

SOUND-INSULATED FANS

Series
VENTS KSB K2



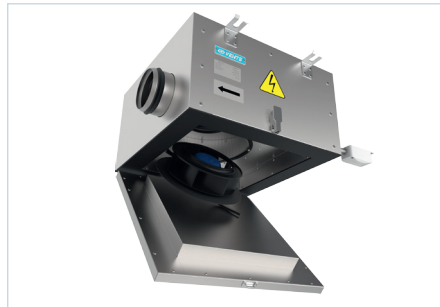
Inline centrifugal fans in heat- and sound-insulated casing with air flow up to **7000 m³/h**

■ Purpose

KSB fan design allows to use them in supply and exhaust ventilation systems in premises with high requirements to the noise level and with limited space for mounting. For example, the unit design includes a possibility of space-restricted installation above suspended ceilings. They are designed for mounting into Ø 100-500 mm air ducts.

■ Design

The fan casing is made of aluzinc. For easy installation and operation, the top cover of the fan is secured with a special lock. Heat- and sound insulation is made of non-combustible 50 mm mineral wool layer. To ensure better noise absorption, the inner surface of the insulation is made of a perforated metal sheet. The round connecting spigots are rubber sealed.



■ Motor

The fans are equipped with asynchronous motors with an external rotor and centrifugal impellers with backward curved blades.

The motors are equipped with an integrated overheating protection with automatic restart.

The use of ball bearings with specially selected lubricating oil guarantees low noise and makes the fan completely maintenance-free.

■ Speed control

Smooth or step speed control by means of a thyristor or autotransformer speed controller.

Several fans can be connected to one controller, provided that the total power and operating current do not exceed the nominal parameters of the controller.

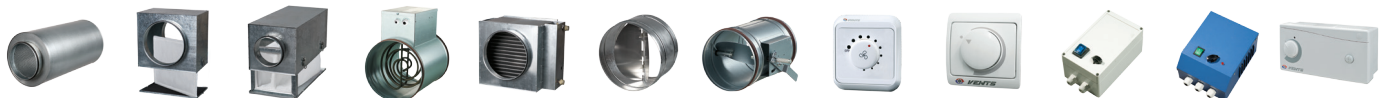
■ Mounting

The round inline fans are designed for connection to round air ducts. The fans are installed at an air duct junction. The use of flexible connectors requires fixation of the fan on the building structure by means of supports, mounts or fixing brackets. The fan can be fixed in any position with respect to the air flow direction indicated by the arrow on the fan casing. While mounting the fan provide enough access for servicing and repair operations.

Designation key

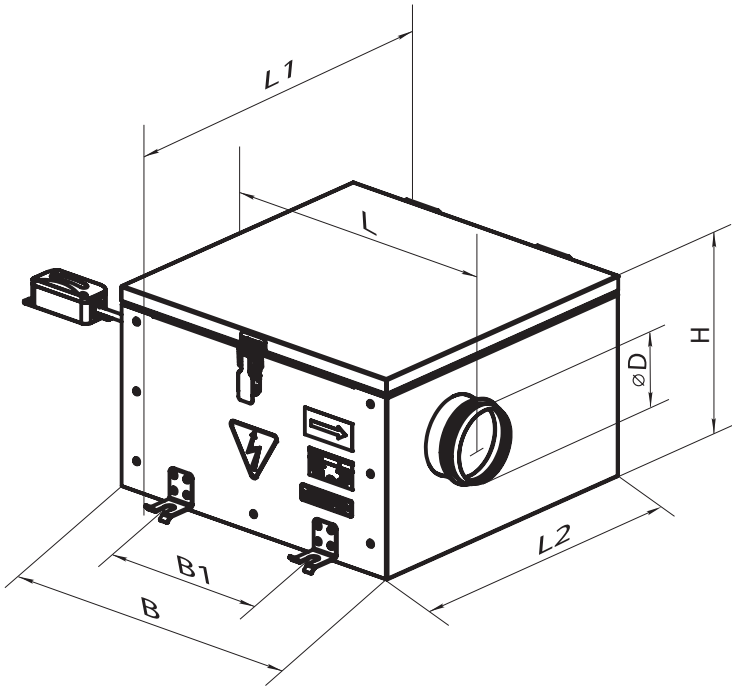
| Series | Spigot diameter | Modification | Motor | Options |
|------------------|---|---|--|---|
| VENTS KSB | 100, 125, 150, 160, 200, 250, 315, 355, 400, 450, 500 | K2: heat- and sound-insulated casing | S: high-powered motor Q: low noise modification | R: power cable with IEC C14 plug |

