VBX SERIES

Acoustic box fans

VBX

ACOUSTICALLY INSULATED CASING

CIRCULAR DUCT CONNECTIONS



100-560	13	50 Hz
Model size range	Electrical variants	Single / three phase

01 / PRODUCT OVERVIEW

Airflow with acoustic insulation.



01 Insulated box construction

A galvanized sheet-metal casing incorporates 4 mm XPE acoustic insulation and circular connections for ducted ventilation.

02 Centrifugal airflow

The centrifugal impeller is made from galvanized steel or aluminium. Twelve model sizes cover thirteen electrical variants.

03 Access for maintenance

An inspection hatch provides access for cleaning and servicing. Allow clearance around the cabinet and its duct connections.

SELECTION & PERFORMANCE

Match the fan to the duty point.

Use the individual pressure curves to select the operating point. Catalogue nominal airflow and the plotted zero-pressure endpoint are different values; both are retained in the technical table. The 500 size has two supply variants sharing one curve.

Selection parameter	Catalogue basis
Nominal airflow range	290-9300 m^3/h
Reference input power	80-1460 W / at 0 Pa
Electrical supply	230 V / 1 phase or 380 V / 3 phase
Insulation / protection / duty	Class F / IP44 / S1
Operating temperature	-20 to +50 °C

Catalogue data. Model-specific supply and ratings are listed on the next page.

02 / TECHNICAL DATA

Compare the range.

13 ELECTRICAL VARIANTS / 50 Hz

Model	Supply V / phase	Reference power / W	Nominal airflow m^3/h	Curve endpoint m^3/h	Reference speed / rpm
VBX 100	230 / 1	80	290	341	2600
VBX 125	230 / 1	80	410	486	2600
VBX 150	230 / 1	85	700	848	2600
VBX 160	230 / 1	85	710	848	2600
VBX 200	230 / 1	122	1000	1197	2675
VBX 250	230 / 1	145	1120	1361	2685
VBX 315	230 / 1	210	1750	2054	2615
VBX 355	230 / 1	380	2200	2871	2480
VBX 400	230 / 1	380	3400	4179	1362
VBX 450	230 / 1	690	4900	5836	1367
VBX 500	230 / 1	830	7000	8475	1364
VBX 500	380 / 3	830	7000	8475	1364
VBX 560	380 / 3	1460	9300	11459	1369

Power and speed are catalogue references at 0 Pa. Actual electrical input depends on the operating point. Nominal airflow follows the listed table; curve endpoint is the plotted zero-pressure airflow, rounded to the nearest m^3/h. These values must not be treated as the same rating.

COMMON MOTOR DATA

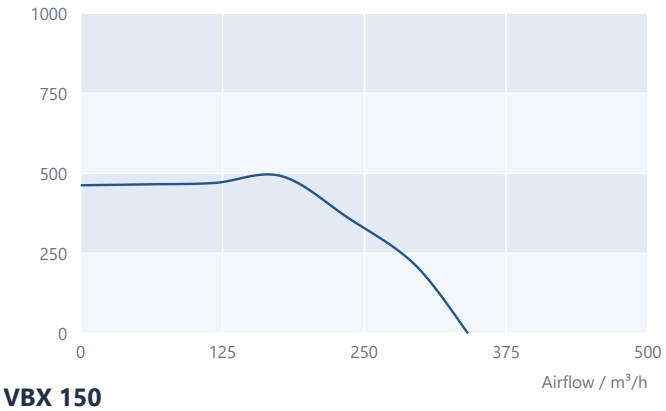
Class F / IP44 / S1 / -20 to +50 °C. Motor current, efficiency class and weight were not supplied. Use the actual unit nameplate for electrical selection.

