

# Iso-K

## Sound-insulated inline fans

### Use

- Hot and highly polluted air extract up to +120 °C in high resistance condition.
- Kitchen placement extract systems (combined with grease filters).
- Ventilation for baking halls.
- Welding gas extract.
- The fans is available for round air ducts Ø 150, 160, 200, 250, 315, 355, 400, 450 mm.



**Air flow:**  
up to 8138 m<sup>3</sup>/h  
2261 l/s



**Power:**  
from 180 W



**Noise level:**  
from 41 dBA



### Design

- Galvanized steel casing internally filled with 50 mm thermal- and sound-insulating layer made of non-flammable mineral wool.
- The fan casing is installed on a supporting mounting frame with integrated vibration isolators.
- The swivel motor-impeller block is attached to the swivel door which facilitates the fan servicing.

### Motor

- Single- or three-speed motor.
- Galvanized steel impeller.
- Equipped with ball bearings for longer service life.
- Dynamically balanced impeller.
- F class motor winding insulation and IP54 ingress protection rating.
- Overheating protection by built-in thermal switches with leads for connection to external protection devices.

### Operation and speed control

- Smooth or step-up speed control with an auto transformer or frequency inverter (both available upon separate order).

### Mounting

- Compatible with round air ducts. The spigot diameter matches the standard air duct sizes.
- Mounting to the wall with the mounting angle bracket **UM Iso-K**. Available upon separate order.
- External terminal box on the motor for connection to power mains.

### Overall dimensions [mm]

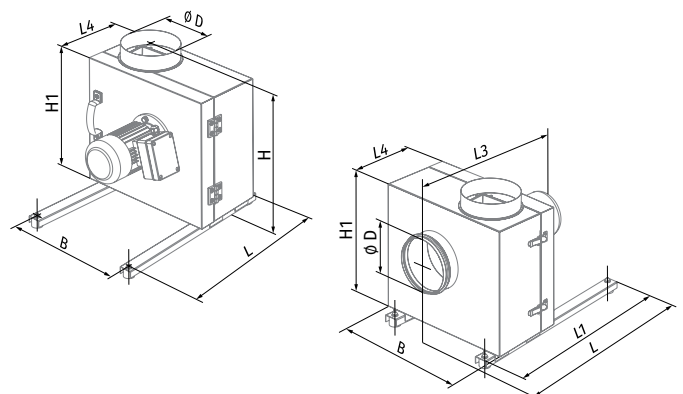
| Type         | Ø D | B   | B1  | H   | H1  | L   | L1  | L2  | L3  | L4  | Weight [kg] |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------|
| Iso-K 150 4E | 150 | 410 | 330 | 540 | 365 | 525 | 500 | 470 | 475 | 205 | 17          |
| Iso-K 150 4D | 150 | 410 | 330 | 540 | 365 | 525 | 500 | 470 | 475 | 205 | 17          |
| Iso-K 160 4E | 160 | 410 | 330 | 540 | 365 | 525 | 500 | 470 | 475 | 205 | 17          |
| Iso-K 160 4D | 160 | 410 | 330 | 540 | 365 | 525 | 500 | 470 | 475 | 205 | 17          |
| Iso-K 200 4E | 200 | 485 | 365 | 600 | 425 | 625 | 600 | 570 | 515 | 235 | 25          |
| Iso-K 200 4D | 200 | 485 | 365 | 600 | 425 | 625 | 600 | 570 | 515 | 235 | 25          |
| Iso-K 250 4E | 250 | 575 | 435 | 665 | 505 | 700 | 675 | 645 | 620 | 285 | 40          |
| Iso-K 250 4D | 250 | 575 | 435 | 665 | 505 | 700 | 675 | 645 | 620 | 285 | 40          |
| Iso-K 315 4E | 315 | 690 | 550 | 708 | 600 | 715 | 700 | 650 | 612 | 327 | 53          |
| Iso-K 315 4D | 315 | 690 | 550 | 708 | 600 | 715 | 700 | 650 | 612 | 327 | 52          |
| Iso-K 315 2E | 315 | 690 | 550 | 708 | 600 | 715 | 700 | 650 | 672 | 327 | 61          |
| Iso-K 315 2D | 315 | 690 | 550 | 708 | 600 | 715 | 700 | 650 | 672 | 327 | 60          |
| Iso-K 355 4E | 355 | 740 | 600 | 764 | 655 | 727 | 700 | 650 | 637 | 352 | 60          |
| Iso-K 355 4D | 355 | 740 | 600 | 764 | 655 | 727 | 700 | 650 | 637 | 352 | 59          |
| Iso-K 355 2E | 355 | 740 | 600 | 764 | 655 | 727 | 700 | 650 | 637 | 352 | 68          |
| Iso-K 355 2D | 355 | 740 | 600 | 764 | 655 | 727 | 700 | 650 | 637 | 352 | 65          |
| Iso-K 400 4E | 400 | 906 | 700 | 900 | 790 | 908 | 900 | 850 | 747 | 402 | 92          |
| Iso-K 400 4D | 400 | 906 | 700 | 900 | 790 | 908 | 900 | 850 | 747 | 402 | 92          |
| Iso-K 400 6E | 400 | 906 | 700 | 900 | 790 | 908 | 900 | 850 | 687 | 402 | 87          |
| Iso-K 400 6D | 400 | 906 | 700 | 900 | 790 | 908 | 900 | 850 | 687 | 402 | 87          |
| Iso-K 450 4E | 450 | 996 | 750 | 980 | 870 | 925 | 900 | 850 | 782 | 437 | 109         |
| Iso-K 450 4D | 450 | 996 | 750 | 980 | 870 | 925 | 900 | 850 | 782 | 437 | 109         |
| Iso-K 450 6E | 450 | 996 | 750 | 980 | 870 | 925 | 900 | 850 | 739 | 437 | 105         |
| Iso-K 450 6D | 450 | 996 | 750 | 980 | 870 | 925 | 900 | 850 | 739 | 437 | 105         |