Accessories



Overall dimensions

| Model | Dimensions [mm] | | | | | | | Weight [kg] |
|--------------|-----------------|------|-------|-----|------|------|------|-------------|
| | ∅D | B | B1 | H | L | L1 | L2 | |
| KSB 100 K2 | 99 | 420 | 228 | 258 | 517 | 507 | 414 | 13 |
| KSB 125 K2 | 124 | 420 | 228 | 258 | 517 | 507 | 414 | 13 |
| KSB 125 K2 S | 124 | 533 | 333 | 280 | 630 | 617 | 525 | 19 |
| KSB 150 K2 | 149 | 470 | 278 | 282 | 566 | 586 | 493 | 17 |
| KSB 160 K2 | 159 | 470 | 278 | 282 | 566 | 586 | 493 | 17 |
| KSB 200 K2 | 198 | 535 | 357,5 | 355 | 632 | 628 | 535 | 22.6 |
| KSB 250 K2 | 248 | 677 | 537 | 429 | 774 | 759 | 666 | 33 |
| KSB 315 K2 S | 313 | 760 | 560 | 460 | 857 | 747 | 666 | 48 |
| KSB 355 K2 | 354 | 830 | 641 | 500 | 927 | 885 | 804 | 58 |
| KSB 400 K2 | 399 | 927 | 737 | 578 | 1024 | 957 | 876 | 78.5 |
| KSB 450 K2 | 449 | 1049 | 858 | 607 | 1152 | 1049 | 968 | 84 |
| KSB 500 K2 | 499 | 1203 | 993 | 724 | 1300 | 1263 | 1182 | 123 |

