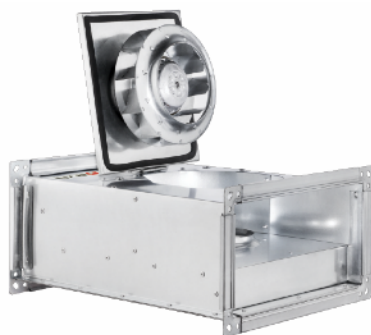


## BDKF-EC

### 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 EC motor with integrated speed control.

#### 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

The swing-out lid allows the product to be maintained effortlessly without removing the fan. Thanks to the aerodynamic wing structure, they work quietly. With a more efficient motor, system efficiency is increased and lower operating costs are ensured.

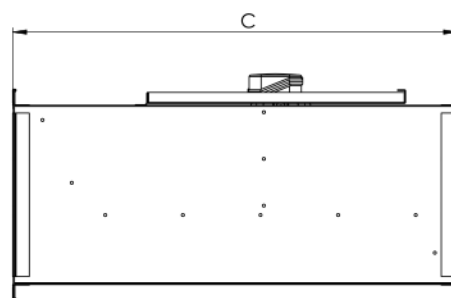
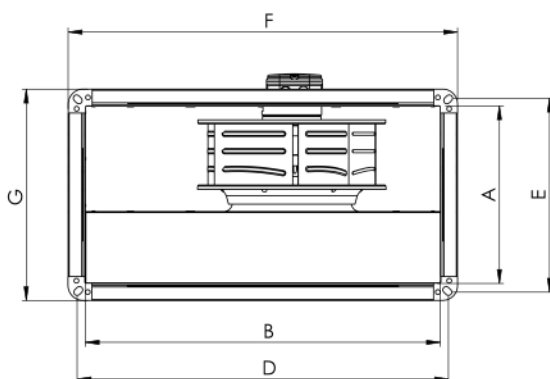
#### Speed Control

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

#### Usage Areas

It is designed to meet medium and high volume ventilation requirements in rectangular duct systems where the application area is limited.

### Technical Drawing and Tables

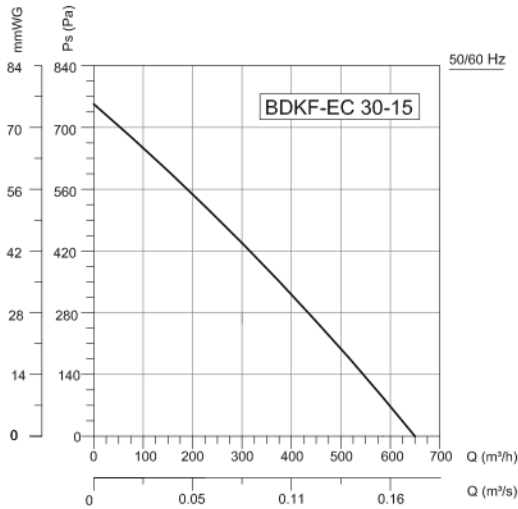


| TYPE           | A   | B    | C    | D    | E   | F    | G   |
|----------------|-----|------|------|------|-----|------|-----|
| BDKF-EC 30-15  | 150 | 300  | 400  | 320  | 170 | 350  | 200 |
| BDKF-EC 40-20  | 200 | 400  | 500  | 420  | 220 | 450  | 250 |
| BDKF-EC 50-25  | 250 | 500  | 565  | 520  | 270 | 550  | 300 |
| BDKF-EC 60-30  | 300 | 600  | 750  | 620  | 320 | 660  | 360 |
| BDKF-EC 60-35  | 350 | 600  | 750  | 620  | 370 | 660  | 410 |
| BDKF-EC 70-40  | 400 | 700  | 800  | 720  | 420 | 770  | 470 |
| BDKF-EC 80-50  | 500 | 800  | 920  | 820  | 520 | 870  | 570 |
| BDKF-EC 100-50 | 500 | 1000 | 1050 | 1030 | 530 | 1070 | 570 |

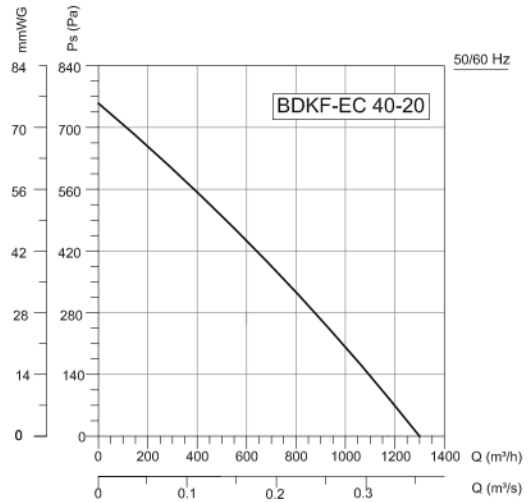
Dimensions are in (mm)

