



## BMFX

### ROUND DUCT TYPE FANS / Mixed Flow

#### Device Components and Material Properties

Duct type mixed flow fans, ST extension models are standard. Body and fan made of plastic. BMFX 250 and 315 models are also available with electrostatic painted sheet version. Thanks to the body design, it is possible to disassemble and install the fan and motor without being disassembled.

#### Fan Structure

Mixed flow fans consist of a combination of working principles of axial and casing centrifugal fans. These fans draw air in and out more linearly. This makes the system more efficient and reduces motor power.

#### Benefits

They are highly efficient due to the mixed flow propeller. They work pretty quietly. When the fan is connected to the duct, the motor part can be easily removed and installed. They can work in double cycle. The suction and discharge nozzles are compatible with the duct diameters and can be connected by clamp.

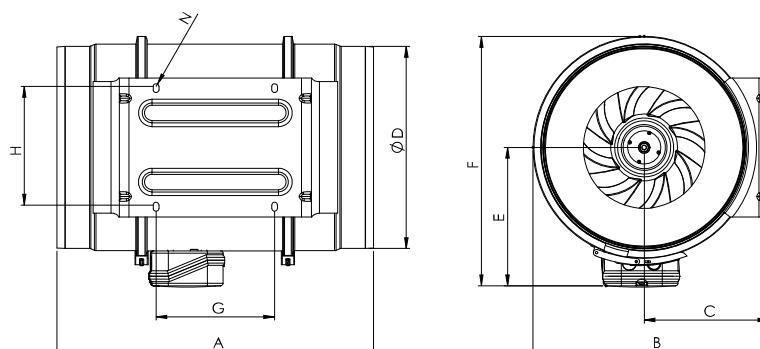
#### Speed Control

Optional control devices can be provided.  
\* Double speed motor \* Speed control with linear voltage regulator (see BSC accessory)

#### Usage Areas

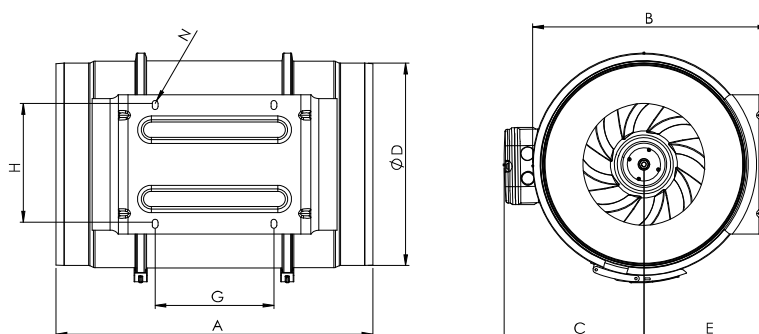
It is used for return air, supply air or general ventilation applications where low noise level and high efficiency are important. It should be used with oil holding filter in oily environments.

### Technical Drawing and Tables



| TYPE       | A   | B   | C   | D   | E   | F   | G   | H   | N    |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| BMFX-100   | 302 | 195 | 99  | 97  | 116 | 204 | 80  | 60  | 4,5  |
| BMFX-ST100 | 246 | 166 | 90  | 97  | 102 | 188 | 45  | 78  | 4,5  |
| BMFX-125B  | 257 | 195 | 99  | 123 | 116 | 204 | 80  | 60  | 4,5  |
| BMFX-ST125 | 194 | 166 | 90  | 124 | 102 | 188 | 45  | 78  | 4,5  |
| BMFX-150   | 313 | 208 | 109 | 147 | 127 | 227 | 80  | 60  | 5    |
| BMFX-200   | 302 | 237 | 125 | 197 | 137 | 249 | 100 | 94  | 5,5  |
| BMFX-250-P | 383 | 286 | 150 | 247 | 174 | 310 | 150 | 150 | 8X11 |
| BMFX-315-P | 446 | 357 | 187 | 312 | 216 | 386 | 181 | 178 | 8X11 |

Dimensions are in (mm)



