



- 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.

Motors

High-performance and low-energy-consumption brushless motor with external rotor, 230V ±10% 50/60 Hz power supply, IP44 rating, ball bearings and a thermal protector.

MODELS 250 TO 355

With built-in plug and play control, pre-configured to work at a constant pressure (COP) and a set point of 100 Pa. The PROSYS ECOWATT programming console will allow you to adjust the settings of the constant pressure (COP) mode and three additional modes:

- Constant Flow (CAV).
- Proportional (VAV).
- Minimum-maximum.
- Time programmer (Timer [RTC] accessory needed).

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%.

Timer (RTC)

By purchasing the Timer (RTC) accessory alongside the PROSYS ECOWATT programming console you will be able to programme a time period for it to operate.

- Up to three time periods with the chosen set point.
- Holiday periods.

MODELS 400 AND 450

With built-in plug and play control, pre-configured to work at a constant pressure (COP) with a set point of 100 Pa. These models feature:

- Remote on/off relay.
- Boost relay.
- Night mode relay.
- Two-way alarm relay.

In addition, its built-in electronic system allows you to manually configure the following operating modes:

- Constant Flow (CAV).
- Proportional (VAV).
- Minimum-maximum.
- Modbus RTU communications.

N.B.: The PROSYS ECOWATT programming console and the TIMER RTC ECOWATT timer module are not compatible with these models.



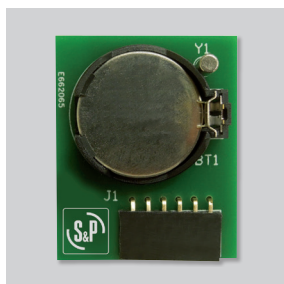
Low profile
 External rotor motor to limit the height of the fan.



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 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.

Motors

High-performance and low-energy-consumption brushless motor with external rotor, 230V ±10% 50/60 Hz power supply, IP44 rating, ball bearings and a thermal protector.

MODELS 250 TO 355

With built-in plug and play control, pre-configured to work at a constant pressure (COP) and a set point of 100 Pa. The PROSYS ECOWATT programming console will allow you to adjust the settings of the constant pressure (COP) mode and three additional modes:

- Constant Flow (CAV).
- Proportional (VAV).
- Minimum-maximum.
- Time programmer (Timer [RTC] accessory needed).

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%.

Timer (RTC)

By purchasing the Timer (RTC) accessory alongside the PROSYS ECOWATT programming console you will be able to programme a time period for it to operate.

- Up to three time periods with the chosen set point.
- Holiday periods.

MODELS 400 AND 450

With built-in plug and play control, pre-configured to work at a constant pressure (COP) with a set point of 100 Pa. These models feature:

- Remote on/off relay.
 - Boost relay.
 - Night mode relay.
 - Two-way alarm relay.
- In addition, its built-in electronic system allows you to manually configure the following operating modes:
- Constant Flow (CAV).
 - Proportional (VAV).
 - Minimum-maximum.
 - Modbus RTU communications.

N.B.: The PROSYS ECOWATT programming console and the TIMER RTC ECOWATT timer module are not compatible with these models.



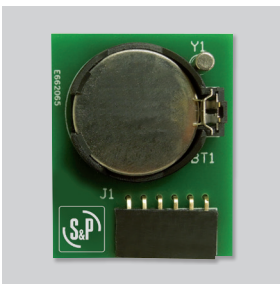
Backward curved centrifugal impellers
 To prevent accumulation of dirt.



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.

AUTORREGULATED LOW CONSUMPTION ROOF MOUNTED FANS

CRHB-N / CRVB-N ECOWATT PLUS Series



TECHNICAL CHARACTERISTICS

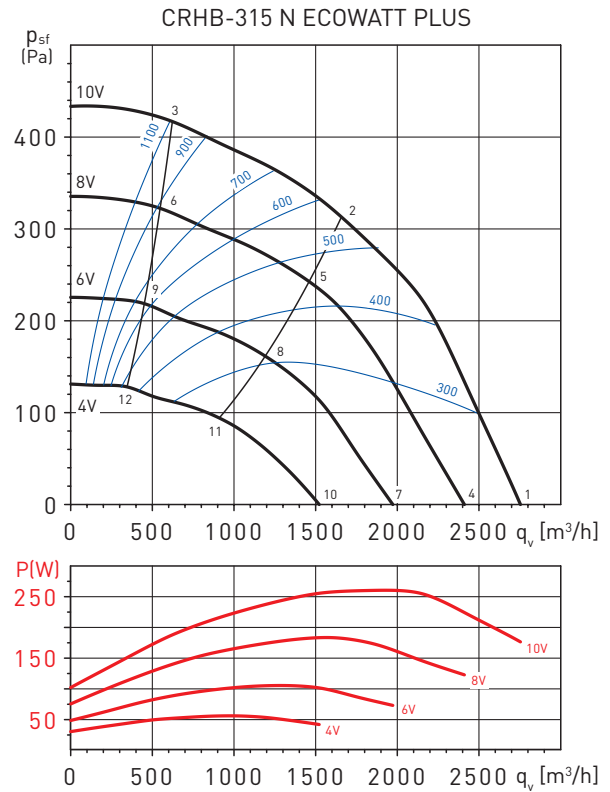
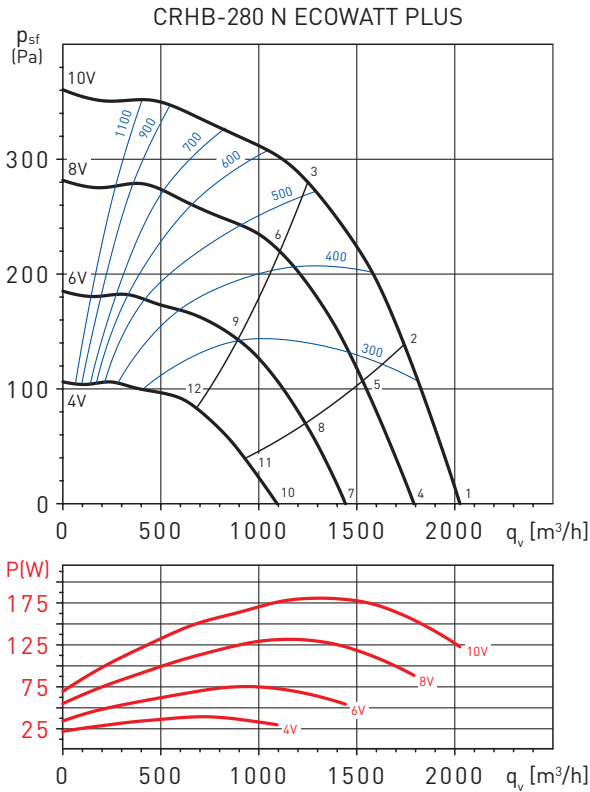
Before installation check that the product electrical characteristics listed on the data plate label (Voltage, power, frequency, etc.) match those of the intended electrical supply.