| TYPE           | VOLTAGE | FREQUENCY | POWER | CURRENT | SPEED | AIR FLOW          | MAX. PRESSURE | SOUND PRESSURE |
|----------------|---------|-----------|-------|---------|-------|-------------------|---------------|----------------|
|                | V       | Hz        | W     | (A)     | r.p.m | m <sup>3</sup> /h | Pa            | dB(A)          |
| BDKF-EC 30-15  | 220     | 50/60     | 98    | 0,74    | 3200  | 650               | 750           | 43             |
| BDKF-EC 40-20  | 220     | 50/60     | 150   | 0,98    | 2945  | 1300              | 750           | 48             |
| BDKF-EC 50-25  | 220     | 50/60     | 140   | 1,1     | 2400  | 1600              | 750           | 58             |
| BDKF-EC 60-30  | 220     | 50/60     | 355   | 1,56    | 2050  | 2150              | 550           | 50             |
| BDKF-EC 60-35  | 220     | 50/60     | 400   | 2,2     | 1900  | 3550              | 850           | 53             |
| BDKF-EC 70-40  | 380     | 50/60     | 1000  | 1,5     | 1500  | 6500              | 650           | 56             |
| BDKF-EC 80-50  | 380     | 50/60     | 870   | 1,46    | 1100  | 7000              | 450           | 64             |
| BDKF-EC 100-50 | 380     | 50/60     | 770   | 1,3     | 850   | 8500              | 320           | 66             |

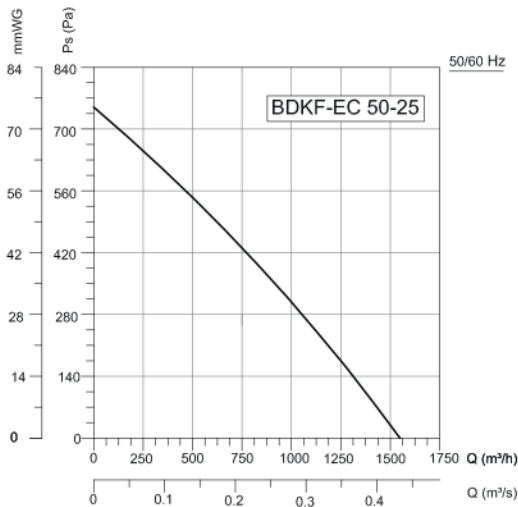
Sound Level Measured from 3m distance in room condition.



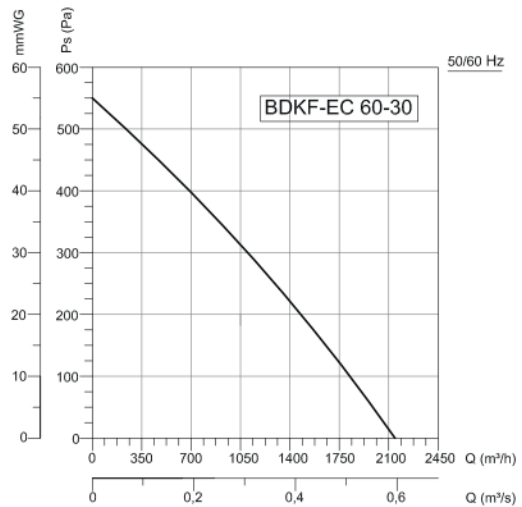
| Frequency            | Tot | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz    |
|----------------------|-----|----|-----|-----|-----|------|------|------|------|-------|
| $L_{WA}$ Inlet       | 66  | 44 | 56  | 64  | 56  | 55   | 53   | 47   | 38   | dB(A) |
| $L_{WA}$ Outlet      | 69  | 48 | 53  | 66  | 63  | 61   | 58   | 51   | 43   | dB(A) |
| $L_{WA}$ Surrounding | 50  | 26 | 33  | 47  | 44  | 42   | 41   | 35   | 27   | dB(A) |



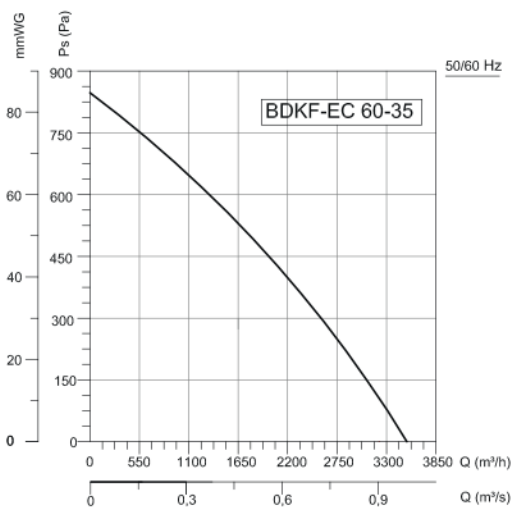
| Frequency            | Tot | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz    |
|----------------------|-----|----|-----|-----|-----|------|------|------|------|-------|
| $L_{WA}$ Inlet       | 69  | 44 | 54  | 66  | 58  | 61   | 59   | 55   | 47   | dB(A) |
| $L_{WA}$ Outlet      | 72  | 44 | 53  | 67  | 64  | 63   | 66   | 61   | 58   | dB(A) |
| $L_{WA}$ Surrounding | 55  | 20 | 34  | 53  | 45  | 44   | 44   | 38   | 35   | dB(A) |