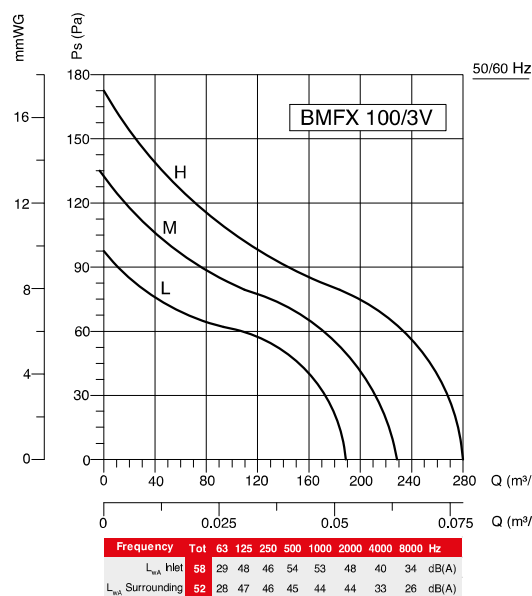
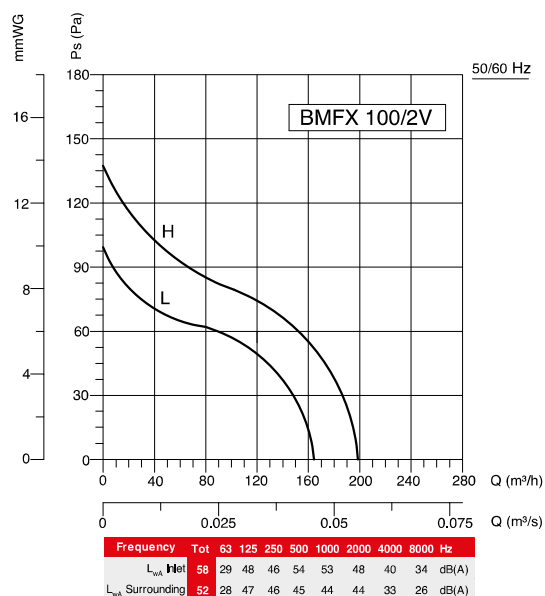
| TYPE     | A   | B   | C   | D   | E   | G   | H   | N   |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|
| BMFX-250 | 386 | 291 | 192 | 248 | 155 | 145 | 140 | 7X4 |
| BMFX-315 | 450 | 356 | 224 | 312 | 188 | 182 | 178 | 7X4 |

Dimensions are in (mm)

| TYPE           | VOLTAGE | FREQUENCY | POWER | CURRENT | CAPACITOR | SPEED | AIR FLOW | SOUND PRESSURE | INSULATION CLASS | PROTECTION CLASS | WEIGHT | SPEED |
|----------------|---------|-----------|-------|---------|-----------|-------|----------|----------------|------------------|------------------|--------|-------|
|                | V       | Hz        | W     | (A)     | (μF)      | r.p.m | m³/h     | dB(A)          | Ins.cl.          | IP               | kg     |       |
| BMFX 100/2V    | 230     | 50/60     | 20    | 0,11    | 1         | 2200  | 198      | 31             | B                | 44               | 1,8    | H     |
|                |         |           | 18    | 0,10    |           | 1850  | 165      | 26             |                  |                  |        | L     |
| BMFX 125/2V    | 230     | 50/60     | 27    | 0,14    | 1         | 2250  | 284      | 31             | B                | 44               | 2      | H     |
|                |         |           | 23    | 0,12    |           | 1950  | 248      | 26             |                  |                  |        | L     |
| BMFX 150/2V    | 230     | 50/60     | 44    | 0,22    | 1,2       | 2550  | 530      | 33             | B                | 44               | 2,7    | H     |
|                |         |           | 35    | 0,19    |           | 1950  | 410      | 29             |                  |                  |        | L     |
| BMFX 200/2V    | 230     | 50/60     | 100   | 0,52    | 3         | 2350  | 840      | 36             | B                | 44               | 4,8    | H     |
|                |         |           | 90    | 0,48    |           | 2050  | 690      | 32             |                  |                  |        | L     |
| BMFX 250/2V    | 230     | 50/60     | 140   | 0,7     | 5         | 2500  | 1100     | 40             | F                | 44               | 9,4    | H     |
|                |         |           | 110   | 0,6     |           | 2050  | 990      | 37             |                  |                  |        | L     |
| BMFX 315/2V    | 230     | 50/60     | 190   | 1,1     | 10        | 2680  | 2000     | 45             | F                | 44               | 14     | H     |
|                |         |           | 145   | 0,74    |           | 2150  | 1500     | 40             |                  |                  |        | L     |
| BMFX 250-P/2V  | 230     | 50/60     | 225   | 1,2     | 8         | 2450  | 1405     | 38             | B                | 44               | 7,5    | H     |
|                |         |           | 165   | 0,75    |           | 1850  | 1064     | 34             |                  |                  |        | L     |
| BMFX 315-P/2V  | 230     | 50/60     | 390   | 1,9     | 16        | 2350  | 2206     | 42             | B                | 44               | 11     | H     |
|                |         |           | 275   | 1,4     |           | 1650  | 1750     | 38             |                  |                  |        | L     |
| BMFX-ST 100/2V | 230     | 50/60     | 35    | 0,26    | 1         | 2600  | 177      | 25             | B                | 44               | 3      | H     |
|                |         |           | 20    | 0,15    |           | 2100  | 133      | 23             |                  |                  |        | L     |
| BMFX-ST 125/2V | 230     | 50/60     | 35    | 0,28    | 1         | 2600  | 218      | 31             | B                | 44               | 3,5    | H     |
|                |         |           | 20    | 0,17    |           | 2100  | 181      | 26             |                  |                  |        | L     |

