanised sheet steel			
Required Ceiling Void			mm	420			
Fan - Air flow rate - Heating	Installation level B	speed 1	m³/h	490	740	990	1,240
		speed 2	m³/h	490	740	990	1,240
		speed 3	m³/h	670	1,000	1,340	1,670
		speed 4	m³/h	880	1,310	1,750	2,190
		speed 5	m³/h	1,230	1,850	2,470	3,080
		speed 6	m³/h	1,230	1,850	2,470	3,080
Refrigerant	Type			R-410A			
	Control			Electronic expansion valve			
Sound pressure - Heating	Installation level B	speed 1	dBA	30	32	33	34
		speed 2	dBA	30	32	33	34
		speed 3	dBA	36	38	39	40
		speed 4	dBA	42	44	45	46
		speed 5	dBA	50	52	53	54
		speed 6	dBA	50	52	53	54
Piping connections	Liquid (OD)	Diameter (OD)	mm	9.52	9.52	9.52	9.52
	Gas	Diameter (OD)	mm	16.0	16.0	16.0	19.0
Air Filter				Vacuum cleanable filter G1			
Required accessories				Daikin wired remote control (BRC1E51A or BRC1D52)			

1 Specifications

1 - 1 CAVS

1-1-1 Technical Specifications	CAVS100DK80*BC/*SC		CAVS150DK80*BC/*SC		CAVS200DK100*BC/*SC		CAVS250DK140*BC/*SC	
Standard accessories	Biddle remote control							
	BC: Side caps in pure white (RAL9010), size S/M	SC: Side caps in white aluminium (RAL9006), size S/M	BC: Side caps in pure white (RAL9010), size S/M	SC: Side caps in white aluminium (RAL9006), size S/M	BC: Side caps in pure white (RAL9010), size S/M	SC: Side caps in white aluminium (RAL9006), size S/M	BC: Side caps in pure white (RAL9010), size S/M	SC: Side caps in white aluminium (RAL9006), size S/M
	low voltage cable 1x25m + 2x5m							
	temperature sensor (NTC)							
Notes	Favorable conditions: covered shopping mall or revolving-door entrance. Normal conditions: little direct wind, no opposite open doors, building with ground floor only. Unfavorable conditions: location at a corner or square, multiple floors and/or open stairway.							
	Sound pressure level (at 3m)							
	Pipe work and electrical connections are on top of the unit							
	CA has installation level B as standard setting							

1-1-2 Electrical Specifications			CAVS100DK80*BC/*SC	CAVS150DK80*BC/*SC	CAVS200DK100*BC/*SC	CAVS250DK140*BC/*SC
Power Supply	Frequency	Hz	50			
	Voltage	V	230			
Voltage range	Min.	V	224			
	Max.	V	240			
Current (50Hz)	Maximum fuse amps (MFA)	A	16			
	Full load amps (FLA)	A	0.90	1.35	1.80	2.25

1 Specifications

1 - 2 CAVM

1-2-1 Technical Specifications				CAVM100DK80*BC/*SC	CAVM150DK80*BC/*SC	CAVM200DK100*BC/*SC	CAVM250DK140*BC/*SC
Heating capacity	Installation level B	speed 1	kW	5.3	6.7	8.6	11.8
		speed 2	kW	5.3	6.7	8.6	11.8
		speed 3	kW	6.1	7.5	9.7	13.4
		speed 4	kW	7.7	9.4	12.1	16.8
		speed 5	kW	8.9	10.6	13.7	19.3
		speed 6	kW	8.9	10.6	13.7	19.3
Delta T	inlet = room temperature on installation level B	speed 1	K	21	18	17	19
		speed 2	K	21	18	17	19
		speed 3	K	20	17	16	18
		speed 4	K	18	15	14	16
		speed 5	K	17	14	13	15
		speed 6	K	17	14	13	15
Power Input (50Hz)	Fan only		kW	0.28	0.42	0.56	0.70
	Heating		kW	0.28	0.42	0.56	0.70
Maximum door width			m	1.0	1.5	2.0	2.5
Maximum door height	Favorable conditions		m	2.8	2.8	2.8	2.8
	Normal conditions		m	2.5	2.5	2.5	2.5
	Unfavorable conditions		m	2.2	2.2	2.2	2.2
Dimensions	Height	Unit F	mm	270			
		Unit C	mm	270			
		Unit R	mm	270			
	Width	Unit F	mm	1,123	1,623	2,123	2,623
		Unit C	mm	1,000	1,500	2,000	2,500
		Unit R	mm	1,048	1,548	2,048	2,548
	Depth	Unit F	mm	590			
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		Unit R	mm	561			
	Packed unit	Height F/C/R	mm	760			
		Width F/C/R	mm	1,630	1,630	2,130	2,630
		Depth F/C/R	mm	630	630	680	680
Weight	Unit F		kg	66	79	97	119
	Unit C		kg	68	88	111	136
	Unit R		kg	66	93	117	144
	Packed unit F		kg	82	96	130	157
	Packed unit C		kg	84	108	148	189
	Packed unit R		kg	81	113	154	197
Casing	Colour			BC:RAL9010 / SC:RAL 9006	BC:RAL9010 / SC:RAL 9006	BC:RAL9010 / SC:RAL 9006	BC:RAL9010 / SC:RAL 9006
	Material			Electrogalvanised sheet steel			
Required Ceiling Void			mm	420	420	420	420
Fan - Air flow rate - Heating	Installation level A	speed 1	m³/h	530	800	1,070	1,330
		speed 2	m³/h	530	800	1,070	1,330
		speed 3	m³/h	750	1,120	1,490	1,870
		speed 4	m³/h	890	1,330	1,770	2,220
		speed 5	m³/h	1,230	1,840	2,450	3,060
		speed 6	m³/h	1,230	1,840	2,450	3,060
	Installation level B	speed 1	m³/h	750	1,120	1,490	1,870
		speed 2	m³/h	750	1,120	1,490	1,870
		speed 3	m³/h	890	1,330	1,770	2,215
		speed 4	m³/h	1,230	1,840	2,450	3,060
		speed 5	m³/h	1,530	2,290	3,050	3,810
		speed 6	m³/h	1,530	2,290	3,050	3,810
Refrigerant	Type			R-410A			
	Control			Electronic expansion valve			