03 / AIR PERFORMANCE / 01

Fan Performance Curves

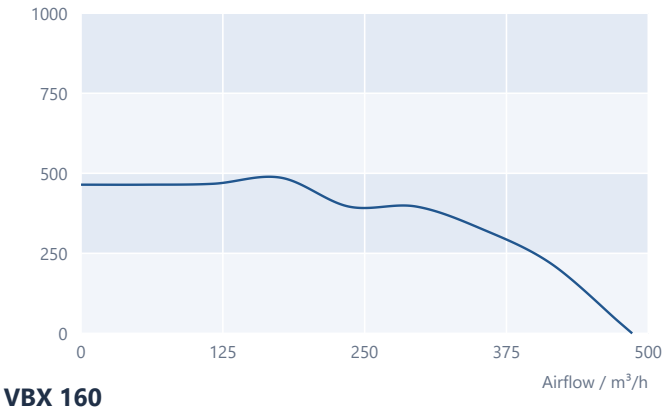
VBX 100

230 V / 1 phase / 50 Hz



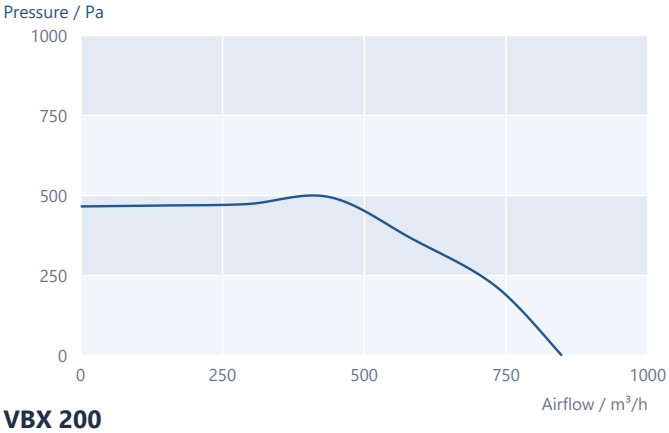
VBX 125

230 V / 1 phase / 50 Hz



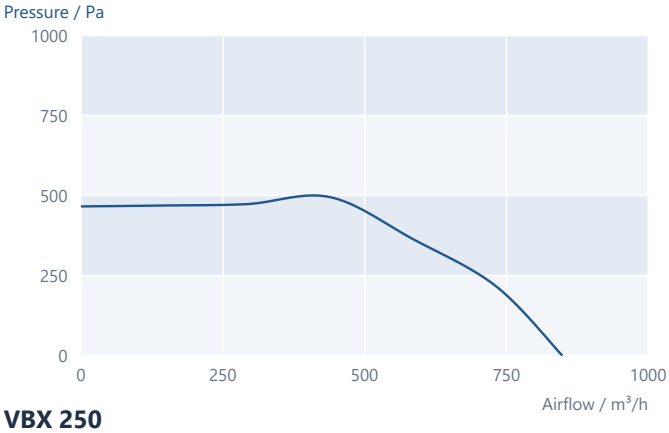
VBX 150

230 V / 1 phase / 50 Hz



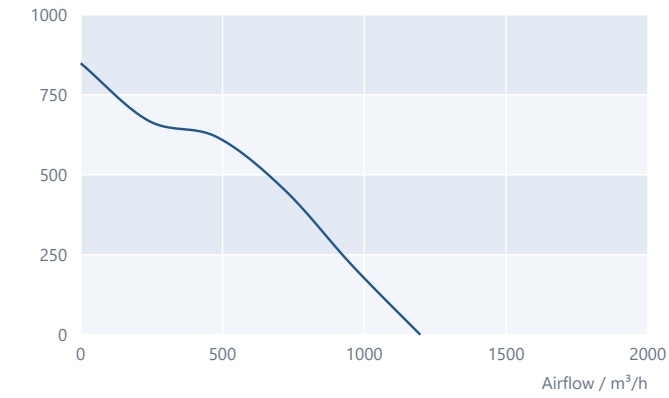
VBX 160

230 V / 1 phase / 50 Hz



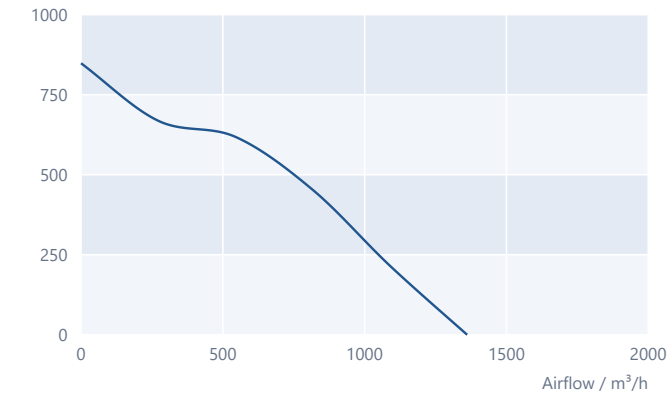
VBX 200

230 V / 1 phase / 50 Hz



VBX 250

230 V / 1 phase / 50 Hz



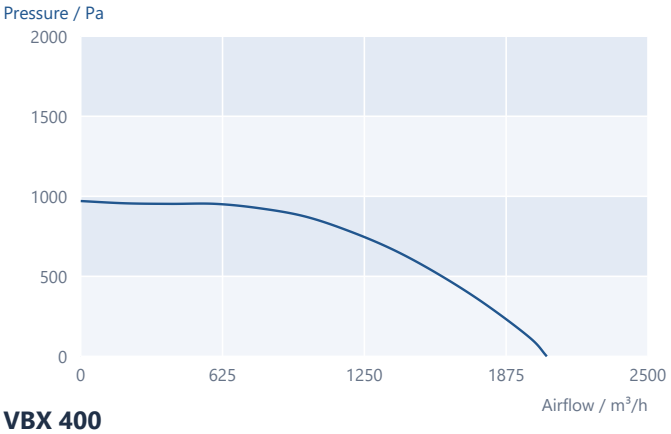
Model-specific scales. Listed pressure curves; no extrapolation. The data specify Pa but do not classify static or total pressure. VBX 500 supply variants share the same curve.