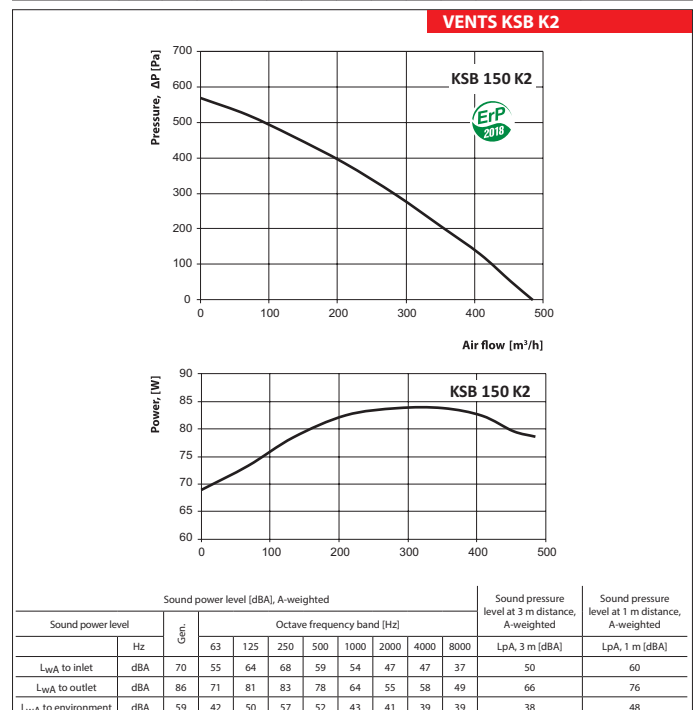
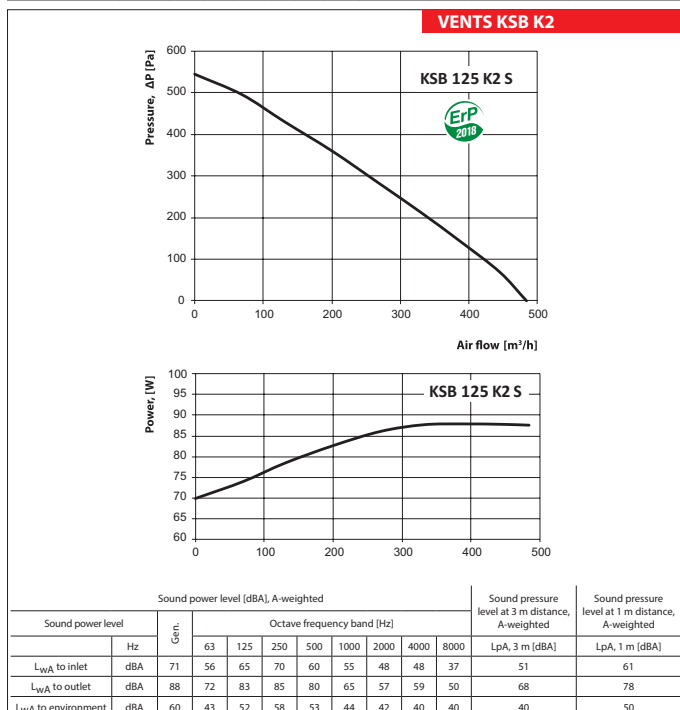
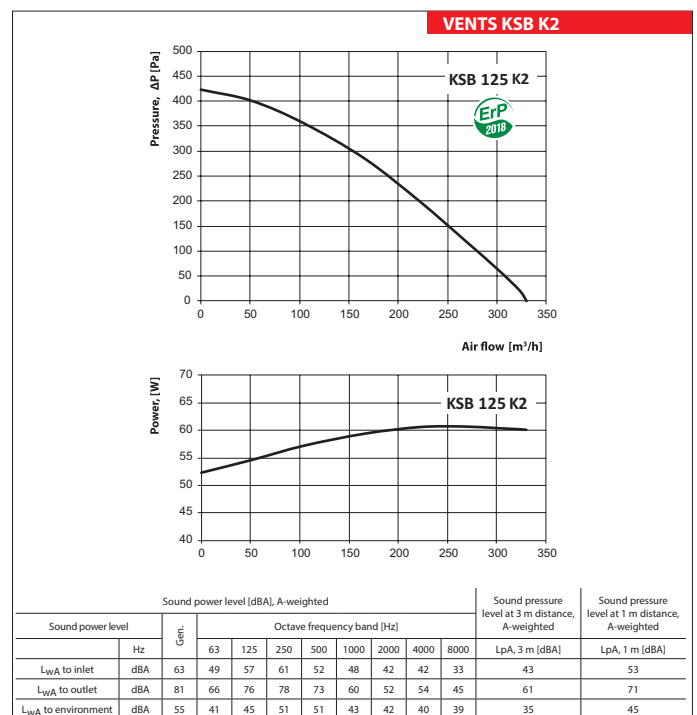
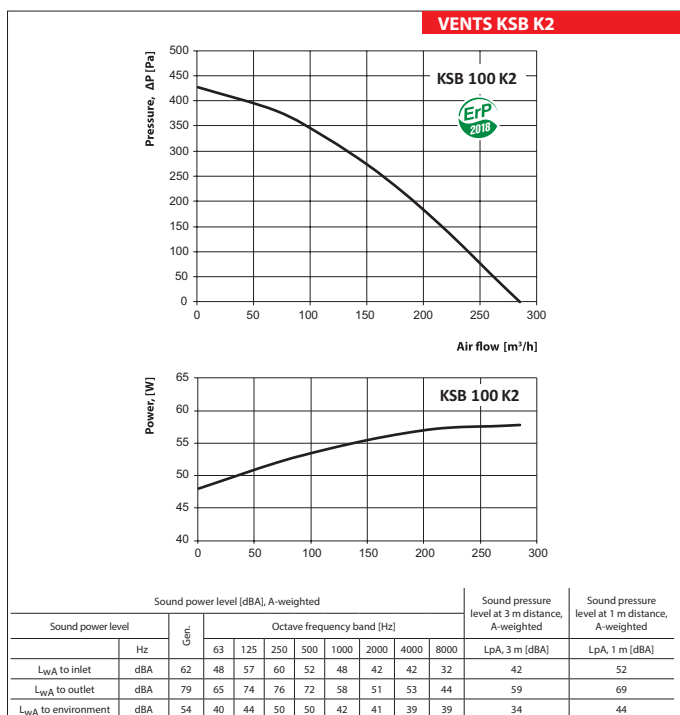