1 Specifications

1 - 2 CAVM

1-2-1 Technical Specifications				CAVM100DK80*BC/*SC	CAVM150DK80*BC/*SC	CAVM200DK100*BC/*SC	CAVM250DK140*BC/*SC
Sound pressure - Heating	Installation level A	speed 1	dBA	25	27	28	29
		speed 2	dBA	25	27	28	29
		speed 3	dBA	32	34	35	36
		speed 4	dBA	37	39	40	41
		speed 5	dBA	45	47	48	49
		speed 6	dBA	45	47	48	49
	Installation level B	speed 1	dBA	33	35	36	37
		speed 2	dBA	33	35	36	37
		speed 3	dBA	37	39	40	41
		speed 4	dBA	45	47	48	49
		speed 5	dBA	51	53	54	55
		speed 6	dBA	51	53	54	55
Piping connections	Liquid (OD)	Diameter (OD)	mm	9.52	9.52	9.52	9.52
	Gas	Diameter (OD)	mm	16.0	16.0	16.0	19.0
Air Filter				Vacuum cleanable filter G1			
Required accessories				Daikin wired remote control (BRC1E51A or BRC1D52)			
Standard accessories				Biddle remote control			
				BC: Side caps in pure white (RAL9010), size S/M	SC: Side caps in white aluminium (RAL9006), size S/M	BC: Side caps in pure white (RAL9010), size S/M	SC: Side caps in white aluminium (RAL9006), size S/M
				BC: Side caps in pure white (RAL9010), size S/M	SC: Side caps in white aluminium (RAL9006), size S/M	BC: Side caps in pure white (RAL9010), size S/M	SC: Side caps in white aluminium (RAL9006), size S/M
				low voltage cable 1x25m + 2x5m			
				temperature sensor (NTC)			
Notes				Favorable conditions: covered shopping mall or revolving-door entrance. Normal conditions: little direct wind, no opposite open doors, building with ground floor only. Unfavorable conditions: location at a corner or square, multiple floors and/or open stairway.			
				Sound pressure level (at 3m)			
				Pipe work and electrical connections are on top of the unit			
				CA has installation level B as standard setting			

1-2-2 Electrical Specifications			CAVM100DK80*BC/*SC	CAVM150DK80*BC/*SC	CAVM200DK100*BC/*SC	CAVM250DK140*BC/*SC
Power Supply	Frequency	Hz	50			
	Voltage	V	230			
Voltage range	Min.	V	224			
	Max.	V	240			
Current (50Hz)	Maximum fuse amps (MFA)	A	16			
	Full load amps (FLA)	A	1.24	1.86	2.48	3.10

1 Specifications

1 - 3 CAVL

1-3-1 Technical Specifications				CAVL100DK125*BC/*SC	CAVL150DK200*BC/*SC	CAVL200DK250*BC/*SC	CAVL250DK250*BC/*SC
Heating capacity	Installation level B	speed 1	kW	8.7	13.1	16.9	18.6
		speed 2	kW	8.7	13.1	16.9	18.6
		speed 3	kW	10.6	15.9	20.3	22.1
		speed 4	kW	12.5	18.8	24.0	25.8
		speed 5	kW	15.3	22.8	28.8	30.5
		speed 6	kW	15.3	22.8	28.8	30.5
Delta T	Inlet = room temperature on installation level B	speed 1	K	20	20	19	17
		speed 2	K	20	20	19	17
		speed 3	K	18	18	18	15
		speed 4	K	17	17	16	14
		speed 5	K	15	15	14	12
		speed 6	K	15	15	14	12
Power Input (50Hz)	Fan only		kW	0.75	1.13	1.50	1.88
	Heating		kW	0.75	1.13	1.50	1.88
Maximum door width			m	1.0	1.5	2.0	2.5
Maximum door height	Favorable conditions		m	3.3	3.3	3.3	3.3
	Normal conditions		m	3.0	3.0	3.0	3.0
	Unfavorable conditions		m	2.5	2.5	2.5	2.5
Dimensions	Height	Unit F	mm	370			
		Unit C	mm	370			
		Unit R	mm	370			
	Width	Unit F	mm	1,123	1,623	2,123	2,623
		Unit C	mm	1,000	1,500	2,000	2,500
		Unit R	mm	1,048	1,548	2,048	2,548
	Depth	Unit F	mm	774			
		Unit C	mm	1,105			
		Unit R	mm	745			
	Packed unit	Height C	mm	1,140			
		Height F/R	mm	990			
		Width F/C/R	mm	1,630	1,630	2,130	2,630
		Depth F/C/R	mm	630	630	680	680
Weight	Unit F		kg	83	108	137	166
	Unit C		kg	81	118	151	190
	Unit R		kg	83	141	155	196
	Packed unit F		kg	100	124	169	204
	Packed unit C		kg	100	143	195	252
	Packed unit R		kg	99	162	193	250
Casing	Colour			BC:RAL9010 / SC:RAL 9006	BC:RAL9010 / SC:RAL 9006	BC:RAL9010 / SC:RAL 9006	BC:RAL9010 / SC:RAL 9006
	Material			Electrogalvanised sheet steel			
Required Ceiling Void			mm	520			
Fan - Air flow rate - Heating	Installation level A	speed 1	m³/h	1,020	1,530	2,030	2,540
		speed 2	m³/h	1,020	1,530	2,030	2,540
		speed 3	m³/h	1,330	2,000	2,670	3,330
		speed 4	m³/h	1,730	2,600	3,470	4,340
		speed 5	m³/h	2,210	3,320	4,430	5,530
		speed 6	m³/h	2,210	3,320	4,430	5,530
	Installation level B	speed 1	m³/h	1,330	2,000	2,670	3,330
		speed 2	m³/h	1,330	2,000	2,670	3,330
		speed 3	m³/h	1,730	2,600	3,470	4,340
		speed 4	m³/h	2,210	3,320	4,430	5,530
		speed 5	m³/h	2,990	4,490	5,980	7,480
		speed 6	m³/h	2,990	4,490	5,980	7,480
Refrigerant	Type			R-410A			
	Control			Electronic expansion valve			

