

BLA3

Air curtain for suspended ceiling installation up to 4-5 m



Product	BLA3
Length	100, 150, 200 e 250 cm.
Air flow rate	Up to 6600 m ³ /h

SPECIFICATION

High performance air curtains used in buildings such as airports, theatres, museums, administrative buildings, hotels, as well as commercial and industrial buildings.

BLA3 is available in two ranges, to be selected based on the height of the opening to be protected:

- **BLA3 B** for installation height up to 4.0 m.
- **BLA3 C** for installation height up to 5.0 m.



WATER HEATING



ELECTRIC HEATING



WITHOUT HEATING

APPLICATION

Installation height up to 4-5 m

CHARACTERISTICS

- Suspended ceiling installation.
- V: Water heating.
- E: Electric heating.
- S: Without heating.
- FACE 2 in 1: the micro-perforated suction grille has a filter function.
- Adjustable supply grille
- Electric heating elements with immediate heating, without inertia.
- Choice between multiple control module types: manual switching (BASIC) or with touchscreen, integrated thermostat, remote management via APP and ModBus control capability (PRIME).
- Possibility to concatenate multiple air curtains under the same control unit (PRIME version controls).
- Standard colour RAL 9016; any RAL colour on request.
- Electric heating versions: power supply V400/3/50.
- Water or no heating versions: power supply V230/1/50.
- EC version on request



Diffusion

Components
for perfect air
distribution in HVAC
systems

PERFORMANCE UNDER STANDARD CONDITIONS

BLA3-B MAXIMUM INSTALLATION HEIGHT 4.0 METRES

Model	Air flow rate m ³ /h			Sound pressure at 3 m dB(A)			Increase Temp. °C	Power [kW/A]	Wt. kg
	Speed 3	Speed 2	Speed 1	Speed 3	Speed 2	Speed 1			
BLA 3-B-100-E	1778	1217	814	57,9	49,6	41,5	15,7	10,1 / 16,3	39,5
BLA 3-B-150-E	2552	1738	1130	60,2	52,1	42,6	17,5	16,0 / 26,1	54,5
BLA 3-B-200-E	3444	2307	1485	61,2	53,3	44,3	16,4	20,5 / 32,4	71,0
BLA 3 B-250-E	4187	2844	1880	62,8	54,5	45,3	17,4	26,1 / 42,2	85,0
BLA 3 B-100-V	1691	1146	758	57,5	49,6	41,2	36,2	0,63 / 2,75	41,0
BLA 3 B-150-V	2449	1643	1082	59,6	51,6	42,3	38,1	0,9 / 4,0	56,0
BLA 3 B-200-V	3381	2267	1422	61,0	53,3	44,1	37,6	1,2 / 5,3	73,0
BLA 3 B-250-V	4061	2765	1825	62,5	54,4	45,3	37,3	1,5 / 6,5	87,0
BLA 3 B-100-S	1793	1225	822	58,3	50,3	42,3	-	0,63 / 2,75	37,5
BLA 3 B-150-S	2591	1770	1193	60,2	52,1	42,8	-	0,9 / 4,0	51,0
BLA 3 B-200-S	3476	2402	1659	61,5	53,7	44,6	-	1,2 / 5,3	66,0
BLA 3 B-250-S	4313	2899	1959	62,7	54,4	45,3	-	1,5 / 6,5	80,0

BLA3-C MAXIMUM INSTALLATION HEIGHT 5.0 METRES

Model	Air flow rate m ³ /h					Sound pressure at 3 m dB(A)					Increase Temp. °C	Power [kW/A]	Wt. kg
	Speed 5	Speed 4	Speed 3	Speed 2	Speed 1	Speed 5	Speed 4	Speed 3	Speed 2	Speed 1			
	BLA 3 -C-100-E...EC	2800	2600	2400	2150	1750	58	56	54	51			
BLA 3 -C-150-E...EC	3850	3550	3200	2700	1950	58	57	54	49	42	12,3	15,72/26	48
BLA 3 -C-200-E...EC	4900	4600	4050	3450	2500	59	57	55	51	43	10	19,9/32	65
BLA 3 -C-250-E...EC	6600	6300	5200	4400	3250	61	59	56	52	43	11,4	25,7/42	77
BLA 3 -C-100-V...EC	2650	2500	2300	2050	1650	58	56	54	51	45	34,5	0,53/3,5	36
BLA 3 -C-150-V...EC	3750	3500	3100	2600	1900	58	57	54	49	42	34,7	0,71/4,2	48
BLA 3 -C-200-V...EC	4650	4400	3800	3250	2300	59B	57	55	51	43	36,7	0,9/5,4	65
BLA 3 -C-250-V...EC	6400	6100	5150	4300	3050	61	59	56	52	43	36,1	1,2/7,3	78
BLA 3 -C-100-W...EC	2450	2300	2100	1900	1500	57	55	53	50	45	16	0,53/3,4	41
BLA 3 -C-150-W...EC	3300	3200	2850	2400	1650	58	58	55	49	42	17	0,71/4,4	58
BLA 3 -C-200-W...EC	4450	4150	3600	3050	2200	58	56	54	50	42	17	0,85/5,3	77
BLA 3 -C-250-W...EC	5900	5600	4750	4000	2800	60	59	56	52	43	17	1,18/7,3	95
BLA 3 -C-100-S...EC	2800	2600	2400	2150	1750	56	56	53	50	47	-	0,55/3,5	33

