



## BDKF-R EX PROOF

### RECTANGULAR DUCT FANS / Backward Curved

#### Fan Components and Material Properties

Rectangular body is manufactured from galvanized steel sheet. The Fans are made of high quality galvanized steel which is resistant to corrosion. All models are equipped with Ex Proof asynchronous motor. Suction flange is made of copper material. The motor is out of airflow.

#### Fan Structure

It is designed to work between the rectangular channel. The fan blades are aerodynamically curved and provide regular flow. The fans are composed of backward sloping and infrequently arranged fins.

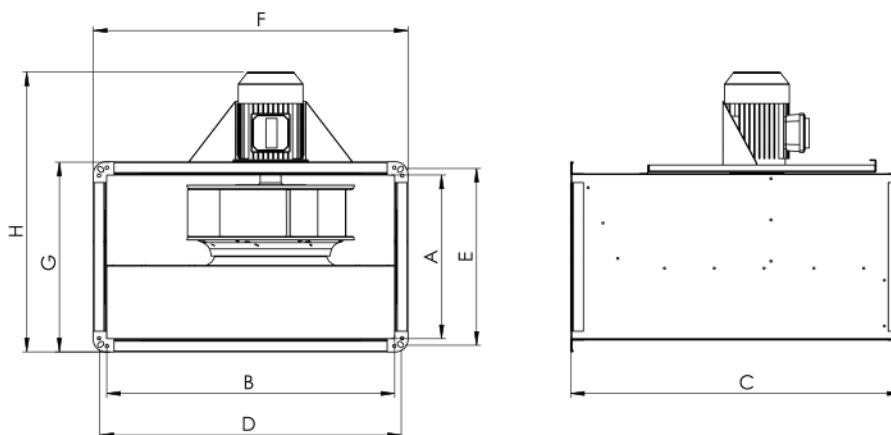
#### Benefits

Designed to be non-sparking. Since the motor is out of airflow, it is resistant to high temperature. The swing-out lid allows the product to be maintained effortlessly without removing the fan. Thanks to the aerodynamic wing structure, they work quietly. Speed can be adjusted with speed control devices.

#### Usage Areas

Ex-proof fans are one of the preferred fan types for the ventilation of high-risk environments. It is designed to be non-sparking. Usage areas are determined according to the degree of Atex directive.

### Technical Drawing and Tables



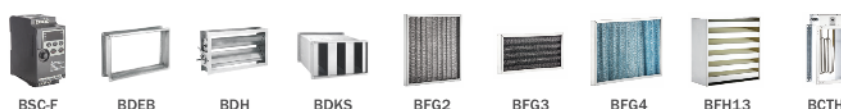
| TYPE            | A   | B    | C    | D    | E   | F    | G   | H   |
|-----------------|-----|------|------|------|-----|------|-----|-----|
| BDKF-R-EX 315 T | 350 | 600  | 750  | 620  | 370 | 660  | 410 | 550 |
| BDKF-R-EX 355 T | 350 | 600  | 750  | 620  | 370 | 660  | 410 | 650 |
| BDKF-R-EX 400 T | 400 | 700  | 800  | 720  | 420 | 770  | 470 | 630 |
| BDKF-R-EX 450 T | 400 | 700  | 800  | 720  | 420 | 770  | 470 | 630 |
| BDKF-R-EX 500 T | 500 | 800  | 920  | 820  | 520 | 870  | 570 | 780 |
| BDKF-R-EX 560 T | 500 | 1000 | 1050 | 1030 | 530 | 1070 | 570 | 780 |

Dimensions are in (mm)

| TYPE            | VOLTAGE | FREQUENCY | POWER | CURRENT | CAPACITOR | SPEED | AIR FLOW | SOUND PRESSURE | INSULATION CLASS | PROTECTION CLASS | WEIGHT |
|-----------------|---------|-----------|-------|---------|-----------|-------|----------|----------------|------------------|------------------|--------|
|                 | V       | Hz        | kW    | (A)     | (μF)      | r.p.m | m³/h     | dB(A)          | Ins.cl.          | IP               | kg     |
| BDKF-R-EX 315 T | 380     | 50        | 0,25  | 0,87    | -         | 1380  | 2000     | 53             | F                | 55               | 35     |
| BDKF-R-EX 355 T | 380     | 50        | 0,25  | 0,87    | -         | 1380  | 3000     | 58             | F                | 55               | 36     |
| BDKF-R-EX 400 T | 380     | 50        | 0,37  | 1,2     | -         | 1390  | 4100     | 56             | F                | 55               | 49     |
| BDKF-R-EX 450 T | 380     | 50        | 0,55  | 1,6     | -         | 1395  | 5500     | 58             | F                | 55               | 52     |
| BDKF-R-EX 500 T | 380     | 50        | 1,1   | 2,6     | -         | 1410  | 8100     | 64             | F                | 55               | 74     |
| BDKF-R-EX 560 T | 380     | 50        | 2,2   | 4,9     | -         | 1420  | 10500    | 66             | F                | 55               | 91     |

Sound Level Measured from 3m distance in room condition.

