VAF-W SERIES

Square plate wall mounted axial fans

VAF-W

DIRECT-DRIVE AXIAL IMPELLER

SQUARE WALL-MOUNTING PLATE



250-600	09	50 Hz
Fan diameter / mm	Models in the range	Single-phase AC

01 / PRODUCT OVERVIEW

Ventilation in a compact form.



01 Direct axial airflow

A single-phase AC motor directly drives the axial impeller. Eight diameters cover the series. The 250-2P model is two pole; all unsuffixed models are four pole.

02 Square plate and guard

The casing and impeller use powder-coated sheet metal. Steel supports secure the assembly to the square mounting plate.

03 Supply, extract and circulation

For general ventilation in factories, warehouses and commercial spaces. Mount in walls or panels and keep airflow paths clear.

SELECTION & PERFORMANCE

Select by diameter and motor variant.

Nine 50 Hz models combine eight diameters with single-phase motors. The 250-2P model provides a separate two-pole option. Pressure curves show listed performance data and remain within their supplied airflow domains. Observe the selected motor voltage, capacitor and transported-air temperature limit.

Selection parameter	Catalogue basis
Fan diameter range	250-600 mm / 8 diameters
Nominal input power	125-390 W
Electrical supply	230 V / 1 phase / 50 Hz
Motor insulation / protection	Class B / IP44

Performance data. Speed control must suit the selected motor.

02 / TECHNICAL DATA

Compare the motor variants.

9 MODELS / 50 Hz

Model	Poles	V / PH	Input W	Airflow m^3/h	Speed rpm	Current A	Weight kg	Air temp. °C
VAF-W 250-2P	2	230/1	150	2200	2900	1	8	40
VAF-W 250	4	230/1	125	1200	1450	0.6	7	40
VAF-W 300	4	230/1	165	2000	1450	0.79	8	40
VAF-W 350	4	230/1	210	3250	1450	0.92	9	40
VAF-W 400	4	230/1	220	4500	1450	0.97	11	40
VAF-W 450	4	230/1	300	5000	1450	1.32	12.5	40
VAF-W 500	4	230/1	320	5500	1435	1.4	14.5	40
VAF-W 550	4	230/1	375	6000	1425	1.65	16.7	40
VAF-W 600	4	230/1	390	8000	1425	1.71	19.5	40

Airflow: nominal maximum airflow in m^3/h; not a selected duty point. Listed curve domains may differ from nominal airflow. Nominal input power, speed and current are ratings; operating values vary with airflow.

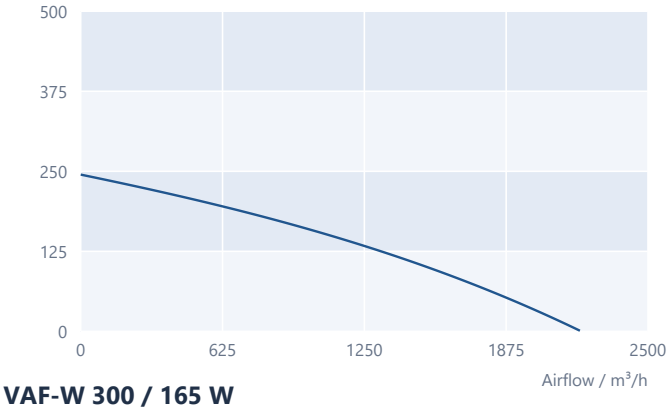
Temperature: maximum transported-air temperature for each variant. Class B / IP44 throughout the supplied records. 250-2P: two poles; unsuffixed models: four poles. All models use single-phase supply.