Sound Level Measured from 3m distance in room condition.

## Accessories



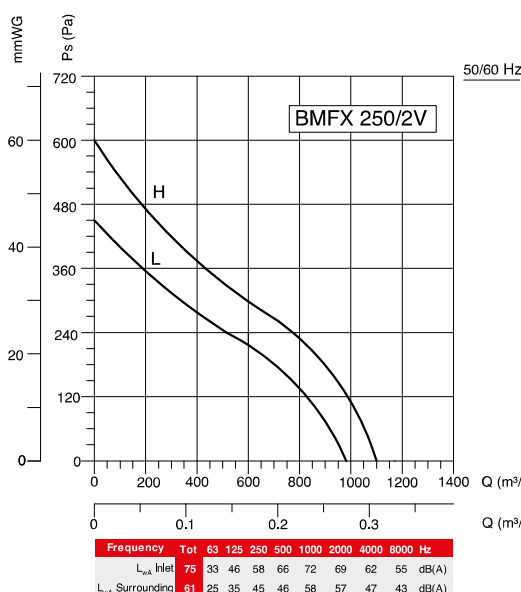
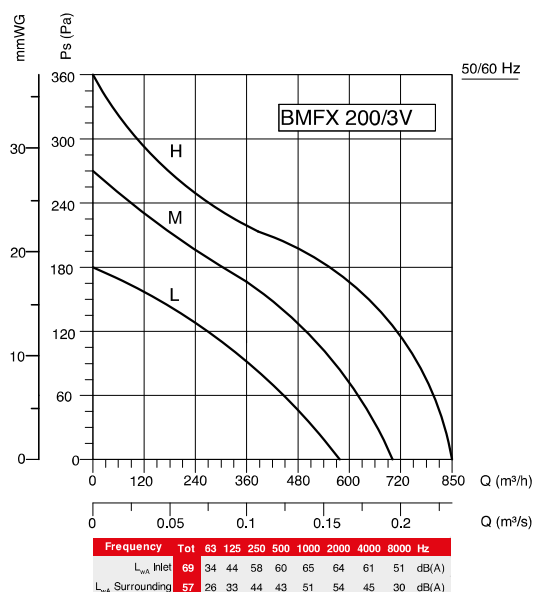