### Designation key

| Series | Spigot diameter [mm]                   | Motor           |                                   |
|--------|--|-----------------|-----------------------------------|
|        |  | Number of poles | Phase                             |
| Iso-K  | 150; 160; 200; 250; 315; 355; 400; 450 | 2; 4; 6         | E: single-phase<br>D: three-phase |

### Accessories

| Backdraft air dampers   | Fixing brackets   | Sleeves   | Flexible connectors   |
|---|---|---|---|
|  |  |  |  |
| VRV   | UM Iso-K  | V Iso-K   | EVA   |



## Technical data

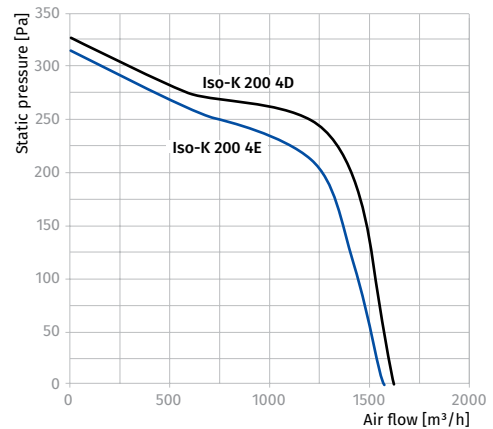
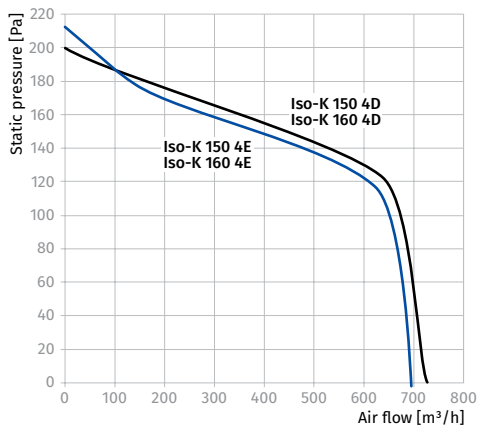
| Parameters                       | Iso-K 150 4E / Iso-K 160 4E | Iso-K 150 4D / Iso-K 160 4D | Iso-K 200 4E | Iso-K 200 4D | Iso-K 250 4E | Iso-K 250 4D |
|----------------------------------|-----------------------------|-----------------------------|--------------|--------------|--------------|--------------|
| Voltage [V]                      | 1 ~ 230                     | 3 ~ 400                     | 1 ~ 230      | 3 ~ 400      | 1 ~ 230      | 3 ~ 400      |
| Frequency [Hz]                   | 50                          | 50                          | 50           | 50           | 50           | 50           |
| Power [W]                        | 180                         | 180                         | 550          | 750          | 1500         | 1500         |
| Current [A]                      | 1.7                         | 0.6                         | 3.0          | 2.0          | 11.0         | 3.4          |
| Maximum air flow [m³/h (l/s)]    | 700 (194)                   | 730 (203)                   | 1600 (444)   | 1650 (458)   | 3400 (945)   | 3500 (972)   |
| RPM [min⁻¹]                      | 1450                        | 1455                        | 1475         | 1465         | 1500         | 1470         |
| Sound pressure at 3 m [dBA]      | 41                          | 41                          | 45           | 45           | 51           | 51           |
| Transported air temperature [°C] | -20...+120                  | -20...+120                  | -20...+120   | -20...+120   | -20...+120   | -20...+120   |
| IP rating                        | IP54                        | IP54                        | IP54         | IP54         | IP54         | IP54         |
| Motor IP rating                  | IP54                        | IP54                        | IP54         | IP54         | IP54         | IP54         |

### ISO-K 150 4E / ISO-K 160 4E, ISO-K 150 4D / ISO-K 160 4D

| Sound power level, A-weighted        | Total | Octave frequency bands [Hz] |     |     |     |      |      |      |      |
|--------------------------------------|-------|-----------------------------|-----|-----|-----|------|------|------|------|
|                                      |       | 63                          | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| L <sub>WA</sub> to inlet [dBA]       | 76    | 68                          | 70  | 72  | 62  | 59   | 63   | 57   | 61   |
| L <sub>WA</sub> to outlet [dBA]      | 77    | 73                          | 77  | 79  | 70  | 66   | 67   | 60   | 53   |
| L <sub>WA</sub> to environment [dBA] | 57    | 51                          | 56  | 57  | 50  | 49   | 48   | 40   | 33   |

