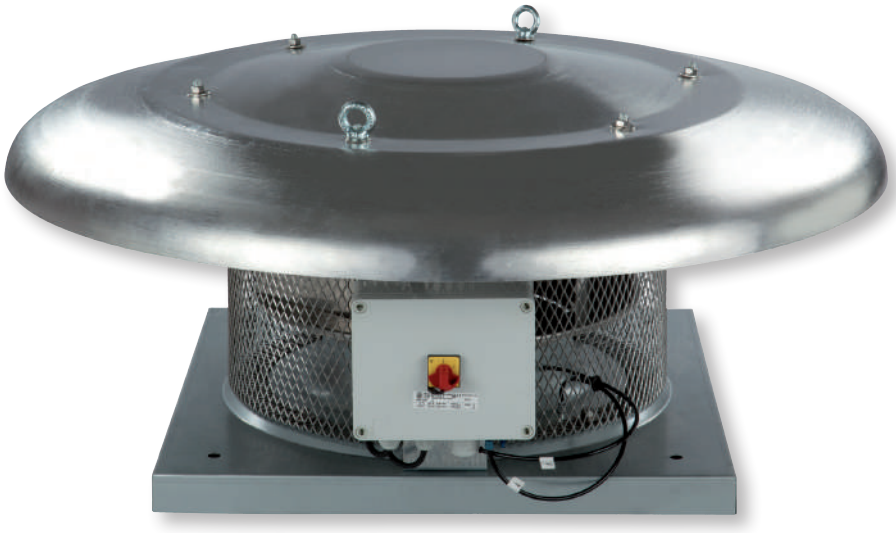


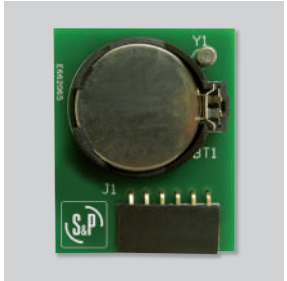
CONSTANT PRESSURE

CONSTANT FLOW

Low profile
External rotor motor to limit the height of the fan.

Bird proof guard

Programming device PROSYS ECOWATT
To modify parameters and adjust setting values.



Module for TIMER RTC ECOWATT programmable timer, as an accessory.
It allows programming schedules via PROSYS ECOWATT programming device.

Centrifugal roof mounted fan in horizontal discharge format fitted with:
- EC external rotor motor.
- Centrifugal backward curved impeller.
- Steel finger guard.
- Base manufactured from galvanized sheet steel.
- ON-OFF electrical isolated switched.

And supplies with integral control to enable the fan operating in 4 different modes:
- Constant pressure mode.
- Constant volume mode.
- Proportional mode.
- Min-max mode.

Integrated control
- Possibility to connect up to 32 fans together to design a fan network which can be adjusted and controlled with only one programming device.
- 2 analogue inputs, 0-10V or 4-20mA.
- 1 digital input (Night position - min-max operating mode).
- Main supply: 1~230V±15% 50/60Hz.
- Programming device (PROSYS), to adjust settings, supplied as accessory.
- This serie is able to be controlled and displayed via Modbus-RTU network.

Constant pressure operating mode
- Minimum fan speed between 0-50%.
- Maximum fan speed between 50-100%
- Night position adjustable between 25-100% of the pressure in high speed.

Constant volume operating mode
- Minimum fan speed between 0-50%.
- Maximum fan speed between 50-100%.
- Night position adjustable between 50-100% of the volume in high speed.

Proportional operating mode
- 2 analogical inputs 0-10V or 4-20mA.
- The control operates in function of the maximum demand parameter.
- Minimum fan speed between 0-50%.
- Maximum fan speed between 50-100%.
- Alarm relay output.

Min-max operating mode
- Function of the contact position connected to digital input, the fan runs at high speed or at low speed.
- Minimum fan speed between 0-50%.
- Maximum fan speed between 50-100%.

Centrifugal roof mounted fan in vertical discharge format fitted with:
- EC external rotor motor.
- Centrifugal backward curved impeller.
- Steel finger guard.
- Base manufactured from galvanized sheet steel.
  Cowl manufactured from galvanised steel and aluminium cover with very low profile design.
- ON-OFF electrical isolated switched.

And supplies with integral control to enable the fan operating in 4 different modes:
- Constant pressure mode.
- Constant volume mode.
- Proportional mode.
- Min-max mode.

CONSTANT PRESSURE

CONSTANT FLOW

Integrated control
PROSYS ECOWATT programming device, to establish working parameters, as an accessory.
- Possibility to connect up to 32 fans together to design a fan network which can be adjusted and controlled with only one programming device.
- 2 analogue inputs, 0-10V or 4-20mA.
- 1 digital input (Night position - min-max operating mode).
- Main supply: 1~230V±15% 50/60Hz.
- Programming device (PROSYS), to adjust settings, supplied as accessory.

Constant pressure operating mode
- Minimum fan speed between 0-50%.
- Maximum fan speed between 50-100%.
- Night position adjustable between 25-100% of the pressure in high speed.

Constant volume operating mode
- Minimum fan speed between 0-50%.
- Maximum fan speed between 50-100%.
- Night position adjustable between 50-100% of the volume in high speed.

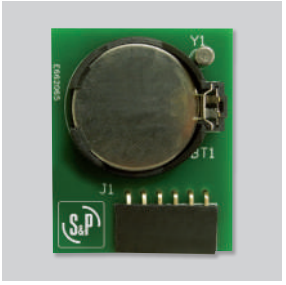
Proportional operating mode
- 2 analogical inputs 0-10V or 4-20mA.
- The control operates in function of the maximum demand parameter.
- Minimum fan speed between 0-50%.
- Maximum fan speed between 50-100%.
- Alarm relay output.

Min-max operating mode
- Function of the contact position connected to digital input, the fan runs at high speed or at low speed.
- Minimum fan speed between 0-50%.
- Maximum fan speed between 50-100%.

Backward curved centrifugal impellers
To prevent accumulation of dirt.

Bird proof guard.

Programming device PROSYS ECOWATT
To modify parameters and adjust setting values.



Module for TIMER RTC ECOWATT programmable timer, as an accessory.
It allows programming schedules via PROSYS ECOWATT programming device.

TECHNICAL CHARACTERISTICS

Before installation check that the product electrical characteristics listed on the data plate label (Voltage, power, frequency, etc.) match those of the intended electrical supply.