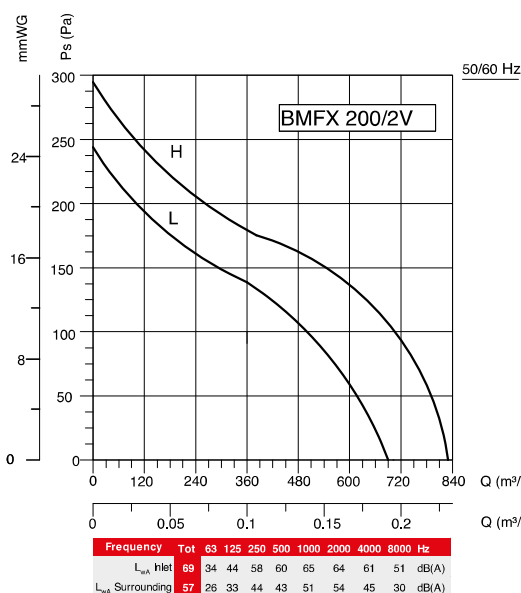
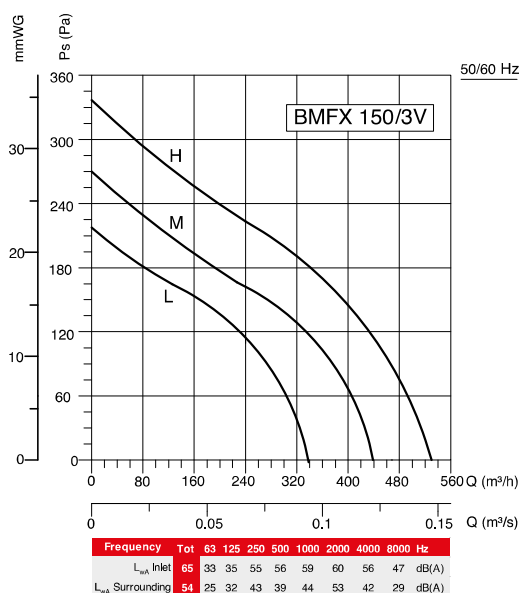
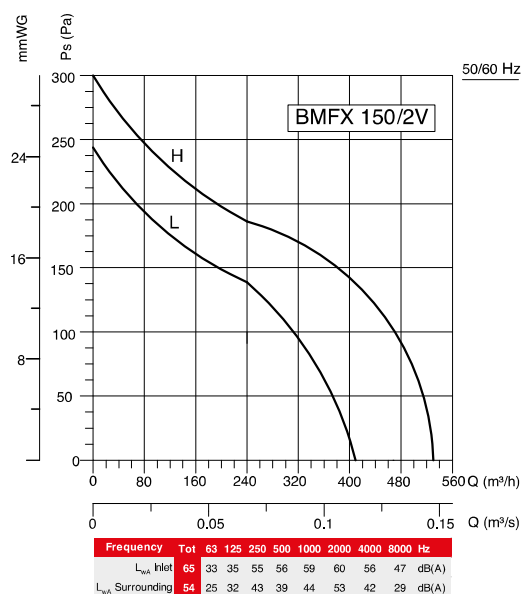
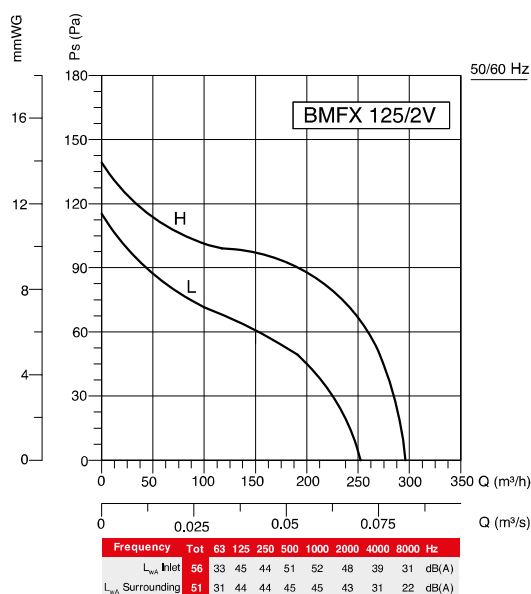
Distributeur en TUNISIE :

