



## Duct fans ICB



A wide  
range



IP 44 protection  
class



Perfectly  
balanced rotor

### Design

Duct fan, radial. The housing is made of steel sheet, powder coated in colour RAL 7030. The rotor is made of galvanised sheet with backward curved impeller, dynamically balanced. The junction box is attached directly to the case.

### Usage

The fan is designed to transport clean air. It is perfect for any supply installation, as well as for exhaust installations in apartments, offices, shops, hospitals, as well as industrial installations.

### Electric motor

Motor with rotating stator, powered by single phase current 230V, 50Hz. Suitable for voltage regulation. Protection class IP 44, insulation class B or F.

### Operating temperature

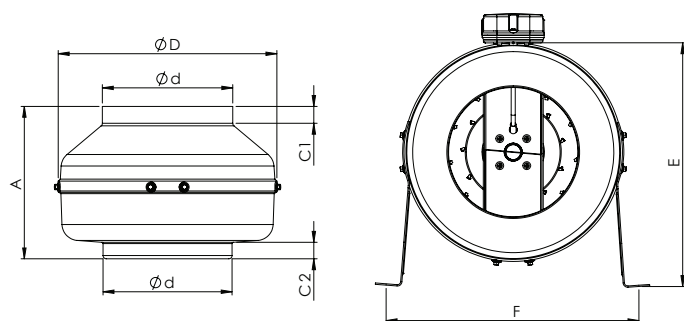
The fan is designed to transmit air with a temperature not exceeding 55°C.

### Technical specifications

| Model          | Air flow<br>[m³/h] | Impeller speed<br>[rpm] | Power<br>[W] | Current<br>[A] | Voltage<br>[V] | Frequency<br>[Hz] | Capacitor<br>[µF] | Sound<br>pressure level<br>[dB(A)] | Weight<br>[kg] | Controller<br>HRX | Controller<br>HRB |
|----------------|--------------------|-------------------------|--------------|----------------|----------------|-------------------|-------------------|------------------------------------|----------------|-------------------|-------------------|
| ICB-100/250 M  | 240                | 2610                    | 60           | 0,3            | 230            | 50                | 2,0               | 44                                 | 2,6            | 1,0               | 1,5               |
| ICB-125/350 M  | 315                | 2325                    | 80           | 0,4            | 230            | 50                | 2,5               | 43                                 | 2,7            | 1,0               | 1,5               |
| ICB-150/450 M  | 420                | 2450                    | 78           | 0,4            | 230            | 50                | 2,5               | 46                                 | 3,0            | 1,0               | 1,5               |
| ICB-160/400 M  | 440                | 2550                    | 85           | 0,4            | 230            | 50                | 2,5               | 45                                 | 3,2            | 1,0               | 1,5               |
| ICB-200/850 M  | 735                | 2300                    | 90           | 0,43           | 230            | 50                | 2,5               | 46                                 | 4,4            | 1,0               | 1,5               |
| ICB-200/1000 M | 870                | 2530                    | 100          | 0,51           | 230            | 50                | 4,0               | 48                                 | 4,8            | 1,0               | 1,5               |
| ICB-250/1100 M | 1010               | 2400                    | 140          | 0,69           | 230            | 50                | 4,0               | 45                                 | 4,9            | 1,0               | 1,5               |
| ICB-250/1250 M | 1150               | 2650                    | 145          | 0,74           | 230            | 50                | 6,0               | 47                                 | 5,3            | 1,0               | 1,5               |
| ICB-315/1600 M | 1450               | 2400                    | 160          | 0,8            | 230            | 50                | 6,0               | 48                                 | 6,8            | 2,5               | 1,5               |
| ICB-315/1900 M | 1750               | 2500                    | 180          | 0,87           | 230            | 50                | 7,0               | 49                                 | 6,9            | 2,5               | 1,5               |
| ICB-355/1450 M | 1300               | 1450                    | 160          | 1,0            | 230            | 50                | 4,0               | 45                                 | 9,0            | 2,5               | 1,5               |

Sound pressure level measured at 3m.

