

## TECHNICAL DATA



# BOX





## BOX

Ventilation unit equipped with box from forward curved centrifugal fans 230V and 400V three-phase. BOX is available in 12 models of fan: from 1.500 to 7.200 m<sup>3</sup>/h.

### MODES OF OPERATION

To avoid the transmission of vibrations to the system of air distribution, the fan is connected to the discharge side of the air by a specific anti-vibration joint and is connected to the base of the BOX with anti-vibration joints. The use of AC electric motors, allows to manage the BOX in different modes:

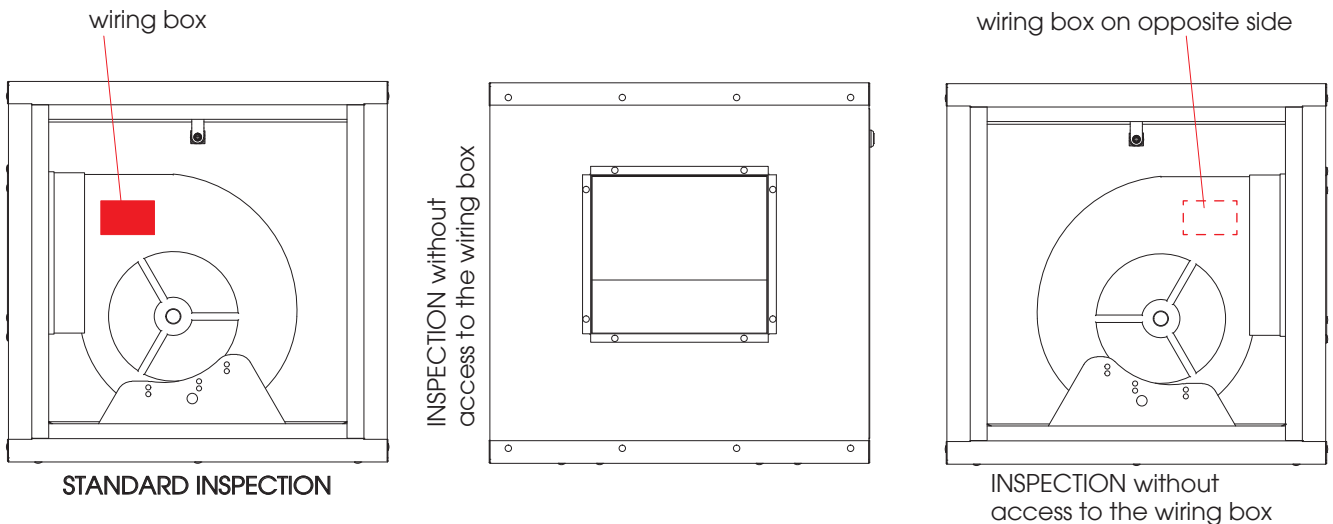
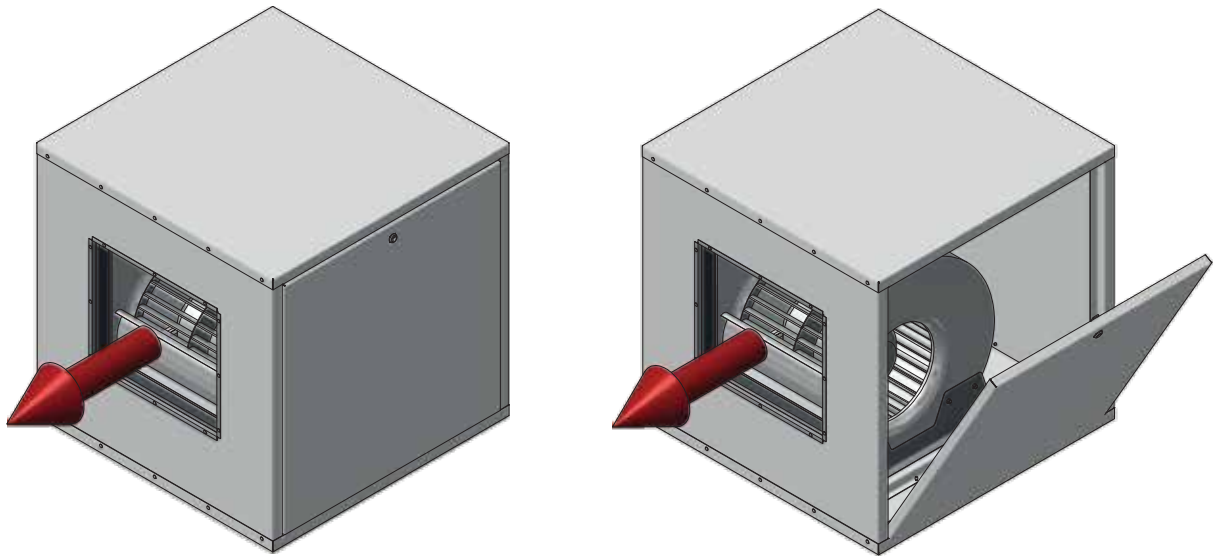
- The connection of only one power supply is working the BOX to the maximum extent available;
- The use of a regulator cut phase (the accessory or RVT RVT 6A 9A for electric motors of power up to 4 kW) allows to change the speed of rotation of the fan and so the airflow. Alternatively to the phase cut regulators, is possible, for three-phase versions, the use of inverters.

The range of accessories are : protective roof and cowl with anti-volatile network for outdoor installation.

### STRUCTURE

Self-supporting structure in Aluzinc<sup>®</sup> sheet thickness 1 mm, with internal adhesive insulation thickness 5 mm

- Anti-vibrating joint on fan outlet
- Motors mounted on anti-vibration supports



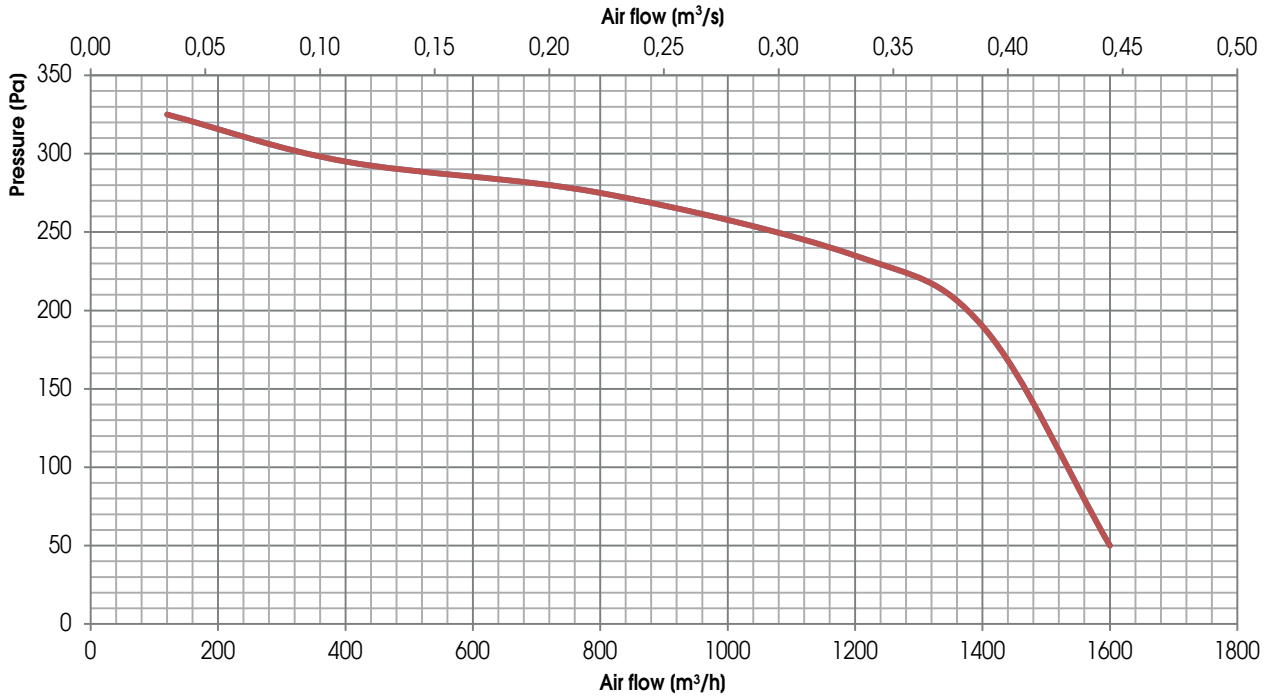
the BOX exists only in the standard version; The mirrored version doesn't exist