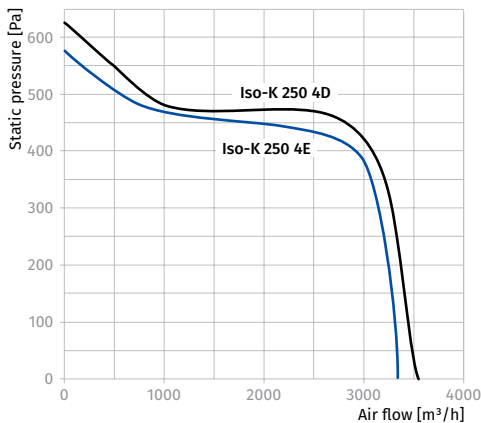
### ISO-K 200 4E, ISO-K 200 4D

| Sound power level, A-weighted        | Total | Octave frequency bands [Hz] |     |     |     |      |      |      |      |
|--------------------------------------|-------|-----------------------------|-----|-----|-----|------|------|------|------|
|                                      |       | 63                          | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| L <sub>WA</sub> to inlet [dBA]       | 79    | 71                          | 75  | 75  | 66  | 62   | 65   | 58   | 64   |
| L <sub>WA</sub> to outlet [dBA]      | 82    | 78                          | 78  | 81  | 74  | 68   | 69   | 64   | 56   |
| L <sub>WA</sub> to environment [dBA] | 59    | 53                          | 60  | 58  | 54  | 50   | 51   | 42   | 36   |



### ISO-K 250 4E, ISO-K 250 4D

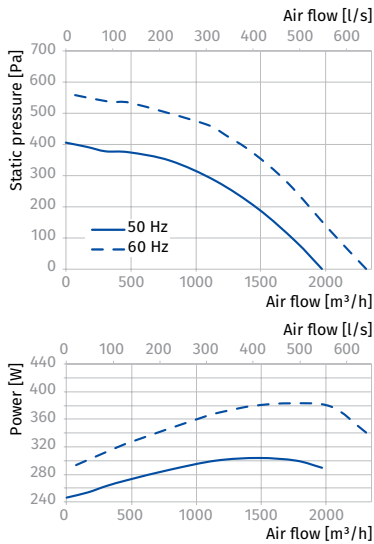
| Sound power level, A-weighted        | Total | Octave frequency bands [Hz] |     |     |     |      |      |      |      |
|--------------------------------------|-------|-----------------------------|-----|-----|-----|------|------|------|------|
|                                      |       | 63                          | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| L <sub>WA</sub> to inlet [dBA]       | 82    | 75                          | 79  | 80  | 71  | 65   | 68   | 63   | 65   |
| L <sub>WA</sub> to outlet [dBA]      | 85    | 79                          | 80  | 82  | 79  | 71   | 70   | 65   | 61   |
| L <sub>WA</sub> to environment [dBA] | 63    | 55                          | 63  | 61  | 57  | 53   | 53   | 45   | 41   |



| Parameters                            | Iso-K 315 4E |            | Iso-K 315 4D |            | Iso-K 315 2E |             | Iso-K 315 2D |             |
|---------------------------------------|--------------|------------|--------------|------------|--------------|-------------|--------------|-------------|
| Voltage [V]                           | 1 ~ 230      |            | 3 ~ 400      |            | 1 ~ 230      |             | 3 ~ 400      |             |
| Frequency [Hz]                        | 50           | 60         | 50           | 60         | 50           | 60          | 50           | 60          |
| Power [W]                             | 304          | 383        | 184          | 206        | 1531         | 2816        | 1225         | 2011        |
| Current [A]                           | 1.84         | 1.72       | 0.70         | 0.70       | 7.35         | 11.92       | 2.80         | 3.40        |
| Maximum air flow [m³/h (l/s)]         | 1970 (547)   | 2310 (642) | 2040 (567)   | 2355 (654) | 4695 (1304)  | 5345 (1485) | 4710 (1308)  | 5290 (1470) |
| RPM [min <sup>-1</sup> ]              | 1475         | 1750       | 1488         | 1776       | 3125         | 3384        | 3025         | 3328        |
| Sound pressure at 3 m [dBA]           | 46           | 47         | 46           | 48         | 53           | 55          | 52           | 54          |
| Max. transported air temperature [°C] | -20...+120   |            | -20...+120   |            | -20...+120   |             | -20...+120   |             |
| IP rating                             | IP54         |            | IP54         |            | IP54         |             | IP54         |             |
| Motor IP rating                       | IP54         |            | IP54         |            | IP54         |             | IP54         |             |