### Accessories



BSC-F

BDEB

BDH

BDKS

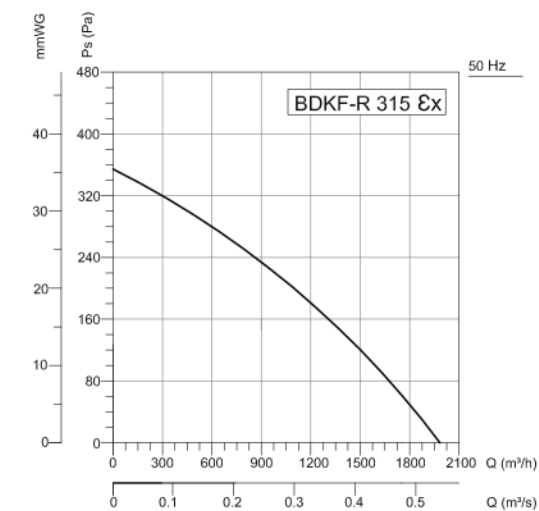
BFG2

BFG3

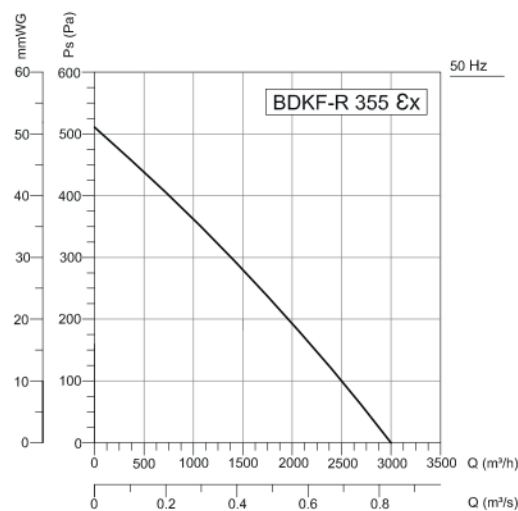
BFG4

BFH13

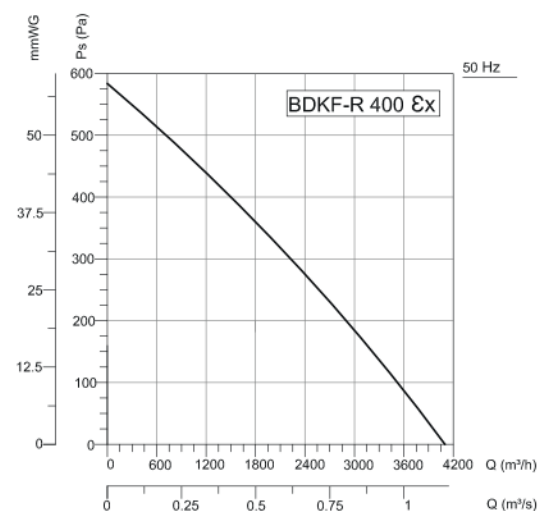
BCTH



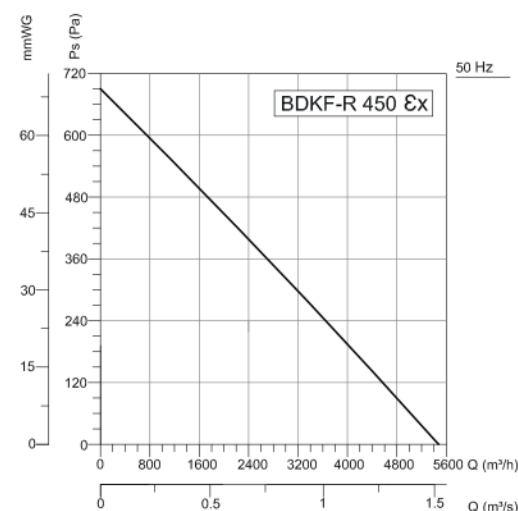
| Frequency            | Tot | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz    |
|----------------------|-----|----|-----|-----|-----|------|------|------|------|-------|
| $L_{wA}$ Inlet       | 70  | 50 | 65  | 61  | 63  | 60   | 61   | 56   | 48   | dB(A) |
| $L_{wA}$ Outlet      | 76  | 54 | 72  | 68  | 69  | 68   | 67   | 62   | 54   | dB(A) |
| $L_{wA}$ Surrounding | 60  | 27 | 57  | 53  | 50  | 49   | 48   | 49   | 37   | dB(A) |