| Model | Input signal voltage (V-Hz) | Speed (r.p.m.) | Maximum absorbed power (W) | Maximum absorbed current (A) | Maximum airflow (m³/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 | |
| CRHB-400 N ECOWATT PLUS | 10 | 1770 | 917 | 3,8 | 5.730 | 55 | 62 | 32 |
| | 8 | 1580 | 664 | 2,8 | 4.990 | 53 | 60 | |
| | 6 | 1250 | 345 | 1,5 | 3.990 | 48 | 54 | |
| | 4 | 950 | 167 | 0,7 | 2.960 | 42 | 48 | |
| CRHB-450 N ECOWATT PLUS | 10 | 1400 | 861 | 3,6 | 6.280 | 53 | 60 | 35 |
| | 8 | 1230 | 594 | 2,5 | 5.520 | 50 | 57 | |
| | 6 | 1020 | 340 | 1,4 | 4.540 | 46 | 53 | |
| | 4 | 820 | 188 | 0,8 | 3.650 | 41 | 48 | |
| VERTICAL DISCHARGE MODELS | | | | | | | | |
| CRVB-250 N ECOWATT PLUS | 10 | 2640 | 216 | 1,4 | 1.320 | 47 | 51 | 11,5 |
| | 8 | 2280 | 142 | 1 | 1.150 | 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 | |
| CRVB-400 N ECOWATT PLUS | 10 | 1770 | 953 | 3,9 | 5.560 | 55 | 58 | 34 |
| | 8 | 1560 | 646 | 2,7 | 4.920 | 52 | 55 | |
| | 6 | 1270 | 366 | 1,5 | 3.980 | 48 | 51 | |
| | 4 | 960 | 173 | 0,8 | 2.900 | 41 | 45 | |
| CRVB-450 N ECOWATT PLUS | 10 | 1400 | 839 | 3,5 | 6.050 | 47 | 59 | 37 |
| | 8 | 1260 | 654 | 2,7 | 5.460 | 45 | 57 | |
| | 6 | 1030 | 362 | 1,5 | 4.440 | 40 | 52 | |
| | 4 | 820 | 196 | 0,8 | 3.540 | 35 | 47 | |

* 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.



| Working point | | 63 | 125 | 250 | 500 | 1.000 | 2.000 | 4.000 | 8.000 | LwA |
|---------------|--------|----|-----|-----|-----|-------|-------|-------|-------|-----|
| 1 | Inlet | 37 | 51 | 59 | 64 | 62 | 62 | 63 | 53 | 69 |
| | Outlet | 38 | 53 | 64 | 68 | 72 | 70 | 68 | 58 | 76 |
| 2 | Inlet | 35 | 46 | 56 | 61 | 61 | 61 | 60 | 51 | 67 |
| | Outlet | 35 | 47 | 62 | 66 | 71 | 68 | 65 | 55 | 75 |
| 3 | Inlet | 33 | 43 | 55 | 61 | 61 | 61 | 58 | 49 | 67 |
| | Outlet | 33 | 45 | 59 | 64 | 71 | 68 | 63 | 54 | 74 |
| 4 | Inlet | 34 | 48 | 56 | 61 | 59 | 59 | 60 | 50 | 67 |
| | Outlet | 35 | 50 | 61 | 65 | 69 | 67 | 65 | 55 | 74 |
| 5 | Inlet | 32 | 43 | 53 | 58 | 58 | 58 | 57 | 48 | 65 |
| | Outlet | 32 | 44 | 59 | 63 | 68 | 65 | 62 | 52 | 72 |
| 6 | Inlet | 30 | 40 | 52 | 58 | 58 | 58 | 55 | 46 | 64 |
| | Outlet | 30 | 42 | 56 | 61 | 68 | 65 | 60 | 51 | 71 |
| 7 | Inlet | 27 | 41 | 49 | 54 | 52 | 52 | 53 | 43 | 60 |
| | Outlet | 31 | 46 | 57 | 61 | 65 | 63 | 61 | 51 | 69 |
| 8 | Inlet | 28 | 39 | 49 | 54 | 54 | 54 | 53 | 44 | 60 |
| | Outlet | 28 | 40 | 55 | 59 | 64 | 61 | 58 | 48 | 67 |
| 9 | Inlet | 26 | 36 | 48 | 54 | 54 | 54 | 51 | 42 | 60 |
| | Outlet | 26 | 38 | 52 | 57 | 64 | 61 | 56 | 47 | 67 |
| 10 | Inlet | 24 | 38 | 46 | 51 | 49 | 49 | 50 | 40 | 56 |
| | Outlet | 25 | 40 | 51 | 55 | 59 | 57 | 55 | 45 | 63 |
| 11 | Inlet | 22 | 33 | 43 | 48 | 48 | 48 | 47 | 38 | 54 |
| | Outlet | 22 | 34 | 49 | 53 | 58 | 55 | 52 | 42 | 61 |
| 12 | Inlet | 20 | 30 | 42 | 48 | 48 | 48 | 45 | 36 | 54 |
| | Outlet | 20 | 32 | 46 | 51 | 58 | 55 | 50 | 41 | 61 |

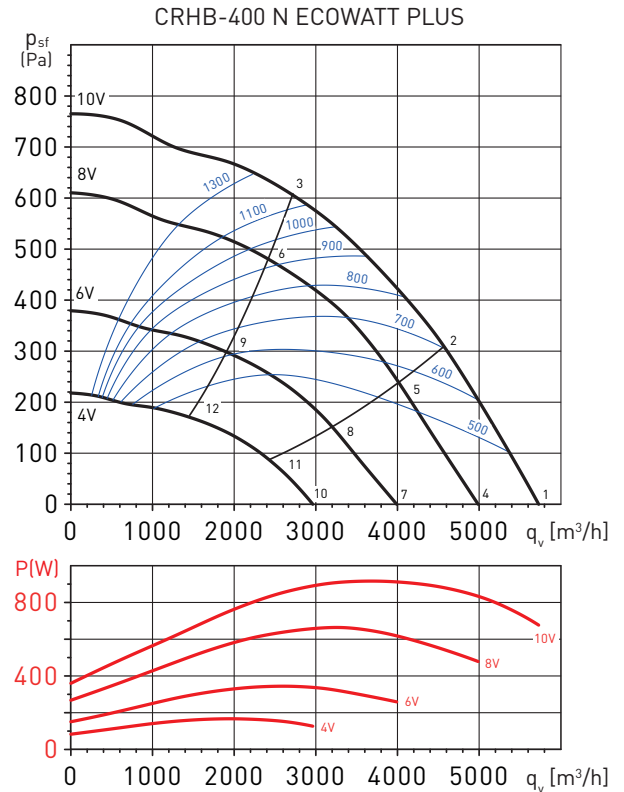
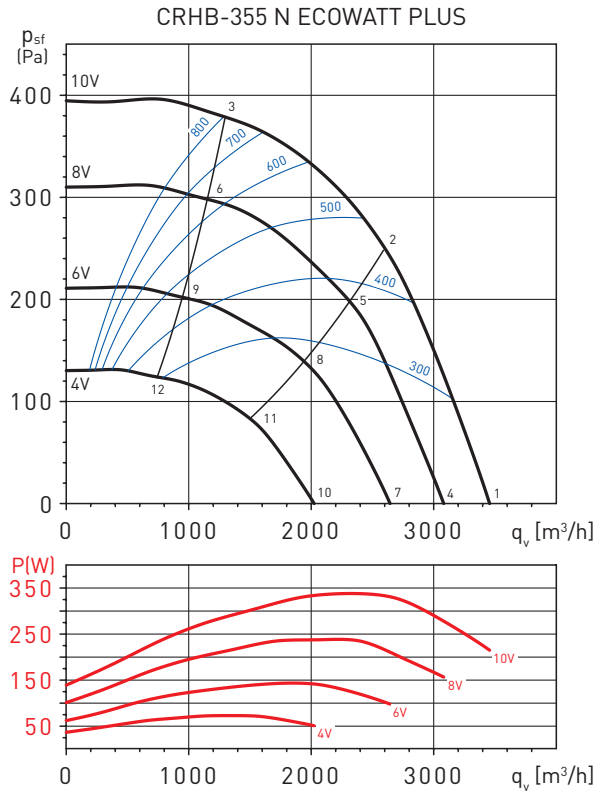
| Working point | | 63 | 125 | 250 | 500 | 1.000 | 2.000 | 4.000 | 8.000 | LwA |
|---------------|--------|----|-----|-----|-----|-------|-------|-------|-------|-----|
| 1 | Inlet | 39 | 53 | 64 | 65 | 65 | 65 | 66 | 56 | 72 |
| | Outlet | 41 | 56 | 68 | 72 | 74 | 70 | 70 | 59 | 78 |
| 2 | Inlet | 33 | 45 | 59 | 60 | 61 | 62 | 58 | 50 | 67 |
| | Outlet | 39 | 47 | 63 | 67 | 72 | 67 | 62 | 54 | 75 |
| 3 | Inlet | 51 | 59 | 63 | 62 | 63 | 63 | 60 | 52 | 70 |
| | Outlet | 52 | 61 | 66 | 69 | 73 | 70 | 66 | 59 | 77 |
| 4 | Inlet | 36 | 50 | 61 | 62 | 62 | 62 | 63 | 53 | 69 |
| | Outlet | 38 | 53 | 65 | 69 | 71 | 67 | 67 | 56 | 76 |
| 5 | Inlet | 30 | 42 | 56 | 57 | 58 | 59 | 55 | 47 | 65 |
| | Outlet | 36 | 44 | 60 | 64 | 69 | 64 | 59 | 51 | 72 |
| 6 | Inlet | 48 | 56 | 60 | 59 | 60 | 60 | 57 | 49 | 67 |
| | Outlet | 49 | 58 | 63 | 66 | 70 | 67 | 63 | 56 | 74 |
| 7 | Inlet | 29 | 43 | 54 | 55 | 55 | 55 | 56 | 46 | 62 |
| | Outlet | 33 | 48 | 60 | 64 | 66 | 62 | 62 | 51 | 71 |
| 8 | Inlet | 25 | 37 | 51 | 52 | 53 | 54 | 50 | 42 | 60 |
| | Outlet | 31 | 39 | 55 | 59 | 64 | 59 | 54 | 46 | 67 |
| 9 | Inlet | 43 | 51 | 55 | 54 | 55 | 55 | 52 | 44 | 62 |
| | Outlet | 44 | 53 | 58 | 61 | 65 | 62 | 58 | 51 | 69 |
| 10 | Inlet | 26 | 40 | 51 | 52 | 52 | 52 | 53 | 43 | 59 |
| | Outlet | 28 | 43 | 55 | 59 | 61 | 57 | 57 | 46 | 65 |
| 11 | Inlet | 20 | 32 | 46 | 47 | 48 | 49 | 45 | 37 | 54 |
| | Outlet | 26 | 34 | 50 | 54 | 59 | 54 | 49 | 41 | 61 |
| 12 | Inlet | 38 | 46 | 50 | 49 | 50 | 50 | 47 | 39 | 56 |
| | Outlet | 39 | 48 | 53 | 56 | 60 | 57 | 53 | 46 | 63 |