BLA3

Air curtain for suspended ceiling installation up to 4-5 m

Model	Air flow rate m ³ /h					Sound pressure at 3 m dB(A)					Increase Temp. °C	Power [kW/A]	Wt. kg
	Speed 5	Speed 4	Speed 3	Speed 2	Speed 1	Speed 5	Speed 4	Speed 3	Speed 2	Speed 1			
	BLA 3 -C-150-S...EC	3850	3550	3200	2700	1950	58	56	53	52			
BLA 3 -C-200-S...EC	4900	4600	4050	3450	2500	58	57	54	51	42	-	0,9/5,3	58
BLA 3 -C-250-S...EC	6600	6300	5200	4400	3250	59	59	56	50	43	-	1,2/7,3	67

WATER COIL PARAMETERS FOR TEMPERATURE DIFFERENCE 80/60°C

Model	Air flow rate m ³ /h	Thermal output kW	Outlet temperature °C	Water flow rate l/s	Pressure drop kPa
BLA 3 -B-100-V	1691	16,8	47,7	0,2	8
BLA 3 -B-150-V	2449	25,9	49,5	0,32	16
BLA 3- B-200-V	3381	35,1	49	0,43	13
BLA 3 -B-250-V	4061	41,8	48,7	0,51	10
BLA 3 -C-100-V...EC	2650	22,4	43,1	0,99	11,4
BLA 3 -C-150-V...EC	3750	33,1	44,1	1,46	11,1
BLA 3 -C-200-V...EC	4650	42,7	45,2	1,89	11,7
BLA 3 -C-250-V...EC	6400	56,3	44,1	2,49	21,1

WATER COIL PARAMETERS FOR TEMPERATURE DIFFERENCE 70/50°C

Model	Air flow rate m ³ /h	Thermal output kW	Outlet temperature °C	Water flow rate l/s	Pressure drop kPa
BLA 3 -B-100-V	1691	13,1	41,1	0,16	5
BLA 3 -B-150-V	2449	20,4	42,9	0,25	11
BLA 3- B-200-V	3381	27,6	42,4	0,33	9
BLA 3 -B-250-V	4061	32,8	42,1	0,4	8
BLA 3 -C-100-V...EC	2650	17,3	37,3	0,76	7,1
BLA 3 -C-150-V...EC	3750	25,5	38,2	1,12	6,9
BLA 3 -C-200-V...EC	4650	33	39	1,45	7,3
BLA 3 -C-250-V...EC	6400	43,8	38,3	1,93	13,4



WATER COIL PARAMETERS FOR TEMPERATURE DIFFERENCE 60/40°C

Model	Air flow rate m ³ /h	Thermal output kW	Outlet temperature °C	Water flow rate l/s	Pressure drop kPa
BLA 3 -B-100-V	1691	9,3	34,4	0,11	4
BLA 3 -B-150-V	2449	14,9	36,1	0,66	8
BLA 3 -B-200-V	3381	20	35,7	0,24	6
BLA 3 -B-250-V	4061	23,7	35,4	0,28	5
BLA 3 -C-100-V...EC	2650	12,1	31,5	0,53	3,7
BLA 3 -C-150-V...EC	3750	17,9	32,1	0,78	3,6
BLA 3 -C-200-V...EC	4650	23,2	32,8	1,02	3,8
BLA 3 -C-250-V...EC	6400	31,1	32,4	1,36	7,2

To allow optimal use of low temperature water, only for BLA3 - C models, the W version is available which features 3-row coils instead of 2-row coils. Below we indicate

