# BRF-V EC

## VERTICAL OUTLET ROOF FANS

### Fan Components and Material Properties

The BRF-V EC series of vertical-centric roof radial fans are made of galvanized sheet steel. The fan wheels of the BRF 450-500-560 models are made of aluminum sheet. All models are equipped with EC motor with integrated speed control.

### Fan Structure

The fan blades are aerodynamically curved and provide regular flow. The fans are composed of backward sloping and infrequently arranged fins.

### Benefits

BRF-V roof fans are particularly advantageous in vertical applications due to the fact that air cannot be absorbed horizontally. Thanks to the aerodynamic wing structure, they work quietly. Since the rainwater is easily evacuated, water ingress is prevented from entering the chimney. With a more efficient motor, system efficiency is increased and lower operating costs are ensured.

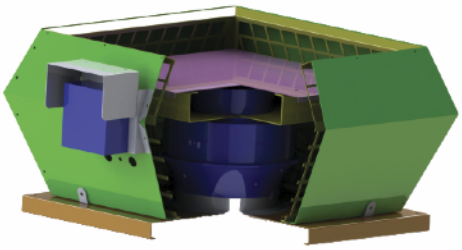
### Speed Control

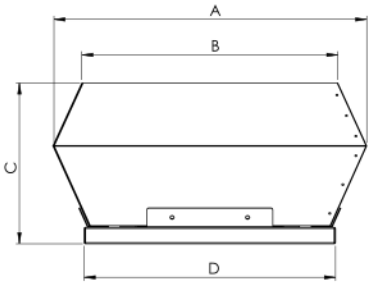
With EC motor integrated speed control, the desired speed can be achieved.

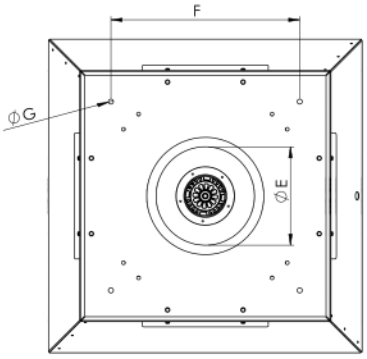
### Usage Areas

In order to increase the air quality of indoor spaces, it is used in situations where vertical shot is required under conditions where air cannot be disposed horizontally. The BRF-V roof fans operate at low volume with an external rotor motor. It is used on the roofs of the places where the air is to be refreshed and the chimneys on the bathroom and wc roofs of the buildings which are opened to the common shaft.

## Technical Drawing and Tables






## Accessories

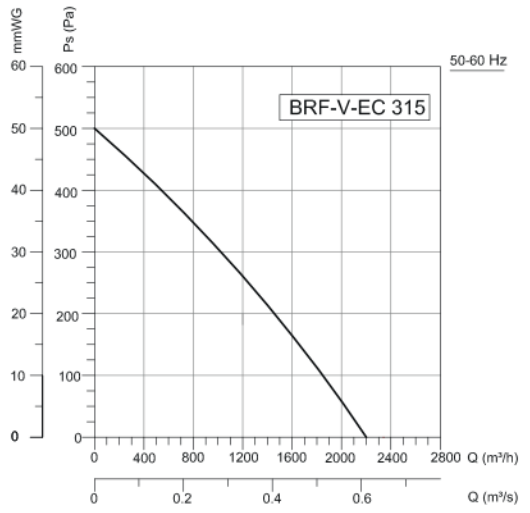
BSC BSC-F BYF BYKS BYH

| TYPE | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| BRF-V EC 315 | 552 | 450 | 330 | 505 | 198 | 450 | 10 |
| BRF-V EC 355 | 745 | 607 | 385 | 595 | 234 | 450 | 10 |
| BRF-V EC 400 | 745 | 607 | 385 | 595 | 268 | 450 | 10 |
| BRF-V EC 450 | 900 | 742 | 512 | 665 | 303 | 535 | 10 |
| BRF-V EC 500 | 900 | 742 | 512 | 665 | 342 | 535 | 12 |
| BRF-V EC 560 | 1190 | 955 | 595 | 946 | 380 | 740 | 12 |