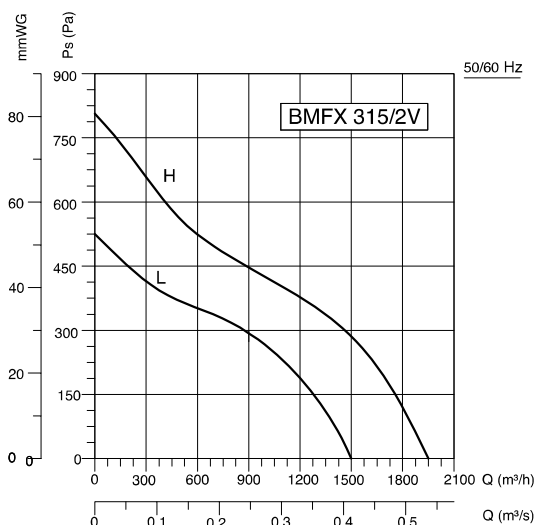


La ventilation par excellence

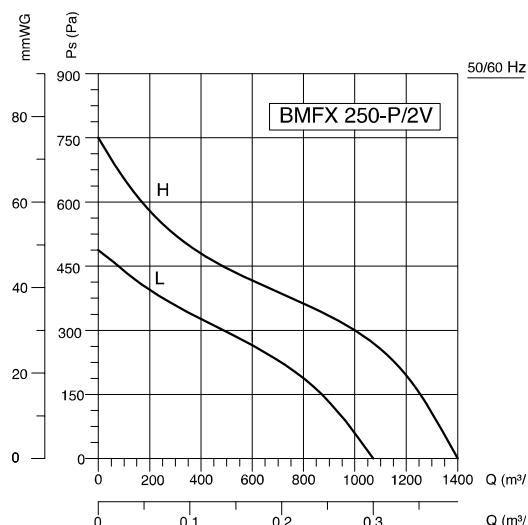
Rue de la Fonte, Zone industrielle  
 2013 Ben Arous - Tunisie  
 (+216) 70 287 116 / 44 533 151  
 contact@airben.tn  
 www.airben.tn

## DUCT FANS / CIRCULAR DUCT FANS

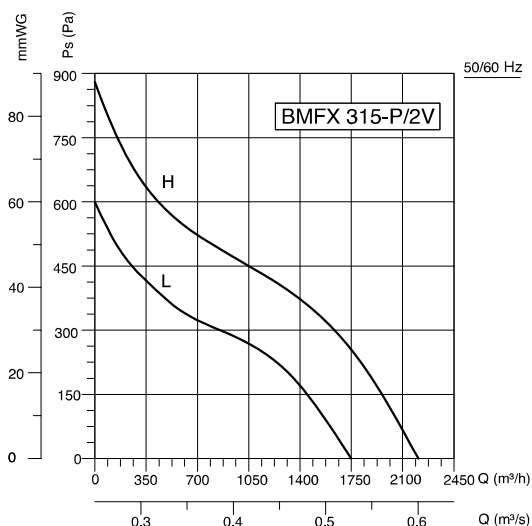




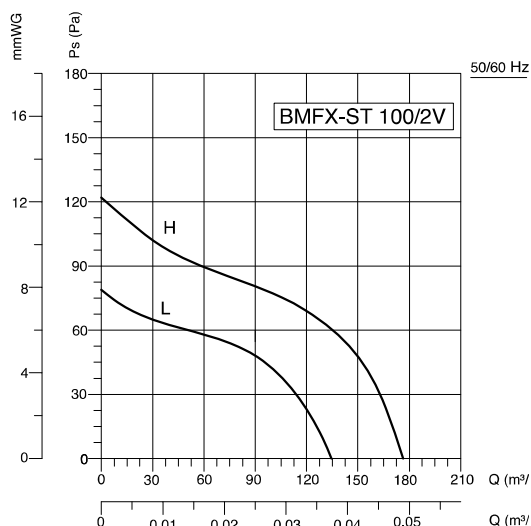
| Frequency                   | Tot | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz    |
|-----------------------------|-----|----|-----|-----|-----|------|------|------|------|-------|
| L <sub>wa</sub> Inlet       | 75  | 38 | 54  | 63  | 68  | 74   | 41   | 54   | 59   | dB(A) |
| L <sub>wa</sub> Surrounding | 65  | 26 | 38  | 49  | 52  | 61   | 60   | 54   | 50   | dB(A) |