1 Specifications

1 - 3 CAVL

1-3-1 Technical Specifications				CAVL100DK125*BC/*SC	CAVL150DK200*BC/*SC	CAVL200DK250*BC/*SC	CAVL250DK250*BC/*SC
Sound pressure - Heating	Installation level A	speed 1	dBA	37	38	40	41
		speed 2	dBA	37	38	40	41
		speed 3	dBA	40	42	43	44
		speed 4	dBA	45	47	48	49
		speed 5	dBA	50	52	53	54
		speed 6	dBA	50	52	53	54
	Installation level B	speed 1	dBA	42	44	45	46
		speed 2	dBA	42	44	45	46
		speed 3	dBA	46	48	49	50
		speed 4	dBA	51	53	54	55
		speed 5	dBA	57	59	60	61
		speed 6	dBA	57	59	60	61
Piping connections	Liquid (OD)	Diameter (OD)	mm	9.52	9.52	9.52	9.52
	Gas	Diameter (OD)	mm	16.0	19.0	22.0	22.0
Air Filter				Vacuum cleanable filter G1			
Required accessories				Daikin wired remote control (BRC1E51A or BRC1D52)			
Standard accessories				Biddle remote control			
				BC: Side caps in pure white (RAL9010), size L/XL	SC: Side caps in white aluminium (RAL9006), size L/XL	BC: Side caps in pure white (RAL9010), size L/XL	SC: Side caps in white aluminium (RAL9006), size L/XL
				BC: Side caps in pure white (RAL9010), size L/XL	SC: Side caps in white aluminium (RAL9006), size L/XL	BC: Side caps in pure white (RAL9010), size L/XL	SC: Side caps in white aluminium (RAL9006), size L/XL
				low voltage cable 1x25m + 2x5m			
				temperature sensor (NTC)			
Notes				Favorable conditions: covered shopping mall or revolving-door entrance. Normal conditions: little direct wind, no opposite open doors, building with ground floor only. Unfavorable conditions: location at a corner or square, multiple floors and/or open stairway.			
				Pipe work and electrical connections are on top of the unit			
				Sound pressure level (at 3m)			
				CA has installation level B as standard setting			

1-3-2 Electrical Specifications			CAVL100DK125*BC/*SC	CAVL150DK200*BC/*SC	CAVL200DK250*BC/*SC	CAVL250DK250*BC/*SC
Power Supply	Frequency	Hz	50			
	Voltage	V	230			
Voltage range	Min.	V	224			
	Max.	V	240			
Current (50Hz)	Maximum fuse amps (MFA)	A	16			
	Full load amps (FLA)	A	3.30	4.95	6.60	8.25

1 Specifications

1 - 4 CAVXL

1-4-1 Technical Specifications				CAVXL100DK125*BC/*SC	CAVXL150DK200*BC/*SC	CAVXL200DK250*BC/*SC	CAVXL250DK250*BC/*SC
Heating capacity	Installation level B	speed 1	kW	10.0	15.1	19.3	21.1
		speed 2	kW	10.0	15.1	19.3	21.1
		speed 3	kW	12.3	18.6	23.6	25.4
		speed 4	kW	14.7	22.0	27.8	29.6
		speed 5	kW	17.2	25.7	32.2	33.8
		speed 6	kW	17.2	25.7	32.2	33.8
Delta T	inlet = room temperature on installation level B	speed 1	K	19	19	18	16
		speed 2	K	19	19	18	16
		speed 3	K	17	17	16	14
		speed 4	K	15	15	15	12
		speed 5	K	14	14	13	11
		speed 6	K	14	14	13	11
Power Input (50Hz)	Fan only		kW	1.40	2.10	2.80	3.50
	Heating		kW	1.40	2.10	2.80	3.50
Maximum door width			m	1.0	1.5	2.0	2.5
Maximum door height	Favorable conditions		m	3.8			
	Normal conditions		m	3.5			
	Unfavorable conditions		m	3.0			
Dimensions	Height	Unit F	mm	370			
		Unit C	mm	370			
		Unit R	mm	370			
	Width	Unit F	mm	1,123	1,623	2,123	2,623
		Unit C	mm	1,000	1,500	2,000	2,500
		Unit R	mm	1,048	1,548	2,048	2,548
	Depth	Unit F	mm	774			
		Unit C	mm	1,105			
		Unit R	mm	745			
	Packed unit F/C/R	Height C	mm	1,410			
		Height F/R	mm	990			
		Width F/C/R	mm	1,630	1,630	2,130	2,630
		Depth F/C/R	mm	630	630	680	680
Weight	Unit F		kg	69	102	130	162
	Unit C		kg	84	123	160	198
	Unit R		kg	86	146	164	204
	Packed unit F		kg	85	123	168	216
	Packed unit C		kg	103	148	204	260
	Packed unit R		kg	102	167	202	258
Casing	Colour			BC:RAL9010 / SC:RAL 9006	BC:RAL9010 / SC:RAL 9006	BC:RAL9010 / SC:RAL 9006	BC:RAL9010 / SC:RAL 9006
	Material			Electrogalvanised sheet steel			
Required Ceiling Void			mm	520			
Fan - Air flow rate - Heating	Installation level A	speed 1	m³/h	1,300	1,950	2,600	3,250
		speed 2	m³/h	1,300	1,950	2,600	3,250
		speed 3	m³/h	1,610	2,420	3,230	4,030
		speed 4	m³/h	2,160	3,250	4,330	5,410
		speed 5	m³/h	2,800	4,190	5,590	6,990
		speed 6	m³/h	2,800	4,190	5,590	6,990
	Installation level B	speed 1	m³/h	1,610	2,420	3,230	4,030
		speed 2	m³/h	1,610	2,420	3,230	4,030
		speed 3	m³/h	2,160	3,250	4,330	5,410
		speed 4	m³/h	2,800	4,190	5,590	6,990
		speed 5	m³/h	3,650	5,480	7,310	9,130
		speed 6	m³/h	3,650	5,480	7,310	9,130
Refrigerant	Type			R-410A			
	Control			Electronic expansion valve			