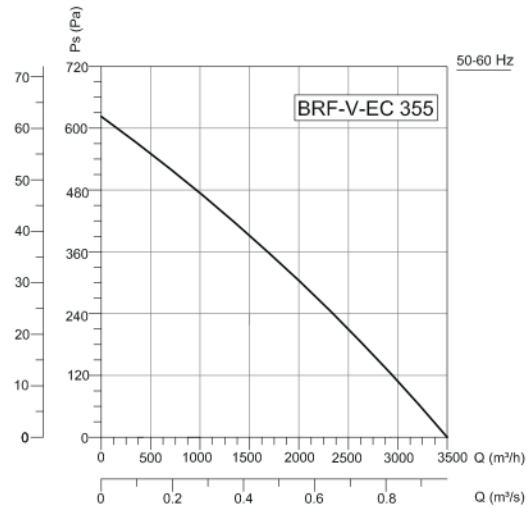
Dimensions are in (mm)

| TYPE | VOLTAGE | FREQUENCY | POWER | CURRENT | SPEED | AIR FLOW | MAX. PRESSURE | SOUND PRESSURE |
|---|---|---|---|---|---|---|---|---|
| | V | Hz | W | (A) | r.p.m | $m^3/h$ | Pa | dB(A) |
| BRF-V EC 315 | 220 | 50/60 | 350 | 1,5 | 2000 | 2200 | 500 | 45-37 |
| BRF-V EC 355 | 220 | 50/60 | 400 | 2,1 | 1850 | 3500 | 620 | 46-38 |
| BRF-V EC 400 | 220 | 50/60 | 420 | 2,3 | 1450 | 4000 | 600 | 47-39 |
| BRF-V EC 450 | 380 | 50/60 | 1000 | 1,5 | 1450 | 6500 | 650 | 50-42 |
| BRF-V EC 500 | 380 | 50/60 | 870 | 1,46 | 1100 | 7000 | 450 | 52-44 |
| BRF-V EC 560 | 380 | 50/60 | 770 | 1,3 | 850 | 8500 | 320 | 60-52 |

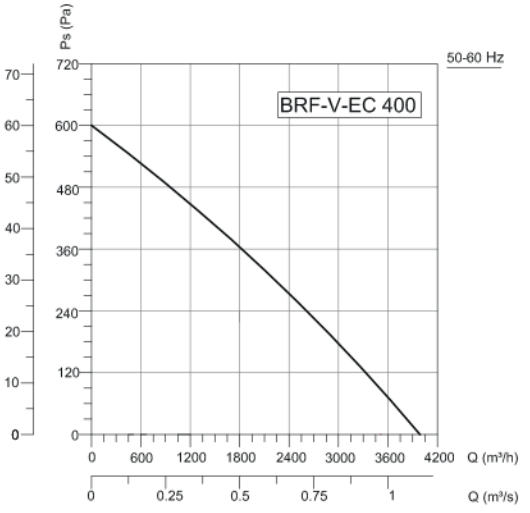
Sound Level Measured from 3m distance in room condition.



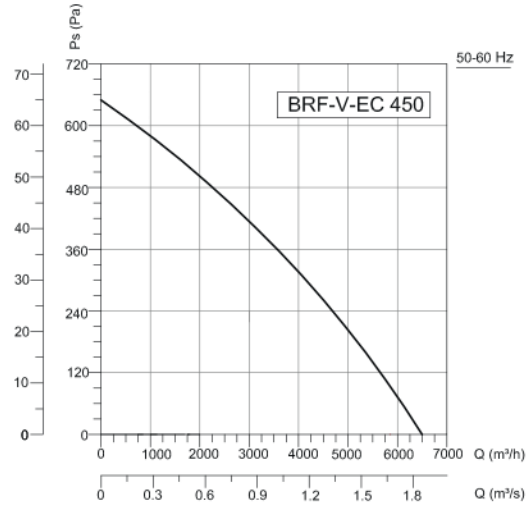

| Frequency | Tot | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|---|---|---|---|---|---|---|---|---|---|---|
| $L_{wA}$ Inlet | 68 | 55 | 57 | 61 | 63 | 62 | 59 | 54 | 47 | dB(A) |
| $L_{wA}$ Surrounding | 70 | 57 | 59 | 63 | 65 | 64 | 61 | 56 | 49 | dB(A) |