AUTORREGULATED LOW CONSUMPTION ROOF MOUNTED FANS CRHB-N ECOWATT PLUS Series



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.



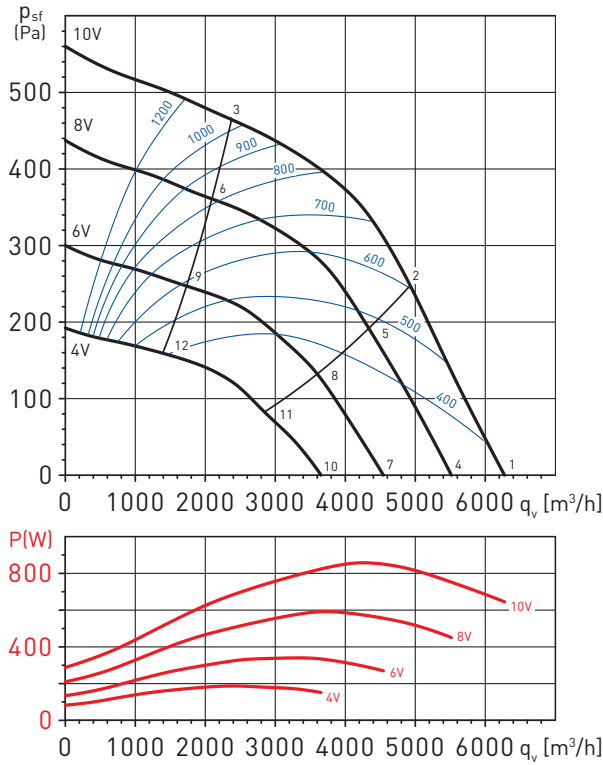
| Working point | | 63 | 125 | 250 | 500 | 1.000 | 2.000 | 4.000 | 8.000 | LwA |
|---------------|--------|----|-----|-----|-----|-------|-------|-------|-------|-----|
| 1 | Inlet | 40 | 57 | 65 | 65 | 65 | 65 | 65 | 56 | 72 |
| | Outlet | 41 | 63 | 67 | 72 | 76 | 73 | 71 | 62 | 80 |
| 2 | Inlet | 35 | 52 | 57 | 58 | 61 | 65 | 63 | 55 | 69 |
| | Outlet | 36 | 58 | 62 | 68 | 73 | 71 | 68 | 60 | 77 |
| 3 | Inlet | 42 | 55 | 60 | 60 | 63 | 63 | 59 | 52 | 69 |
| | Outlet | 42 | 58 | 61 | 68 | 74 | 72 | 68 | 61 | 78 |
| 4 | Inlet | 37 | 54 | 62 | 62 | 62 | 62 | 62 | 53 | 70 |
| | Outlet | 38 | 60 | 64 | 69 | 73 | 70 | 68 | 59 | 77 |
| 5 | Inlet | 32 | 49 | 54 | 55 | 58 | 62 | 60 | 52 | 67 |
| | Outlet | 33 | 55 | 59 | 65 | 70 | 68 | 65 | 57 | 74 |
| 6 | Inlet | 39 | 52 | 57 | 57 | 60 | 60 | 56 | 49 | 66 |
| | Outlet | 39 | 55 | 58 | 65 | 71 | 69 | 65 | 58 | 75 |
| 7 | Inlet | 31 | 48 | 56 | 56 | 56 | 56 | 56 | 47 | 63 |
| | Outlet | 34 | 56 | 60 | 65 | 69 | 66 | 64 | 55 | 73 |
| 8 | Inlet | 28 | 45 | 50 | 51 | 54 | 58 | 56 | 48 | 62 |
| | Outlet | 29 | 51 | 55 | 61 | 66 | 64 | 61 | 53 | 70 |
| 9 | Inlet | 35 | 48 | 53 | 53 | 56 | 56 | 52 | 45 | 62 |
| | Outlet | 35 | 51 | 54 | 61 | 67 | 65 | 61 | 54 | 71 |
| 10 | Inlet | 28 | 45 | 53 | 53 | 53 | 53 | 53 | 44 | 60 |
| | Outlet | 29 | 51 | 55 | 60 | 64 | 61 | 59 | 50 | 68 |
| 11 | Inlet | 23 | 40 | 45 | 46 | 49 | 53 | 51 | 43 | 57 |
| | Outlet | 24 | 46 | 50 | 56 | 61 | 59 | 56 | 48 | 65 |
| 12 | Inlet | 30 | 43 | 48 | 48 | 51 | 51 | 47 | 40 | 57 |
| | Outlet | 30 | 46 | 49 | 56 | 62 | 60 | 56 | 49 | 65 |