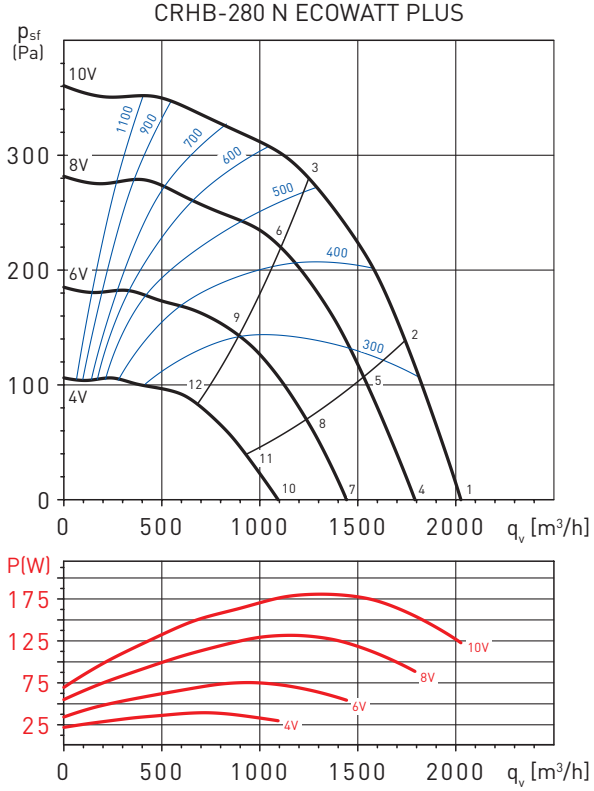
Model	Input signal voltage (V-Hz)	Speed (r.p.m.)	Maximum absorbed power (W)	Maximum absorbed current (A)	Maximum airflow (m^3/h)	Sound pressure level* at 4m (dB(A))		Weight (kg)
						Inlet	Outlet	
HORIZONTAL DISCHARGE MODELS								
CRHB-280 N ECOWATT PLUS	10	1800	180	0,8	2.026	44	51	16
	8	1592	131	0,6	1.593	42	49	
	6	1288	75	0,4	1.439	37	44	
	4	979	39	0,2	1.093	31	38	
CRHB-315 N ECOWATT PLUS	10	1700	276	0,8	2.812	49	52	18
	8	1493	200	0,6	2.498	47	50	
	6	1295	127	0,3	2.204	44	48	
	4	1091	78	0,3	1.826	39	43	
CRHB-355 N ECOWATT PLUS	10	1499	338	1,4	3.456	46	54	22
	8	1332	238	1,0	3.082	43	51	
	6	1098	143	0,6	3.644	39	47	
	4	859	73	0,3	2.024	34	42	
VERTICAL DISCHARGE MODELS								
CRVB-250 N ECOWATT PLUS	10	2640	216	1,4	1320	47	51	11,5
	8	2280	142	1	1150	44	48	
	6	1770	71	0,5	890	38	43	
	4	1260	31	0,3	640	31	35	
CRVB-280 N ECOWATT PLUS	10	1799	183	0,8	1.823	46	55	18
	8	1576	129	0,6	1.593	43	52	
	6	1273	74	0,4	1.283	38	47	
	4	967	30	0,3	988	32	41	
CRVB-315 N ECOWATT PLUS	10	1700	270	0,8	2.703	51	58	20
	8	1468	183	0,6	2.411	47	55	
	6	1276	124	0,3	2.087	43	50	
	4	1078	81	0,2	1.756	38	44	
CRVB-355 N ECOWATT PLUS	10	1499	348	1,5	3.388	43	49	25
	8	1332	242	1,0	3.016	40	46	
	6	1105	143	0,6	2.530	36	43	
	4	862	74	0,4	2.051	31	37	

* Sound pressure level measured at 4 m, roof fan installed on a plan, at the 3 - 7 - 11 - 15 and 19 working points of the performance curve.

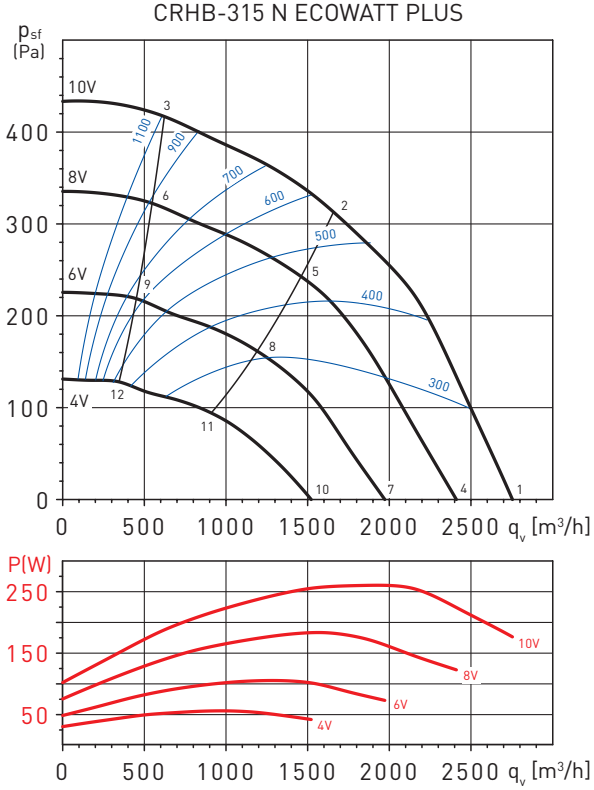
PERFORMANCE CURVES - ACOUSTIC CHARACTERISTICS

- q_v: Airflow in m^3/h.
- p_{sf}: Static pressure in Pa.
- P: Input power in W.
- SFP: Specific fan power in $W/m^3/s$ (blue curves).
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.