### Technical drawing



### Dimensions [mm]

| Model   | ØD  | Ød  | C1 | C2 | A   | E   | F   |
|---------|-----|-----|----|----|-----|-----|-----|
| ICB-100 | 245 | 97  | 20 | 20 | 197 | 273 | 268 |
| ICB-125 | 245 | 122 | 20 | 20 | 188 | 273 | 268 |
| ICB-150 | 272 | 147 | 23 | 25 | 192 | 286 | 295 |
| ICB-160 | 272 | 157 | 23 | 25 | 192 | 286 | 295 |
| ICB-200 | 330 | 196 | 30 | 28 | 230 | 380 | 352 |
| ICB-250 | 330 | 247 | 30 | 28 | 227 | 380 | 352 |
| ICB-315 | 400 | 313 | 30 | 30 | 285 | 415 | 422 |
| ICB-355 | 400 | 352 | 30 | 30 | 378 | 415 | 422 |

### Accessories



**HRX**  
Electronic speed controller  
page 174



**FKOV**  
Filter G3 for round ducts  
page 83



**AKUFLEX**  
Flexible acoustic silencer  
page 71



**RSKV**  
Backdraft damper  
page 41



**HRB**  
Transformer speed controller  
page 176



**WSH**  
Service switch  
page 177

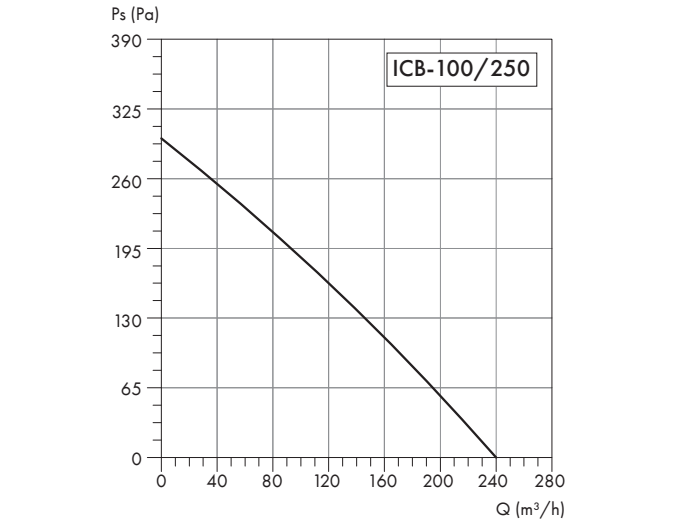


**PCC**  
Fastening clamp  
page 81

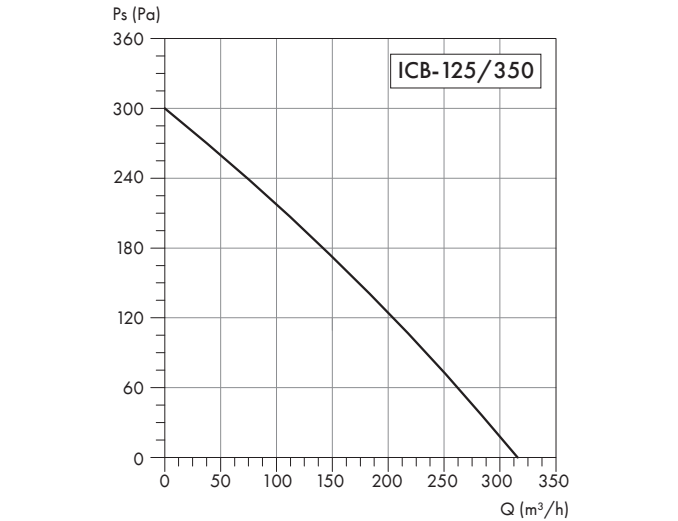


**PSH**  
Pressure switch  
page 173

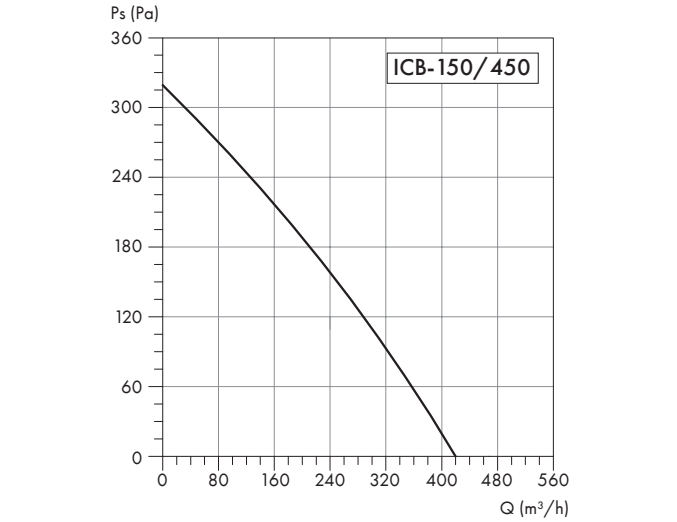
Characteristics



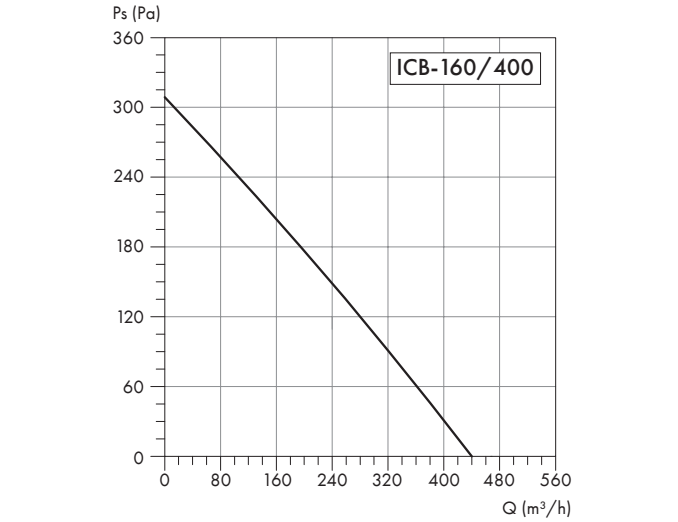
| Frequency               | Total | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz    |
|-------------------------|-------|----|-----|-----|-----|------|------|------|------|-------|