03 / AIR PERFORMANCE / 02

Fan Performance Curves

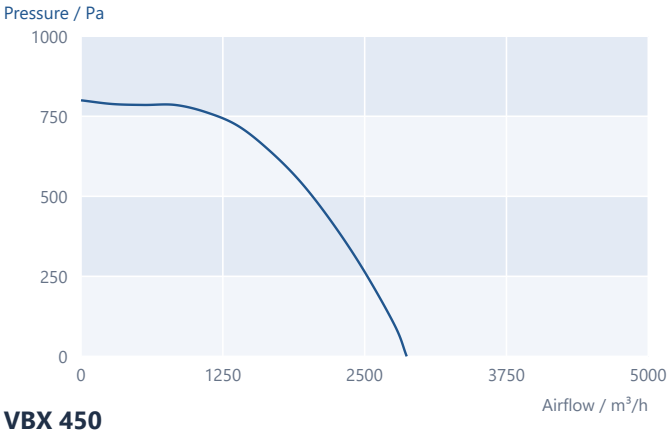
VBX 315

230 V / 1 phase / 50 Hz



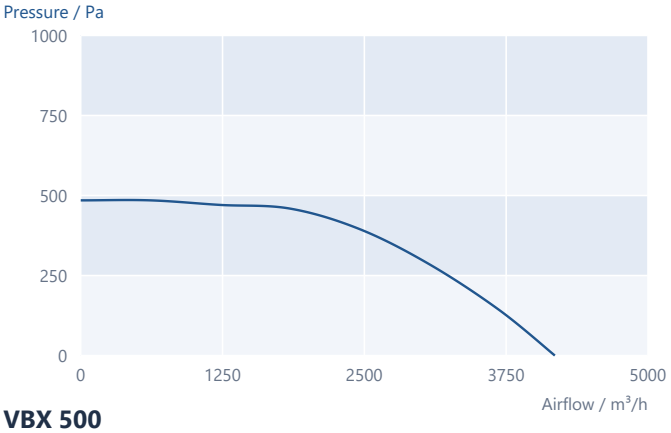
VBX 355

230 V / 1 phase / 50 Hz



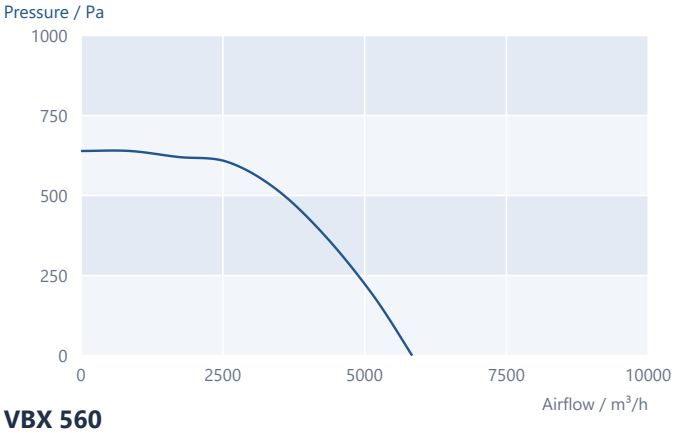
VBX 400

230 V / 1 phase / 50 Hz



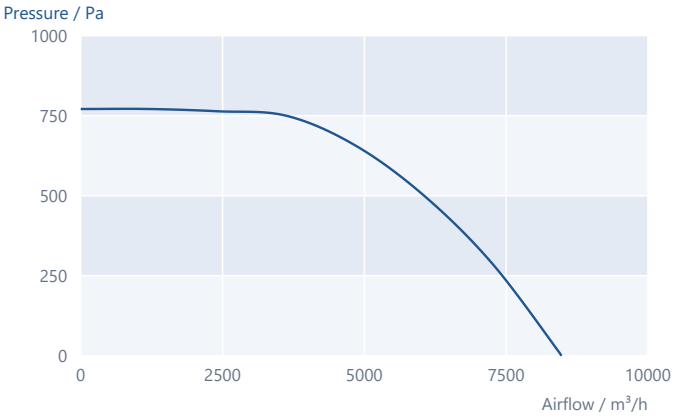
VBX 450

230 V / 1 phase / 50 Hz



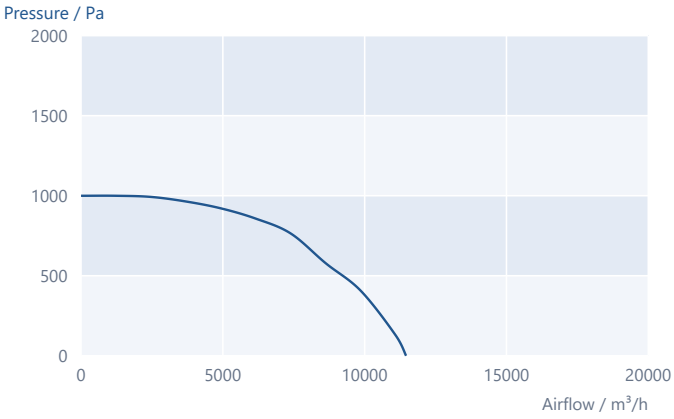
VBX 500

230 / 380 V shared curve / 50 Hz



VBX 560

380 V / 3 phase / 50 Hz



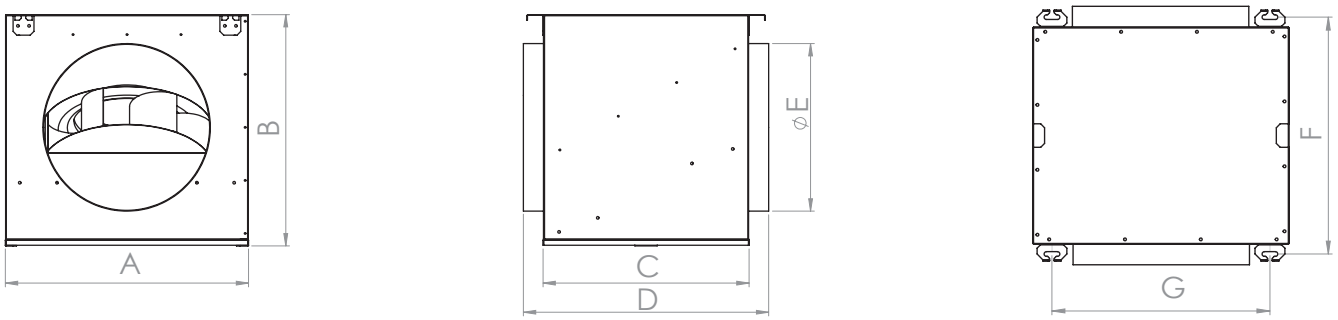
Model-specific scales. Listed pressure curves; no extrapolation. The data specify Pa but do not classify static or total pressure. VBX 500 supply variants share the same curve.

04 / DIMENSIONAL DATA

Plan the duct connections.

ORIGINAL SERIES DRAWING / A-G

All dimensions in mm



Model size	A	B	C	D	E	F	G
VBX 100	342	342	304	410	100	354	246
VBX 125	342	342	304	410	125	354	246
VBX 150	342	361	304	410	150	354	246
VBX 160	342	381	304	410	160	354	246
VBX 200	392	381	354	460	225	404	296
VBX 250	472	422	354	460	250	404	382
VBX 315	502	446	404	510	315	454	406
VBX 355	572	522	454	560	355	504	477
VBX 400	602	622	554	660	400	604	506
VBX 450	652	622	554	660	450	604	556
VBX 500	702	672	604	710	500	606	654
VBX 560	752	802	604	710	560	604	656

Original vector drawing. Electrical variants at the same model size share the cabinet dimensions. E is the duct connection diameter; VBX 200 retains the listed E = 225 mm. Confirm mating connections before installation.

05 / INSTALLATION & MOTOR

Prepare the installation.

01 Cabinet and duct connections

Check the A-G dimensions and the E connection diameter. Support the cabinet securely, connect the circular ducts and provide space to open the inspection hatch.