1 Specifications

1 - 4 CAVXL

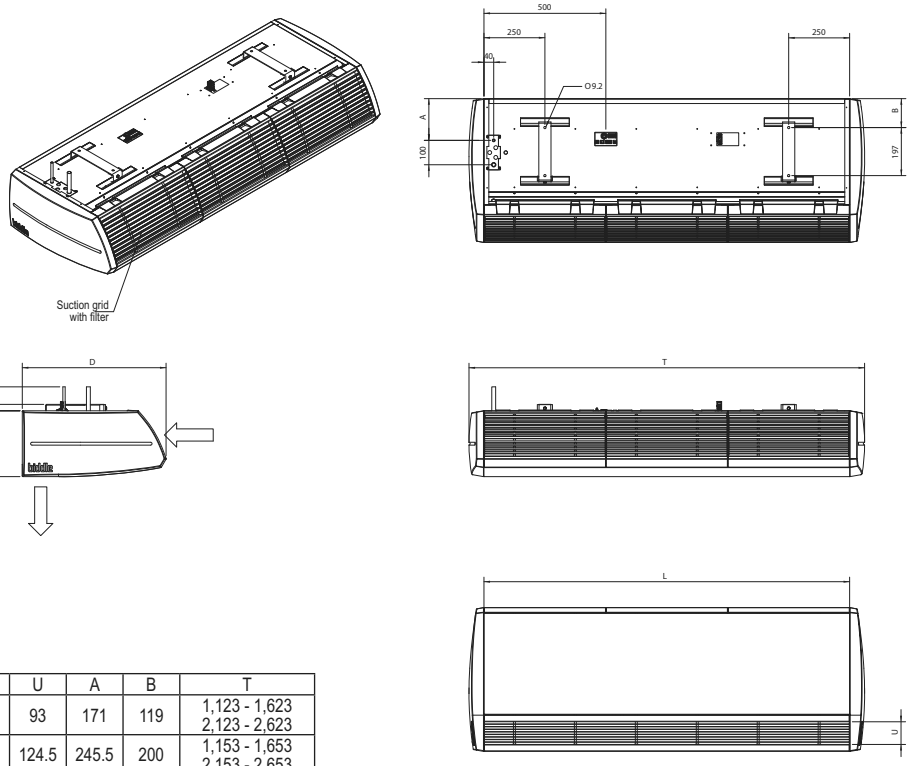
1-4-1 Technical Specifications				CAVXL100DK125*BC/*SC	CAVXL150DK200*BC/*SC	CAVXL200DK250*BC/*SC	CAVXL250DK250*BC/*SC
Sound pressure - Heating	Installation level A	speed 1	dBA	42	44	45	46
		speed 2	dBA	42	44	45	46
		speed 3	dBA	46	48	49	50
		speed 4	dBA	51	53	54	55
		speed 5	dBA	56	58	59	60
		speed 6	dBA	56	58	59	60
	Installation level B	speed 1	dBA	47	49	50	51
		speed 2	dBA	47	49	50	51
		speed 3	dBA	52	53	55	56
		speed 4	dBA	56	58	59	60
		speed 5	dBA	61	63	64	65
		speed 6	dBA	61	63	64	65
Piping connections	Liquid (OD)	Diameter (OD)	mm	9.52	9.52	9.52	9.52
	Gas	Diameter (OD)	mm	16.0	19.0	22.0	22.0
Air Filter				Vacuum cleanable filter G1			
Required accessories				Daikin wired remote control (BRC1E51A or BRC1D52)			
Standard accessories				Biddle remote control			
				BC: Side caps in pure white (RAL9010), size L/XL	SC: Side caps in white aluminium (RAL9006), size L/XL	BC: Side caps in pure white (RAL9010), size L/XL	SC: Side caps in white aluminium (RAL9006), size L/XL
				BC: Side caps in pure white (RAL9010), size L/XL	SC: Side caps in white aluminium (RAL9006), size L/XL	BC: Side caps in pure white (RAL9010), size L/XL	SC: Side caps in white aluminium (RAL9006), size L/XL
				low voltage cable 1x25m + 2x5m			
				temperature sensor (NTC)			
Notes				Favorable conditions: covered shopping mall or revolving-door entrance. Normal conditions: little direct wind, no opposite open doors, building with ground floor only. Unfavorable conditions: location at a corner or square, multiple floors and/or open stairway.			
				Pipe work and electrical connections are on top of the unit			
				Sound pressure level (at 3m)			
				CA has installation level B as standard setting			

1-4-2 Electrical Specifications			CAVXL100DK125*BC/*SC	CAVXL150DK200*BC/*SC	CAVXL200DK250*BC/*SC	CAVXL250DK250*BC/*SC
Power Supply	Frequency	Hz	50			
	Voltage	V	230			
Voltage range	Min.	V	224			
	Max.	V	240			
Current (50Hz)	Maximum fuse amps (MFA)	A	16			
	Full load amps (FLA)	A	6.10	9.15	12.20	15.30

2 Dimensional drawing & centre of gravity

2 - 1 Free hanging

CAVS-DK-FBC/FSC
CAVM-DK-FBC/FSC
CAVL-DK-FBC/FSC
CAVXL-DK-FBC/FSC



Type	L	H	D	U	A	B	T
CAVS-DK-FBC/FSC CAVM-DK-FBC/FSC	1,000 - 1,500 2,000 - 2,500	270	590	93	171	119	1,123 - 1,623 2,123 - 2,623
CAVL-DK-FBC/FSC CAVXL-DK-FBC/FSC	1,000 - 1,500 2,000 - 2,500	370	774	124.5	245.5	200	1,153 - 1,653 2,153 - 2,653