CRHB-280 N ECOWATT PLUS



CRHB-315 N ECOWATT PLUS



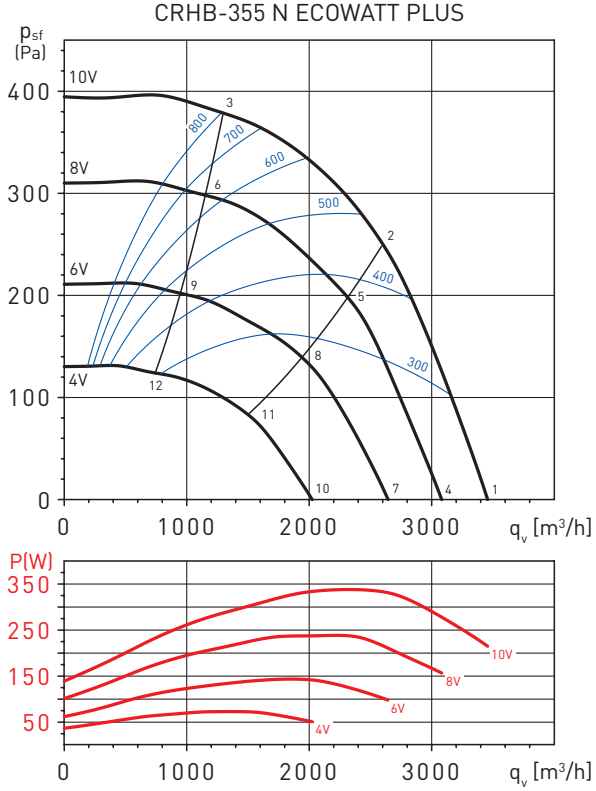
Working point		63	125	250	500	1.000	2.000	4.000	8.000	LwA
1	Inlet	37,0	51,0	59,0	64,0	62,0	62,0	63,0	53,0	69,4
	Outlet	38,0	53,0	64,0	68,0	72,0	70,0	68,0	58,0	76,2
2	Inlet	35,0	46,0	56,0	61,0	61,0	61,0	60,0	51,0	67,3
	Outlet	35,0	47,0	62,0	66,0	71,0	68,0	65,0	55,0	74,5
3	Inlet	33,0	43,0	55,0	61,0	61,0	61,0	58,0	49,0	66,8
	Outlet	33,0	45,0	59,0	64,0	71,0	68,0	63,0	54,0	73,9
4	Inlet	34,3	48,3	56,3	61,3	59,3	59,3	60,3	50,3	66,8
	Outlet	35,3	50,3	61,3	65,3	69,3	67,3	65,3	55,3	73,5
5	Inlet	32,3	43,3	53,3	58,3	58,3	58,3	57,3	48,3	64,6
	Outlet	32,3	44,3	59,3	63,3	68,3	65,3	62,3	52,3	71,8
6	Inlet	30,3	40,3	52,3	58,3	58,3	58,3	55,3	46,3	64,2
	Outlet	30,3	42,3	56,3	61,3	68,3	65,3	60,3	51,3	71,2
7	Inlet	27,1	41,1	49,1	54,1	52,1	52,1	53,1	43,1	59,5
	Outlet	30,7	45,7	56,7	60,7	64,7	62,7	60,7	50,7	68,9
8	Inlet	27,7	38,7	48,7	53,7	53,7	53,7	52,7	43,7	60,0
	Outlet	27,7	39,7	54,7	58,7	63,7	60,7	57,7	47,7	67,2
9	Inlet	25,7	35,7	47,7	53,7	53,7	53,7	50,7	41,7	59,6
	Outlet	25,7	37,7	51,7	56,7	63,7	60,7	55,7	46,7	66,6
10	Inlet	23,8	37,8	45,8	50,8	48,8	48,8	49,8	39,8	56,2
	Outlet	24,8	39,8	50,8	54,8	58,8	56,8	54,8	44,8	63,0
11	Inlet	21,8	32,8	42,8	47,8	47,8	47,8	46,8	37,8	54,1
	Outlet	21,8	33,8	48,8	52,8	57,8	54,8	51,8	41,8	61,2
12	Inlet	19,8	29,8	41,8	47,8	47,8	47,8	44,8	35,8	53,6
	Outlet	19,8	31,8	45,8	50,8	57,8	54,8	49,8	40,8	60,7

Working point		63	125	250	500	1.000	2.000	4.000	8.000	LwA
1	Inlet	39,0	53,0	64,0	65,0	65,0	65,0	66,0	56,0	72,2
	Outlet	41,0	56,0	68,0	72,0	74,0	70,0	70,0	59,0	78,4
2	Inlet	33,0	45,0	59,0	60,0	61,0	62,0	58,0	50,0	67,3
	Outlet	39,0	47,0	63,0	67,0	72,0	67,0	62,0	54,0	74,7
3	Inlet	51,0	59,0	63,0	62,0	63,0	63,0	60,0	52,0	69,8
	Outlet	52,0	61,0	66,0	69,0	73,0	70,0	66,0	59,0	76,8
4	Inlet	36,2	50,2	61,2	62,2	62,2	62,2	63,2	53,2	69,4
	Outlet	38,2	53,2	65,2	69,2	71,2	67,2	67,2	56,2	75,6
5	Inlet	30,2	42,2	56,2	57,2	58,2	59,2	55,2	47,2	64,5
	Outlet	36,2	44,2	60,2	64,2	69,2	64,2	59,2	51,2	72,0
6	Inlet	48,2	56,2	60,2	59,2	60,2	60,2	57,2	49,2	67,1
	Outlet	49,2	58,2	63,2	66,2	70,2	67,2	63,2	56,2	74,0
7	Inlet	28,6	42,6	53,6	54,6	54,6	54,6	55,6	45,6	61,8
	Outlet	33,4	48,4	60,4	64,4	66,4	62,4	62,4	51,4	70,7
8	Inlet	25,4	37,4	51,4	52,4	53,4	54,4	50,4	42,4	59,7
	Outlet	31,4	39,4	55,4	59,4	64,4	59,4	54,4	46,4	67,1
9	Inlet	43,4	51,4	55,4	54,4	55,4	55,4	52,4	44,4	62,2
	Outlet	44,4	53,4	58,4	61,4	65,4	62,4	58,4	51,4	69,2
10	Inlet	25,5	39,5	50,5	51,5	51,5	51,5	52,5	42,5	58,7
	Outlet	27,5	42,5	54,5	58,5	60,5	56,5	56,5	45,5	64,8
11	Inlet	19,5	31,5	45,5	46,5	47,5	48,5	44,5	36,5	53,8
	Outlet	25,5	33,5	49,5	53,5	58,5	53,5	48,5	40,5	61,2
12	Inlet	37,5	45,5	49,5	48,5	49,5	49,5	46,5	38,5	56,3
	Outlet	38,5	47,5	52,5	55,5	59,5	56,5	52,5	45,5	63,3

PERFORMANCE CURVES - ACOUSTIC CHARACTERISTICS

- q_v: Airflow in m^3/h.
- p_{sf}: Static pressure in Pa.
- P: Input power in W.
- SFP: Specific fan power in $W/m^3/s$ (blue curves).
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.