WATER COIL PARAMETERS FOR TEMPERATURE DIFFERENCE 40/30°C

Model	Air flow rate m ³ /h	Thermal output kW	Outlet temperature °C	Water flow rate l/s	Pressure drop kPa
BLA 3 -C-100-V...EC	2450	13,2	34	1,15	13,9
BLA 3 -C-150-V...EC	3300	18,7	34,8	1,62	15,9
BLA 3 -C-200-V...EC	4450	24,9	34,6	2,16	14,1
BLA 3 -C-250-V...EC	5900	32,9	34,5	2,85	25,7

WATER COIL PARAMETERS FOR TEMPERATURE DIFFERENCE 35/25°C

Model	Air flow rate m ³ /h	Thermal output kW	Outlet temperature °C	Water flow rate l/s	Pressure drop kPa
BLA 3 -C-100-V...EC	2450	8,9	28,8	0,77	6,9
BLA 3 -C-150-V...EC	3300	12,8	29,5	1,11	8,1
BLA 3 -C-200-V...EC	4450	16,9	29,3	1,47	7
BLA 3 -C-250-V...EC	5900	22,5	29,3	1,95	12,9

BLA3

Air curtain for suspended ceiling installation up to 4-5 m

WATER COIL REGULATION

We recommend one of these methods:

DEVIATION (WITH CAPILLARY)

The thermostatic valve V135-3/4B regulates the flow rate by diverting water to the coil or to the return circuit to the boiler, depending on the temperature detected by the capillary at the outlet of the



DEVIATION (ON-OFF)

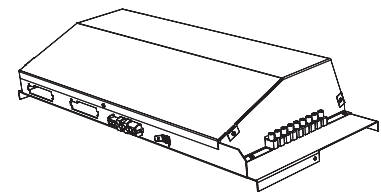
The three-way valve ZV3 with actuator receives the signal from the room thermostat TER-P; the valve channels water to the coil or to the return circuit to the boiler depending on the



CONTROLS

BLA 3 air curtains require a control module, to be inserted in the curtain body but supplied separately. The supply will therefore include the curtain and the control module, complete with relati

There are two types of control panel: a manual switch or a touch screen panel.



CONTROL MODULE

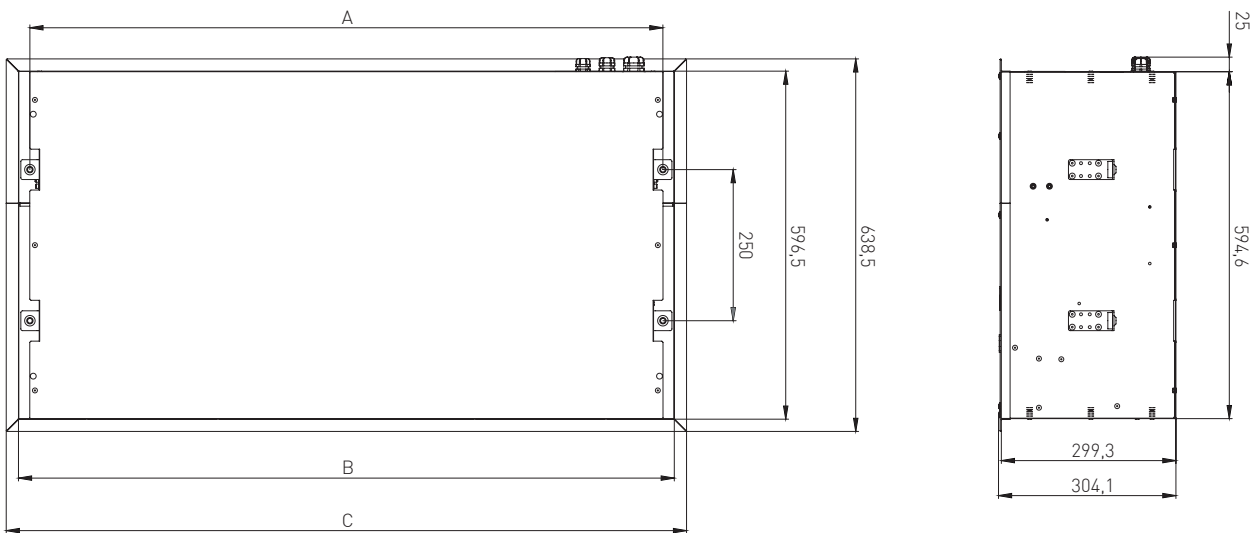
BASIC (BA) MANUAL SWITCHES use standard 230V cables (not supplied).