| Working point | | 63 | 125 | 250 | 500 | 1.000 | 2.000 | 4.000 | 8.000 | LwA |
|---------------|--------|----|-----|-----|-----|-------|-------|-------|-------|-----|
| 1 | Inlet | 44 | 59 | 74 | 78 | 76 | 74 | 76 | 65 | 83 |
| | Outlet | 47 | 63 | 80 | 83 | 85 | 81 | 80 | 70 | 89 |
| 2 | Inlet | 44 | 56 | 70 | 72 | 71 | 72 | 70 | 61 | 78 |
| | Outlet | 45 | 60 | 77 | 78 | 81 | 77 | 73 | 66 | 85 |
| 3 | Inlet | 42 | 53 | 64 | 67 | 66 | 68 | 63 | 57 | 73 |
| | Outlet | 44 | 57 | 71 | 74 | 76 | 75 | 71 | 65 | 81 |
| 4 | Inlet | 42 | 57 | 72 | 75 | 73 | 72 | 73 | 63 | 80 |
| | Outlet | 44 | 61 | 78 | 81 | 83 | 78 | 77 | 68 | 87 |
| 5 | Inlet | 42 | 53 | 68 | 70 | 69 | 70 | 67 | 58 | 76 |
| | Outlet | 43 | 57 | 74 | 76 | 78 | 75 | 71 | 64 | 83 |
| 6 | Inlet | 40 | 50 | 62 | 64 | 63 | 66 | 61 | 55 | 71 |
| | Outlet | 42 | 55 | 69 | 71 | 74 | 73 | 69 | 62 | 79 |
| 7 | Inlet | 37 | 52 | 67 | 70 | 68 | 67 | 68 | 57 | 75 |
| | Outlet | 39 | 56 | 73 | 75 | 78 | 73 | 72 | 62 | 82 |
| 8 | Inlet | 36 | 48 | 63 | 65 | 63 | 65 | 62 | 53 | 71 |
| | Outlet | 38 | 52 | 69 | 71 | 73 | 70 | 66 | 59 | 77 |
| 9 | Inlet | 34 | 45 | 57 | 59 | 58 | 61 | 56 | 50 | 66 |
| | Outlet | 36 | 50 | 64 | 66 | 69 | 67 | 63 | 57 | 73 |
| 10 | Inlet | 31 | 46 | 61 | 64 | 62 | 61 | 62 | 51 | 69 |
| | Outlet | 33 | 50 | 67 | 69 | 72 | 67 | 66 | 56 | 76 |
| 11 | Inlet | 30 | 42 | 57 | 59 | 57 | 59 | 56 | 47 | 65 |
| | Outlet | 32 | 46 | 63 | 65 | 67 | 64 | 60 | 53 | 71 |
| 12 | Inlet | 28 | 39 | 51 | 53 | 52 | 55 | 50 | 44 | 60 |
| | Outlet | 30 | 44 | 58 | 60 | 63 | 61 | 57 | 51 | 67 |

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-450 N ECOWATT PLUS



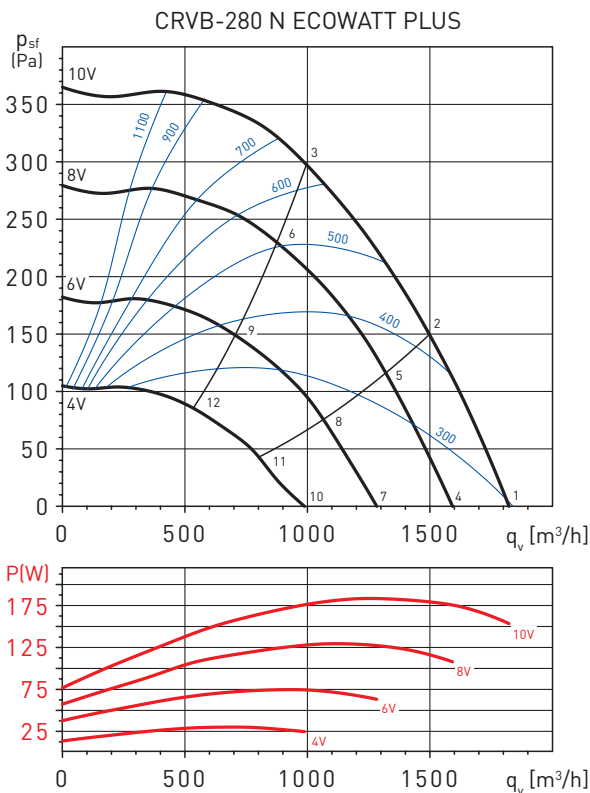
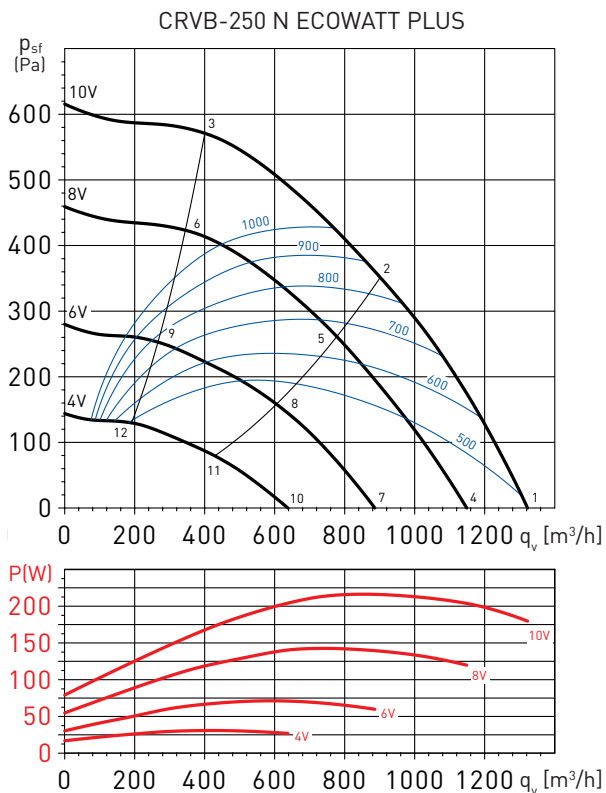
| Working point | 63 | 125 | 250 | 500 | 1.000 | 2.000 | 4.000 | 8.000 | LwA | |
|---------------|--------|-----|-----|-----|-------|-------|-------|-------|-----|----|
| 1 | Inlet | 43 | 61 | 68 | 73 | 72 | 73 | 72 | 63 | 79 |
| | Outlet | 45 | 69 | 74 | 80 | 82 | 80 | 79 | 71 | 87 |
| 2 | Inlet | 42 | 58 | 66 | 70 | 68 | 71 | 66 | 58 | 76 |
| | Outlet | 51 | 65 | 72 | 74 | 77 | 77 | 74 | 69 | 83 |
| 3 | Inlet | 50 | 62 | 69 | 71 | 67 | 69 | 64 | 58 | 76 |
| | Outlet | 42 | 66 | 70 | 76 | 77 | 76 | 72 | 66 | 82 |
| 4 | Inlet | 40 | 58 | 66 | 71 | 69 | 70 | 69 | 60 | 76 |
| | Outlet | 43 | 66 | 71 | 77 | 79 | 77 | 76 | 68 | 84 |
| 5 | Inlet | 39 | 55 | 63 | 67 | 65 | 68 | 63 | 55 | 73 |
| | Outlet | 48 | 62 | 69 | 71 | 75 | 75 | 71 | 66 | 80 |
| 6 | Inlet | 48 | 59 | 66 | 68 | 65 | 66 | 62 | 56 | 73 |
| | Outlet | 40 | 63 | 68 | 73 | 75 | 73 | 69 | 63 | 80 |
| 7 | Inlet | 36 | 54 | 62 | 67 | 65 | 66 | 65 | 56 | 72 |
| | Outlet | 39 | 62 | 67 | 73 | 75 | 73 | 72 | 64 | 80 |
| 8 | Inlet | 35 | 51 | 59 | 63 | 61 | 64 | 59 | 51 | 69 |
| | Outlet | 44 | 58 | 65 | 67 | 71 | 71 | 67 | 62 | 76 |
| 9 | Inlet | 43 | 55 | 62 | 64 | 61 | 62 | 57 | 52 | 69 |
| | Outlet | 36 | 59 | 64 | 69 | 71 | 69 | 65 | 59 | 75 |
| 10 | Inlet | 32 | 49 | 57 | 62 | 60 | 61 | 60 | 51 | 67 |
| | Outlet | 34 | 58 | 62 | 68 | 70 | 68 | 67 | 59 | 75 |
| 11 | Inlet | 30 | 47 | 54 | 58 | 56 | 60 | 54 | 46 | 64 |
| | Outlet | 39 | 54 | 60 | 62 | 66 | 66 | 62 | 57 | 71 |
| 12 | Inlet | 39 | 50 | 57 | 59 | 56 | 57 | 53 | 47 | 64 |
| | Outlet | 31 | 54 | 59 | 64 | 66 | 65 | 60 | 54 | 71 |

AUTORREGULATED LOW CONSUMPTION ROOF MOUNTED FANS CRVB-N ECOWATT PLUS Series



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.