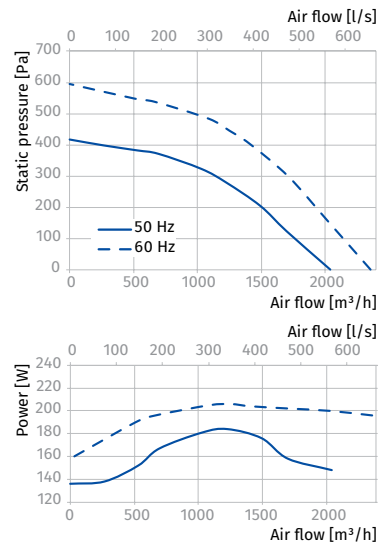
**ISO-K 315 4E**

| Sound power level, A-weighted | Total | Octave frequency bands [Hz] |     |     |     |      |      |      |      | LpA 3 m | LpA 1 m |
|-------------------------------|-------|-----------------------------|-----|-----|-----|------|------|------|------|---------|---------|
|                               |       | 63                          | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |         |         |
| LWA to inlet [dBA]            | 85    | 66                          | 69  | 83  | 78  | 79   | 78   | 73   | 64   | 65      | 75      |
| LWA to outlet [dBA]           | 87    | 66                          | 71  | 84  | 79  | 81   | 79   | 74   | 66   | 67      | 77      |
| LWA to environment [dBA]      | 67    | 45                          | 49  | 63  | 58  | 59   | 58   | 53   | 44   | 46      | 56      |



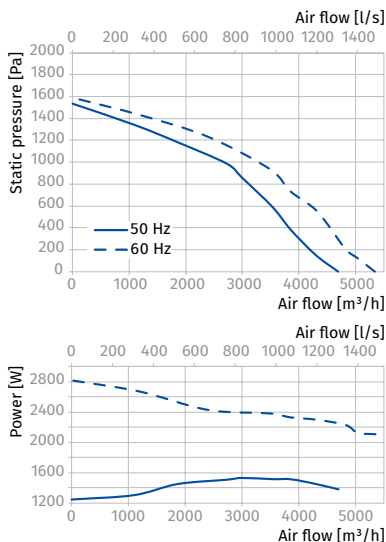
**ISO-K 315 4D**

| Sound power level, A-weighted | Total | Octave frequency bands [Hz] |     |     |     |      |      |      |      | LpA 3 m | LpA 1 m |
|-------------------------------|-------|-----------------------------|-----|-----|-----|------|------|------|------|---------|---------|
|                               |       | 63                          | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |         |         |
| LWA to inlet [dBA]            | 85    | 64                          | 83  | 79  | 75  | 71   | 69   | 64   | 59   | 65      | 75      |
| LWA to outlet [dBA]           | 87    | 77                          | 85  | 80  | 77  | 72   | 70   | 66   | 61   | 67      | 77      |
| LWA to environment [dBA]      | 67    | 51                          | 65  | 60  | 56  | 51   | 49   | 44   | 39   | 46      | 56      |



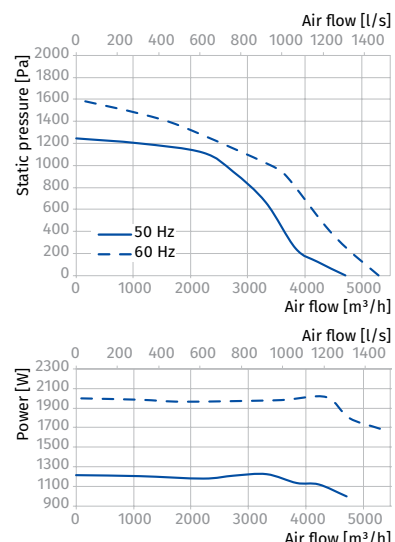
**ISO-K 315 2E**

| Sound power level, A-weighted | Total | Octave frequency bands [Hz] |     |     |     |      |      |      |      | LpA 3 m | LpA 1 m |
|-------------------------------|-------|-----------------------------|-----|-----|-----|------|------|------|------|---------|---------|
|                               |       | 63                          | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |         |         |
| LWA to inlet [dBA]            | 92    | 59                          | 65  | 82  | 90  | 84   | 83   | 81   | 74   | 72      | 82      |
| LWA to outlet [dBA]           | 94    | 61                          | 67  | 84  | 92  | 86   | 85   | 83   | 76   | 74      | 84      |
| LWA to environment [dBA]      | 74    | 40                          | 46  | 63  | 71  | 65   | 64   | 62   | 55   | 53      | 63      |



**ISO-K 315 2D**

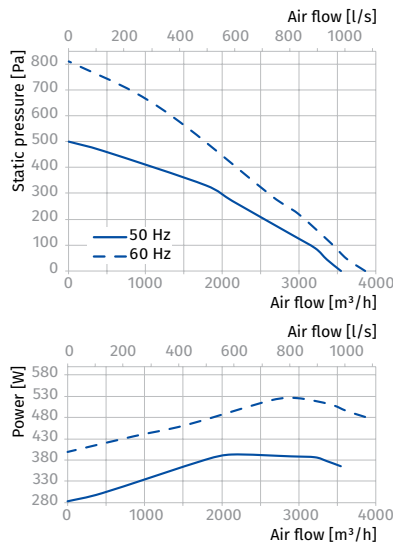
| Sound power level, A-weighted | Total | Octave frequency bands [Hz] |     |     |     |      |      |      |      | LpA 3 m | LpA 1 m |
|-------------------------------|-------|-----------------------------|-----|-----|-----|------|------|------|------|---------|---------|
|                               |       | 63                          | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |         |         |
| LWA to inlet [dBA]            | 90    | 58                          | 64  | 80  | 89  | 82   | 81   | 79   | 72   | 70      | 80      |
| LWA to outlet [dBA]           | 92    | 60                          | 66  | 82  | 91  | 84   | 83   | 81   | 74   | 72      | 82      |
| LWA to environment [dBA]      | 72    | 39                          | 45  | 62  | 70  | 64   | 63   | 61   | 54   | 52      | 62      |