CRHB-355 N ECOWATT PLUS

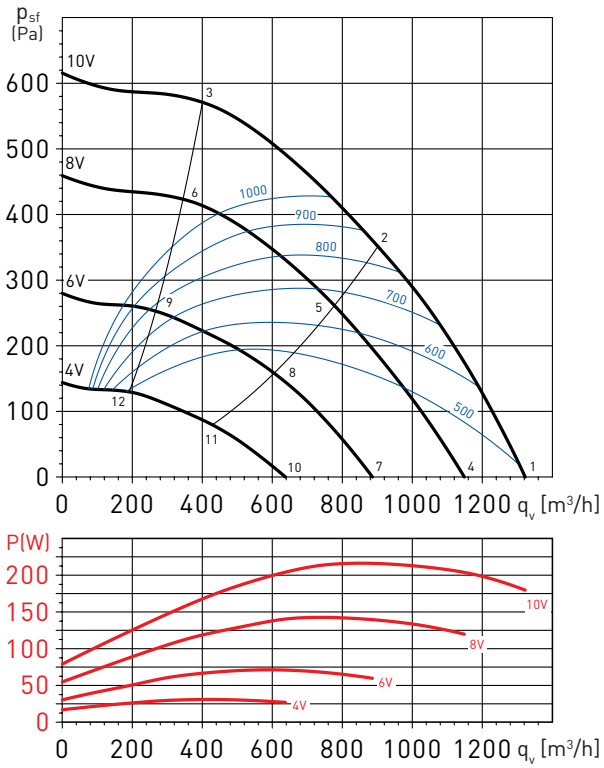


Working point		63	125	250	500	1.000	2.000	4.000	8.000	LwA
1	Inlet	40,0	57,0	65,0	65,0	65,0	65,0	65,0	56,0	72,2
	Outlet	41,0	63,0	67,0	72,0	76,0	73,0	71,0	62,0	79,9
2	Inlet	35,0	52,0	57,0	58,0	61,0	65,0	63,0	55,0	69,0
	Outlet	36,0	58,0	62,0	68,0	73,0	71,0	68,0	60,0	76,8
3	Inlet	42,0	55,0	60,0	60,0	63,0	63,0	59,0	52,0	68,6
	Outlet	42,0	58,0	61,0	68,0	74,0	72,0	68,0	61,0	77,5
4	Inlet	37,4	54,4	62,4	62,4	62,4	62,4	62,4	53,4	69,7
	Outlet	38,4	60,4	64,4	69,4	73,4	70,4	68,4	59,4	77,3
5	Inlet	32,4	49,4	54,4	55,4	58,4	62,4	60,4	52,4	66,5
	Outlet	33,4	55,4	59,4	65,4	70,4	68,4	65,4	57,4	74,3
6	Inlet	39,4	52,4	57,4	57,4	60,4	60,4	56,4	49,4	66,1
	Outlet	39,4	55,4	58,4	65,4	71,4	69,4	65,4	58,4	75,0
7	Inlet	30,7	47,7	55,7	55,7	55,7	55,7	55,7	46,7	62,9
	Outlet	34,2	56,2	60,2	65,2	69,2	66,2	64,2	55,2	73,1
8	Inlet	28,2	45,2	50,2	51,2	54,2	58,2	56,2	48,2	62,3
	Outlet	29,2	51,2	55,2	61,2	66,2	64,2	61,2	53,2	70,1
9	Inlet	35,2	48,2	53,2	53,2	56,2	56,2	52,2	45,2	61,9
	Outlet	35,2	51,2	54,2	61,2	67,2	65,2	61,2	54,2	70,8
10	Inlet	27,9	44,9	52,9	52,9	52,9	52,9	52,9	43,9	60,1
	Outlet	28,9	50,9	54,9	59,9	63,9	60,9	58,9	49,9	67,8
11	Inlet	22,9	39,9	44,9	45,9	48,9	52,9	50,9	42,9	57,0
	Outlet	23,9	45,9	49,9	55,9	60,9	58,9	55,9	47,9	64,8
12	Inlet	29,9	42,9	47,9	47,9	50,9	50,9	46,9	39,9	56,5
	Outlet	29,9	45,9	48,9	55,9	61,9	59,9	55,9	48,9	65,4

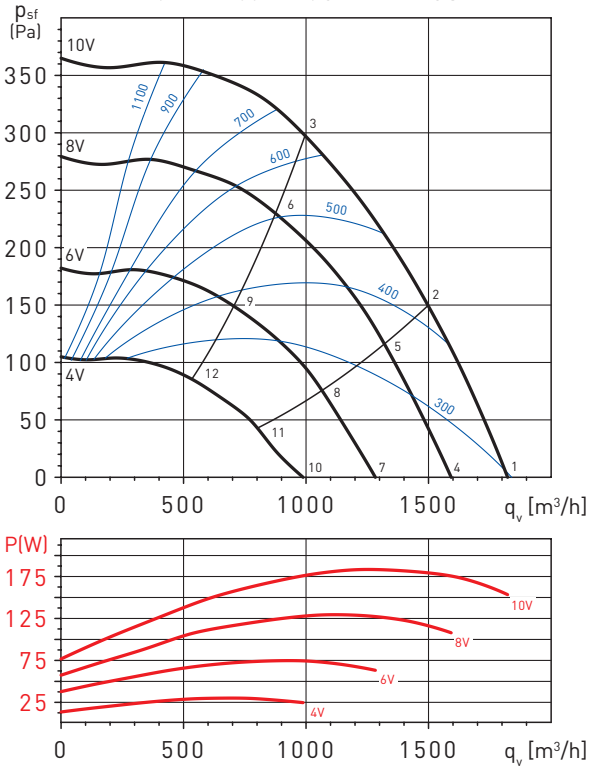
PERFORMANCE CURVES - ACOUSTIC CHARACTERISTICS

- q_v: Airflow in m^3/h.
- p_{sf}: Static pressure in Pa.
- P: Input power in W.
- SFP: Specific fan power in $W/m^3/s$ (blue curves).
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.