CU0951X-000

REMARKS

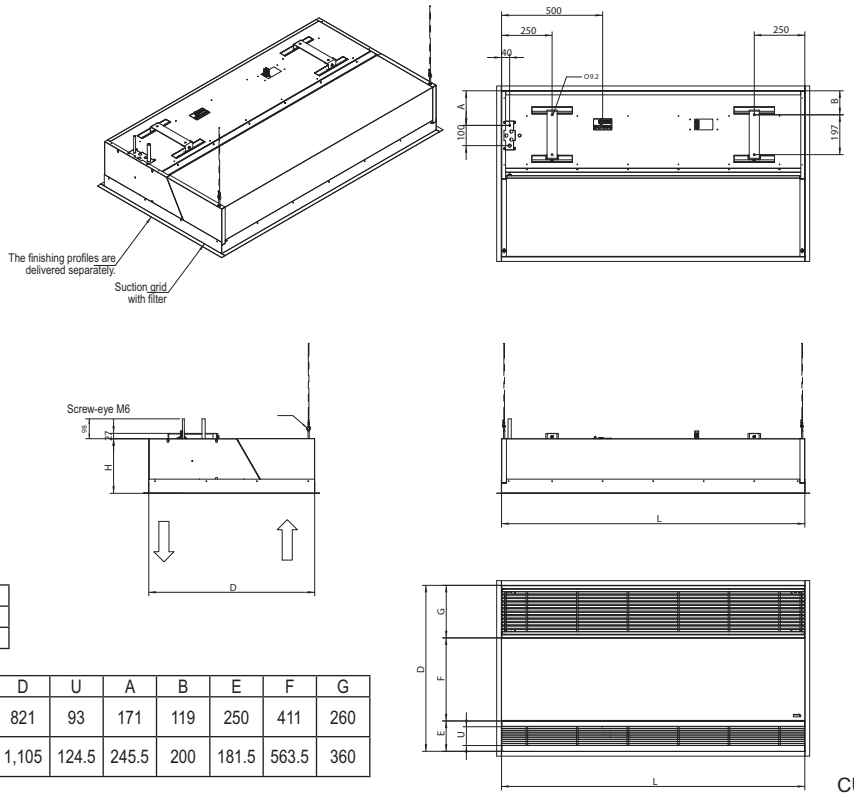
1 The 2,500mm large devices have 3 suspension brackets, where the third bracket is mounted at half the length of the device.

2 The mounting holes for finishing profiles in a lowered ceiling (L+8) x (D+8) mm

2 Dimensional drawing & centre of gravity

2 - 2 Cassette

CAVS-DK-CBC/CSC
CAVM-DK-CBC/CSC
CAVL-DK-CBC/CSC
CAVXL-DK-CBC/CSC



Number of suction grids per device

Device length	Number	Suction grid length
1000 / 1500	1	1,000 / 1,500
2000 / 2500	2	1,000 / 1,250

*1 drain grid per device

Type	L	H	D	U	A	B	E	F	G
CAVS-DK-CBC/CSC CAVM-DK-CBC/CSC	1,000 - 1,500 2,000 - 2,500	270	821	93	171	119	250	411	260
CAVL-DK-CBC/CSC CAVXL-DK-CBC/CSC	1,000 - 1,500 2,000 - 2,500	370	1,105	124.5	245.5	200	181.5	563.5	360

CU0952X-000

REMARKS

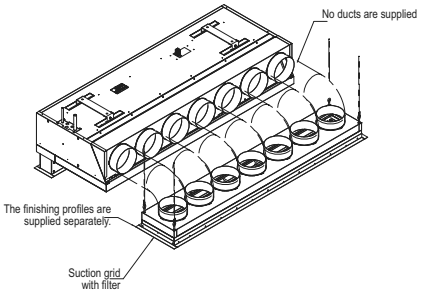
1 The 2,500mm large devices have 3 suspension brackets, where the third bracket is mounted at half the length of the device.

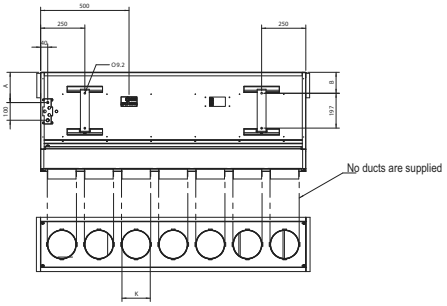
2 The mounting holes for finishing profiles in a lowered ceiling (L+8) x (D+8) mm

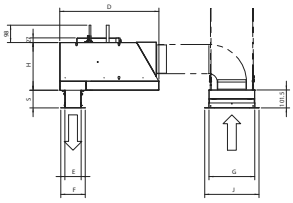
2 Dimensional drawing & centre of gravity

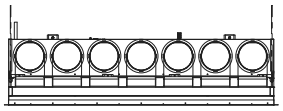
2 - 3 Recessed

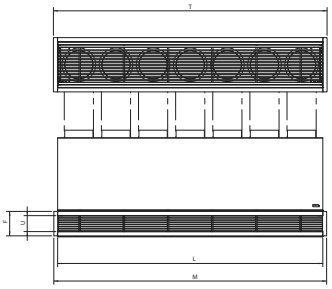
CAVS-DK-RBC/RSC
CAVM-DK-RBC/RSC
CAVL-DK-RBC/RSC
CAVXL-DK-RBC/RSC











Number of ducts per device

Type	1000	1500	2000	2500
CAVS-DK-RBC/RSC CAVM-DK-RBC/RSC	5	7	10	12
CAVL-DK-RBC/RSC CAVXL-DK-RBC/RSC	3	5	6	8

Number of suction grids per device

Device length	Number	Suction grid length
1000 / 1500	1	1,000 / 1,500
2000 / 2500	2	1,000 / 1,250

*1 drain grid per device

Type	L	H	D	S	U	A	B	E	F	G
CAVS-DK-RBC/RSC CAVM-DK-RBC/RSC	1,000 - 1,500 2,000 - 2,500	270	561	80-125	90	171	119	92	139	260
CAVL-DK-RBC/RSC CAVXL-DK-RBC/RSC	1,000 - 1,500 2,000 - 2,500	370	745	80-125	121.5	245.5	200	123.5	170	360

CU0953X-000

REMARKS

1 The 2,500mm large devices have 3 suspension brackets, where the third bracket is mounted at half the length of the device.