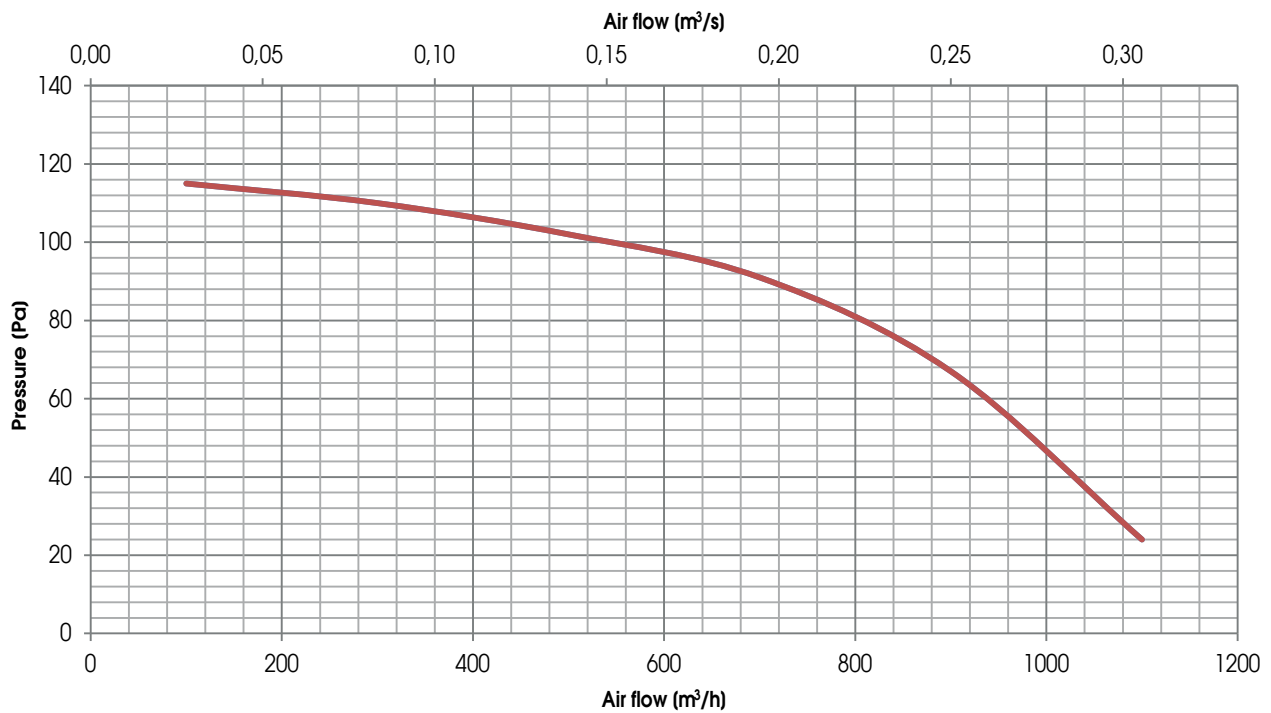
### PERFORMANCES

Performance calculated with ducted outlet and free inlet. It is authorized the use only inside its performance diagram shown.