| Parameters                            | Iso-K 355 4E |             | Iso-K 355 4D |            | Iso-K 355 2E | Iso-K 355 2D |
|---------------------------------------|--------------|-------------|--------------|------------|--------------|--------------|
| Voltage [V]                           | 1 ~ 230      |             | 3 ~ 400      |            | 1 ~ 230      | 3 ~ 400      |
| Frequency [Hz]                        | 50           | 60          | 50           | 60         | 50           | 50           |
| Power [W]                             | 393          | 525         | 405          | 580        | 2621         | 3145         |
| Current [A]                           | 2.11         | 2.34        | 0.87         | 1.25       | 12.66        | 6.12         |
| Maximum air flow [m³/h (l/s)]         | 3545 (985)   | 3860 (1072) | 3155 (876)   | 3270 (908) | 6570 (1825)  | 6185 (1718)  |
| RPM [min⁻¹]                           | 1517         | 1705        | 1379         | 1578       | 2890         | 2652         |
| Sound pressure at 3 m [dBA]           | 50           | 52          | 49           | 50         | 54           | 54           |
| Max. transported air temperature [°C] | -20...+120   |             | -20...+120   |            | -20...+120   | -20...+120   |
| IP rating                             | IP54         |             | IP54         |            | IP54         | IP54         |
| Motor IP rating                       | IP54         |             | IP54         |            | IP54         | IP54         |

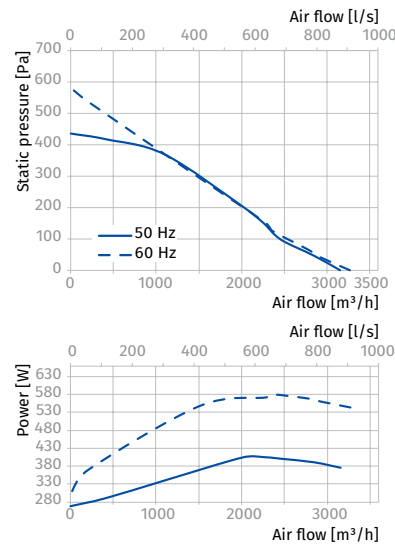
### ISO-K 355 4E

| Sound power level, A-weighted | Total | Octave frequency bands [Hz] |     |     |     |      |      |      |      | LpA 3 m | LpA 1 m |
|-------------------------------|-------|-----------------------------|-----|-----|-----|------|------|------|------|---------|---------|
|                               |       | 63                          | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |         |         |
| LWA to inlet [dBA]            | 89    | 74                          | 76  | 86  | 81  | 83   | 81   | 75   | 68   | 69      | 79      |
| LWA to outlet [dBA]           | 91    | 72                          | 78  | 88  | 83  | 84   | 83   | 77   | 69   | 71      | 81      |
| LWA to environment [dBA]      | 71    | 50                          | 57  | 67  | 62  | 63   | 62   | 55   | 48   | 50      | 60      |



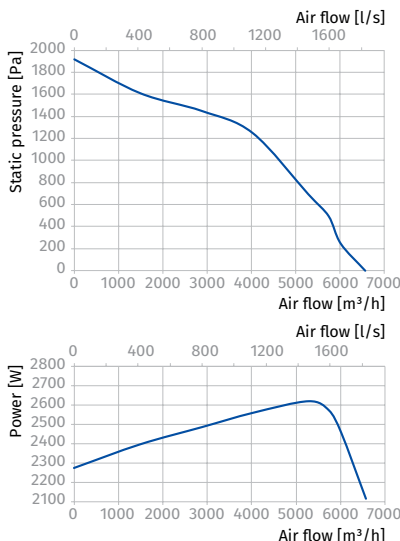
### ISO-K 355 4D

| Sound power level, A-weighted | Total | Octave frequency bands [Hz] |     |     |     |      |      |      |      | LpA 3 m | LpA 1 m |
|-------------------------------|-------|-----------------------------|-----|-----|-----|------|------|------|------|---------|---------|
|                               |       | 63                          | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |         |         |
| LWA to inlet [dBA]            | 88    | 67                          | 87  | 82  | 78  | 74   | 71   | 67   | 62   | 68      | 78      |
| LWA to outlet [dBA]           | 90    | 80                          | 88  | 84  | 80  | 75   | 73   | 68   | 64   | 70      | 80      |
| LWA to environment [dBA]      | 70    | 54                          | 68  | 63  | 59  | 54   | 51   | 46   | 41   | 49      | 59      |