CRVB-250 N ECOWATT PLUS



CRVB-280 N ECOWATT PLUS



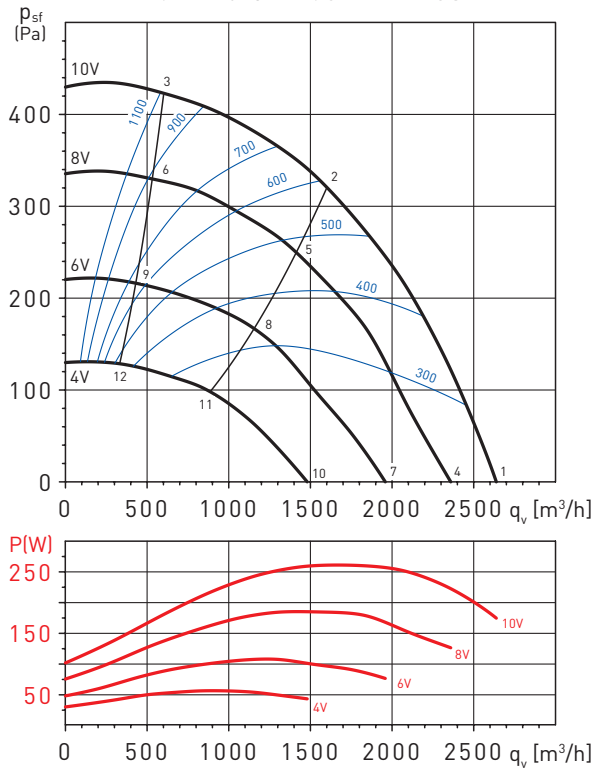
Working point		63	125	250	500	1.000	2.000	4.000	8.000	LwA
1	Inlet	36,0	49,0	63,0	66,0	69,0	68,0	69,0	62,0	75,0
	Outlet	43,0	51,0	65,0	69,0	73,0	75,0	72,0	65,0	79,0
2	Inlet	35,0	46,0	62,0	61,0	64,0	64,0	62,0	57,0	70,0
	Outlet	37,0	45,0	62,0	64,0	68,0	71,0	66,0	60,0	74,0
3	Inlet	35,0	49,0	61,0	64,0	65,0	69,0	64,0	59,0	73,0
	Outlet	35,0	48,0	61,0	66,0	70,0	75,0	71,0	64,0	78,0
4	Inlet	33,0	46,0	60,0	63,0	66,0	65,0	66,0	58,0	72,0
	Outlet	40,0	47,0	62,0	66,0	69,0	72,0	69,0	62,0	76,0
5	Inlet	32,0	43,0	58,0	58,0	60,0	61,0	59,0	54,0	67,0
	Outlet	34,0	42,0	59,0	60,0	65,0	68,0	63,0	56,0	71,0
6	Inlet	32,0	46,0	58,0	61,0	62,0	66,0	61,0	56,0	70,0
	Outlet	32,0	45,0	58,0	63,0	67,0	72,0	68,0	61,0	75,0
7	Inlet	27,0	40,0	55,0	57,0	61,0	60,0	60,0	53,0	66,0
	Outlet	34,0	42,0	56,0	60,0	64,0	66,0	63,0	56,0	70,0
8	Inlet	27,0	37,0	53,0	53,0	55,0	55,0	54,0	48,0	61,0
	Outlet	28,0	37,0	53,0	55,0	59,0	62,0	57,0	51,0	66,0
9	Inlet	27,0	40,0	53,0	55,0	57,0	61,0	56,0	50,0	64,0
	Outlet	27,0	39,0	53,0	58,0	61,0	66,0	62,0	55,0	69,0
10	Inlet	20,0	33,0	47,0	50,0	53,0	52,0	53,0	46,0	59,0
	Outlet	27,0	35,0	49,0	53,0	57,0	59,0	56,0	49,0	63,0
11	Inlet	19,0	30,0	46,0	45,0	48,0	48,0	46,0	41,0	54,0
	Outlet	21,0	29,0	46,0	48,0	52,0	55,0	50,0	44,0	58,0
12	Inlet	19,0	33,0	45,0	48,0	49,0	53,0	48,0	43,0	57,0
	Outlet	19,0	32,0	45,0	50,0	54,0	59,0	55,0	48,0	62,0

Working point		63	125	250	500	1.000	2.000	4.000	8.000	LwA
1	Inlet	37,0	48,0	60,0	64,0	63,0	64,0	61,0	53,0	69,8
	Outlet	41,0	51,0	71,0	71,0	75,0	72,0	65,0	55,0	78,8
2	Inlet	34,0	44,0	58,0	63,0	62,0	63,0	59,0	51,0	68,5
	Outlet	37,0	46,0	68,0	72,0	74,0	71,0	62,0	52,0	77,9
3	Inlet	33,0	43,0	55,0	61,0	61,0	61,0	58,0	49,0	66,8
	Outlet	33,0	45,0	59,0	64,0	71,0	68,0	63,0	54,0	73,9
4	Inlet	34,1	45,1	57,1	61,1	60,1	61,1	58,1	50,1	66,9
	Outlet	38,1	48,1	68,1	68,1	72,1	69,1	62,1	52,1	75,9
5	Inlet	31,1	41,1	55,1	60,1	59,1	60,1	56,1	48,1	65,7
	Outlet	34,1	43,1	65,1	69,1	71,1	68,1	59,1	49,1	75,0
6	Inlet	30,1	40,1	55,1	59,1	59,1	60,1	54,1	47,1	65,2
	Outlet	33,1	43,1	59,1	68,1	70,1	66,1	58,1	49,1	73,5
7	Inlet	26,6	37,6	49,6	53,6	52,6	53,6	50,6	42,6	59,4
	Outlet	33,5	43,5	63,5	63,5	67,5	64,5	57,5	47,5	71,3
8	Inlet	26,5	36,5	50,5	55,5	54,5	55,5	51,5	43,5	61,0
	Outlet	29,5	38,5	60,5	64,5	66,5	63,5	54,5	44,5	70,4
9	Inlet	25,5	35,5	50,5	54,5	54,5	55,5	49,5	42,5	60,6
	Outlet	28,5	38,5	54,5	63,5	65,5	61,5	53,5	44,5	68,9
10	Inlet	23,5	34,5	46,5	50,5	49,5	50,5	47,5	39,5	56,3
	Outlet	27,5	37,5	57,5	57,5	61,5	58,5	51,5	41,5	65,3
11	Inlet	20,5	30,5	44,5	49,5	48,5	49,5	45,5	37,5	55,1
	Outlet	23,5	32,5	54,5	58,5	60,5	57,5	48,5	38,5	64,4
12	Inlet	19,5	29,5	44,5	48,5	48,5	49,5	43,5	36,5	54,6
	Outlet	22,5	32,5	48,5	57,5	59,5	55,5	47,5	38,5	62,9

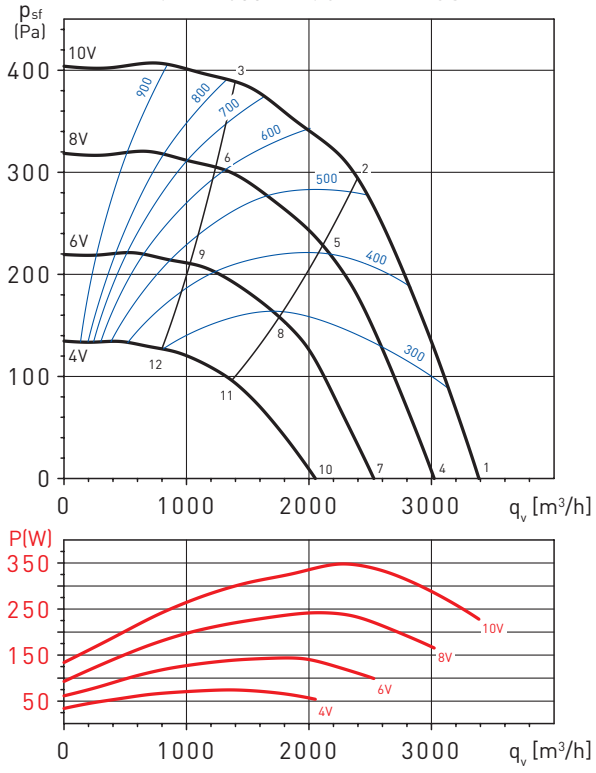
PERFORMANCE CURVES - ACOUSTIC CHARACTERISTICS

- q_v: Airflow in m^3/h.
- p_{sf}: Static pressure in Pa.
- P: Input power in W.
- SFP: Specific fan power in $W/m^3/s$ (blue curves).
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.