#### BOX 7-7 4 POLES



#### BOX 7-7 6 POLES

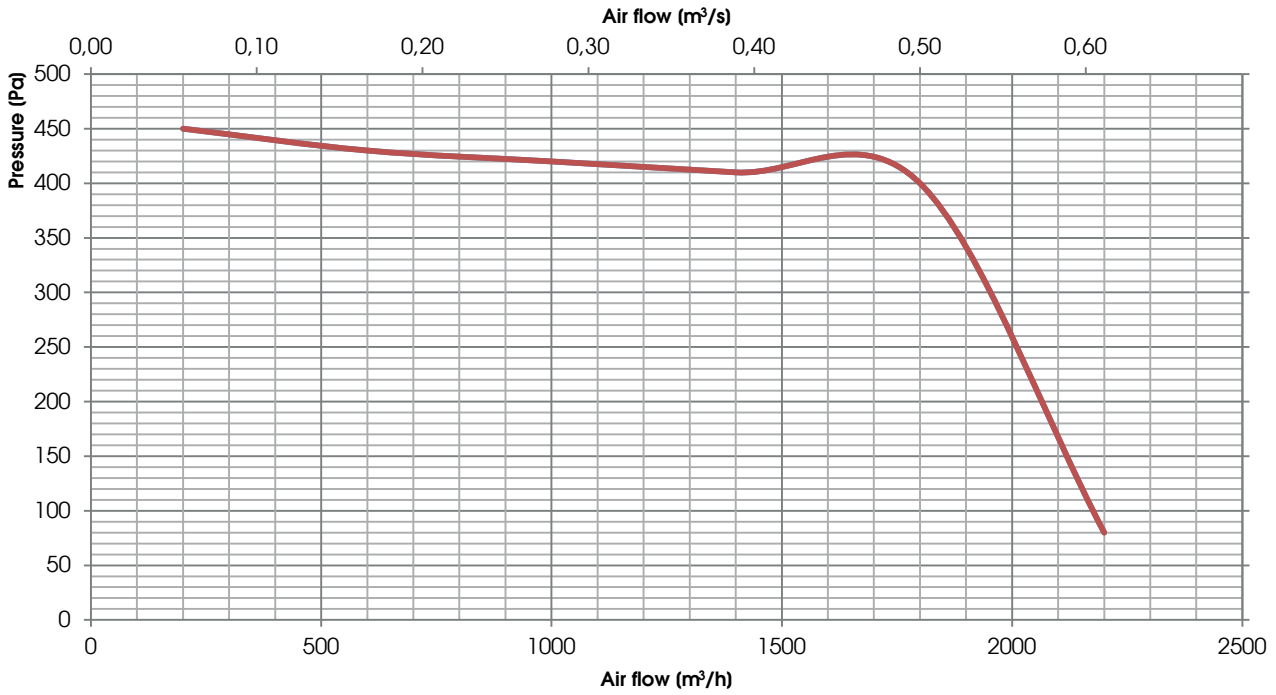




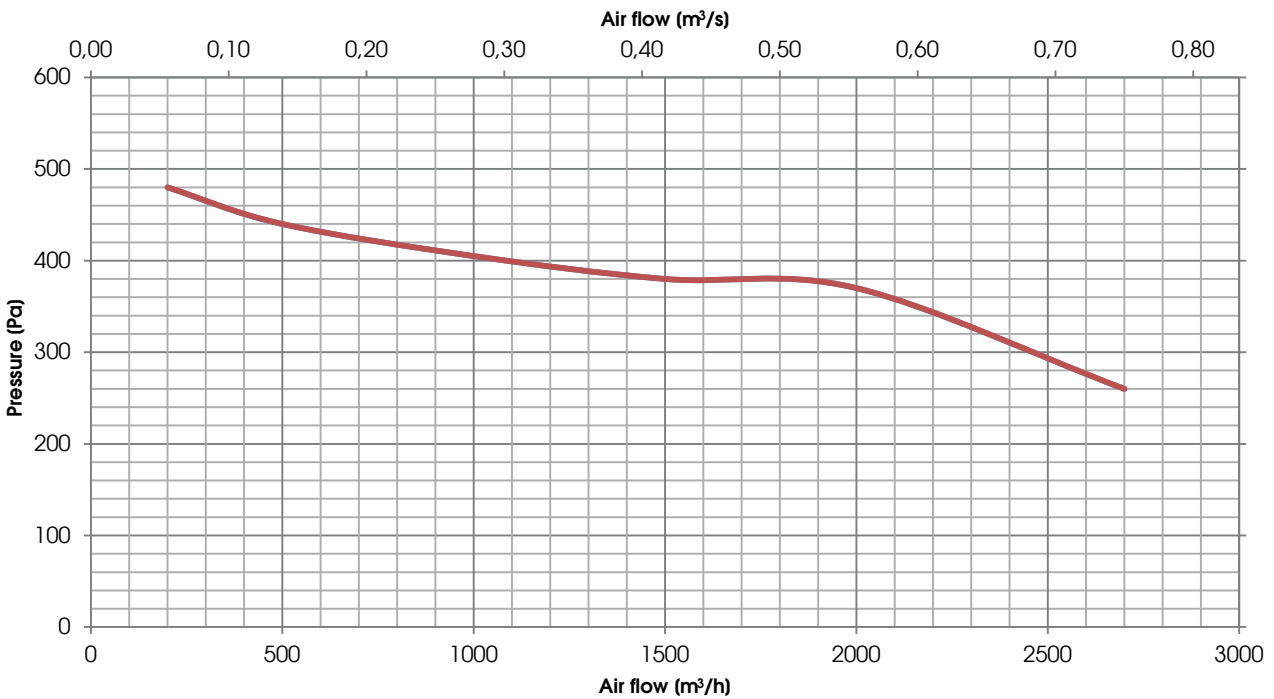
## PERFORMANCES

Performance calculated with ducted outlet and free inlet. It is authorized the use only inside its performance diagram shown.