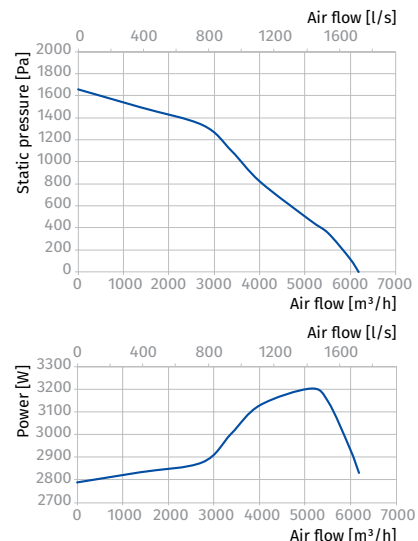
### ISO-K 355 2E

| Sound power level, A-weighted | Total | Octave frequency bands [Hz] |     |     |     |      |      |      |      | LpA 3 m | LpA 1 m |
|-------------------------------|-------|-----------------------------|-----|-----|-----|------|------|------|------|---------|---------|
|                               |       | 63                          | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |         |         |
| LWA to inlet [dBA]            | 92    | 59                          | 66  | 80  | 90  | 85   | 83   | 81   | 73   | 72      | 82      |
| LWA to outlet [dBA]           | 94    | 65                          | 68  | 83  | 92  | 86   | 84   | 82   | 76   | 74      | 84      |
| LWA to environment [dBA]      | 74    | 39                          | 46  | 62  | 72  | 66   | 65   | 63   | 56   | 54      | 64      |



### ISO-K 355 2D

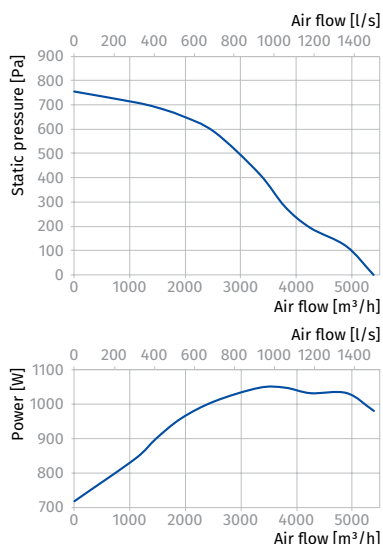
| Sound power level, A-weighted | Total | Octave frequency bands [Hz] |     |     |     |      |      |      |      | LpA 3 m | LpA 1 m |
|-------------------------------|-------|-----------------------------|-----|-----|-----|------|------|------|------|---------|---------|
|                               |       | 63                          | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |         |         |
| LWA to inlet [dBA]            | 92    | 59                          | 65  | 82  | 90  | 84   | 83   | 81   | 74   | 72      | 82      |
| LWA to outlet [dBA]           | 94    | 61                          | 67  | 84  | 92  | 86   | 85   | 83   | 76   | 74      | 84      |
| LWA to environment [dBA]      | 74    | 40                          | 47  | 64  | 72  | 66   | 65   | 63   | 55   | 54      | 64      |



| Parameters                            | Iso-K 400 4E | Iso-K 400 4D | Iso-K 400 6E | Iso-K 400 6D |
|---------------------------------------|--------------|--------------|--------------|--------------|
| Voltage [V]                           | 1 ~ 230      | 3 ~ 400      | 1 ~ 230      | 3 ~ 400      |
| Frequency [Hz]                        | 50           | 50           | 50           | 50           |
| Power [W]                             | 1048         | 785          | 362          | 357          |
| Current [A]                           | 5.00         | 2.25         | 1.71         | 0.92         |
| Maximum air flow [m³/h (l/s)]         | 5392 (1498)  | 5098 (1416)  | 2915 (810)   | 2966 (824)   |
| RPM [min <sup>-1</sup> ]              | 1440         | 1470         | 930          | 948          |
| Sound pressure at 3 m [dBA]           | 54           | 53           | 48           | 47           |
| Max. transported air temperature [°C] | -20...+120   | -20...+120   | -20...+120   | -20...+120   |
| IP rating                             | IP54         | IP54         | IP54         | IP54         |
| Motor IP rating                       | IP54         | IP54         | IP54         | IP54         |

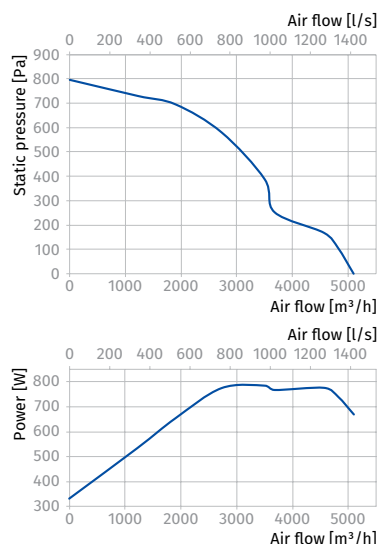
### ISO-K 400 4E

| Sound power level, A-weighted | Total | Octave frequency bands [Hz] |     |     |     |      |      |      |      | LpA 3 m | LpA 1 m |
|-------------------------------|-------|-----------------------------|-----|-----|-----|------|------|------|------|---------|---------|
|                               |       | 63                          | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |         |         |
| LWA to inlet [dBA]            | 86    | 64                          | 79  | 80  | 77  | 78   | 77   | 72   | 67   | 65      | 75      |
| LWA to outlet [dBA]           | 88    | 69                          | 68  | 83  | 82  | 81   | 77   | 72   | 67   | 67      | 77      |
| LWA to environment [dBA]      | 74    | 53                          | 67  | 68  | 69  | 66   | 61   | 58   | 53   | 54      | 64      |