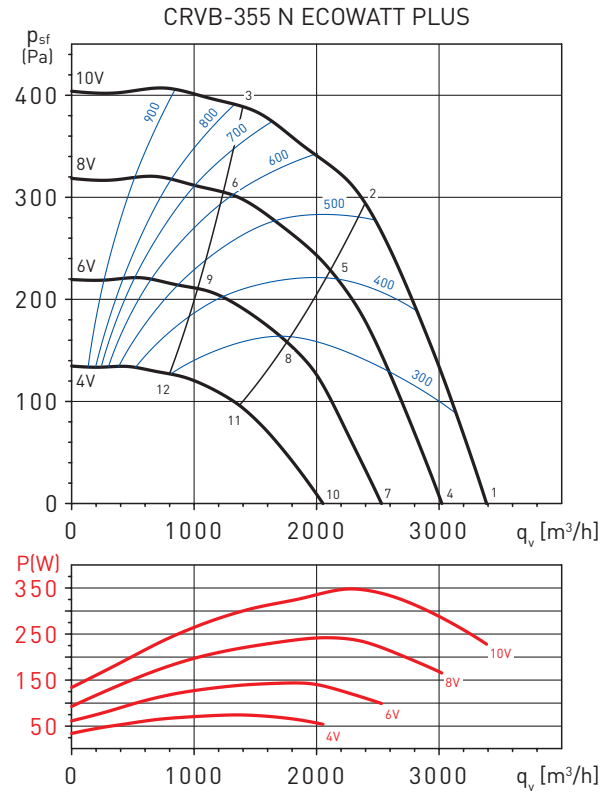
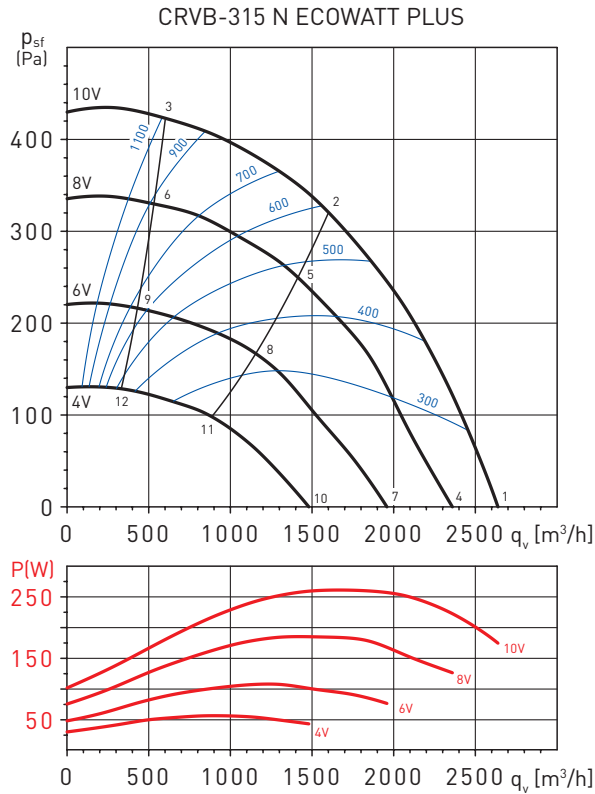


| Working point | | 63 | 125 | 250 | 500 | 1.000 | 2.000 | 4.000 | 8.000 | LwA |
|---------------|--------|----|-----|-----|-----|-------|-------|-------|-------|-----|
| 1 | Inlet | 36 | 49 | 63 | 66 | 69 | 68 | 69 | 62 | 75 |
| | Outlet | 43 | 51 | 65 | 69 | 73 | 75 | 72 | 65 | 79 |
| 2 | Inlet | 35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

| Working point | | 63 | 125 | 250 | 500 | 1.000 | 2.000 | 4.000 | 8.000 | LwA |
|---------------|--------|----|-----|-----|-----|-------|-------|-------|-------|-----|
| 1 | Inlet | 37 | 48 | 60 | 64 | 63 | 64 | 61 | 53 | 70 |
| | Outlet | 41 | 51 | 71 | 71 | 75 | 72 | 65 | 55 | 79 |
| 2 | Inlet | 34 | 44 | 58 | 63 | 62 | 63 | 59 | 51 | 69 |
| | Outlet | 37 | 46 | 68 | 72 | 74 | 71 | 62 | 52 | 78 |
| 3 | Inlet | 33 | 43 | 55 | 61 | 61 | 61 | 58 | 49 | 67 |
| | Outlet | 33 | 45 | 59 | 64 | 71 | 68 | 63 | 54 | 74 |
| 4 | Inlet | 34 | 45 | 57 | 61 | 60 | 61 | 58 | 50 | 67 |
| | Outlet | 38 | 48 | 68 | 68 | 72 | 69 | 62 | 52 | 76 |
| 5 | Inlet | 31 | 41 | 55 | 60 | 59 | 60 | 56 | 48 | 66 |
| | Outlet | 34 | 43 | 65 | 69 | 71 | 68 | 59 | 49 | 75 |
| 6 | Inlet | 30 | 40 | 55 | 59 | 59 | 60 | 54 | 47 | 65 |
| | Outlet | 33 | 43 | 59 | 68 | 70 | 66 | 58 | 49 | 74 |
| 7 | Inlet | 27 | 38 | 50 | 54 | 53 | 54 | 51 | 43 | 59 |
| | Outlet | 34 | 44 | 64 | 64 | 68 | 65 | 58 | 48 | 71 |
| 8 | Inlet | 27 | 37 | 51 | 56 | 55 | 56 | 52 | 44 | 61 |
| | Outlet | 30 | 39 | 61 | 65 | 67 | 64 | 55 | 45 | 70 |
| 9 | Inlet | 26 | 36 | 51 | 55 | 55 | 56 | 50 | 43 | 61 |
| | Outlet | 29 | 39 | 55 | 64 | 66 | 62 | 54 | 45 | 69 |
| 10 | Inlet | 24 | 35 | 47 | 51 | 50 | 51 | 48 | 40 | 56 |
| | Outlet | 28 | 38 | 58 | 58 | 62 | 59 | 52 | 42 | 65 |
| 11 | Inlet | 21 | 31 | 45 | 50 | 49 | 50 | 46 | 38 | 55 |
| | Outlet | 24 | 33 | 55 | 59 | 61 | 58 | 49 | 39 | 64 |
| 12 | Inlet | 20 | 30 | 45 | 49 | 49 | 50 | 44 | 37 | 55 |
| | Outlet | 23 | 33 | 49 | 58 | 60 | 56 | 48 | 39 | 63 |

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.