### BOX 9-7 4 POLES



### BOX 9-9 4 POLES

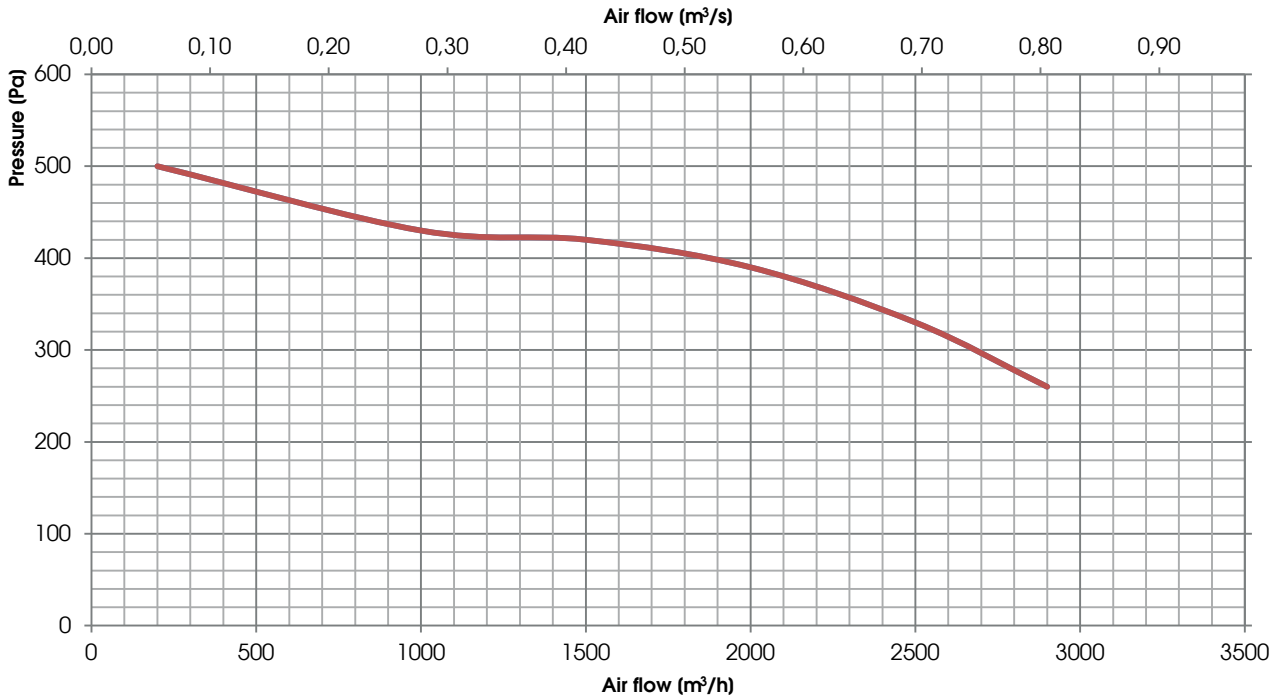




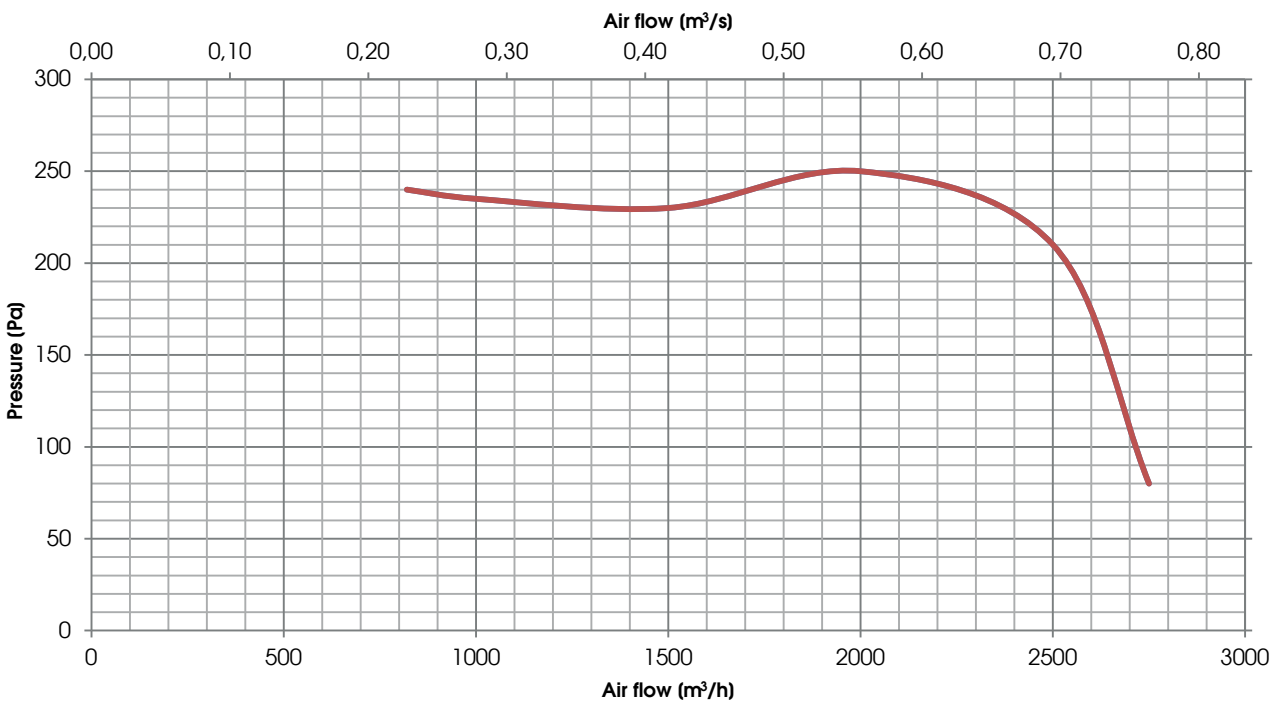
## PERFORMANCES

Performance calculated with ducted outlet and free inlet. It is authorized the use only inside its performance diagram shown.