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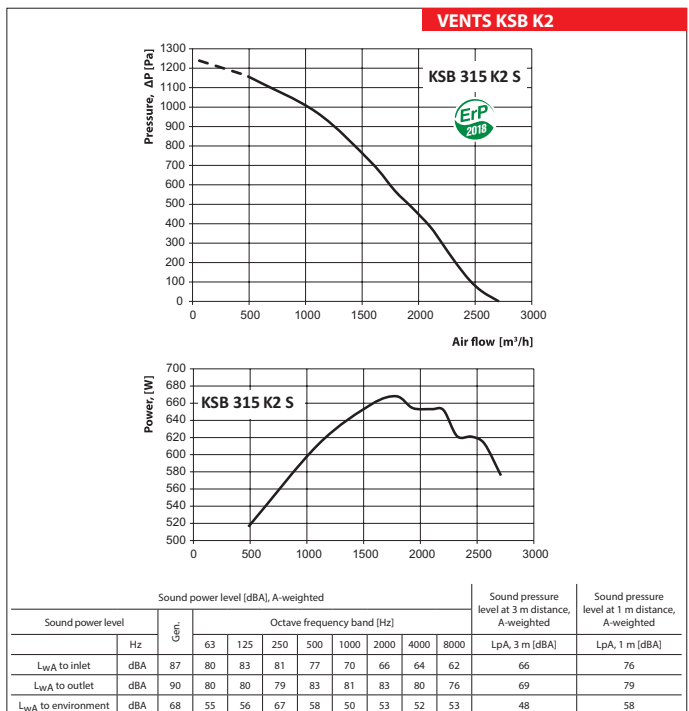
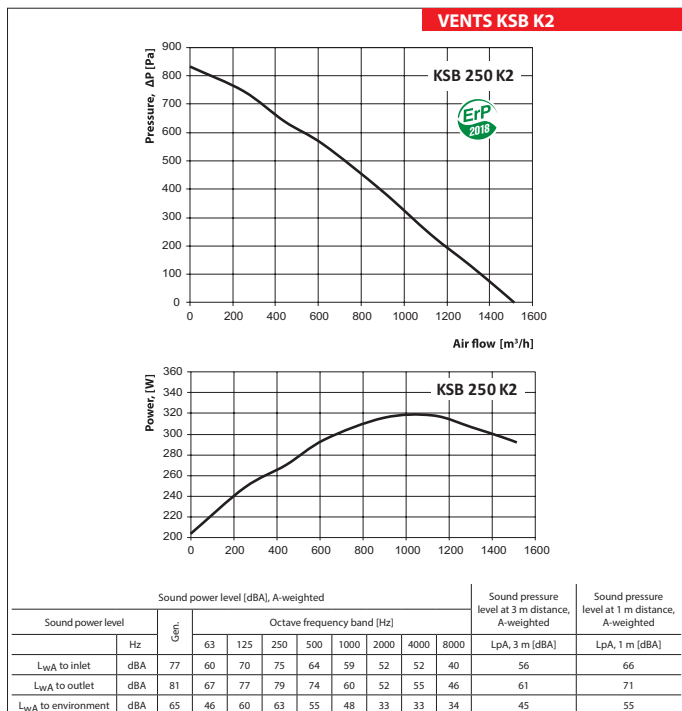