2 The mounting holes for finishing profiles in a lowered ceiling (L+8) x (D+8) mm

TABLE OF CONTENTS

Biddle Standard Air Curtain

1 Specifications

1 - 1 CYQS

1-1-1 Technical Specifications				CYQS150DK80*BN/*SN	CYQS200DK100*BN/*SN	CYQS250DK140*BN/*SN
Heating capacity	Installation level B	speed 2	kW	7.1	9.2	12.7
		speed 3	kW	9.0	11.6	16.2
Delta T	inlet = room temperature	speed 2	K	17	17	18
		speed 3	K	15	15	16
Power Input (50Hz)	Fan only		kW	0.35	0.46	0.58
	Heating		kW	0.35	0.46	0.58
Maximum door width			m	1.5	2.0	2.5
Maximum door height	Favorable conditions		m	2.3		
	Normal conditions		m	2.15		
	Unfavorable conditions		m	2.0		
Dimensions	Height	Unit F	mm	270		
		Unit C	mm	270		
		Unit R	mm	270		
	Width	Unit F	mm	1,500	2,000	2,500
		Unit C	mm	1,500	2,000	2,500
		Unit R	mm	1,548	2,048	2,548
	Depth	Unit F	mm	590		
		Unit C	mm	821		
		Unit R	mm	561		
	Packed unit	Height	mm	760		
		Width	mm	1,630	2,130	2,630
		Depth	mm	630	680	680
Weight	Unit F		kg	66	83	107
	Unit C		kg	83	102	129
	Unit R		kg	88	108	137
	Packed unit F		kg	83	115	145
	Packed unit C		kg	103	139	182
	Packed unit R		kg	108	145	190
Casing	Colour			BN:RAL9010 / SN:RAL 9006	BN:RAL9010 / SN:RAL 9006	BN:RAL9010 / SN:RAL 9006
	Material			Electrogalvanised sheet steel		
Required Ceiling Void			mm	420		
Fan - Air flow rate - Heating	Installation level B	speed 2	m³/h	1,235	1,646	2,058
		speed 3	m³/h	1,746	2,328	2,910
Refrigerant	Type			R-410A		
	Control			Electronic expansion valve		
Sound pressure level - Heating	Installation level B	speed 2	dBA	39	40	41
		speed 3	dBA	49	50	51
Piping connections	Liquid (OD)	Diameter (OD)	mm	9.52		
	Gas	Diameter (OD)	mm	16.0	16.0	19.0
Air Filter				Vacuum cleanable filter G1		
Required accessories				Daikin wired remote control (BRC1E51A or BRC1D52)		
Notes				Favorable conditions: covered shopping mall or revolving-door entrance. Normal conditions: little direct wind, no opposite open doors, building with ground floor only. Unfavorable conditions: location at a corner or square, multiple floors and/or open stairway.		
				Pipe work and electrical connections are on top of the unit		
				Sound pressure level (at 3m)		
				Installation level B: standard setting, refer to the databook or installation manual for more information (only one installation level available)		

1-1-2 Electrical Specifications			CYQS150DK80*BN/*SN	CYQS200DK100*BN/*SN	CYQS250DK140*BN/*SN
Power Supply	Frequency	Hz	50		
	Voltage	V	230		
Voltage range	Min.	V	224		
	Max.	V	240		
Current (50Hz)	Maximum fuse amps (MFA)	A	16		
	Full load amps (FLA)	A	1.26	1.68	2.10

1 Specifications

1 - 2 CYQM

1-2-1 Technical Specifications				CYQM100DK80*BN/*SN	CYQM150DK80*BN/*SN	CYQM200DK100*BN/*SN	CYQM250DK140*BN/*SN
Heating capacity	Installation level B	speed 2	kW	7.7	9.3	12.1	16.8
		speed 3	kW	9.2	11.0	13.4	19.9
Delta T	inlet = room temperature	speed 2	K	19	15	14	16
		speed 3	K	17	14	13	15
Power Input (50Hz)	Fan only		kW	0.37	0.56	0.75	0.94
	Heating		kW	0.37	0.56	0.75	0.94
Maximum door width			m	1.0	1.5	2.0	2.5
Maximum door height	Favorable conditions		m	2.5			
	Normal conditions		m	2.4			
	Unfavorable conditions		m	2.3			
Dimensions	Height	Unit F	mm	270			
		Unit C	mm	270			
		Unit R	mm	270			
	Width	Unit F	mm	1,000	1,500	2,000	2,500
		Unit C	mm	1,000	1,500	2,000	2,500
		Unit R	mm	1,048	1,548	2,048	2,548
	Depth	Unit F	mm	590			
		Unit C	mm	821			
		Unit R	mm	561			
	Packed unit F/C/R	Height C	mm	760			
		Height F/R	mm	760			
		Width F/C/R	mm	1,630	1,630	2,130	2,630
		Depth F/C/R	mm	630	630	680	680
Weight	Unit F		kg	57	73	94	108
	Unit C		kg	68	88	111	136
	Unit R		kg	66	93	117	144
	Packed unit F		kg	73	90	126	161
	Packed unit C		kg	84	108	148	189
	Packed unit R		kg	81	113	154	197
Casing	Colour			BN:RAL9010 / SN:RAL 9006	BN:RAL9010 / SN:RAL 9006	BN:RAL9010 / SN:RAL 9006	BN:RAL9010 / SN:RAL 9006
	Material			Electrogalvanised sheet steel			
Required Ceiling Void			mm	420			
Fan - Air flow rate - Heating	Installation level B	speed 2	m³/h	1,223	1,835	2,446	3,058
		speed 3	m³/h	1,605	2,408	3,210	4,013
Refrigerant	Type			R-410A			
	Control			Electronic expansion valve			
Sound pressure level - Heating	Installation level B	speed 2	dBA	44	46	47	48
		speed 3	dBA	50	51	53	54
Piping connections	Liquid (OD)	Diameter (OD)	mm	9.52			
	Gas	Diameter (OD)	mm	16.0	16.0	16.0	19.0
Air Filter				Vacuum cleanable filter G1			
Required accessories				Daikin wired remote control (BRC1E51A or BRC1D52)			
Notes				Favorable conditions: covered shopping mall or revolving-door entrance. Normal conditions: little direct wind, no opposite open doors, building with ground floor only. Unfavorable conditions: location at a corner or square, multiple floors and/or open stairway.			
				Pipe work and electrical connections are on top of the unit			
				Sound pressure level (at 3m)			
				Installation level B: standard setting, refer to the databook or installation manual for more information (only one installation level available)			

1-2-2 Electrical Specifications			CYQM100DK80*BN/*SN	CYQM150DK80*BN/*SN	CYQM200DK100*BN/*SN	CYQM250DK140*BN/*SN
Power Supply	Frequency	Hz	50			
	Voltage	V	230			
Voltage range	Min.	V	224			
	Max.	V	240			
Current (50Hz)	Maximum fuse amps (MFA)	A	16			
	Full load amps (FLA)	A	1.64	2.46	3.28	4.10