### BOX 10-8 4 POLES



### BOX 10-8 6 POLES

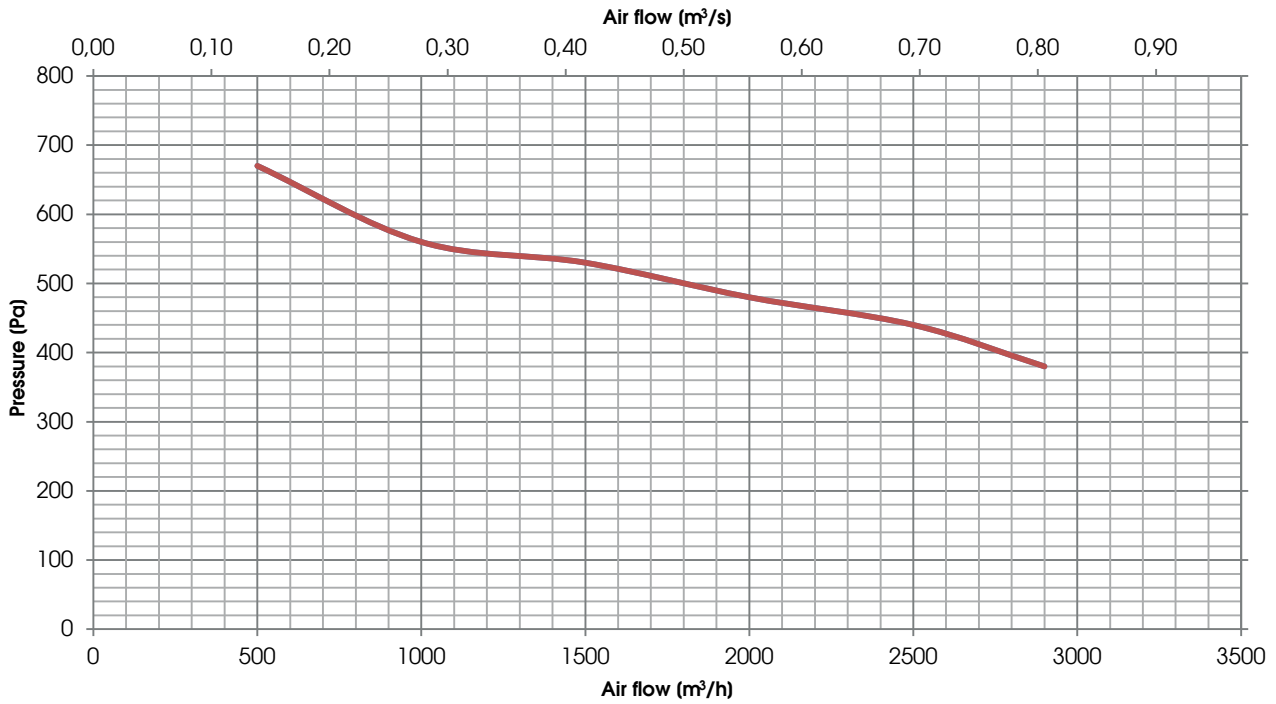




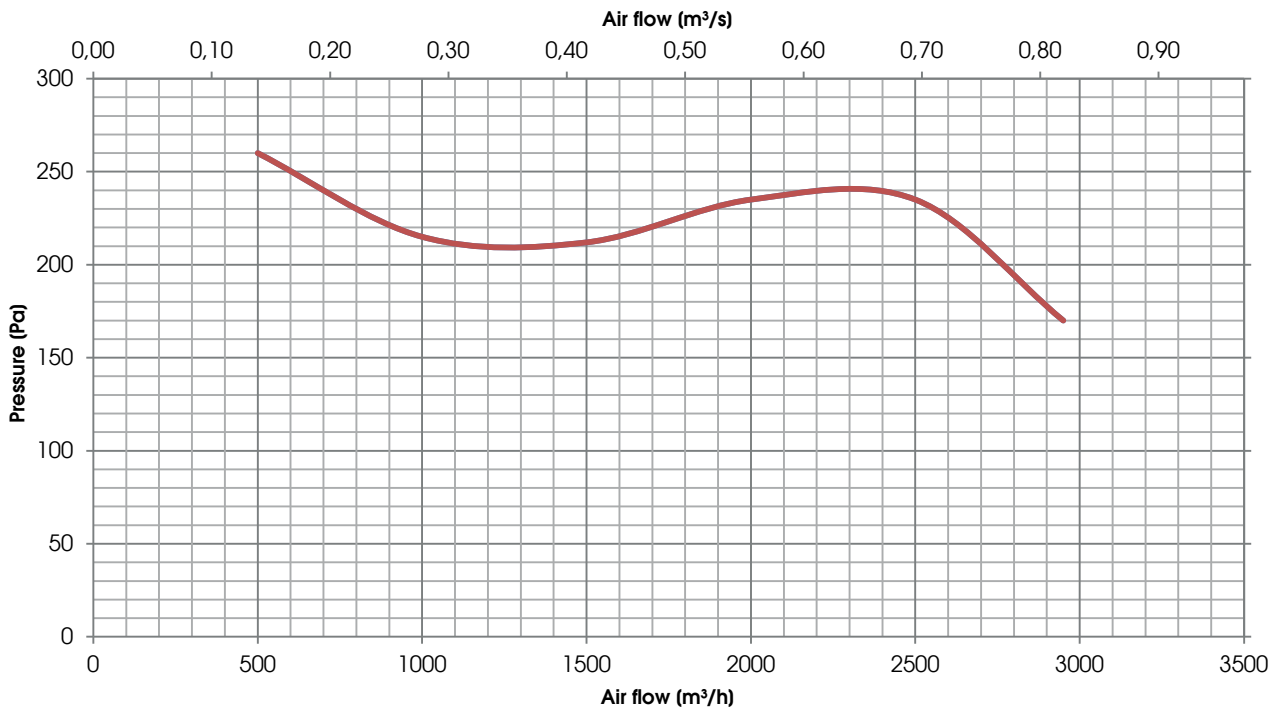
## PERFORMANCES

Performance calculated with ducted outlet and free inlet. It is authorized the use only inside its performance diagram shown.

### BOX 10-10 4 POLI



### BOX 10-10 6 POLES

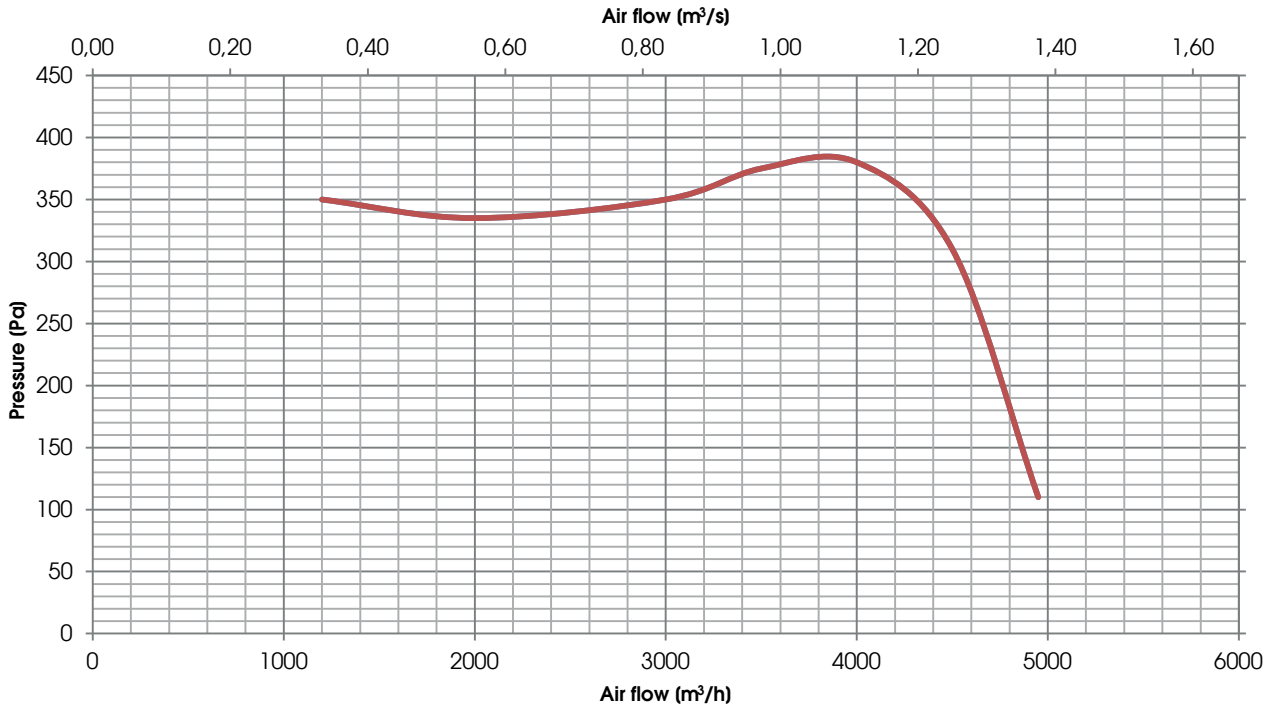




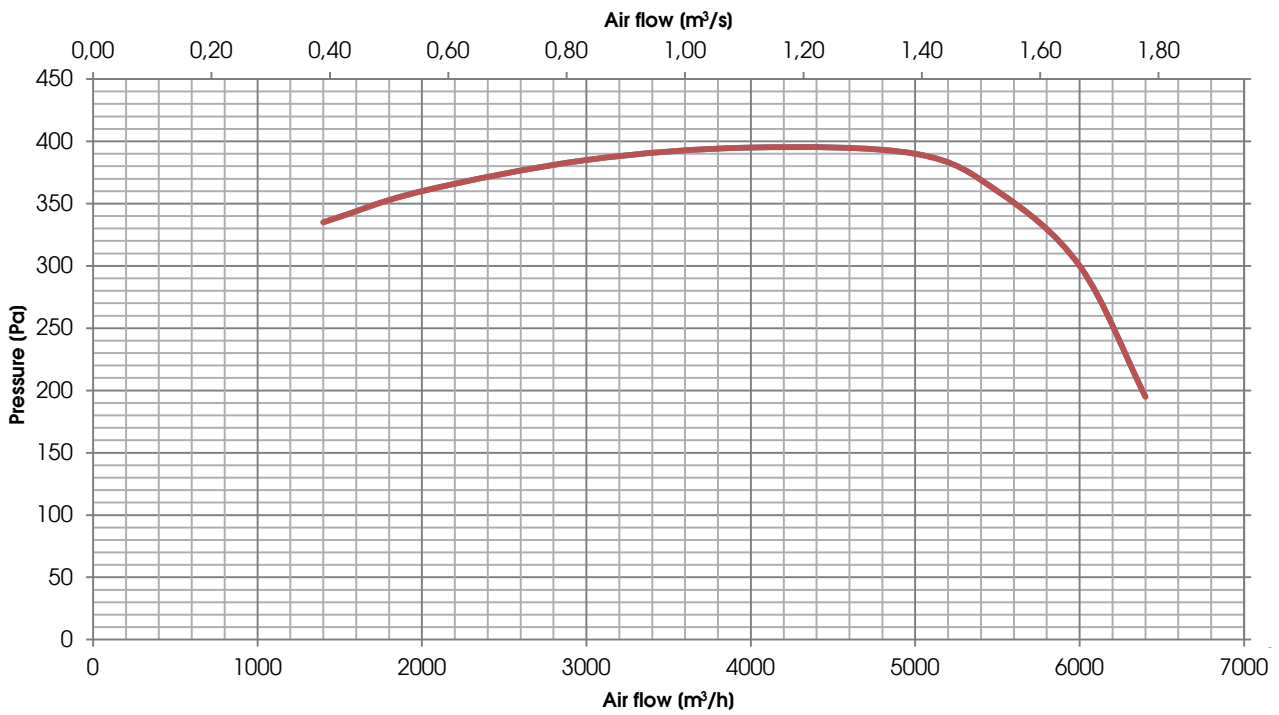
### PERFORMANCES

Performance calculated with ducted outlet and free inlet. It is authorized the use only inside its performance diagram shown.

