



EOLO BC RT

Roof-top gas air heater condensing with modulation

EOLO BC RT is the gas for roof-top installations, produced by Systema S.p.A..

This product is suitable for indoor and outdoor applications and can be fit with ventilation duct for air distribution.

The efficiency of this equipment is really high and reaches 108%, the structure is solid and its components guarantee quality, great design and a long-lasting resistance.



EOLO BL RT

Roof-top gas air heater ROOF-TOP standard



AIR HEATING

Power: from 16 to 315 kW
Nox Class 5

- » 13 models, 2 versions, more ways of ventilation
 - » Indoor or outdoor versions
 - » Design with burner integrated into the unit
 - » Stainless steel combustion chamber, 10 year guarantee *
 - » Heating of medium and large industrial environments, sports halls, repair shops, garages ect...
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- | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> » YELD OF EOLO BC RT > up to 108% - Automatic modulation of the thermal power from 100% to 30% - Fuel: Natural Gas, LPG | <ul style="list-style-type: none"> » YELD OF EOLO BL RT > up to 95% - DOUBLE STAGE - Modulation of the thermal power from 70% to 100% ** - Fuel: Natural Gas, LPG |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

* The guarantee depends on regular maintenance -- ** Modulation of the power only if combined with INET control panel

To continually improve the products, SYSTEMA S.p.A. reserves the right to alter the characteristics without prior notice.

TECHNICAL FEATURES

Certification



The gas air heater is CE certified for Type B and C installation, equipped with sealing fittings for the intake of the combustion air as well as the exhaust of the combustion flues.

Systema S.p.A. Burner



Patented Premix burner head with flame inversion, specifically conceived and realized by Systema S.p.A.

Boards compartment



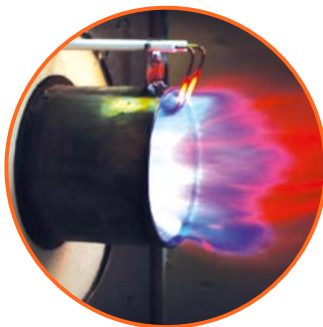
The premix burner and the electronic boards are positioned into two separated and sealed spaces (IP45 protection), easy to be checked.

Electronic management



The electronic board, that controls the heater, is already integrated into the system for the connection with Systema remote controllers, which can manage one or more units in accordance with the type of panel used and the configuration required.

Combustion chamber



The new stainless steel combustion chamber allows to get high performances and ensure a long duration through the years.

Combustion management



Flame electronic control device and gas valve

Centrifugal ventilation



Centrifugal fans equipped with an air intake compartment prepared for the installation of the air filter and the flange for the connection with an air duct.

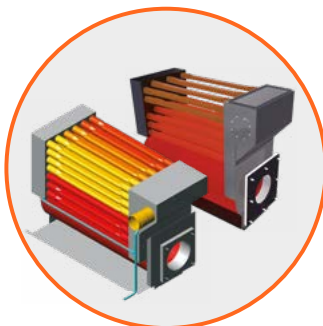
Many types of ventilation



Centrifugal standard fans with performances up to 200 Pa

Centrifugal optional fans with performances up to 400 Pa, 600 Pa, 800 Pa.

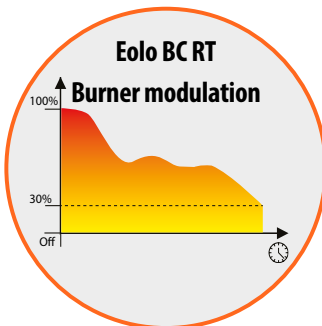
Exchangers



Eolo BC RT: Exchanger with bundle made of six tubes, conceived and realized by Systema S.p.A. and equipped with condensing draining pipe.

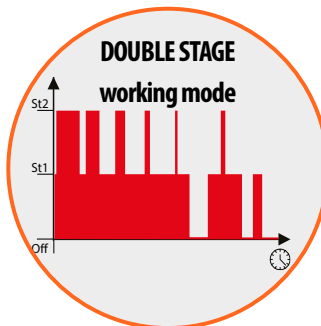
Eolo BL RT: Exchanger of high efficiency, conceived and realized by Systema S.p.A.