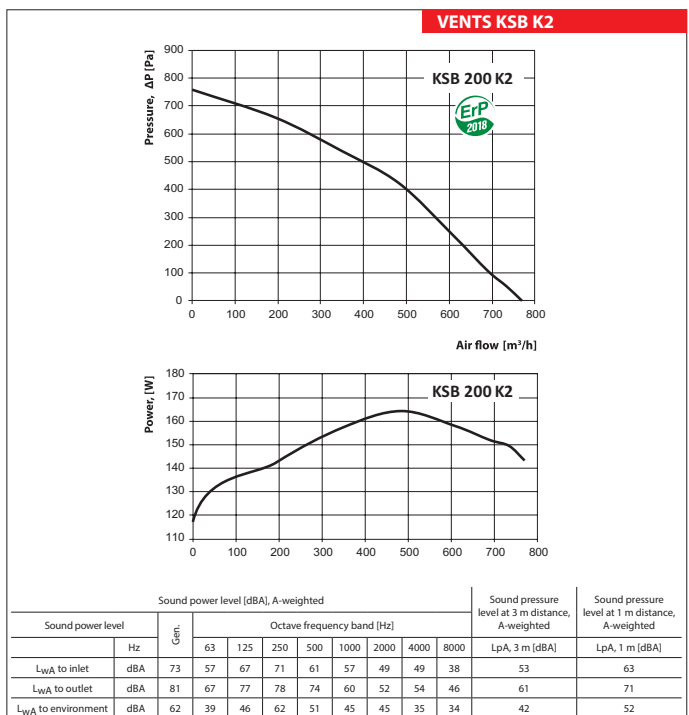
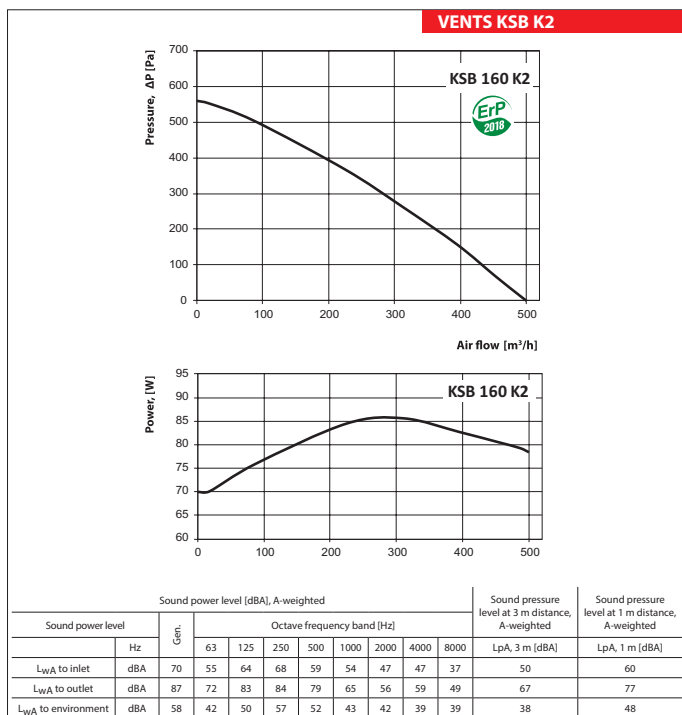
Technical data