CRVB-315 N ECOWATT PLUS



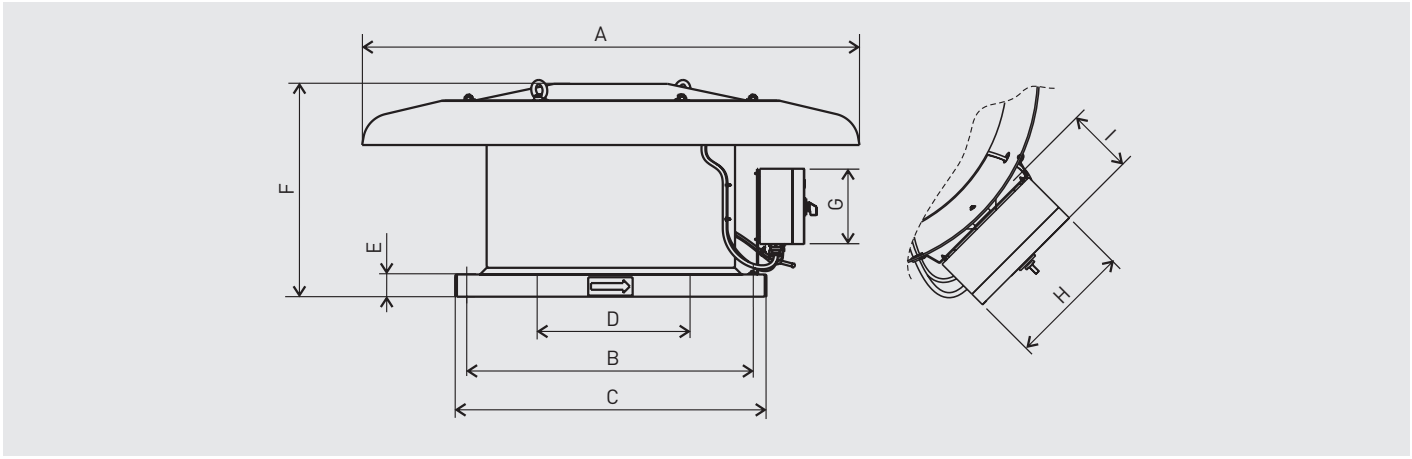
CRVB-355 N ECOWATT PLUS



Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	Inlet	41,0	55,0	74,0	68,0	67,0	65,0	65,0	57,0	76,4
	Outlet	41,0	53,0	65,0	59,0	67,0	66,0	64,0	57,0	72,1
2	Inlet	39,0	51,0	73,0	68,0	65,0	64,0	61,0	53,0	75,3
	Outlet	39,0	51,0	63,0	58,0	65,0	65,0	60,0	53,0	70,1
3	Inlet	37,0	49,0	68,0	68,0	65,0	62,0	59,0	53,0	72,7
	Outlet	36,0	47,0	58,0	56,0	65,0	64,0	60,0	53,0	69,0
4	Inlet	38,2	52,2	71,2	65,2	64,2	62,2	62,2	54,2	73,6
	Outlet	38,2	50,2	62,2	56,2	64,2	63,2	61,2	54,2	69,3
5	Inlet	36,2	48,2	70,2	65,2	62,2	61,2	58,2	50,2	72,5
	Outlet	36,2	48,2	60,2	55,2	62,2	62,2	57,2	50,2	67,3
6	Inlet	34,2	46,2	65,2	65,2	62,2	59,2	56,2	50,2	69,9
	Outlet	33,2	44,2	55,2	53,2	62,2	61,2	57,2	50,2	66,2
7	Inlet	30,6	44,6	63,6	57,6	56,6	54,6	54,6	46,6	66,0
	Outlet	33,4	45,4	57,4	51,4	59,4	58,4	56,4	49,4	64,5
8	Inlet	31,4	43,4	65,4	60,4	57,4	56,4	53,4	45,4	67,6
	Outlet	31,4	43,4	55,4	50,4	57,4	57,4	52,4	45,4	62,5
9	Inlet	29,4	41,4	60,4	60,4	57,4	54,4	51,4	45,4	65,0
	Outlet	28,4	39,4	50,4	48,4	57,4	56,4	52,4	45,4	61,4
10	Inlet	27,5	41,5	60,5	54,5	53,5	51,5	51,5	43,5	62,9
	Outlet	27,5	39,5	51,5	45,5	53,5	52,5	50,5	43,5	58,6
11	Inlet	25,5	37,5	59,5	54,5	51,5	50,5	47,5	39,5	61,7
	Outlet	25,5	37,5	49,5	44,5	51,5	51,5	46,5	39,5	56,6
12	Inlet	23,5	35,5	54,5	54,5	51,5	48,5	45,5	39,5	59,1
	Outlet	22,5	33,5	44,5	42,5	51,5	50,5	46,5	39,5	55,5