| L <sub>WA</sub> Inlet   | 71    | 53 | 65  | 62  | 65  | 64   | 60   | 52   | 42   | dB(A) |
| L <sub>WA</sub> Outlet  | 68    | 54 | 64  | 58  | 62  | 61   | 58   | 50   | 40   | dB(A) |
| L <sub>WA</sub> Emitted | 51    | 29 | 17  | 30  | 47  | 46   | 45   | 39   | 27   | dB(A) |



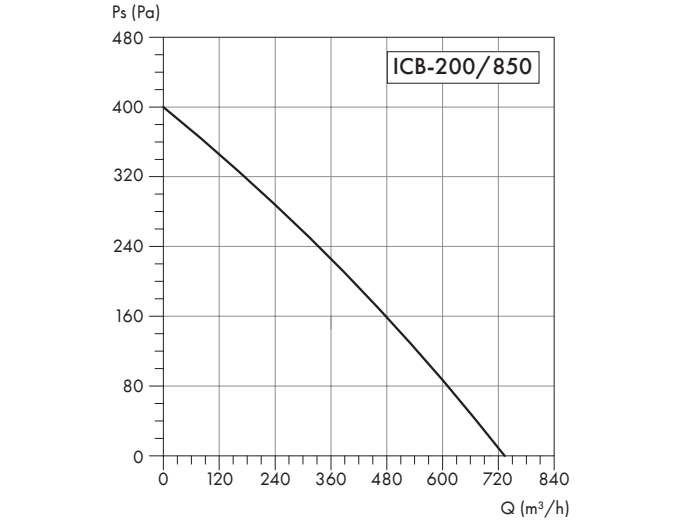
| Frequency               | Total | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz    |
|-------------------------|-------|----|-----|-----|-----|------|------|------|------|-------|
| L <sub>WA</sub> Inlet   | 70    | 47 | 63  | 64  | 65  | 63   | 60   | 55   | 45   | dB(A) |
| L <sub>WA</sub> Outlet  | 68    | 49 | 62  | 59  | 62  | 61   | 58   | 52   | 43   | dB(A) |
| L <sub>WA</sub> Emitted | 50    | 20 | 20  | 39  | 45  | 44   | 43   | 36   | 30   | dB(A) |



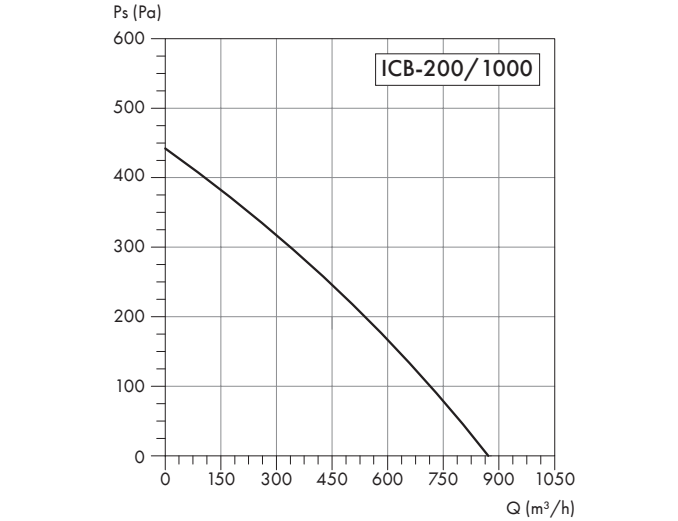
| Frequency               | Total | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz    |
|-------------------------|-------|----|-----|-----|-----|------|------|------|------|-------|
| L <sub>WA</sub> Inlet   | 76    | 52 | 73  | 65  | 69  | 67   | 62   | 60   | 50   | dB(A) |
| L <sub>WA</sub> Outlet  | 74    | 55 | 71  | 62  | 68  | 64   | 62   | 55   | 50   | dB(A) |
| L <sub>WA</sub> Emitted | 53    | 20 | 35  | 37  | 50  | 45   | 46   | 44   | 32   | dB(A) |