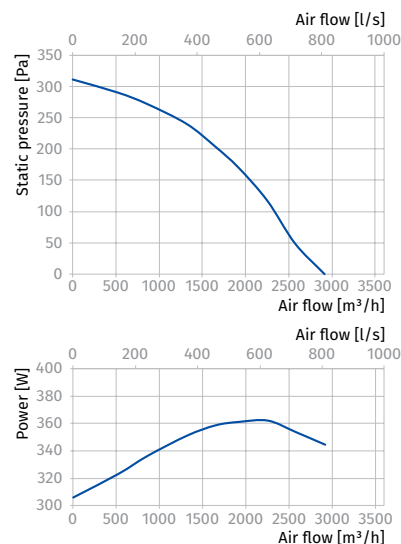
### ISO-K 400 4D

| Sound power level, A-weighted | Total | Octave frequency bands [Hz] |     |     |     |      |      |      |      | LpA 3 m | LpA 1 m |
|-------------------------------|-------|-----------------------------|-----|-----|-----|------|------|------|------|---------|---------|
|                               |       | 63                          | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |         |         |
| LWA to inlet [dBA]            | 85    | 63                          | 79  | 80  | 77  | 78   | 77   | 71   | 66   | 65      | 75      |
| LWA to outlet [dBA]           | 86    | 67                          | 66  | 82  | 81  | 80   | 76   | 70   | 65   | 66      | 76      |
| LWA to environment [dBA]      | 73    | 53                          | 66  | 67  | 68  | 65   | 60   | 58   | 53   | 53      | 63      |



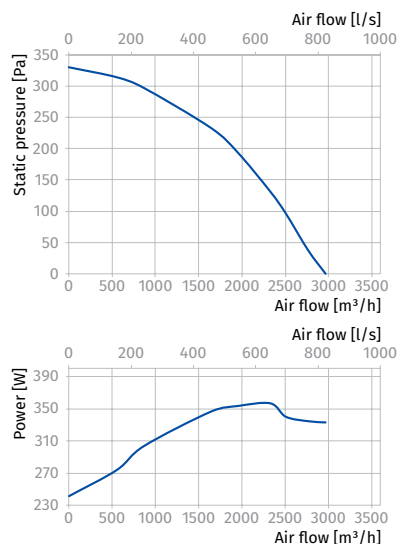
### ISO-K 400 6E

| Sound power level, A-weighted | Total | Octave frequency bands [Hz] |     |     |     |      |      |      |      | LpA 3 m | LpA 1 m |
|-------------------------------|-------|-----------------------------|-----|-----|-----|------|------|------|------|---------|---------|
|                               |       | 63                          | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |         |         |
| LWA to inlet [dBA]            | 92    | 59                          | 65  | 82  | 90  | 84   | 83   | 81   | 74   | 72      | 82      |
| LWA to outlet [dBA]           | 94    | 61                          | 67  | 84  | 92  | 86   | 85   | 83   | 76   | 74      | 84      |
| LWA to environment [dBA]      | 74    | 40                          | 46  | 63  | 71  | 65   | 64   | 62   | 55   | 53      | 63      |



### ISO-K 400 6D

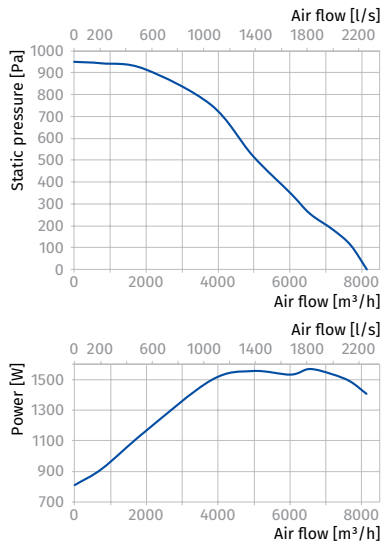
| Sound power level, A-weighted | Total | Octave frequency bands [Hz] |     |     |     |      |      |      |      | LpA 3 m | LpA 1 m |
|-------------------------------|-------|-----------------------------|-----|-----|-----|------|------|------|------|---------|---------|
|                               |       | 63                          | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |         |         |
| LWA to inlet [dBA]            | 77    | 47                          | 58  | 71  | 72  | 69   | 70   | 69   | 65   | 57      | 67      |
| LWA to outlet [dBA]           | 80    | 59                          | 62  | 72  | 74  | 74   | 72   | 68   | 63   | 59      | 69      |
| LWA to environment [dBA]      | 68    | 48                          | 49  | 60  | 62  | 62   | 60   | 55   | 52   | 47      | 57      |



| Parameters                            | Iso-K 450 4E | Iso-K 450 4D | Iso-K 450 6E | Iso-K 450 6D |
|---------------------------------------|--------------|--------------|--------------|--------------|
| Voltage [V]                           | 1 ~ 230      | 3 ~ 400      | 1 ~ 230      | 3 ~ 400      |
| Frequency [Hz]                        | 50           | 50           | 50           | 50           |
| Power [W]                             | 1570         | 1350         | 594          | 454          |
| Current [A]                           | 7.25         | 2.81         | 2.85         | 1.33         |
| Maximum air flow [m³/h (l/s)]         | 8138 (2261)  | 7840 (2178)  | 5299 (1472)  | 4991 (1386)  |
| RPM [min⁻¹]                           | 1470         | 1450         | 970          | 920          |
| Sound pressure at 3 m [dBA]           | 57           | 56           | 50           | 49           |
| Max. transported air temperature [°C] | -20...+120   | -20...+120   | -20...+120   | -20...+120   |
| IP rating                             | IP54         | IP54         | IP54         | IP54         |
| Motor IP rating                       | IP54         | IP54         | IP54         | IP54         |