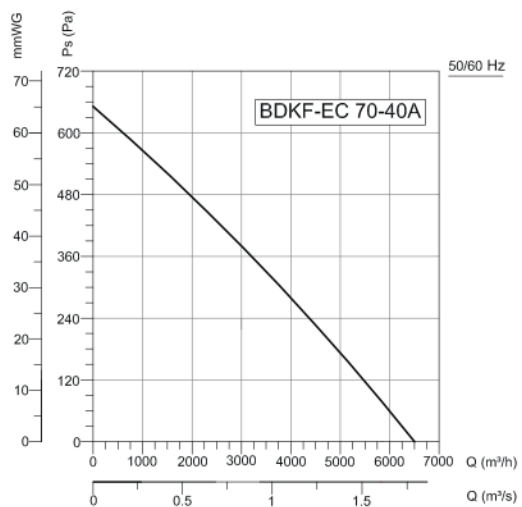
| Frequency            | Tot | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz    |
|----------------------|-----|----|-----|-----|-----|------|------|------|------|-------|
| $L_{WA}$ Inlet       | 74  | 50 | 61  | 67  | 65  | 68   | 66   | 63   | 60   | dB(A) |
| $L_{WA}$ Outlet      | 78  |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



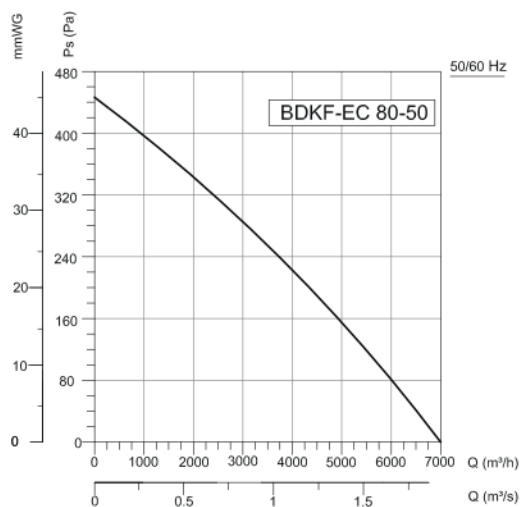
| Frequency            | Tot | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz    |
|----------------------|-----|----|-----|-----|-----|------|------|------|------|-------|
| $L_{WA}$ Inlet       | 69  | 50 | 62  | 64  | 61  | 62   | 57   | 52   | 44   | dB(A) |
| $L_{WA}$ Outlet      | 72  | 49 | 60  | 65  | 68  | 65   | 63   | 58   | 46   | dB(A) |
| $L_{WA}$ Surrounding | 57  | 35 | 47  | 54  | 52  | 47   | 44   | 39   | 32   | dB(A) |



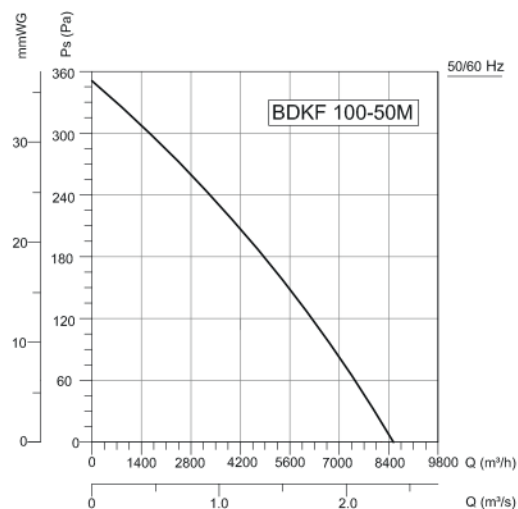
| Frequency            | Tot | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz    |
|----------------------|-----|----|-----|-----|-----|------|------|------|------|-------|
| $L_{WA}$ Inlet       | 70  | 50 | 65  | 61  | 63  | 60   | 61   | 56   | 48   | dB(A) |
| $L_{WA}$ Outlet      | 76  | 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       | 75  | 60 | 70  | 68  | 69  | 66   | 66   | 62   | 52   | dB(A) |
| $L_{WA}$ Outlet      | 79  | 60 | 71  | 71  | 73  | 74   | 71   | 38   | 55   | dB(A) |
| $L_{WA}$ Surrounding | 65  | 41 | 62  | 58  | 56  | 56   | 49   | 42   | 36   | 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 | 72  | 58 | 69  | 64  | 62  | 60   | 56   | 52   | 50   | dB(A) |

### Accessories