| | KSB 100 K2 | KSB 125 K2 | KSB 125 K2 C | KSB 150 K2 |
|--|---------------|---------------|---------------|---------------|
| Unit voltage [V/50 Hz] | 1~ 230 | 1~ 230 | 1~ 230 | 1~ 230 |
| Power [W] | 58 | 61 | 88 | 84 |
| Current [A] | 0.25 | 0.28 | 0.37 | 0.37 |
| Maximum air flow [m ³ /h] | 285 | 330 | 484 | 485 |
| RPM [min ⁻¹] | 2530 | 2560 | 2670 | 2620 |
| Sound pressure level at 3 m distance [dBA] | 34 | 35 | 40 | 38 |
| Transported air temperature [°C] | -25 up to +55 | -25 up to +55 | -25 up to +55 | -25 up to +55 |
| Ingress protection rating | IPX4 | IPX4 | IPX4 | IPX4 |
| SEC class | C | C | C | C |



Technical data

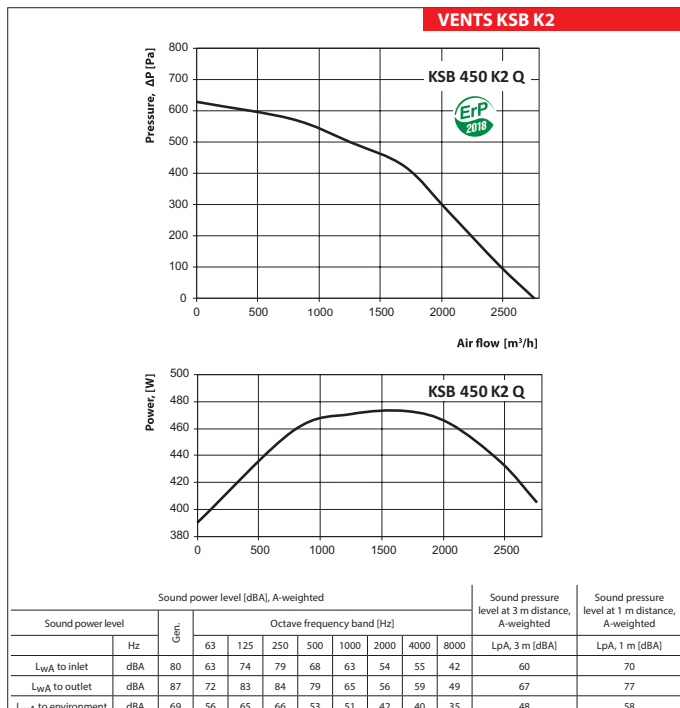
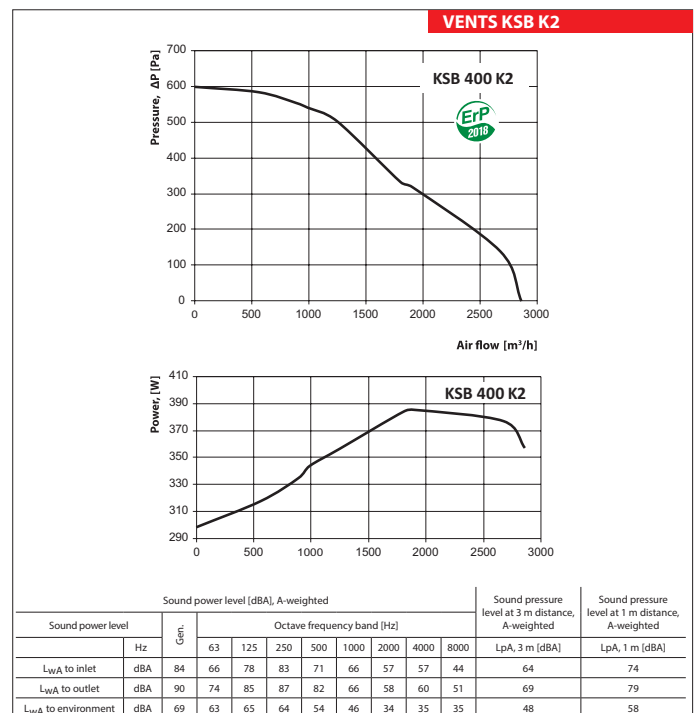