| Frequency               | Total | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz    |
|-------------------------|-------|----|-----|-----|-----|------|------|------|------|-------|
| L <sub>WA</sub> Inlet   | 75    | 50 | 70  | 66  | 71  | 68   | 45   | 58   | 48   | dB(A) |
| L <sub>WA</sub> Outlet  | 76    | 56 | 74  | 61  | 69  | 66   | 62   | 56   | 48   | dB(A) |
| L <sub>WA</sub> Emitted | 52    | 10 | 32  | 36  | 48  | 46   | 45   | 42   | 28   | dB(A) |

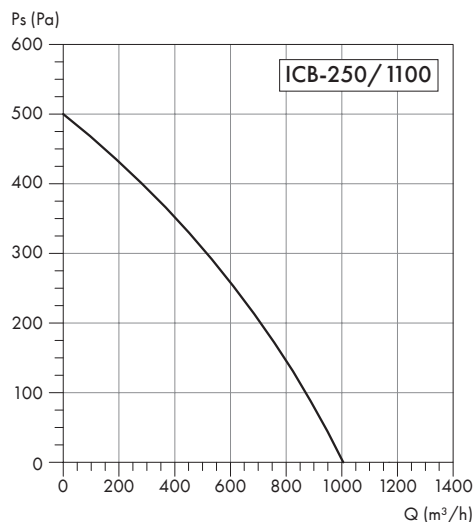


| Frequency               | Total | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz    |
|-------------------------|-------|----|-----|-----|-----|------|------|------|------|-------|
| L <sub>WA</sub> Inlet   | 70    | 42 | 61  | 64  | 63  | 64   | 63   | 56   | 54   | dB(A) |
| L <sub>WA</sub> Outlet  | 71    | 49 | 59  | 62  | 65  | 64   | 64   | 58   | 53   | dB(A) |
| L <sub>WA</sub> Emitted | 53    | 8  | 25  | 32  | 45  | 49   | 47   | 42   | 38   | dB(A) |

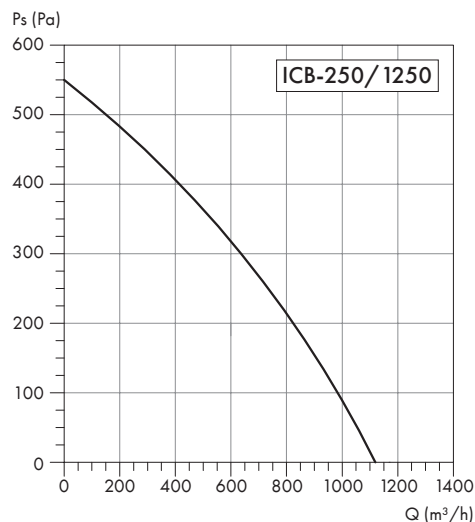


| Frequency               | Total | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz    |
|-------------------------|-------|----|-----|-----|-----|------|------|------|------|-------|
| L <sub>WA</sub> Inlet   | 71    | 42 | 61  | 64  | 64  | 64   | 63   | 56   | 54   | dB(A) |
| L <sub>WA</sub> Outlet  | 72    | 49 | 60  | 63  | 66  | 64   | 66   | 58   | 53   | dB(A) |
| L <sub>WA</sub> Emitted | 54    | 8  | 35  | 40  | 47  | 50   | 47   | 45   | 40   | dB(A) |