03 / AIR PERFORMANCE / 01

Fan Performance Curves

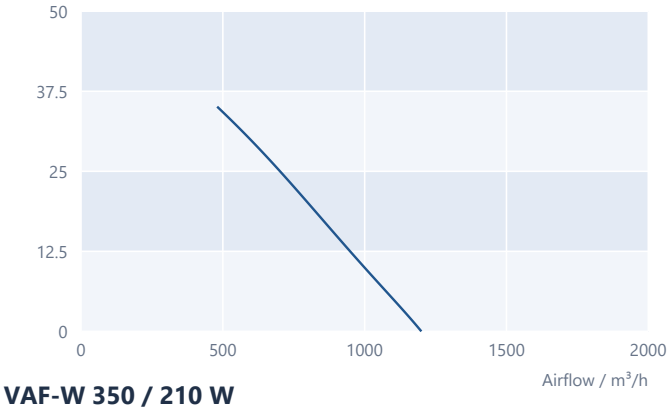
VAF-W 250-2P / 150 W

1 phase / 50 Hz / reference 2900 rpm



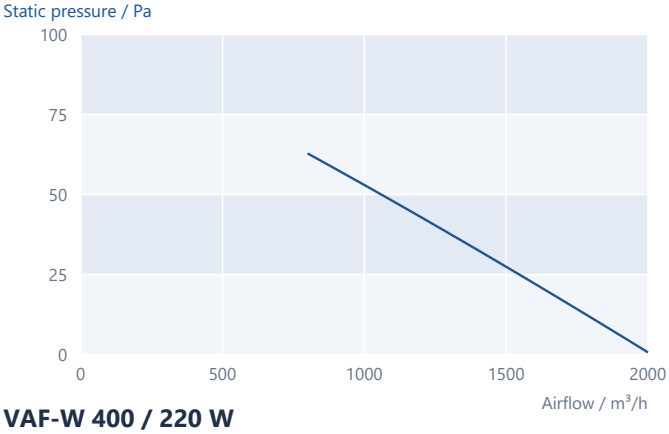
VAF-W 250 / 125 W

1 phase / 50 Hz / reference 1450 rpm



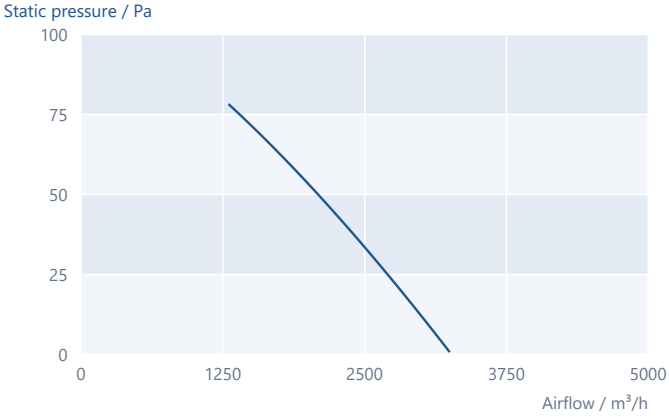
VAF-W 300 / 165 W

1 phase / 50 Hz / reference 1450 rpm



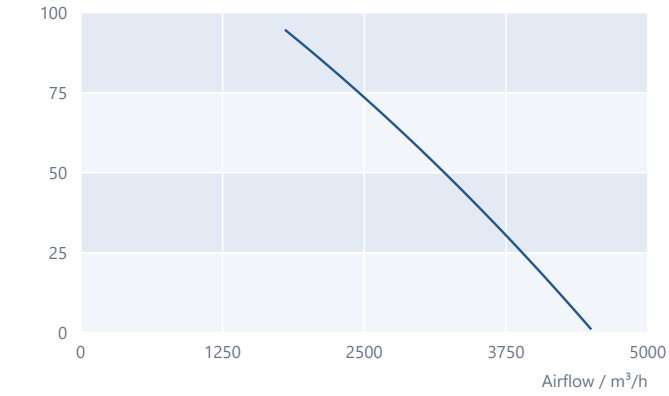
VAF-W 350 / 210 W

1 phase / 50 Hz / reference 1450 rpm



VAF-W 400 / 220 W

1 phase / 50 Hz / reference 1450 rpm