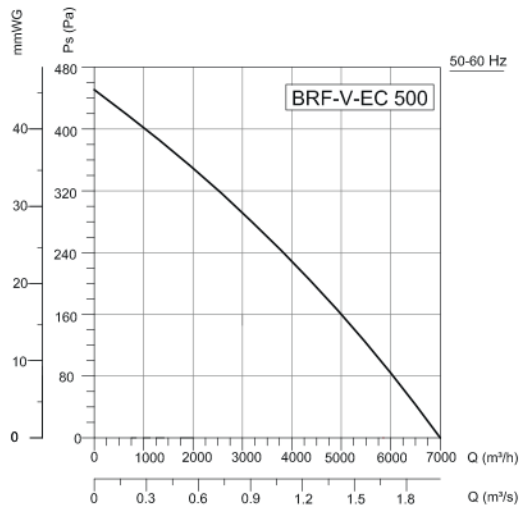

| Frequency | Tot | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|---|---|---|---|---|---|---|---|---|---|---|
| $L_{wA}$ Inlet | 67 | 54 | 56 | 60 | 62 | 61 | 58 | 53 | 46 | dB(A) |
| $L_{wA}$ Surrounding | 69 | 56 | 58 | 62 | 64 | 63 | 60 | 55 | 48 | dB(A) |



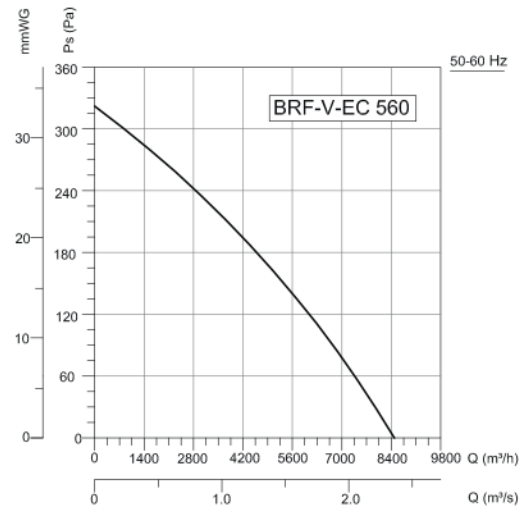

| Frequency | Tot | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|---|---|---|---|---|---|---|---|---|---|---|
| $L_{wA}$ Inlet | 71 | 39 | 58 | 66 | 61 | 67 | 54 | 50 | 47 | dB(A) |
| $L_{wA}$ Surrounding | 70 | 43 | 63 | 62 | 66 | 64 | 57 | 52 | 48 | dB(A) |




| Frequency | Tot | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|---|---|---|---|---|---|---|---|---|---|---|
| $L_{wA}$ Inlet | 68 | 51 | 56 | 63 | 62 | 59 | 57 | 52 | 53 | dB(A) |
| $L_{wA}$ Surrounding | 73 | 43 | 62 | 64 | 68 | 67 | 62 | 57 | 55 | dB(A) |




| Frequency | Tot | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|---|---|---|---|---|---|---|---|---|---|---|
| $L_{wA}$ Inlet | 73 | 46 | 60 | 70 | 68 | 64 | 61 | 56 | 54 | dB(A) |
| $L_{wA}$ Surrounding | 75 | 44 | 62 | 66 | 71 | 68 | 66 | 59 | 55 | dB(A) |




| Frequency | Tot | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|---|---|---|---|---|---|---|---|---|---|---|
| $L_{wA}$ Inlet | 81 | 54 | 70 | 74 | 76 | 75 | 71 | 66 | 59 | dB(A) |
| $L_{wA}$ Surrounding | 83 | 54 | 71 | 75 | 77 | 78 | 74 | 68 | 61 | dB(A) |