02 Electrical configuration

Sizes 100-450 use 230 V single-phase supply. Size 500 is offered in 230 V single-phase and 380 V three-phase variants; size 560 uses 380 V three-phase supply. All are 50 Hz.

03 Motor and connection data

Class F insulation, IP44 protection and continuous duty S1 are specified. Supplied single-phase and three-phase diagrams are on the next page; use the diagram and nameplate supplied with the actual unit.

04 Inspection and maintenance

Isolate the electrical supply before servicing. Keep the impeller and duct connections clean, inspect the acoustic lining and check cabinet fixings regularly.

CATALOGUE SOUND LEVELS / dB(A) AT 0 Pa

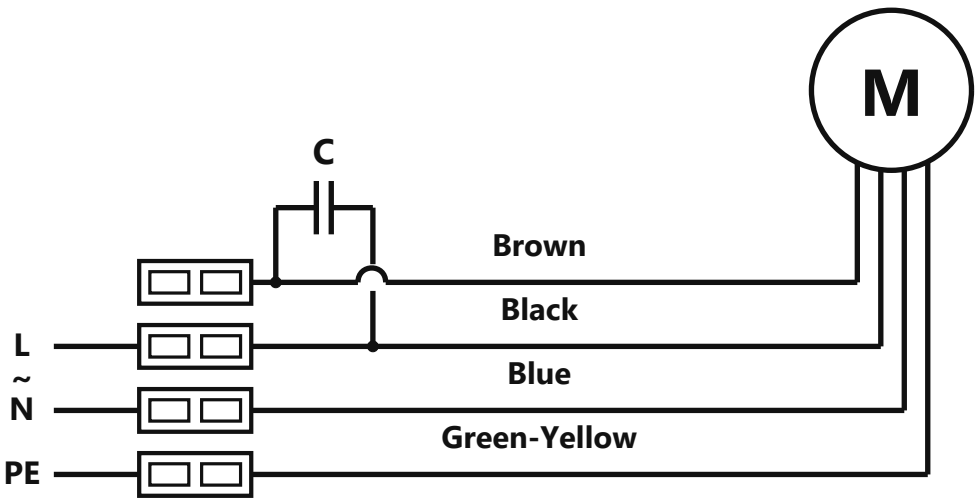
100: 44 / 125: 46 / 150: 50 / 160: 52 / 200: 55 / 250: 62 / 315: 63 / 355: 68 / 400: 70 / 450: 74 / 500: 77 / 560: 79. The data do not identify sound power or sound pressure, measurement distance or octave-band spectra.

06 / ELECTRICAL CONNECTION

Match the supply variant.

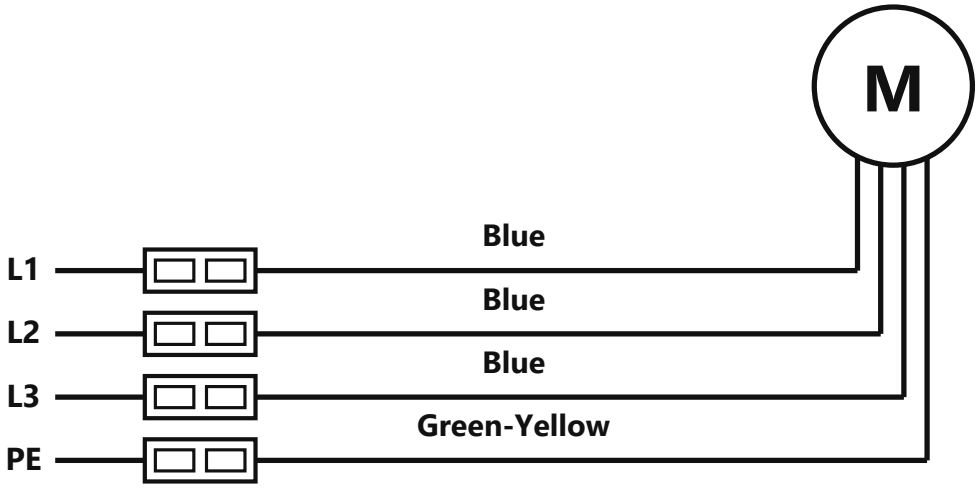
230 V / SINGLE PHASE - VBX 100-450 AND 500 / 230 V

VBX / Single-phase



380 V / THREE PHASE - VBX 500 / 380 V AND 560

VBX / Three-phase



L / N: line / neutral. L1 / L2 / L3: phases. PE: protective earth. C: capacitor. M: motor. All three phase conductors are labelled Blue in the supplied three-phase diagram; the labels are preserved.

VBX

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