#### BOX 12-9 6 POLES 590 W



#### BOX 12-9 6 POLES 1100 W

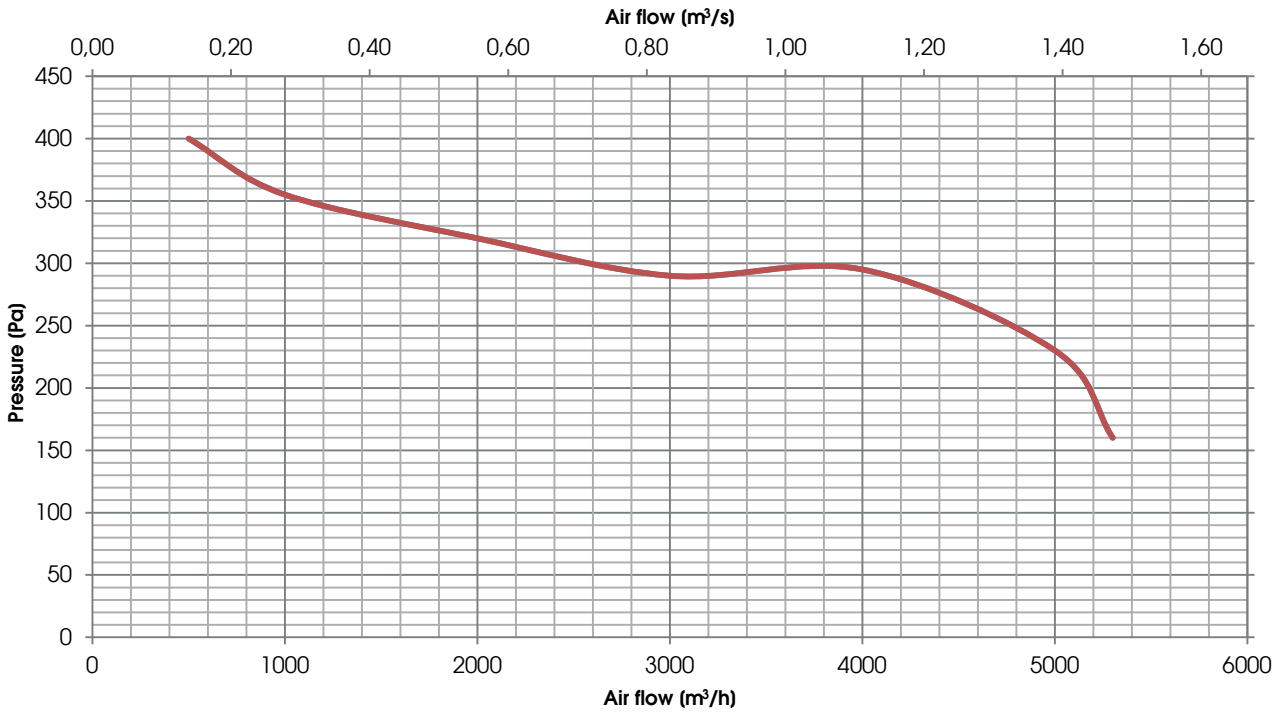




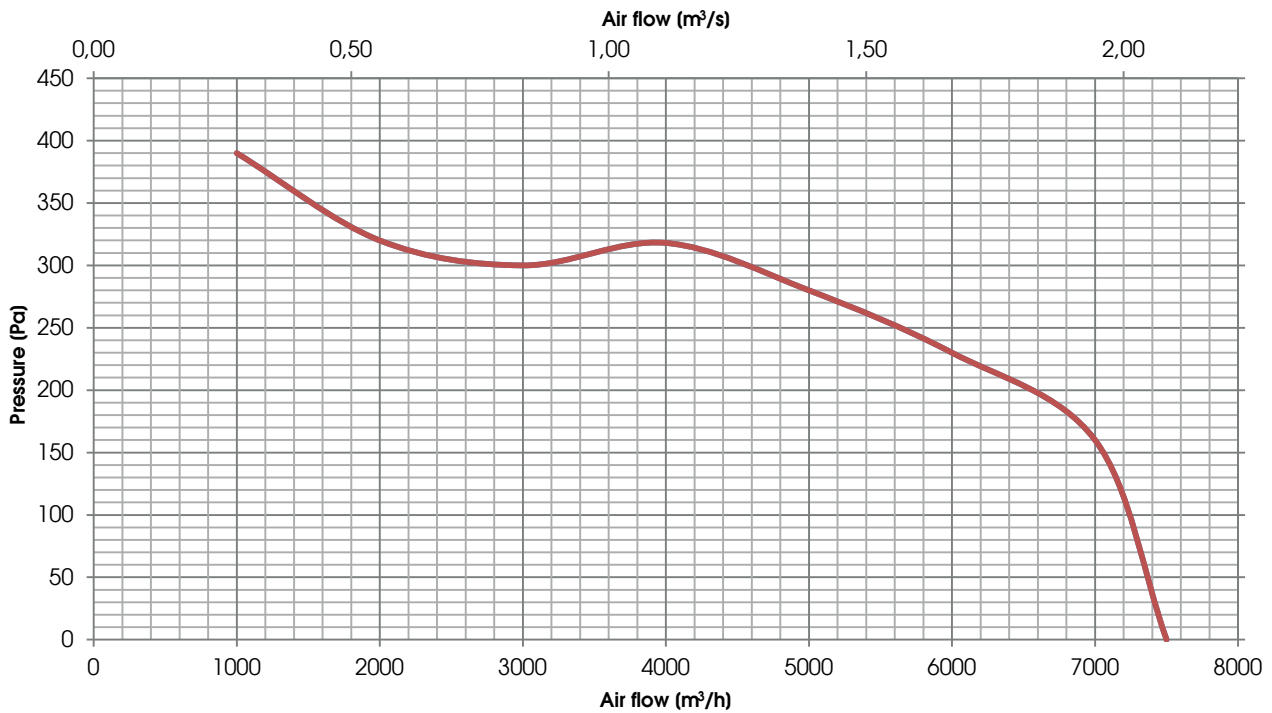
## PERFORMANCES

Performance calculated with ducted outlet and free inlet. It is authorized the use only inside its performance diagram shown.