1 Specifications

1 - 3 CYQL

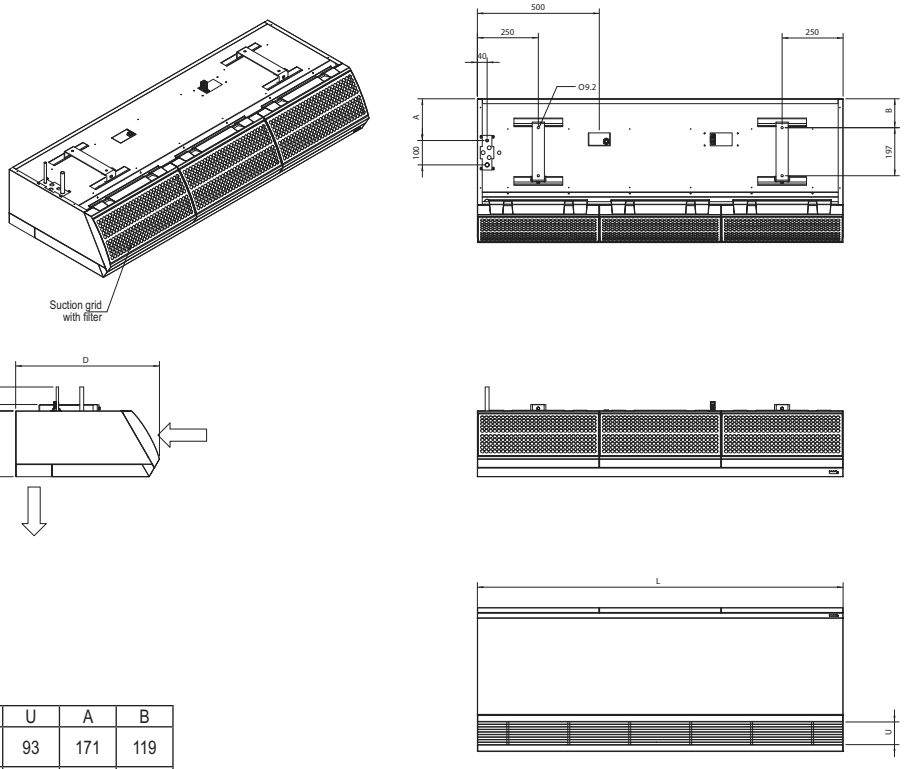
1-3-1 Technical Specifications				CYQL100DK125*BN/*SN	CYQL150DK200*BN/*SN	CYQL200DK250*BN/*SN	CYQL250DK250*BN/*SN
Heating capacity	Installation level B	speed 2	kW	11.9	17.9	22.8	24.6
		speed 3	kW	15.6	23.3	29.4	31.1
Delta T	inlet = room temperature	speed 2	K	17	17	17	14
		speed 3	K	15	15	14	12
Power Input (50Hz)	Fan only		kW	0.75	1.13	1.50	1.88
	Heating		kW	0.75	1.13	1.50	1.88
Maximum door width			m	1.0	1.5	2.0	2.5
Maximum door height	Favorable conditions		m	3.0			
	Normal conditions		m	2.75			
	Unfavorable conditions		m	2.5			
Dimensions	Height	Unit F	mm	370			
		Unit C	mm	370			
		Unit R	mm	370			
	Width	Unit F	mm	1,000	1,500	2,000	2,500
		Unit C	mm	1,000	1,500	2,000	2,500
		Unit R	mm	1,048	1,548	2,048	2,548
	Depth	Unit F	mm	774			
		Unit C	mm	1,105			
		Unit R	mm	745			
	Packed unit	Height C	mm	1,410			
		Height F/R	mm	990			
		Width F/C/R	mm	1,630	1,630	2,130	2,630
		Depth F/C/R	mm	630	630	680	680
Weight	Unit F		kg	76	100	126	157
	Unit C		kg	81	118	151	190
	Unit R		kg	83	141	155	196
	Packed unit F		kg	92	116	159	195
	Packed unit C		kg	100	143	195	252
	Packed unit R		kg	99	162	193	250
Casing	Colour			BN:RAL9010 / SN:RAL 9006	BN:RAL9010 / SN:RAL 9006	BN:RAL9010 / SN:RAL 9006	BN:RAL9010 / SN:RAL 9006
	Material			Electrogalvanised sheet steel			
Required Ceiling Void			mm	520			
Fan - Air flow rate - Heating	Installation level B	speed 2	m³/h	2,056	3,084	4,112	5,140
		speed 3	m³/h	3,100	4,650	6,200	7,750
Refrigerant	Type			R-410A			
	Control			Electronic expansion valve			
Sound pressure level - Heating	Installation level B	speed 2	dBA	43	45	46	47
		speed 3	dBA	53	54	56	57
Piping connections	Liquid (OD)	Diameter (OD)	mm	9.52	9.52	9.52	9.52
	Gas	Diameter (OD)	mm	16.0	19.0	22.0	22.0
Air Filter				Vacuum cleanable filter G1			
Required accessories				Daikin wired remote control (BRC1E51A or BRC1D52)			
Notes				Favorable conditions: covered shopping mall or revolving-door entrance. Normal conditions: little direct wind, no opposite open doors, building with ground floor only. Unfavorable conditions: location at a corner or square, multiple floors and/or open stairway.			
				Pipe work and electrical connections are on top of the unit			
				Sound pressure level (at 3m)			
				Installation level B: standard setting, refer to the databook or installation manual for more information (only one installation level available)			

1-3-2 Electrical Specifications			CYQL100DK125*BN/*SN	CYQL150DK200*BN/*SN	CYQL200DK250*BN/*SN	CYQL250DK250*BN/*SN
Power Supply	Frequency	Hz	50			
	Voltage	V	230			
Voltage range	Min.	V	224			
	Max.	V	240			
Current (50Hz)	Maximum fuse amps (MFA)	A	16			
	Full load amps (FLA)	A	3.30	4.95	6.60	8.25

2 Dimensional drawing & centre of gravity

2 - 1 Free hanging

CYQS-DK-FBN/FSN
CYQM-DK-FBN/FSN
CYQL-DK-FBN/FSN



Type	L	H	D	U	A	B
CYQS-DK-FBN/FSN CYQM-DK-FBN/FSN	1,000 - 1,500 2,000 - 2,500	270	590	93	171	119
CYQL-DK-FBN/FSN	1,000 - 1,500 2,000 - 2,500	370	774	124.5	245.5	200

CU0954X-000

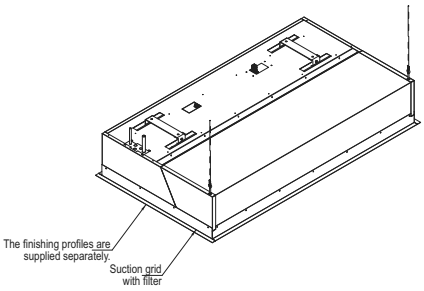
REMARKS

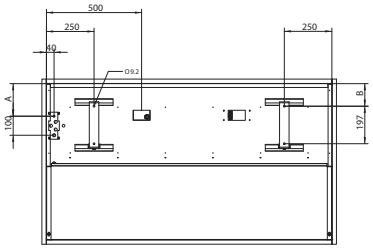
1 The 2,500mm large devices have 3 suspension brackets, where the third bracket is mounted at half the length of the device.