| Working point | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | LwA |
|---------------|--------|----|-----|-----|-----|------|------|------|------|-----|
| 1 | Inlet | 41 | 55 | 74 | 68 | 67 | 65 | 65 | 57 | 76 |
| | Outlet | 41 | 53 | 65 | 59 | 67 | 66 | 64 | 57 | 72 |
| 2 | Inlet | 39 | 51 | 73 | 68 | 65 | 64 | 61 | 53 | 75 |
| | Outlet | 39 | 51 | 63 | 58 | 65 | 65 | 60 | 53 | 70 |
| 3 | Inlet | 37 | 49 | 68 | 68 | 65 | 62 | 59 | 53 | 73 |
| | Outlet | 36 | 47 | 58 | 56 | 65 | 64 | 60 | 53 | 69 |
| 4 | Inlet | 38 | 52 | 71 | 65 | 64 | 62 | 62 | 54 | 74 |
| | Outlet | 38 | 50 | 62 | 56 | 64 | 63 | 61 | 54 | 69 |
| 5 | Inlet | 36 | 48 | 70 | 65 | 62 | 61 | 58 | 50 | 73 |
| | Outlet | 36 | 48 | 60 | 55 | 62 | 62 | 57 | 50 | 67 |
| 6 | Inlet | 34 | 46 | 65 | 65 | 62 | 59 | 56 | 50 | 70 |
| | Outlet | 33 | 44 | 55 | 53 | 62 | 61 | 57 | 50 | 66 |
| 7 | Inlet | 31 | 45 | 64 | 58 | 57 | 55 | 55 | 47 | 66 |
| | Outlet | 33 | 45 | 57 | 51 | 59 | 58 | 56 | 49 | 65 |
| 8 | Inlet | 31 | 43 | 65 | 60 | 57 | 56 | 53 | 45 | 68 |
| | Outlet | 31 | 43 | 55 | 50 | 57 | 57 | 52 | 45 | 63 |
| 9 | Inlet | 29 | 41 | 60 | 60 | 57 | 54 | 51 | 45 | 65 |
| | Outlet | 28 | 39 | 50 | 48 | 57 | 56 | 52 | 45 | 61 |
| 10 | Inlet | 28 | 42 | 61 | 55 | 54 | 52 | 52 | 44 | 63 |
| | Outlet | 28 | 40 | 52 | 46 | 54 | 53 | 51 | 44 | 59 |
| 11 | Inlet | 26 | 38 | 60 | 55 | 52 | 51 | 48 | 40 | 62 |
| | Outlet | 26 | 38 | 50 | 45 | 52 | 52 | 47 | 40 | 57 |
| 12 | Inlet | 24 | 36 | 55 | 55 | 52 | 49 | 46 | 40 | 59 |
| | Outlet | 23 | 34 | 45 | 43 | 52 | 51 | 47 | 40 | 56 |

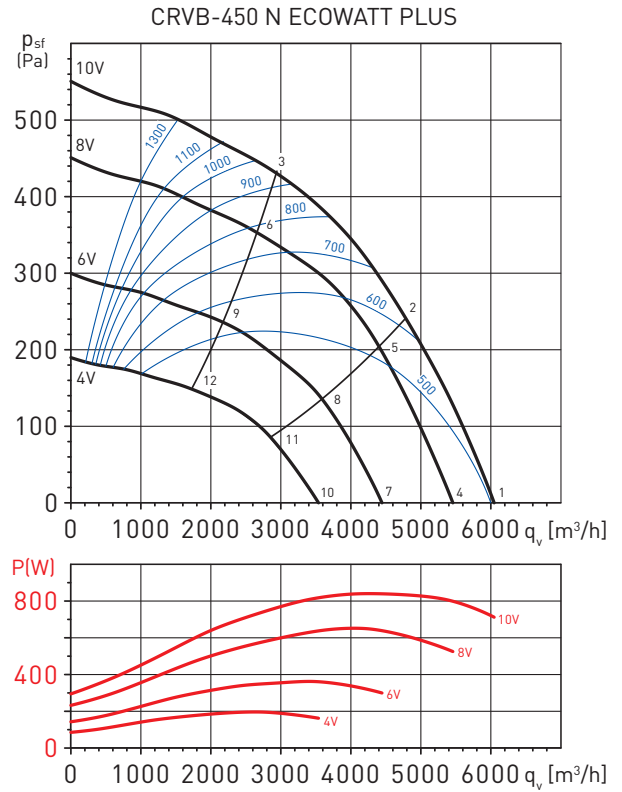
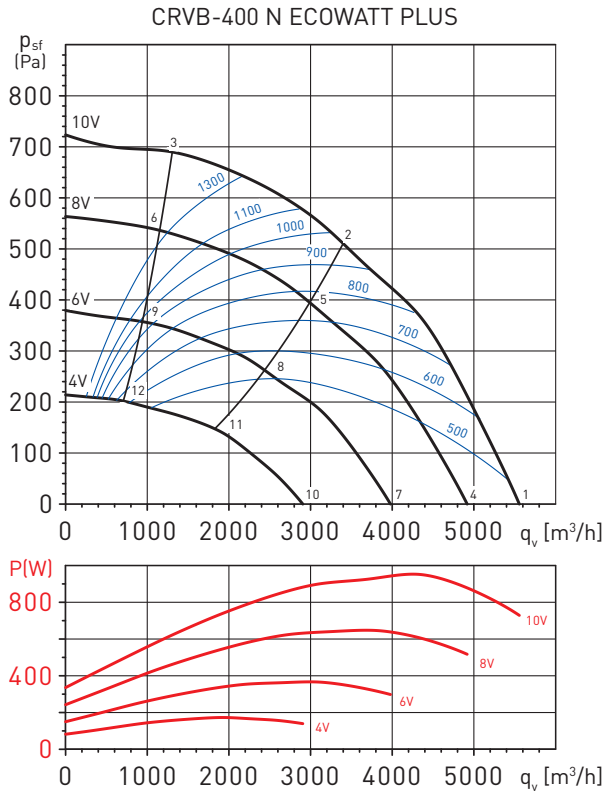
| Working point | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | LwA |
|---------------|--------|----|-----|-----|-----|------|------|------|------|-----|
| 1 | Inlet | 37 | 50 | 59 | 61 | 62 | 64 | 62 | 50 | 69 |
| | Outlet | 37 | 58 | 65 | 68 | 69 | 67 | 65 | 53 | 74 |
| 2 | Inlet | 31 | 45 |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

AUTORREGULATED LOW CONSUMPTION ROOF MOUNTED FANS CRHB-N / CRVB-N ECOWATT PLUS Series



PERFORMANCE CURVES - ACOUSTIC CHARACTERISTICS

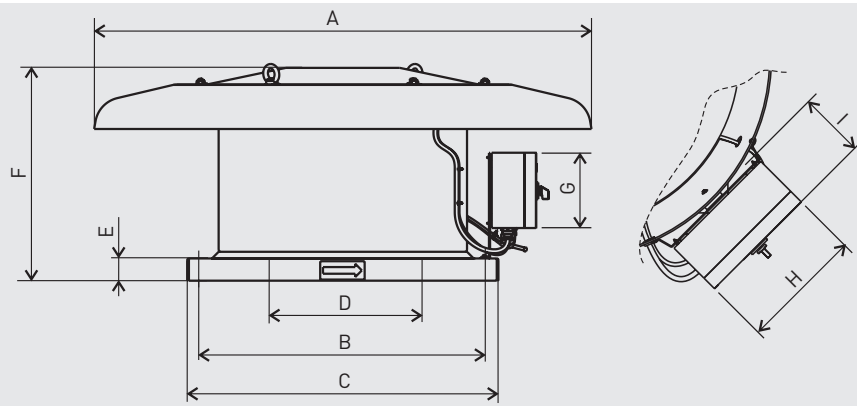
- q_v : Airflow in m^3/h .
- p_{sf} : Static pressure in Pa.
- P: Input power in W.
- SFP: Specific fan power in $W/m^3/s$ (blue curves).
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.