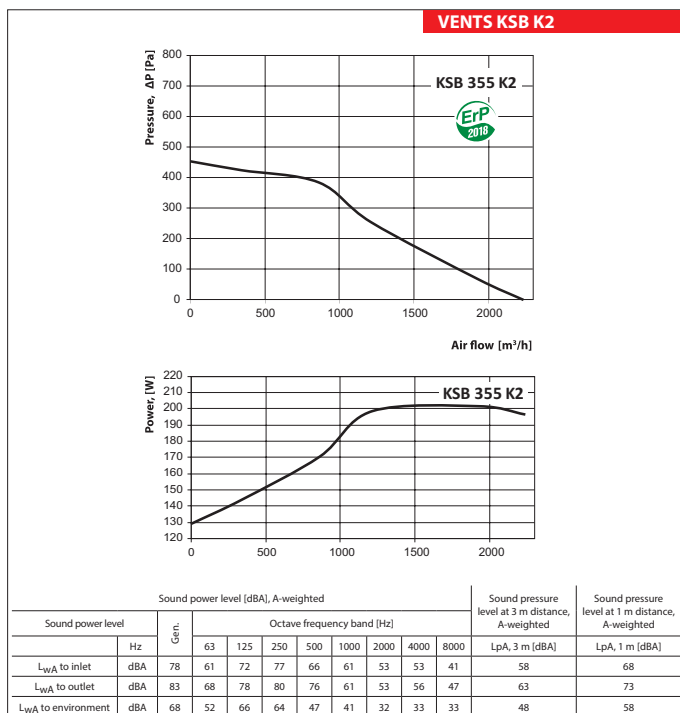
| | KSB 160 K2 | KSB 200 K2 | KSB 250 K2 | KSB 315 K2 S |
|--|-------------------|-------------------|-------------------|---------------------|
| Unit voltage [V/50 Hz] | 1~230 | 1~230 | 1~230 | 3~380 |
| Power [W] | 86 | 164 | 320 | 654 |
| Current [A] | 0.38 | 0.71 | 1.40 | 1.10 |
| Maximum air flow [m ³ /h] | 500 | 770 | 1515 | 2700 |
| RPM [min ⁻¹] | 2670 | 2580 | 2615 | 2600 |
| Sound pressure level at 3 m distance [dBA] | 38 | 42 | 45 | 48 |
| Transported air temperature [°C] | -25 up to +55 | -25 up to +55 | -25 up to +55 | -25 up to +55 |
| Ingress protection rating | IPX4 | IPX4 | IPX4 | IPX4 |
| SEC class | C | C | - | - |