Eolo BC RT Automatic modulation

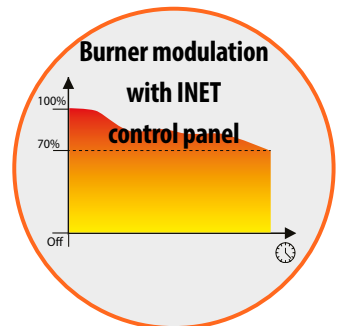


Automatic modulation of the thermal power from 100% to 30% PWM fan speed control.

Eolo BL RT Two working ways



Automatic operation in DOUBLE STAGE mode depending on the control panel



Automatic modulation of the thermal power from 100% to 70% only if combined INET control panel.

PWM fan speed control.

TECHNICAL DATA

Models			15 RT	25 RT	35 RT	45 RT	55 RT	65 RT	85 RT	100 RT	120 RT	150 RT	200 RT	250 RT	300 RT
Type of application			B23												
Thermal capacity ver. BC	Max	kW	16	22	32	43	52	63	84	103	125	155	210	260	315
	Min	kW	5	8	10	15	18	21	23	34	40	46	65	78	95
Thermal capacity ver. BL	Max	kW	16	22	32	43	52	63	84	103	125	155	210	260	315
	Min	kW	10	15	22	30	36	44	59	71	88	108	147	182	220
Combustion Efficiency BC **	Max	%	94	95	94	95	95	95	94	94	94	98	98	98	98
	Min	%	106	105	105	105	105	105	105	105	105	108	108	108	108
Combustion Efficiency BL **	Max	%	93	93	93	93	93	93	93	93	92	90	90	90	90
	Min	%	95	95	95	95	95	95	95	94	94	92	92	92	92
Nominal gas consumption (Hi) (15°C - 1013,25mbar)	G20	m³/h	1,69	2,33	3,39	4,55	5,5	6,67	8,89	10,9	13,23	16,4	22,22	27,51	33,33
	G30	kg/h	1,26	1,73	2,52	3,39	4,1	4,97	6,62	8,12	9,86	12,22	16,56	20,5	24,84
	G31	kg/h	1,24	1,71	2,49	3,34	4,04	4,89	6,53	8	9,71	12,04	16,31	20,2	24,47
Gas inlet diameter	inc.		3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"	1"	1"1/4	1"1/4	1"1/4	1"1/4
Fumes exhaust Ø	mm		100	100	100	100	100	100	130	130	130	200	200	200	300
Max Length fumex exhaust (B23)	m		8	8	8	8	8	8	8	8	8	8	8	8	8
Electrical power supply	V/Hz		3/N/PE ~ 50Hz 400V												
Fans Model ADH *			E0-0180	E0-0180	E0-0225	E0-0250	E0-0250	E0-0355	E0-0355	E0-0355	E0-0400	E0-0450	E0-0500	E0-0560	E0-0630
N. Fans x Motor power capacity*	N. x kW		1x1,10	1x1,10	1x1,10	1x2,20	1x2,20	1x2,20	1x3,00	1x3,00	1x4,00	1x5,50	1x7,50	1x7,50	1x11,00
Total electrical power capacity	kW		1,19	1,19	1,19	2,29	2,42	2,42	3,25	3,25	4,25	5,79	7,82	7,97	11,48
Working temperature (min÷max) (#)	°C		0÷35 (-20÷40 optional)												
Air treated capacity	m³/h		2.500	2.500	3.500	5.000	6.000	7.000	9.000	10.000	12.000	14.000	20.000	24.000	28.000
Available pressure (standard)	Pa		200												
Noise Level (at 1 m) ver. Standard	dB(A)		56	56	57	57	58	59	61	62	63	65	66	67	67
Weight ver. BC standard	kg		220	220	250	380	400	430	590	620	650	840	940	1040	1290
Weight ver. BL standard	kg		220	200	220	360	380	410	540	560	580	760	860	940	1120

(*) The fan model, as well as the electric power of the motor, may change depending on the output and the prevalence of the equipment.

