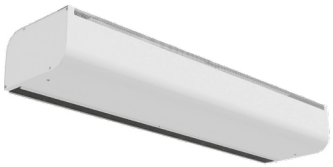
BLA1

Air curtain for installation up to 3.2 m

Diffusion

Components for perfect air distribution in HVAC systems



Product	BLA1
Length	100, 150, 200 e 250 cm
Air flow rate	Up to 3500 m³/h

SPECIFICATION

Air curtain recommended for applications on industrial doors, entrances, loading warehouses, etc...

APPLICATION

Installation height up to 3.2 metres

CHARACTERISTICS

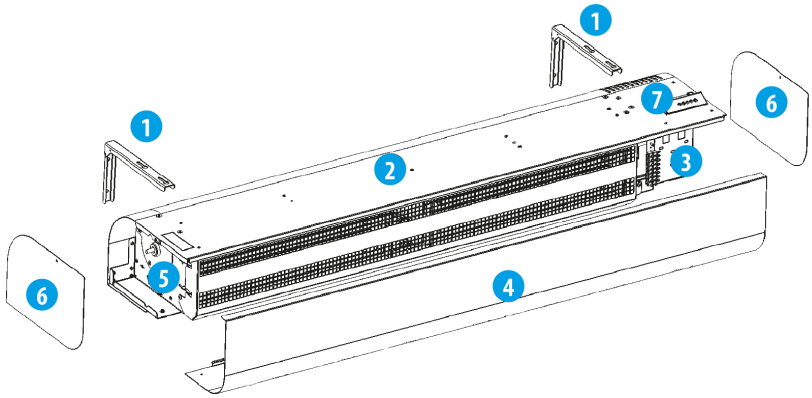
- V: Water heating.
- E0, E1: Electric heating.
- S: Without heating.
- Choice of multiple control module types:
- BASIC with manual switches.
- PRIME with touch screen, integrated thermostat, remote management via APP and ModBus control capability.
- Possibility to chain multiple air curtains under the same panel (with PRIME).
- Supply adjustable grille outward from 3° to 15°.
- Standard colour RAL 9016 (any RAL colour on request).
- EC version on request

WATER HEATING

ELECTRIC HEATING

WITHOUT HEATING

MAIN PARTS



1. Mounting brackets
2. Top closure.
3. Control module housing
4. Air intake grille.
5. Water connections (if present)
6. Side covers
7. Power supply inlet

BLA1

AIR CURTAINS

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PERFORMANCE DATA

OPERATING DATA AT 50 HZ

Model	BLA 50 Hz						
	Air flow rate m^3/h			Sound pressure at 3 m dB(A)			Power sound dB(A)
	Speed 3	Speed 2	Speed 1	Speed 3	Speed 2	Speed 1	
BLA 1 100-E0	1350	900	700	48	38	29	69
BLA 1 150-E0	2200	1550	1150	50	54	35	71
BLA 1 200-E0	3000	2200	1450	51	45	34	72
BLA 1 250-E0	3500	3200	2350	52	52	45	74
BLA 1 100-E1	1350	900	700	48	38	29	69
BLA 1 150-E1	2200	1550	1150	50	54	35	71
BLA 1 200-E1	3000	2200	1450	51	45	34	72
BLA 1 250-E1	3500	3200	2350	52	52	45	74
BLA 1 100-V	1300	900	700	47	40	37	68
BLA 1 150-V	2000	1500	1150	49	44	37	71
BLA 1 200-V	2950	2300	1650	51	48	39	73
BLA 1 250-V	3700	3200	2350	52	52	44	74
BLA 1 100-S	1350	900	700	48	38	29	69
BLA 1 150-S	2200	1550	1150	50	54	35	71
BLA 1 200-S	3000	2200	1450	51	45	34	72
BLA 1 250-S	3500	3200	2350	52	52	45	74