| Working point | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | LwA |
|---------------|--------|----|-----|-----|-----|------|------|------|------|-----|
| 1 | Inlet | 44 | 60 | 71 | 73 | 76 | 77 | 74 | 63 | 82 |
| | Outlet | 52 | 61 | 76 | 80 | 82 | 80 | 77 | 68 | 87 |
| 2 | Inlet | 51 | 61 | 70 | 69 | 72 | 73 | 66 | 60 | 78 |
| | Outlet | 41 | 55 | 69 | 73 | 75 | 77 | 70 | 64 | 81 |
| 3 | Inlet | 55 | 66 | 73 | 71 | 72 | 73 | 68 | 63 | 79 |
| | Outlet | 55 | 67 | 74 | 76 | 78 | 78 | 72 | 67 | 83 |
| 4 | Inlet | 41 | 57 | 69 | 71 | 73 | 74 | 71 | 60 | 79 |
| | Outlet | 49 | 58 | 73 | 78 | 79 | 77 | 74 | 65 | 84 |
| 5 | Inlet | 49 | 58 | 67 | 66 | 69 | 70 | 64 | 57 | 75 |
| | Outlet | 38 | 52 | 66 | 71 | 73 | 74 | 67 | 61 | 78 |
| 6 | Inlet | 52 | 63 | 70 | 68 | 69 | 70 | 65 | 60 | 76 |
| | Outlet | 53 | 64 | 71 | 73 | 75 | 75 | 69 | 64 | 81 |
| 7 | Inlet | 37 | 52 | 64 | 66 | 68 | 69 | 67 | 56 | 74 |
| | Outlet | 44 | 54 | 69 | 73 | 75 | 72 | 70 | 61 | 79 |
| 8 | Inlet | 44 | 54 | 63 | 62 | 64 | 66 | 59 | 53 | 71 |
| | Outlet | 34 | 48 | 62 | 66 | 68 | 70 | 63 | 57 | 74 |
| 9 | Inlet | 48 | 59 | 65 | 63 | 65 | 66 | 60 | 56 | 72 |
| | Outlet | 48 | 60 | 67 | 69 | 71 | 71 | 65 | 59 | 76 |
| 10 | Inlet | 31 | 46 | 58 | 60 | 62 | 63 | 60 | 50 | 68 |
| | Outlet | 38 | 48 | 63 | 67 | 69 | 66 | 63 | 54 | 73 |
| 11 | Inlet | 38 | 48 | 57 | 56 | 58 | 60 | 53 | 47 | 64 |
| | Outlet | 28 | 41 | 56 | 60 | 62 | 64 | 57 | 51 | 68 |
| 12 | Inlet | 42 | 53 | 59 | 57 | 58 | 59 | 54 | 50 | 65 |
| | Outlet | 42 | 53 | 60 | 63 | 65 | 65 | 59 | 53 | 70 |

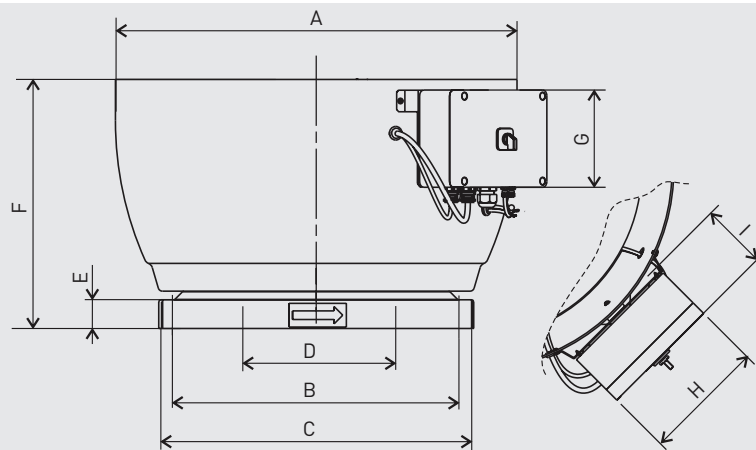
| Working point | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | LwA |
|---------------|--------|----|-----|-----|-----|------|------|------|------|-----|
| 1 | Inlet | 42 | 61 | 67 | 73 | 72 | 73 | 71 | 65 | 79 |
| | Outlet | 49 | 66 | 72 | 77 | 81 | 78 | 75 | 68 | 85 |
| 2 | Inlet | 35 | 46 | 62 | 61 | 64 | 64 | 62 | 57 | 70 |
| | Outlet | 41 | 65 | 70 | 74 | 78 | 76 | 71 | 65 | 82 |
| 3 | Inlet | 35 | 49 | 61 | 64 | 65 | 69 | 64 | 59 | 73 |
| | Outlet | 43 | 61 | 67 | 71 | 76 | 75 | 71 | 66 | 80 |
| 4 | Inlet | 40 | 58 | 65 | 71 | 70 | 71 | 68 | 62 | 77 |
| | Outlet | 47 | 63 | 70 | 75 | 78 | 76 | 72 | 66 | 82 |
| 5 | Inlet | 33 | 43 | 59 | 59 | 61 | 62 | 60 | 54 | 68 |
| | Outlet | 39 | 63 | 67 | 72 | 76 | 73 | 69 | 63 | 80 |
| 6 | Inlet | 33 | 47 | 59 | 62 | 63 | 67 | 62 | 57 | 71 |
| | Outlet | 41 | 58 | 65 | 68 | 74 | 73 | 69 | 64 | 78 |
| 7 | Inlet | 35 | 54 | 61 | 66 | 65 | 67 | 64 | 58 | 72 |
| | Outlet | 43 | 59 | 66 | 70 | 74 | 71 | 68 | 62 | 78 |
| 8 | Inlet | 29 | 39 | 55 | 55 | 57 | 57 | 56 | 50 | 63 |
| | Outlet | 34 | 58 | 63 | 67 | 71 | 69 | 65 | 58 | 75 |
| 9 | Inlet | 29 | 42 | 55 | 57 | 59 | 63 | 58 | 52 | 66 |
| | Outlet | 37 | 54 | 60 | 64 | 70 | 69 | 65 | 59 | 74 |
| 10 | Inlet | 31 | 49 | 56 | 62 | 60 | 62 | 59 | 53 | 67 |
| | Outlet | 38 | 54 | 61 | 66 | 69 | 66 | 63 | 57 | 73 |
| 11 | Inlet | 24 | 34 | 50 | 50 | 52 | 52 | 51 | 45 | 58 |
| | Outlet | 29 | 53 | 58 | 62 | 66 | 64 | 60 | 53 | 70 |
| 12 | Inlet | 24 | 37 | 50 | 53 | 54 | 58 | 53 | 47 | 61 |
| | Outlet | 32 | 49 | 55 | 59 | 65 | 64 | 60 | 54 | 69 |

DIMENSIONS (mm) CRHB-N ECOWATT PLUS



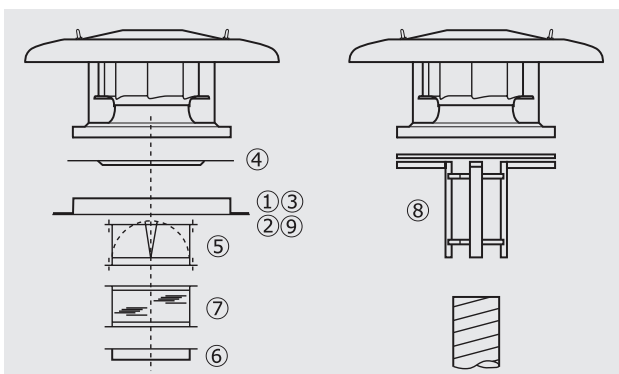
| Model | ØA | ∅B | ∅C | ØD | E | F | G | H | I |
|-------|------|-----|-----|-----|----|-------|-----|-----|-----|
| 280 | 640 | 330 | 435 | 228 | 40 | 273,5 | 136 | 171 | 92 |
| 315 | 895 | 450 | 560 | 257 | 40 | 324 | 136 | 171 | 92 |
| 355 | 895 | 450 | 560 | 289 | 40 | 367 | 136 | 171 | 92 |
| 400 | 1150 | 535 | 630 | 326 | 40 | 363 | 170 | 190 | 110 |
| 450 | 1150 | 535 | 630 | 367 | 40 | 397 | 170 | 190 | 110 |

DIMENSIONS (mm) CRVB-N ECOWATT PLUS



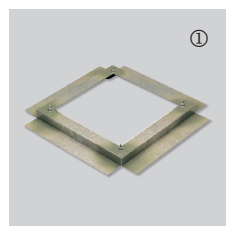
| Model | ØA | ∅B | ∅C | ØD | E | F | G | H | I |
|-------|-----|-----|-----|-----|----|-----|-----|-----|-----|
| 250 | 434 | 245 | 326 | 204 | 35 | 260 | 136 | 136 | 92 |
| 280 | 560 | 330 | 435 | 228 | 40 | 335 | 136 | 171 | 92 |
| 315 | 754 | 450 | 560 | 257 | 40 | 395 | 136 | 171 | 92 |
| 355 | 754 | 450 | 560 | 289 | 40 | 395 | 136 | 171 | 92 |
| 400 | 857 | 535 | 630 | 326 | 40 | 459 | 170 | 190 | 110 |
| 450 | 857 | 535 | 630 | 367 | 40 | 459 | 170 | 190 | 110 |