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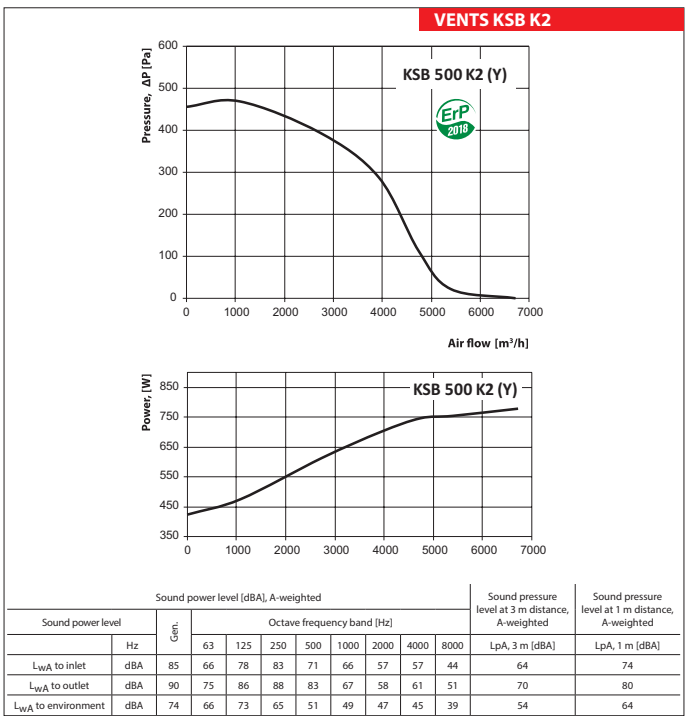
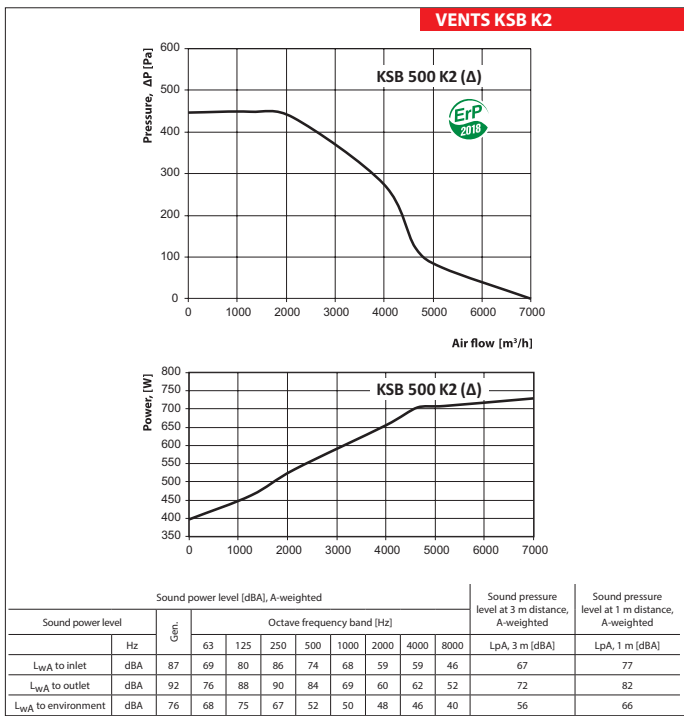
Technical data

| | KSB 355 K2 | KSB 400 K2 | KSB 450 K2 Q |
|--|---------------|---------------|---------------|
| Unit voltage [V/50 Hz] | 1~ 230 | 1~ 230 | 1~ 230 |
| Power [W] | 202 | 349 | 473 |
| Current [A] | 0.89 | 2.00 | 2.35 |
| Maximum air flow [m ³ /h] | 2235 | 2860 | 2760 |
| RPM [min ⁻¹] | 1330 | 1380 | 1350 |
| Sound pressure level at 3 m distance [dBA] | 48 | 48 | 48 |
| Transported air temperature [°C] | -25 up to +55 | -25 up to +55 | -25 up to +55 |
| Ingress protection rating | IPX4 | IPX4 | IPX4 |
| SEC class | - | - | - |



Technical data

| | KSB 500 K2 (Δ) | KSB 500 K2 (Υ) |
|--|----------------|----------------|
| Unit voltage [V/50 Hz] | 1 ~ 230 | 3 ~ 380 |
| Power [W] | 730 | 780 |
| Current [A] | 2.82 | 1.60 |
| Maximum air flow [m ³ /h] | 7000 | 6720 |
| RPM [min ⁻¹] | 980 | 948 |
| Sound pressure level at 3 m distance [dBA] | 56 | 54 |
| Transported air temperature [°C] | -25 up to +55 | -25 up to +55 |
| Ingress protection rating | IPX4 | IPX4 |
| SEC class | - | - |



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