PERFORMANCE DATA

OPERATING DATA AT 50 HZ

Model	Thermal output kW		Consumption total V/A	Motor consumption V/A	Increase temperature °C	Wt. Kg
	1 level	2 levels				
BLA 1 100-E0	3,2	4,7	400 / 13,7	230 / 0,6	10,3	23,0
BLA 1 150-E0	3,8	7,5	400 / 11,9	230 / 0,9	10,1	29,0
BLA 1 200-E0	4,8	9,5	400 / 15,8	230 / 1,4	9,4	37,0
BLA 1 250-E0	6,9	12,2	400 / 19,4	230 / 1,4	10,4	44,0
BLA 1 100-E1	3,2	6,3	400 / 14,4	230 / 0,6	13,9	23,0
BLA 1 150-E1	5	10	400 / 21,3	230 / 0,9	13,5	29,0
BLA 1 200-E1	6,3	12,6	400 / 27,9	230 / 1,4	12,5	37,0
BLA 1 250-E1	8,2	16,3	400 / 26	230 / 1,4	13,8	44,0
BLA 1 100-V	16,00	16,00	230 / 0,6	230 / 0,6	36,4	25,0
BLA 1 150-V	23,6	23,6	230 / 0,9	230 / 0,9	35,0	31,0
BLA 1 200-V	34,00	34,00	230 / 1,4	230 / 1,4	34,1	41,0
BLA 1 250-V	42,9	42,9	230 / 1,4	230 / 1,4	34,3	48,0
BLA 1 100-S	-	-	230 / 0,6	230 / 0,6	-	22,0
BLA 1 150-S	-	-	230 / 0,9	230 / 0,9	-	28,0
BLA1 200-S	-	-	230 / 1,4	230 / 1,4	-	36,0
BLA 1 250-S	-	-	230/ 1,4	230/ 1,4	-	42,0

THERMAL OUTPUT WITH WATER 90/70°C

Model	Air flow rate m^3/h	Thermal output kW	Outlet temperature °C	Pressure drop kPa	Water flow rate l/s
BLA 1 100-V	1300	16,0	54,4	14,8	0,20
BLA 1 150-V	2000	23,6	53,0	10,5	0,29
BLA 1 200-V	2950	34,0	52,1	14,6	0,42
BLA 1 250-V	3700	42,9	52,3	24,4	0,53

THERMAL OUTPUT WITH WATER 80/60°C

Model	Air flow rate m^3/h	Thermal output kW	Outlet temperature °C	Pressure drop kPa	Water flow rate l/s
BLA 1 100-V	1300	13,2	48,0	10,5	0,16
BLA 1 150-V	2000	19,4	46,7	7,3	0,24
BLA 1 200-V	2950	27,9	46,0	10,2	0,34
BLA 1 250-V	3700	35,3	46,3	17,2	0,43

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THERMAL OUTPUT WITH WATER 70/50°C

Model	Air flow rate m^3/h	Thermal output kW	Outlet temperature °C	Pressure drop kPa	Water flow rate l/s
BLA 1 100-V	1300	10,3	41,5	6,9	0,12
BLA 1 150-V	2000	15,1	40,4	4,7	0,18
BLA 1 200-V	2950	21,8	39,9	6,5	0,27
BLA 1 250-V	3700	27,7	40,2	11,1	0,34

THERMAL OUTPUT WITH WATER 60/40°C

Model	Air flow rate m^3/h	Thermal output kW	Outlet temperature °C	Pressure drop kPa	Water flow rate l/s
BLA 1 100-V	1300	8,27	34,5	4,12	0,1
BLA 1 150-V	2000	11,86	33,8	2,75	0,14
BLA 1 200-V	2950	17,26	33,7	4,02	0,2
BLA 1 250-V	3800	21,33	34,8	6,47	0,26

WATER COIL REGULATION

DEVIATION (WITH CAPILLARY)

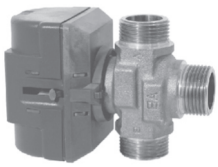
The thermostatic valve V135-3/4B regulates the flow rate by diverting water to the coil or to the return circuit to the boiler, depending on the temperature detected by the capillary at the outlet of the

A valve must be installed for each air curtain.

DEVIATION (ON-OFF)

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

A valve must be installed for each air curtain.