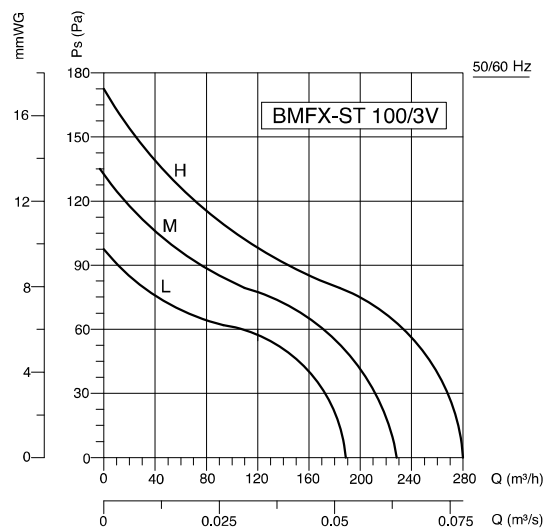
| Frequency                   | Tot | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz    |
|-----------------------------|-----|----|-----|-----|-----|------|------|------|------|-------|
| L <sub>wa</sub> Inlet       | 73  | 31 | 44  | 56  | 64  | 70   | 67   | 60   | 53   | dB(A) |
| L <sub>wa</sub> Surrounding | 59  | 23 | 33  | 43  | 44  | 56   | 55   | 45   | 41   | dB(A) |



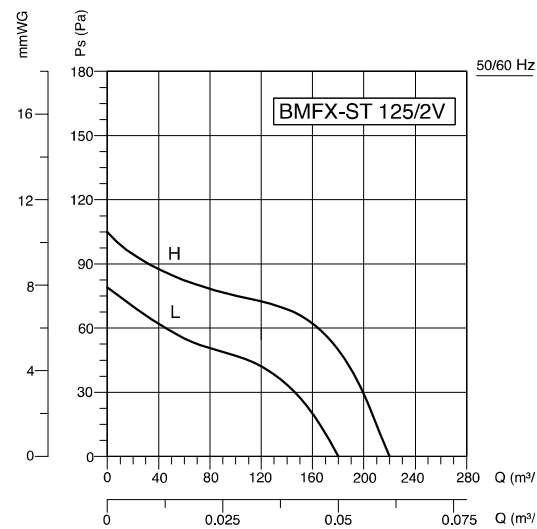
| Frequency                   | Tot | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz    |
|-----------------------------|-----|----|-----|-----|-----|------|------|------|------|-------|
| L <sub>wa</sub> Inlet       | 74  | 36 | 52  | 61  | 68  | 72   | 39   | 52   | 57   | dB(A) |
| L <sub>wa</sub> Surrounding | 63  | 24 | 36  | 47  | 50  | 59   | 58   | 52   | 48   | dB(A) |



| Frequency                   | Tot | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz    |
|-----------------------------|-----|----|-----|-----|-----|------|------|------|------|-------|
| L <sub>wa</sub> Inlet       | 56  | 33 | 45  | 44  | 51  | 52   | 48   | 39   | 31   | dB(A) |
| L <sub>wa</sub> Surrounding | 51  | 31 | 44  | 44  | 45  | 45   | 43   | 31   | 22   | dB(A) |



| Frequency                   | Tot | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz    |
|-----------------------------|-----|----|-----|-----|-----|------|------|------|------|-------|
| L <sub>wa</sub> Inlet       | 56  | 33 | 45  | 44  | 51  | 52   | 48   | 39   | 31   | dB(A) |
| L <sub>wa</sub> Surrounding | 51  | 31 | 44  | 44  | 45  | 45   | 43   | 31   | 22   | dB(A) |



| Frequency                   | Tot | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz    |
|-----------------------------|-----|----|-----|-----|-----|------|------|------|------|-------|
| L <sub>wa</sub> Inlet       | 56  | 33 | 45  | 44  | 51  | 52   | 48   | 39   | 31   | dB(A) |
| L <sub>wa</sub> Surrounding | 51  | 31 | 44  | 44  | 45  | 45   | 43   | 31   | 22   | dB(A) |