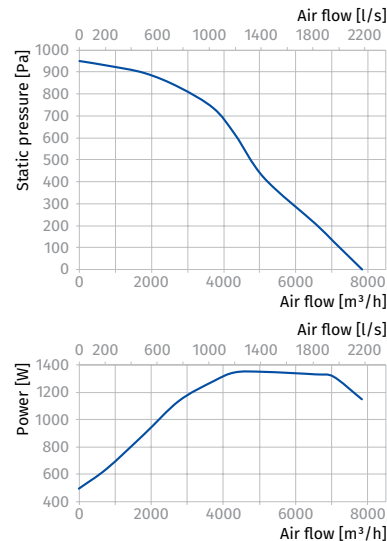
### ISO-K 450 4E

| Sound power level, A-weighted | Total | Octave frequency bands [Hz] |     |     |     |      |      |      |      | LpA 3 m | LpA 1 m |
|-------------------------------|-------|-----------------------------|-----|-----|-----|------|------|------|------|---------|---------|
|                               |       | 63                          | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |         |         |
| LWA to inlet [dBA]            | 90    | 67                          | 83  | 84  | 81  | 82   | 81   | 75   | 70   | 69      | 79      |
| LWA to outlet [dBA]           | 92    | 72                          | 71  | 87  | 86  | 85   | 81   | 75   | 70   | 71      | 81      |
| LWA to environment [dBA]      | 77    | 56                          | 70  | 71  | 72  | 69   | 64   | 61   | 56   | 57      | 67      |



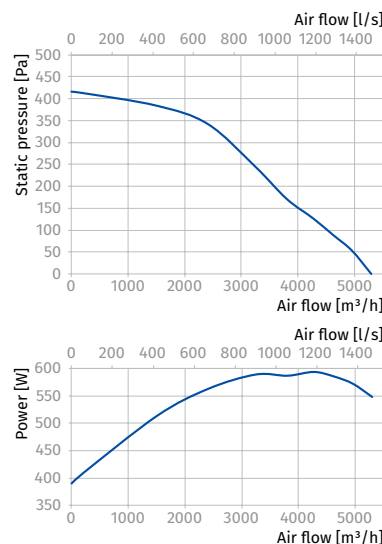
### ISO-K 450 4D

| Sound power level, A-weighted | Total | Octave frequency bands [Hz] |     |     |     |      |      |      |      | LpA 3 m | LpA 1 m |
|-------------------------------|-------|-----------------------------|-----|-----|-----|------|------|------|------|---------|---------|
|                               |       | 63                          | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |         |         |
| LWA to inlet [dBA]            | 89    | 66                          | 83  | 84  | 81  | 82   | 81   | 74   | 69   | 69      | 79      |
| LWA to outlet [dBA]           | 91    | 71                          | 70  | 87  | 86  | 85   | 81   | 74   | 69   | 71      | 81      |
| LWA to environment [dBA]      | 77    | 55                          | 70  | 71  | 72  | 69   | 63   | 60   | 55   | 56      | 66      |



### ISO-K 450 6E

| Sound power level, A-weighted | Total | Octave frequency bands [Hz] |     |     |     |      |      |      |      | LpA 3 m | LpA 1 m |
|-------------------------------|-------|-----------------------------|-----|-----|-----|------|------|------|------|---------|---------|
|                               |       | 63                          | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |         |         |
| LWA to inlet [dBA]            | 81    | 49                          | 61  | 74  | 76  | 73   | 74   | 73   | 68   | 61      | 71      |
| LWA to outlet [dBA]           | 84    | 62                          | 65  | 76  | 78  | 78   | 76   | 72   | 67   | 63      | 73      |
| LWA to environment [dBA]      | 71    | 50                          | 52  | 63  | 65  | 66   | 63   | 58   | 55   | 50      | 60      |



### ISO-K 450 6D

| Sound power level, A-weighted | Total | Octave frequency bands [Hz] |     |     |     |      |      |      |      | LpA 3 m | LpA 1 m |
|-------------------------------|-------|-----------------------------|-----|-----|-----|------|------|------|------|---------|---------|
|                               |       | 63                          | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |         |         |
| LWA to inlet [dBA]            | 80    | 48                          | 60  | 73  | 75  | 71   | 72   | 71   | 67   | 59      | 69      |
| LWA to outlet [dBA]           | 82    | 61                          | 64  | 75  | 76  | 76   | 75   | 70   | 65   | 62      | 72      |
| LWA to environment [dBA]      | 70    | 49                          | 51  | 62  | 64  | 65   | 62   | 57   | 54   | 49      | 59      |