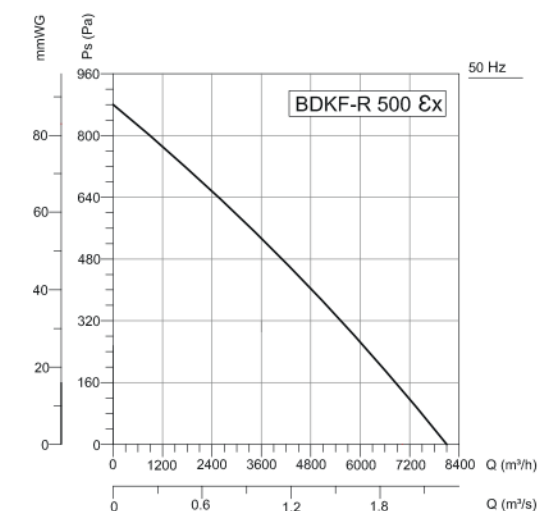
| Frequency            | Tot | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz    |
|----------------------|-----|----|-----|-----|-----|------|------|------|------|-------|
| $L_{wA}$ Inlet       | 74  | 50 | 61  | 67  | 65  | 68   | 66   | 63   | 60   | dB(A) |
| $L_{wA}$ Outlet      | 78  | 51 | 61  | 69  | 71  | 71   | 73   | 67   | 70   | dB(A) |
| $L_{wA}$ Surrounding | 65  | 33 | 40  | 59  | 57  | 59   | 58   | 50   | 47   | dB(A) |



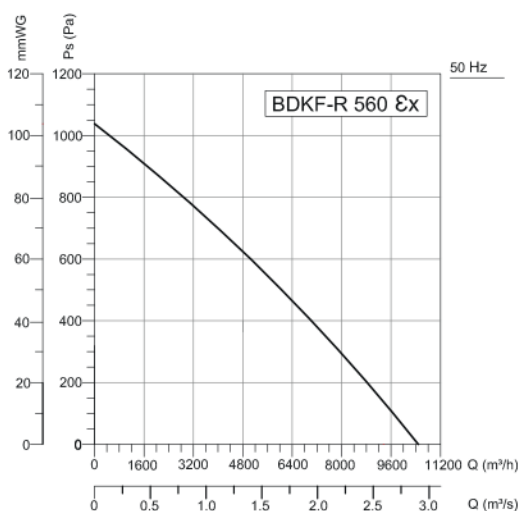
| Frequency            | Tot | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz    |
|----------------------|-----|----|-----|-----|-----|------|------|------|------|-------|
| $L_{wA}$ Inlet       | 73  | 58 | 68  | 64  | 66  | 66   | 62   | 56   | 50   | dB(A) |
| $L_{wA}$ Outlet      | 77  | 62 | 68  | 70  | 71  | 71   | 69   | 61   | 55   | dB(A) |
| $L_{wA}$ Surrounding | 63  | 40 | 60  | 57  | 52  | 51   | 46   | 38   | 35   | dB(A) |



| Frequency            | Tot | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz    |
|----------------------|-----|----|-----|-----|-----|------|------|------|------|-------|
| $L_{wA}$ Inlet       | 70  | 50 | 65  | 61  | 63  | 60   | 61   | 56   | 48   | dB(A) |
| $L_{wA}$ Outlet      | 76  | 54 | 72  | 68  | 69  | 68   | 67   | 62   | 54   | dB(A) |
| $L_{wA}$ Surrounding | 60  | 27 | 57  | 53  | 50  | 49   | 48   | 49   | 37   | dB(A) |



| Frequency            | Tot | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz    |
|----------------------|-----|----|-----|-----|-----|------|------|------|------|-------|
| $L_{wA}$ Inlet       | 79  | 61 | 72  | 71  | 73  | 71   | 71   | 66   | 58   | dB(A) |
| $L_{wA}$ Outlet      | 84  | 66 | 75  | 76  | 77  | 79   | 75   | 70   | 61   | dB(A) |
| $L_{wA}$ Surrounding | 71  | 45 | 68  | 64  | 61  | 61   | 60   | 54   | 43   | dB(A) |



| Frequency            | Tot | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz    |
|----------------------|-----|----|-----|-----|-----|------|------|------|------|-------|
| $L_{wA}$ Inlet       | 84  | 70 | 77  | 76  | 78  | 78   | 75   | 71   | 65   | dB(A) |
| $L_{wA}$ Outlet      | 89  | 71 | 80  | 81  | 82  | 83   | 80   | 74   | 65   | dB(A) |
| $L_{wA}$ Surrounding | 73  | 58 | 70  | 65  | 63  | 61   | 58   | 54   | 50   | dB(A) |