### BOX 12-12 6 POLES 590 W



### BOX 12-12 6 POLES 1100 W







## NOISE LEVEL

Lw Sound power level taken in accordance to UNI EN ISO 3747 - CLASS 3

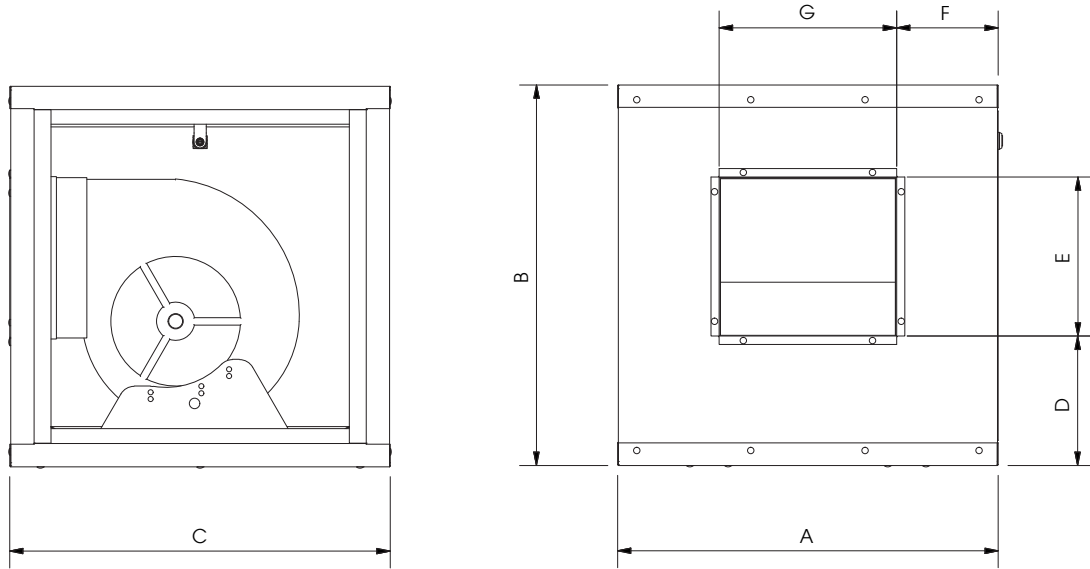
UNIT	NOISE IN THE DUCTS (dB)								L <sub>WA</sub>	UNIT	NOISE FROM THE CASE (dB)								L <sub>WA</sub>
	125 Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	dB(A)			125 Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	dB(A)	
<b>BOX 7-7</b> 6 poles 1 ph.	62,4	62,4	65,5	62,8	47,9	54,1	56,5	66,7		<b>BOX 7-7</b> 6 poles 1 ph.	53,8	58,6	58,9	56,4	47,1	44,4	46,8	53,2	
<b>BOX 7-7</b> 4 poles 1 ph.	72,0	71,1	74,9	70,9	60,1	65,9	69,5	76,3		<b>BOX 7-7</b> 4 poles 1 ph.	64,5	70,2	66,8	61,5	54,2	53,3	54,0	60,9	
<b>BOX 9-7</b> 4 poles 1 ph.	80,6	85,8	86,3	73,1	69,9	69,9	71,9	85,0		<b>BOX 9-7</b> 4 poles 1 ph.	73,4	77,0	75,0	68,8	62,4	60,6	59,8	68,7	
<b>BOX 9-9</b> 4 poles 1 ph.	81,3	85,9	79,8	73,4	70,9	69,8	79,3	83,4		<b>BOX 9-9</b> 4 poles 1 ph.	69,5	81,7	73,5	69,8	63,9	61,6	64,3	69,4	
<b>BOX 10-8</b> 4 poles 1 ph.	78,2	84,8	83,5	76,4	70,6	74,7	76,5	84,5		<b>BOX 10-8</b> 4 poles 1 ph.	70,3	74,3	76,4	69,9	64,8	65,5	64,7	69,5	
<b>BOX 10-8</b> 6 poles 1 ph.	73,7	75,0	81,2	71,1	62,8	67,8	69,9	79,9		<b>BOX 10-8</b> 6 poles 1 ph.	62,3	70,1	69,3	64,3	58,0	56,9	53,4	63,0	
<b>BOX 10-10</b> 4 poles 1 ph.	82,0	88,4	87,3	79,7	76,6	79,2	76,9	88,1		<b>BOX 10-10</b> 4 poles 1 ph.	71,0	79,2	75,3	72,3	65,6	64,1	63,9	70,1	
<b>BOX 10-10</b> 6 poles 1 ph.	73,3	77,5	78,3	68,1	62,3	64,8	69,2	77,7		<b>BOX 10-10</b> 6 poles 1 ph.	65,0	64,6	61,4	56,8	49,9	48,8	47,6	55,9	
<b>BOX 12-9</b> 6 poles 1 ph.	71,5	79,7	73,4	76,3	69,9	71,1	72,5	80,4		<b>BOX 12-9</b> 6 poles 1 ph.	63,4	72,6	70,5	68,4	61,6	62,5	58,8	65,4	
<b>BOX 12-9</b> 6 poles 3 ph.	75,5	82,0	75,4	78,5	71,1	73,1	76,7	82,7		<b>BOX 12-9</b> 6 poles 3 ph.	68,8	78,0	74,1	68,4	64,8	62,7	60,4	68,2	
<b>BOX 12-12</b> 6 poles 1 ph.	71,6	86,9	80,2	73,3	71,4	71,7	74,2	83,0		<b>BOX 12-12</b> 6 poles 1 ph.	70,3	78,0	73,4	68,1	62,7	63,2	61,2	67,8	
<b>BOX 12-12</b> 6 poles 3 ph.	77,3	84,9	81,7	77,4	74,3	73,0	76,4	84,2		<b>BOX 12-12</b> 6 poles 3 ph.	72,3	76,4	72,6	67,1	62,1	58,9	57,5	66,8	

## ELECTRICAL DATA ENGINES

UNIT	Power (W)	Voltage (V)	Current (A)	N. phases	Frequency (Hz)
<b>BOX 7-7 (4 pole)</b>	147	230	1,3	1	50
<b>BOX 7-7 (6 pole)</b>	50	230	0,6	1	50
<b>BOX 9-7 (4 pole)</b>	420	230	3,6	1	50
<b>BOX 9-9 (4 pole)</b>	420	230	3,7	1	50
<b>BOX 10-8 (4 pole)</b>	550	230	5,0	1	50
<b>BOX 10-8 (6 pole)</b>	250	230	3,0	1	50
<b>BOX 10-10 (4 pole)</b>	550	230	5,0	1	50
<b>BOX 10-10 (6 pole)</b>	250	230	2,4	1	50
<b>BOX 12-9 (6 pole)</b>	590	230	6,4	1	50
<b>BOX 12-9 (6 pole)</b>	1100	400	3,6	3	50
<b>BOX 12-12 (6 pole)</b>	590	230	7,5	1	50
<b>BOX 12-12 (6 pole)</b>	1100	400	4,0	3	50



DIMENSIONS (mm) WEIGHT (kg)