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

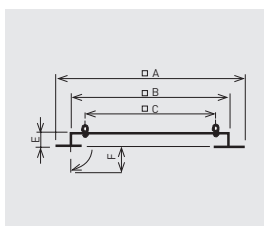


| Model of fan | ① Sealing frame | ② Flat roof insulated up stand | ③ Acoustic up stand | ④ Accessory adapter plate | ⑤ Back draft shutter | ⑥ Flange with spigot | ⑦ Flexible coupling | ⑧ Circular adapter | ⑨ Support base for inclined curb installations |
|--------------|-----------------|--------------------------------|---------------------|---------------------------|----------------------|----------------------|---------------------|--------------------|--|
| 250N | JMS-300 | JBS-300 | JAA-300 | JPA-300 | JCA-300 | JBR-300 N | JAЕ-300 N | JCC-300 | BI-3 |
| 280N | JMS-435 | JBS-435 | JAA-435 | JPA-435 | JCA-435 | JBR-435 | JAЕ-435 | JCC-435 | BI-4 |
| 315N | JMS-560 | JBS-560 | JAA-560 | JPA-560 | JCA-560 | JBR-560 | JAЕ-560 | JCC-560 | BI-5 |
| 355N | JMS-560 | JBS-560 | JAA-560 | JPA-560 | JCA-560 | JBR-560 | JAЕ-560 | JCC-560 | BI-5 |
| 400N | JMS-630 | JBS-630 | JAA-630 | JPA-630 | JCA-630 | JBR-630 | JAЕ-630 | JCC-630 | BI-6 |
| 450N | JMS-630 | JBS-630 | JAA-630 | JPA-630 | JCA-630 | JBR-630 | JAЕ-630 | JCC-630 | BI-6 |

MOUNTING ACCESSORIES



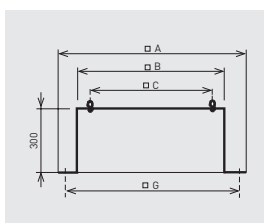
JMS
Sealing frame
- For mounting a roof fan on an up stand or base.
- Supplied with screws and gasket for a complete weatherproof seal.



| 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 |
| JMS-630 | 795 | 615 | 535 | 50 | 70 |



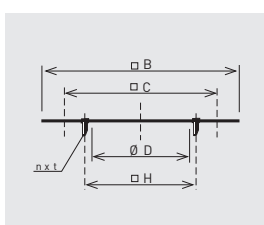
JBS
Flat roof up stand
- For mounting a fan on a flat roof without up stands.
- For use on horizontal roofs.
- Internal insulation to prevent condensation.
- Supplied with screws and gasket for a complete weather seal.



| 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 |
| JBS-630 | 795 | 614 | 535 | 300 | 705 |



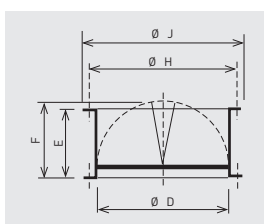
JPA
Accessory adapter plate
- Used when mounting the accessories (JCA, JBR, JAE).
- Allows the fan to be disconnected from the upstand without having to remove the duct.



| Model | □B | □C | ∅ D | next | ∅ H |
|---------|-----|-----|-----|-------|-----|
| JPA-300 | 289 | 245 | 182 | 4xM6 | 205 |
| JPA-435 | 419 | 330 | 252 | 4xM8 | 280 |
| JPA-560 | 544 | 450 | 358 | 8xM8 | 395 |
| JPA-630 | 614 | 535 | 403 | 8xM10 | 450 |



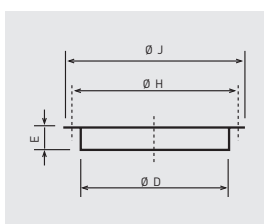
JCA / JCA N
Backdraft shutter
- Prevents backdraft when the fan is not operating.
- To be mounted at the fan inlet with the JPA plate.



| Model | ∅ D | E | F | ∅ H | ∅ J |
|-----------|-----|-----|-----|-----|-----|
| JCA-300 | 182 | 100 | 124 | 205 | 219 |
| JCA-435 | 252 | 145 | 174 | 280 | 300 |
| JCA-560 N | 358 | 210 | 227 | 395 | 415 |
| JCA-630 N | 403 | 240 | 250 | 450 | 474 |



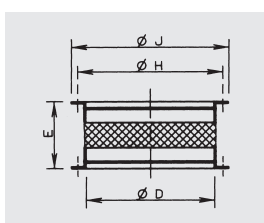
JBR N
Flange
- For use when circular connection is required directly to the fan.
- To be mounted at the fan inlet with the JPA plate or fixed directly to the fan base (rivets or screws not supplied).



| Model | ∅ D | E | ∅ H | ∅ J |
|-----------|-----|----|-----|-----|
| JBR-300 N | 182 | 55 | 205 | 219 |
| JBR-435 N | 252 | 55 | 280 | 300 |
| JBR-560 N | 358 | 55 | 395 | 415 |
| JBR-630 N | 403 | 63 | 450 | 474 |



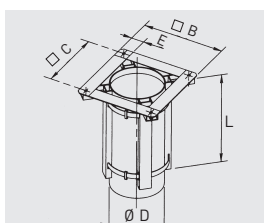
JAE N
Flexible coupling
- Reduces the transmission of vibrations when the duct is connected directly to the fan.
- To be mounted at the fan inlet with JPA plate.



| Model | ∅ D | E | ∅ H | ∅ J |
|-----------|-----|-----|-----|-----|
| JAE-300 N | 182 | 164 | 205 | 219 |
| JAE-435 N | 252 | 164 | 280 | 300 |
| JAE-560 N | 358 | 164 | 395 | 415 |
| JAE-630 N | 403 | 164 | 450 | 474 |



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

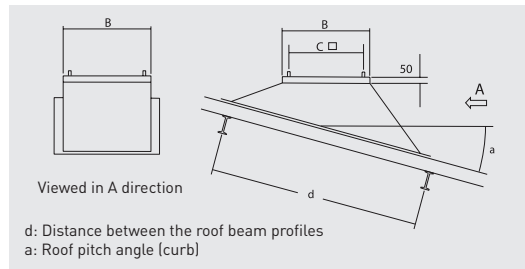


| Model | ∅ B | ∅ C | ∅ D | E | L |
|---------|-----|-----|-----|----|-----|
| JCC-300 | 290 | 245 | 180 | 45 | 350 |
| JCC-435 | 390 | 330 | 250 | 60 | 350 |
| JCC-560 | 520 | 450 | 355 | 70 | 350 |
| JCC-630 | 605 | 535 | 400 | 70 | 350 |

MOUNTING ACCESSORIES



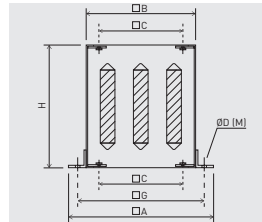
BI
Support base for inclined curb mounted installations
 - To ensure a proper installation of the CRHB-CRHT roof fan it is essential to specify the roof pitch angle and the distance between the roof beam profiles.



| | B | C |
|------|-----|-----|
| BI-3 | 289 | 245 |
| BI-4 | 419 | 330 |
| BI-5 | 544 | 450 |
| BI-6 | 614 | 535 |



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 (M12) | 750 | 510 |
| JAA-560 | 725 | 545 | 450 | 15 (M12) | 750 | 635 |
| JAA-630 | 795 | 615 | 535 | 15 (M12) | 750 | 705 |

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-630 | 2 | 8 | 14 | 24 | 27 | 19 | 13 |

JAA Attenuator pressure drops