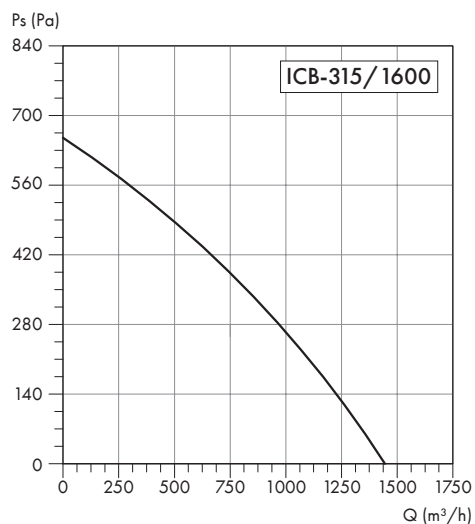
## Characteristics



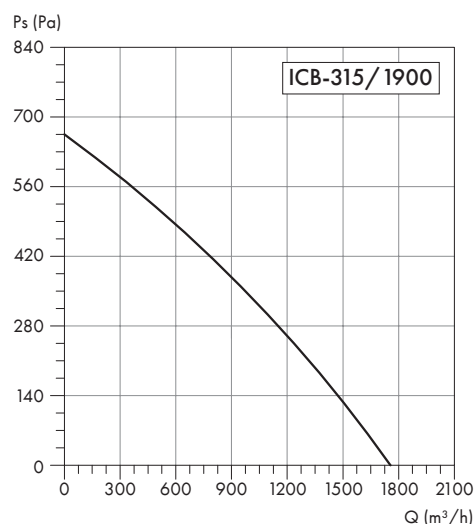
| Frequency        | Total | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz    |
|------------------|-------|----|-----|-----|-----|------|------|------|------|-------|
| $L_{wA}$ Inlet   | 70    | 49 | 59  | 65  | 61  | 64   | 61   | 60   | 50   | dB(A) |
| $L_{wA}$ Outlet  | 71    | 48 | 60  | 65  | 61  | 65   | 63   | 61   | 51   | dB(A) |
| $L_{wA}$ Emitted | 52    | 27 | 28  | 46  | 45  | 47   | 45   | 42   | 30   | dB(A) |



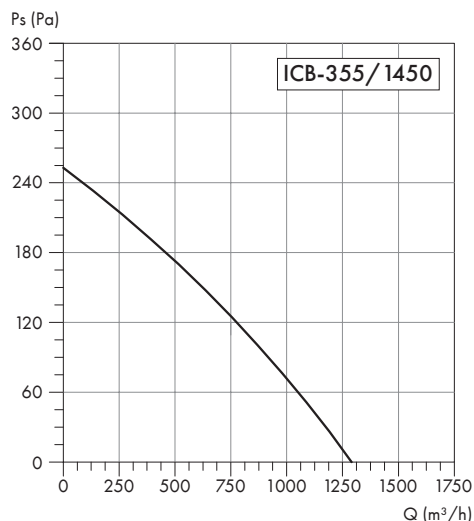
| Frequency        | Total | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz    |
|------------------|-------|----|-----|-----|-----|------|------|------|------|-------|
| $L_{wA}$ Inlet   | 70    | 49 | 59  | 65  | 62  | 65   | 61   | 60   | 50   | dB(A) |
| $L_{wA}$ Outlet  | 71    | 48 | 60  | 65  | 61  | 65   | 63   | 61   | 51   | dB(A) |
| $L_{wA}$ Emitted | 54    | 28 | 29  | 47  | 47  | 49   | 45   | 43   | 30   | dB(A) |



| Frequency        | Total | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz    |
|------------------|-------|----|-----|-----|-----|------|------|------|------|-------|
| $L_{wA}$ Inlet   | 72    | 46 | 60  | 65  | 64  | 66   | 63   | 64   | 53   | dB(A) |
| $L_{wA}$ Outlet  | 73    | 52 | 60  | 64  | 63  | 66   | 67   | 65   | 55   | dB(A) |
| $L_{wA}$ Emitted | 54    | 18 | 25  | 43  | 47  | 47   | 50   | 46   | 34   | dB(A) |



| Frequency        | Total | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz    |
|------------------|-------|----|-----|-----|-----|------|------|------|------|-------|
| $L_{wA}$ Inlet   | 75    | 55 | 66  | 68  | 70  | 68   | 66   | 63   | 58   | dB(A) |
| $L_{wA}$ Outlet  | 76    | 62 | 67  | 71  | 69  | 68   | 69   | 63   | 57   | dB(A) |
| $L_{wA}$ Emitted | 56    | 22 | 35  | 45  | 51  | 47   | 50   | 46   | 45   | dB(A) |



| Frequency        | Total | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz    |
|------------------|-------|----|-----|-----|-----|------|------|------|------|-------|
| $L_{wA}$ Inlet   | 70    | 49 | 59  | 65  | 61  | 64   | 61   | 60   | 50   | dB(A) |
| $L_{wA}$ Outlet  | 71    | 48 | 60  | 65  | 61  | 65   | 63   | 61   | 51   | dB(A) |
| $L_{wA}$ Emitted | 52    | 27 | 28  | 46  | 45  | 47   | 45   | 42   | 30   | dB(A) |