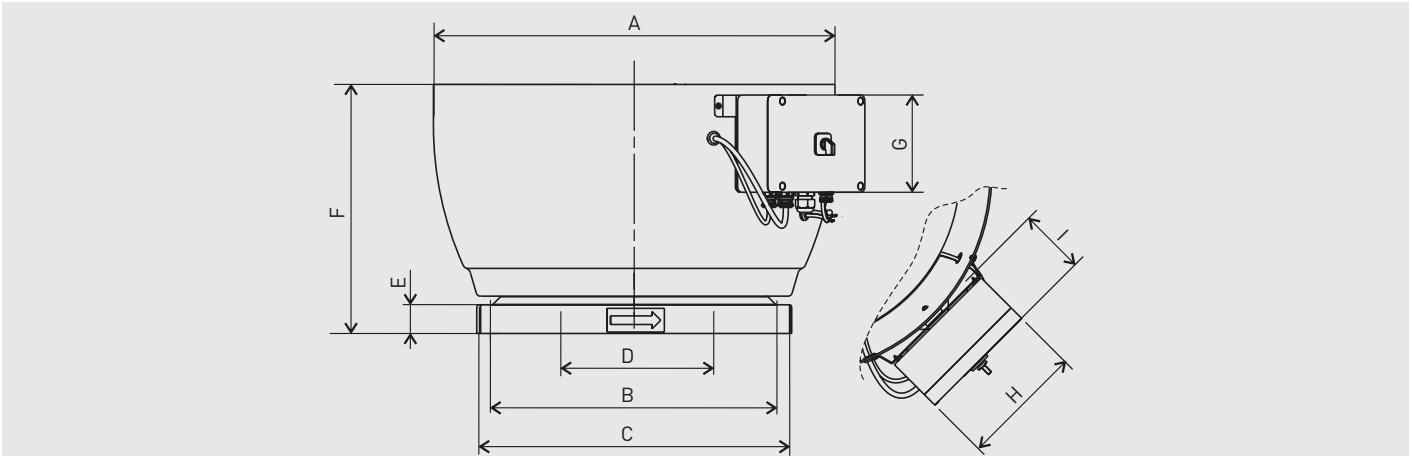
Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	Inlet	37,0	50,0	59,0	61,0	62,0	64,0	62,0	50,0	69,0
	Outlet	37,0	58,0	65,0	68,0	69,0	67,0	65,0	53,0	74,2
2	Inlet	31,0	45,0	56,0	60,0	60,0	61,0	55,0	46,0	66,1
	Outlet	32,0	57,0	63,0	67,0	67,0	65,0	58,0	49,0	72,1
3	Inlet	44,0	53,0	61,0	62,0	62,0	59,0	53,0	46,0	67,5
	Outlet	44,0	55,0	62,0	68,0	69,0	66,0	59,0	51,0	73,2
4	Inlet	34,3	47,3	56,3	58,3	59,3	61,3	59,3	47,3	66,3
	Outlet	34,3	55,3	62,3	65,3	66,3	64,3	62,3	50,3	71,5
5	Inlet	28,3	42,3	53,3	57,3	57,3	58,3	52,3	43,3	63,3
	Outlet	29,3	54,3	60,3	64,3	64,3	62,3	55,3	46,3	69,4
6	Inlet	41,3	50,3	58,3	59,3	59,3	56,3	50,3	43,3	64,8
	Outlet	41,3	52,3	59,3	65,3	66,3	63,3	56,3	48,3	70,5
7	Inlet	27,6	40,6	49,6	51,6	52,6	54,6	52,6	40,6	59,6
	Outlet	30,4	51,4	58,4	61,4	62,4	60,4	58,4	46,4	67,6
8	Inlet	24,4	38,4	49,4	53,4	53,4	54,4	48,4	39,4	59,4
	Outlet	25,4	50,4	56,4	60,4	60,4	58,4	51,4	42,4	65,5
9	Inlet	37,4	46,4	54,4	55,4	55,4	52,4	46,4	39,4	60,9
	Outlet	37,4	48,4	55,4	61,4	62,4	59,4	52,4	44,4	66,6
10	Inlet	25,0	38,0	47,0	49,0	50,0	52,0	50,0	38,0	57,0
	Outlet	25,0	46,0	53,0	56,0	57,0	55,0	53,0	41,0	62,2
11	Inlet	19,0	33,0	44,0	48,0	48,0	49,0	43,0	34,0	54,1
	Outlet	20,0	45,0	51,0	55,0	55,0	53,0	46,0	37,0	60,1
12	Inlet	32,0	41,0	49,0	50,0	50,0	47,0	41,0	34,0	55,5
	Outlet	32,0	43,0	50,0	56,0	57,0	54,0	47,0	39,0	61,2

DIMENSIONS (mm) CRHB-N ECOWATT PLUS



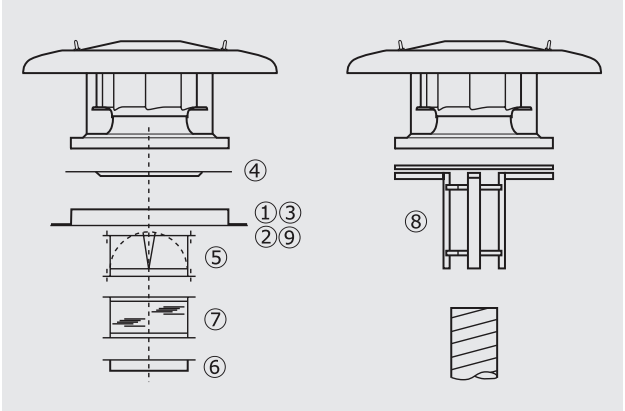
Model	ØA	⍁B	⍁C	ØD	E	F	G	H	I
280	640	330	435	228	40	273,5	136	171	92
315	895	450	560	257	40	324	136	171	92
355	895	450	560	289	40	367	136	171	92

DIMENSIONS (mm) CRVB-N ECOWATT PLUS



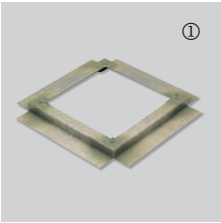
Model	ØA	⍁B	⍁C	ØD	E	F	G	H	I
250	434	245	326	204	35	260	136	136	92
280	560	330	435	228	40	305	136	171	92
315	754	450	560	257	40	395	136	171	92
355	754	450	560	289	40	395	136	171	92

INSTALLATION CRHB-N / CRVB-N ECOWATT PLUS - MOUNTING ACCESSORIES

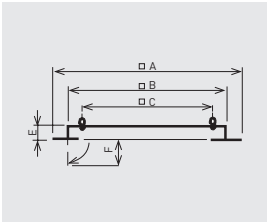


Model of fan	① Sealing frame	② Flat roof insulated up stand	③ Acoustic up stand	④ Accessory adapter plate	⑤ Back draft shutter	⑥ Flange with spigot	⑦ Flexible coupling	⑧ Circular adapter	⑨ Support base for inclined curb installations
250N	JMS-300	JBS-300	JAA-300	JPA-300	JCA-300	JBR-300 N	JAE-300 N	JCC-300	BI-3
280N	JMS-435	JBS-435	JAA-435	JPA-435	JCA-435	JBR-435	JAE-435	JCC-435	BI-4
315N	JMS-560	JBS-560	JAA-560	JPA-560	JCA-560	JBR-560	JAE-560	JCC-560	BI-5
355N	JMS-560	JBS-560	JAA-560	JPA-560	JCA-560	JBR-560	JAE-560	JCC-560	BI-5

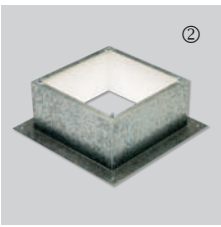
MOUNTING ACCESSORIES



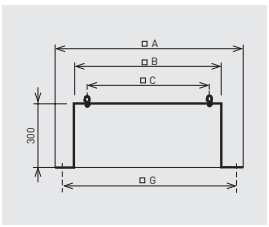
JMS
Sealing frame
- For mounting a roof fan on an up stand or base.
- Supplied with screws and gasket for a complete weatherproof seal.