PRIME TOUCH SCREEN (PR) CONTROL PANELS use UTP communication cables (not supplied).

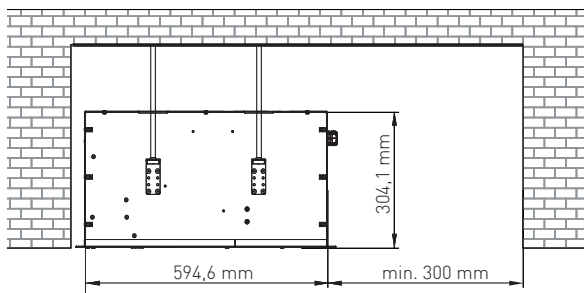


DIMENSIONAL

Model	Mounting hole distance A mm	Inner frame B mm	Width C mm
BLA 3-x-100-x-...	1085	1124	1166
BLA 3 -x-150-x-...	1585	1624	1666
BLA 3 -x-200-x-...	2085	2124	2166
BLA 3 -x-250-x-...	2465	2504	2546



BLA3



DISTANCES TO BE OBSERVED

The air curtain can only be installed in horizontal position, and must be positioned as close as possible to the upper edge of the door.

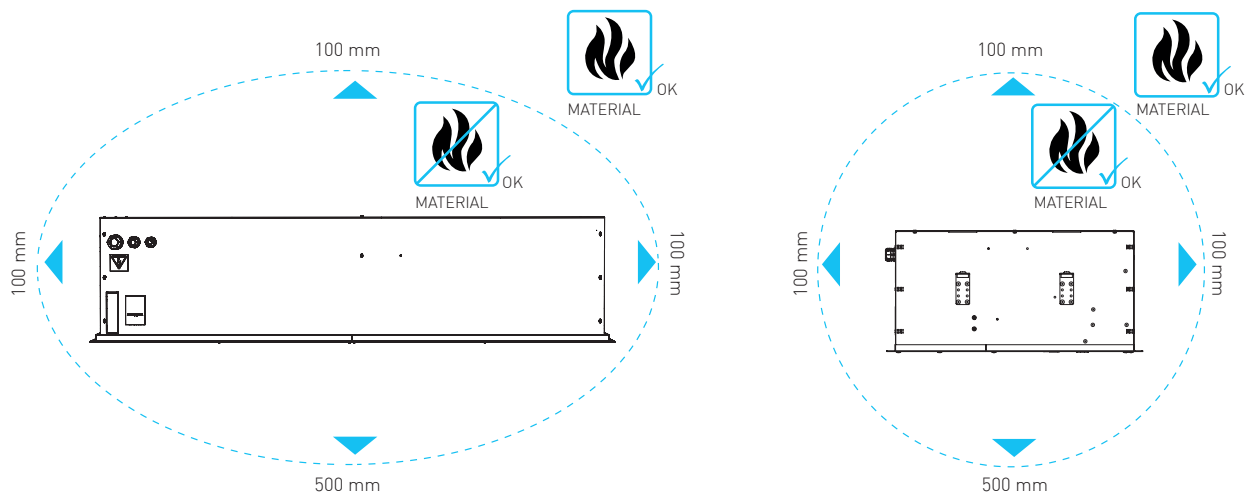
For optimal operation, the air curtain width should exceed the door width by 100 mm on both sides.

Observe the distances shown in the adjacent drawing.

Use threaded rods to hang the air curtain.

BLA3

Air curtain for suspended ceiling installation up to 4-5 m



Model	BASIC	PRIME

Summary of available functions

Control type	Switch	Touch-screen
Mode	Manual	Manual/automatic
Air flow regulation	3 speeds	3 speeds
Electric heater regulation	Off/level 1/ level 2	Temperature setting °C
Water heater regulation	On/off	On/off
Possibility to connect a door contact	•	•
Regulation possibility based on external signals	• n.2	• more than 1
Room temperature measurement	-	•
Chaining (with PR controls + PS boards)	-	• (maximum 10+1)
Selected function indication	•	• (display)
BMS connection	-	• (modbus RTU)
Error indication	-	•



Diffusion

Components
for perfect air
distribution in HVAC
systems

PARTS NOMENCLATURE AND CODING

A BLA3 air curtain is supplied in three parts:

- Body AIR CURTAIN whose dimensional and operating characteristics are described in the previous pages
- CONTROL MODULE, to be selected from the models shown on this page. The control module must be fixed to the air curtain at the time of installation as per the drawing
- CONTROL PANEL (supplied with the control module), whose functions are described in the previous page.