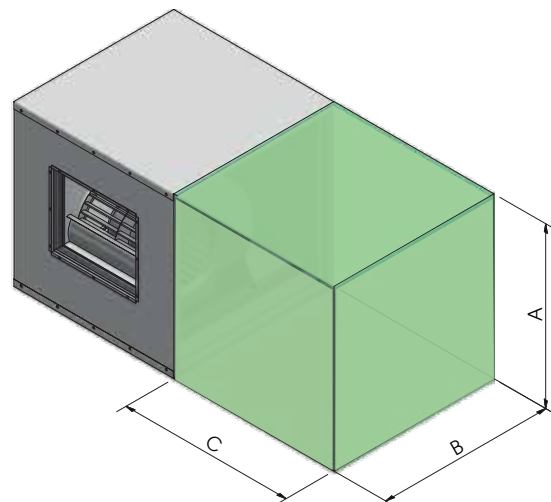
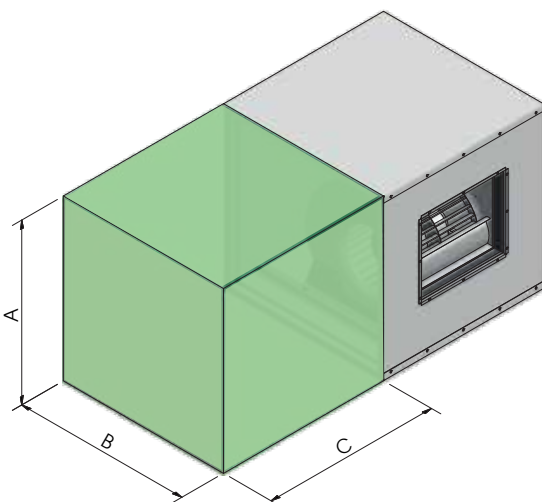
UNIT	A	B	C	D	E	F	G	Peso
BOX 7/7	500	500	500	170	205	132	236	22
BOX 9/7	500	500	500	170	263	132	236	30
BOX 9/9	600	600	600	170	263	150	300	35
BOX 10/8	600	600	600	196	291	166	268	35
BOX 10/10	600	600	600	196	291	133	334	37
BOX 12/9	750	750	750	226	345	219	312	56
BOX 12/12	750	750	750	226	345	176	398	59

INSTALLATION

BOX INSTALLATION

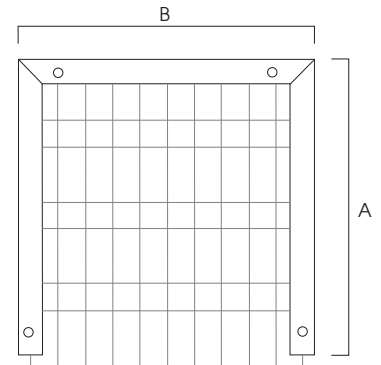
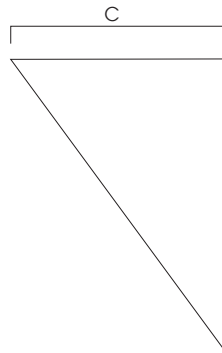
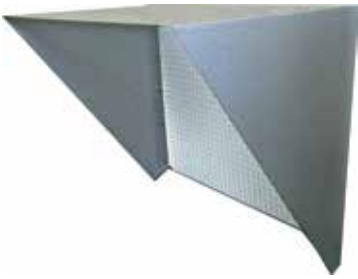
Minimum required space for maintenance (mm)

MOD.	A (mm)	B (mm)	C (mm)
BOX 7-7	500	500	500
BOX 9-7	500	500	500
BOX 9-9	600	600	500
BOX 10-8	600	600	500
BOX 10-10	600	600	500
BOX 12-9	750	750	500
BOX 12-12	750	750	500



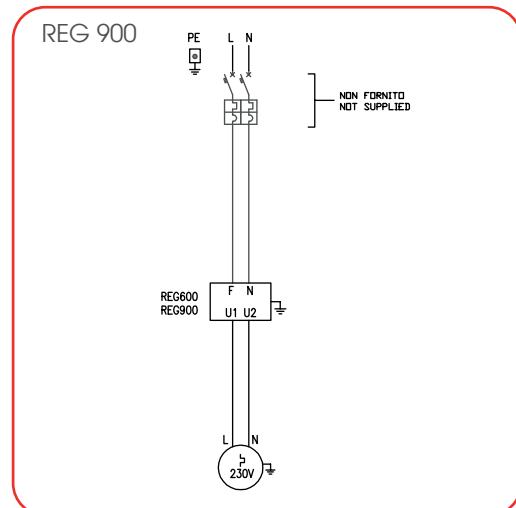
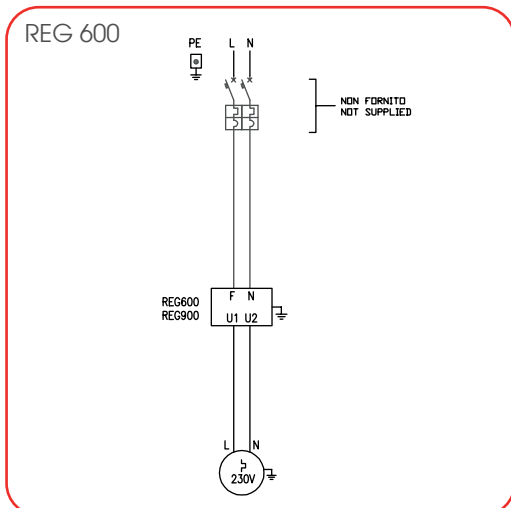
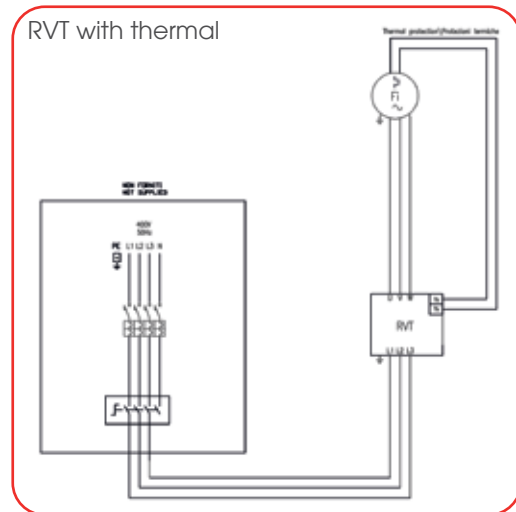
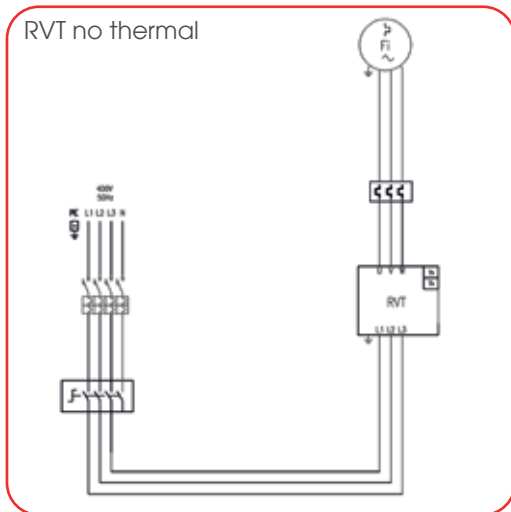


PROTECTION COWL FOR BOX



UNIT	A (mm)	B (mm)	C (mm)
BOX 7-7	260	305	220
BOX 9-7	310	305	270
BOX 9-9	310	370	270
BOX 10-8	340	335	270
BOX 10-10	340	402	270
BOX 12-9	390	380	300
BOX 12-12	390	465	300

CONTROLLERS



CLA & UTEK reserves the right to at any time the necessary changes to improve products without prior notice .

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