Model	□A	□B	□C	E	F
JMS-300	470	290	245	50	70
JMS-435	600	420	330	50	70
JMS-560	725	545	450	50	70

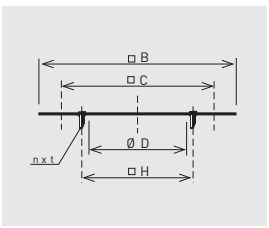


JBS
Flat roof up stand
- For mounting a fan on a flat roof without up stands.
- For use on horizontal roofs.
- Internal insulation to prevent condensation.
- Supplied with screws and gasket for a complete weather seal.



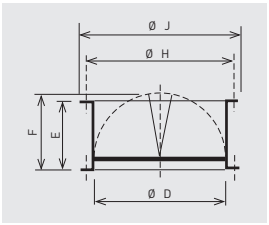
Model	□A	□B	□C	E	□G
JBS-300	470	289	245	300	380
JBS-435	600	419	330	300	510
JBS-560	725	544	450	300	635

JPA
Accessory adapter plate
- Used when mounting the accessories (JCA, JBR, JAE).
- Allows the fan to be disconnected from the upstand without having to remove the duct.



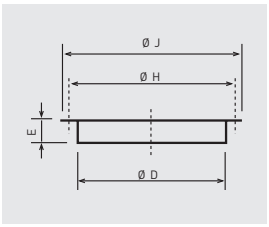
Model	□B	□C	Ø D	nxt	Ø H
JPA-300	289	245	182	4xM6	205
JPA-435	419	330	252	4xM8	280
JPA-560	544	450	358	8xM8	395

JCA / JCA N
Backdraft shutter
- Prevents backdraft when the fan is not operating.
- To be mounted at the fan inlet with the JPA plate.

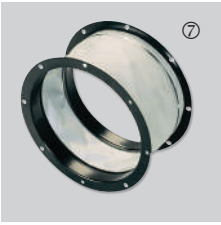


Model	Ø D	E	F	Ø H	Ø J
JCA-300	182	100	124	205	219
JCA-435	252	145	174	280	300
JCA-560 N	358	210	227	395	415

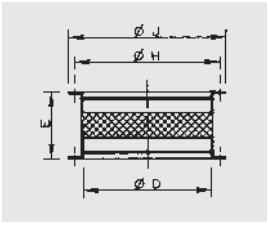
JBR N
Flange
- For use when circular connection is required directly to the fan.
- To be mounted at the fan inlet with the JPA plate or fixed directly to the fan base (rivets or screws not supplied).



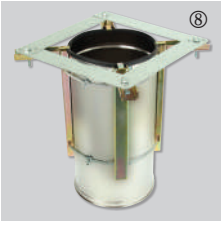
Model	Ø D	E	Ø H	Ø J
JBR-300 N	182	55	205	219
JBR-435 N	252	55	280	300
JBR-560 N	358	55	395	415



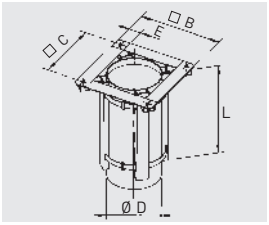
JAE N
Flexible coupling
- Reduces the transmission of vibrations when the duct is connected directly to the fan.
- To be mounted at the fan inlet with JPA plate.



Model	Ø D	E	Ø H	Ø J
JAE-300 N	182	164	205	219
JAE-435 N	252	164	280	300
JAE-560 N	358	164	395	415

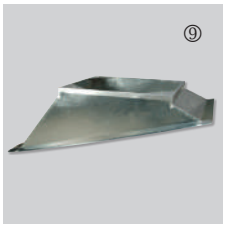


JCC
Adapter for circular duct
- For use when fitting the models up to 400, directly to a spirally wound circular duct.

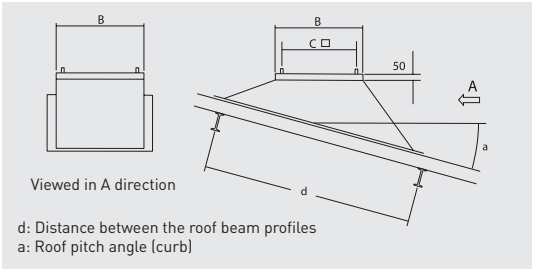


Model	Ø B	Ø C	Ø D	E	L
JCC-300	290	245	180	45	350
JCC-435	390	330	250	60	350
JCC-560	520	450	355	70	350

MOUNTING ACCESSORIES



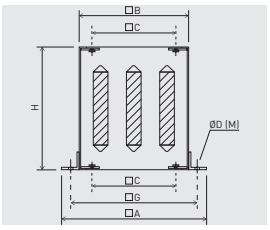
BI
Support base for inclined curb mounted installations
- To ensure a proper installation of the CRHB-CRHT roof fan it is essential to specify the roof pitch angle and the distance between the roof beam profiles.



d: Distance between the roof beam profiles
a: Roof pitch angle (curb)

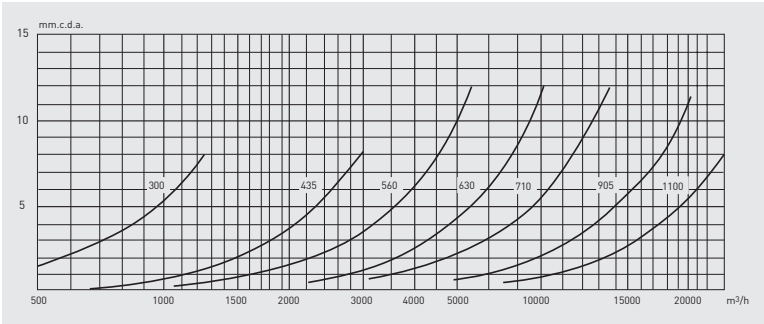
	B	C
BI-3	289	245
BI-4	419	330
BI-5	544	450

JAA
Acoustic up stand
- Reduces in duct and radiated noise.
- For use when mounting a fan on a flat roof without up stands.
- Supplied with screws and gasket for a complete weather seal.



Model	□A	□B	□C	Ø D (M)	H	□G
JAA-300	470	290	245	13 (M10)	750	380
JAA-435	600	419	330	15 (MI2)	750	510
JAA-560	725	545	450	15 (MI2)	750	635

Acoustic attenuation in dB(A) at the corresponding frequency band in Hz.

Model	125	250	500	1000	2000	4000	8000
JAA-300	1	5	13	22	23	16	12
JAA-435	1	7	16	23	25	18	13
JAA-560	2	8	16	29	32	26	17

JAA Attenuator pressure drops