PLUG FAN versions, with variable flowrates for **BC** versions and useful pressures from 200 to 400 Pa, from 400 to 600 Pa, from 600 to 800 Pa, depending on the model, are available upon request.

PLUG FAN versions, with fixed flowrate, are also available for **BL** versions, 200, 400, 600 Pa depending on the model.

(**) Standard condition

(#) The minimum operating temperature is 0°C. Anyway, it's possible to use the equipment with temperatures up to -20°C by installing the LOWS TEMPERATURES kit (available as optional).

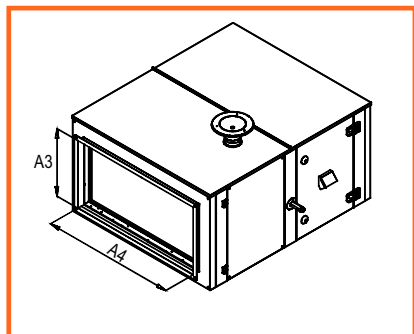
For any further information we kindly ask you to get in touch with the Technical Department of Systema S.p.A.



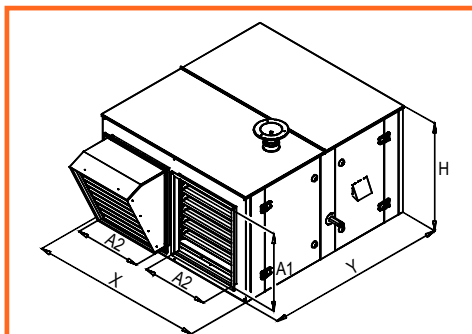


DIMENSIONS

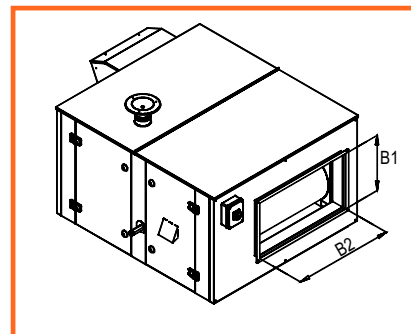
Standard version
(view of air intake side)



Double air intake
(view of air intake side)



Double air intake
(view of delivery side)



EOLO BC/BL	X [mm]	Y [mm]	H [mm]	A1 [mm]	A2 [mm]	A3 [mm]	A4 [mm]	B1 [mm]	B2 [mm]
15/25/35 RT	1205	1580	788	500	450	400	700	400	700
45/55/65 RT	1508	1822	1035	700	600	500	900	500	900
85/100/120 RT	1909	2270	1197	900	700	900	1400	900	1200
150 RT	2008	2577	1560	1000	800	1000	1200	1000	1000
200 RT	2260	2577	1560	1000	900	1000	1400	1000	1200
250 RT	2510	2577	1560	1000	1000	1000	1600	1000	1400
300 RT	2260	3675	2210	1500	900	1500	2000	1500	1500

WARNING!

The dimensions of the ducts indicated in the sheet are referred to standard version. For special application they can be modified to satisfy the installation needs.

For the sizing of insulated ducting, please get in touch with the Technical Department.

* Versions with an high pressure range can have greater dimensions. These versions are usually selected in accordance with specific needs of the application. In order to avoid any possible discrepancy, please get in touch with the Technical Department of Systema S.p.A.

ACCESSORIES

1 Air intake/delivery panel

2 Air intake vent

3 Two-ways air dumper

4 Two-ways flanged air intake panel

5 Air intake vent for two-ways panel

6 Insulation cover for right delivery

7 Insulation cover for left delivery

8 Insulation cover for roof delivery

9 Left/right delivery bend

10 Roof delivery bend

11 Side mixing section

12 Roof mixing section

13 Belimo proportional device for air dumper with 0-10V control

14 G3/G4 air filter