CONTROLS

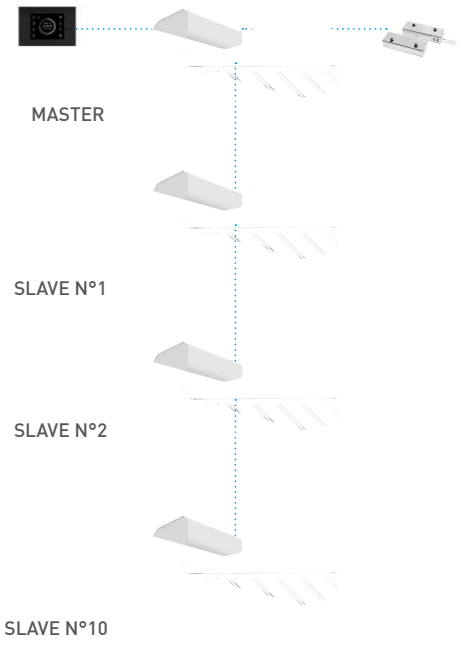
There are two types of control panel: a manual switch or a touchscreen panel.

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

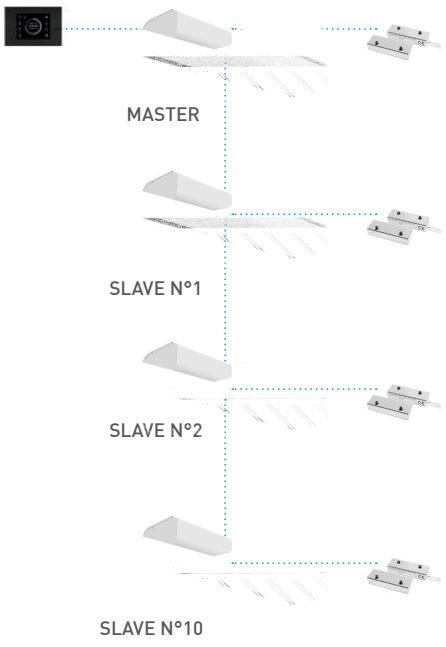
PRIME (PR) CONTROL PANELS use UTP communication cables (not supplied).
This control allows setting many control functions and air curtain settings via WIFI connection to the dedicated APP.

NOTE: with the PRIME panel it is possible to manage 2 or more concatenated air curtains, i.e. managed by the same control.

CHAINING MULTIPLE AIR CURTAINS PRIME CONTROL



EXAMPLE 1
Door switch mounted on one opening only



EXAMPLE 2
Idoor switch mounted on all openings

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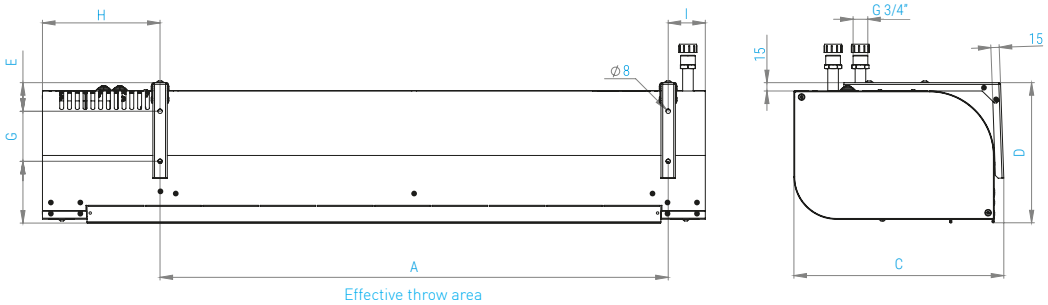
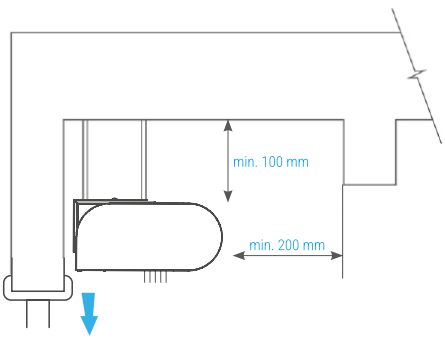
DIMENSIONS

Model	A	B	C	D	E	F	G	H	I
BLA 1 100	916	1252	407	252	51	111	90	240	95
BLA 1 150	1325	1660	407	252	51	111	90	240	95
BLA 1 200	1825	2160	407	252	51	111	90	240	95
BLA 1 250	2235	2570	407	252	51	111	90	240	95



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.
To hang the air curtain, use the brackets included in the supply.



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CONTROL TYPES

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	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	-	•
Concatenation	-	• (maximum 10+1)
Selected function indication	•	• (display)
BMS connection	-	• (modbus RTU)
Error indication	-	•

* Room thermostat.

** Room thermostat - remote on/off.