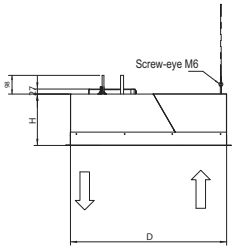
2 Dimensional drawing & centre of gravity

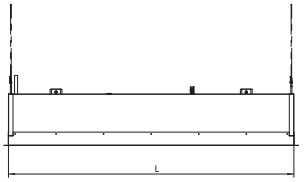
2 - 2 Cassette

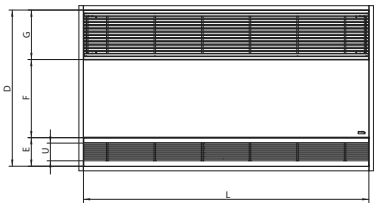
CYQS-DK-CBN/CSN
CYQM-DK-CBN/CSN
CYQL-DK-CBN/CSN











Number of suction grids per device

Device length	Number	Suction grid length
1000 / 1500	1	1,000 / 1,500
2000 / 2500	2	1,000 / 1,250

*1 drain grid per device

Type	L	H	D	U	A	B	E	F	G
CYQS-DK-CBN/CSN CYQM-DK-CBN/CSN	1,000 - 1,500 2,000 - 2,500	270	821	93	171	119	250	411	260
CYQL-DK-CBN/CSN	1,000 - 1,500 2,000 - 2,500	370	1,105	124.5	245.5	200	181.5	563.5	360

CU0955X-000

REMARKS

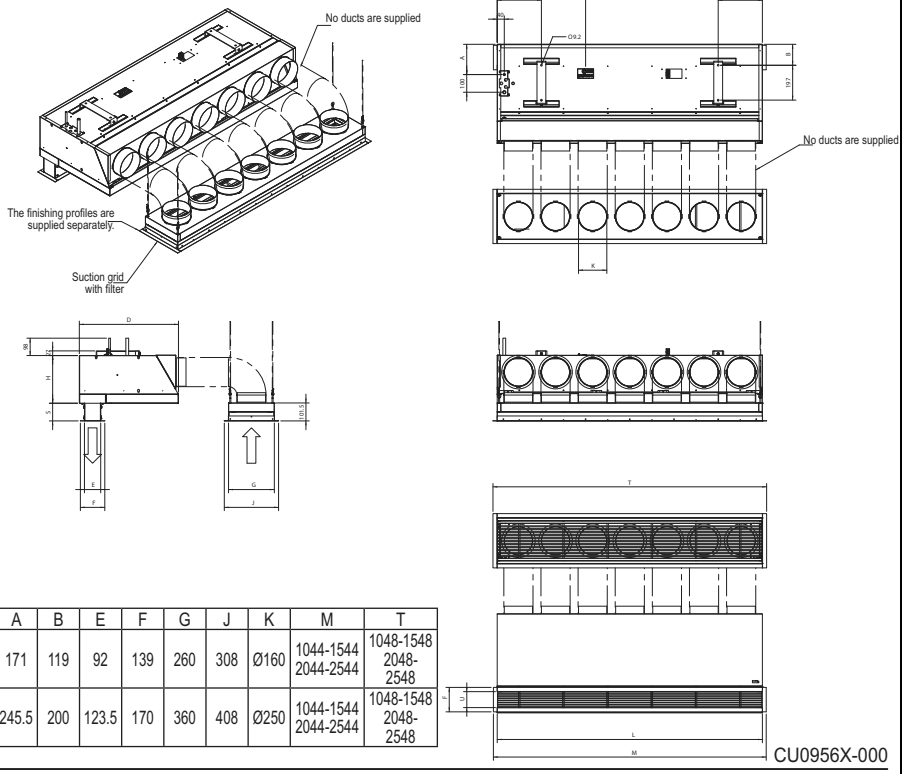
1 The 2,500mm large devices have 3 suspension brackets, where the third bracket is mounted at half the length of the device.

2 The mounting holes for finishing profiles in a lowered ceiling (L+8) x (D+8) mm

2 Dimensional drawing & centre of gravity

2 - 3 Recessed

CYQS-DK-RBN/RSN
CYQM-DK-RBN/RSN
CYQL-DK-RBN/RSN



Number of ducts per device

Type	1000	1500	2000	2500
CYQS-DK-RBN/RSN CYQM-DK-RBN/RSN	5	7	10	12
CYQL-DK-RBN/RSN	3	5	6	8

Number of suction grids per device

Device length	Number	Suction grid length
1000 / 1500	1	1,000 / 1,500
2000 / 2500	2	1,000 / 1,250

*1 drain grid per device

Type	L	H	D	S	U	A	B	E	F	G	J	K	M	T
CYQS-DK-RBN/RSN CYQM-DK-RBN/RSN	1,000 - 1,500 2,000 - 2,500	270	561	80-125	90	171	119	92	139	260	308	Ø160	1044-1544 2044-2544	1048-1548 2048-2548
CYQL-DK-RBN/RSN	1,000 - 1,500 2,000 - 2,500	370	745	80-125	121.5	245.5	200	123.5	170	360	408	Ø250	1044-1544 2044-2544	1048-1548 2048-2548

CU0956X-000

REMARKS

1 The 2,500mm large devices have 3 suspension brackets, where the third bracket is mounted at half the length of the device.

2 Holes (for finishing profiles) - drain (L+8) x (E+8) mm - suction (L+8) x (G+8) mm.

Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intention to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.

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FSC

ECDEN10-202A

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DAIKIN EUROPE N.V. Naamloze Vennootschap - Zandvoordestraat 300, B-8400 Oostende - Belgium - www.daikin.eu - BE 0412 120 336 - RPR Oostende

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