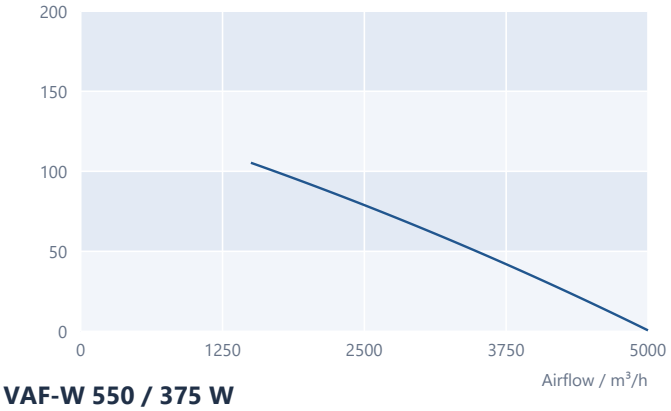
Model-specific scales. Listed 50 Hz pressure curves stay within listed airflow domains; negative-pressure tails are omitted at the zero-pressure crossing. No extrapolation.

03 / AIR PERFORMANCE / 02

Fan Performance Curves

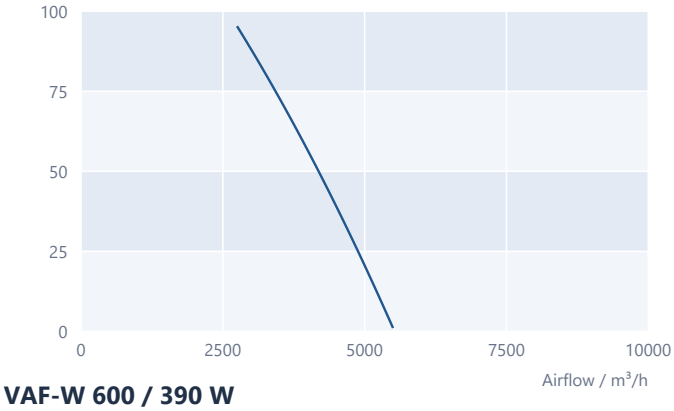
VAF-W 450 / 300 W

1 phase / 50 Hz / reference 1450 rpm



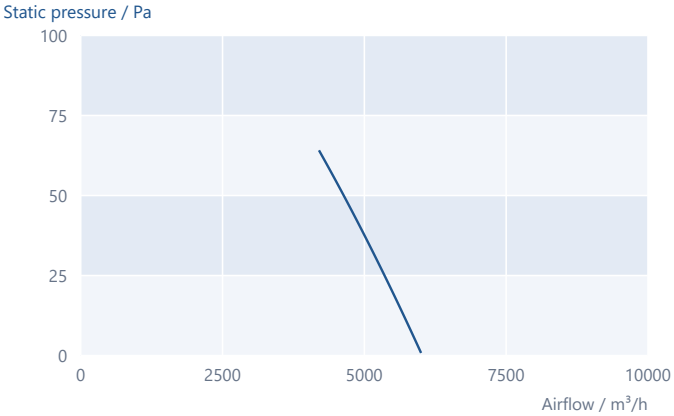
VAF-W 500 / 320 W

1 phase / 50 Hz / reference 1435 rpm



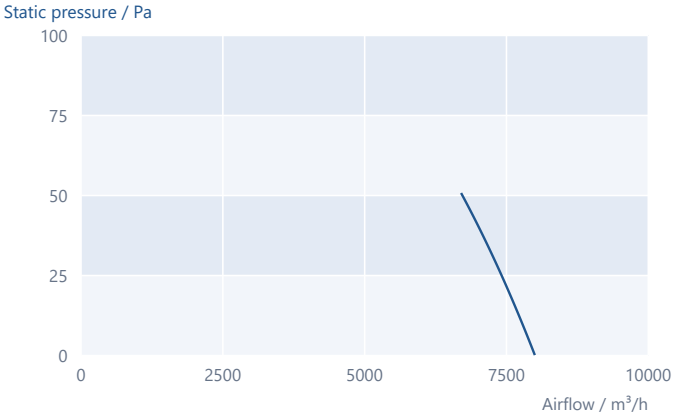
VAF-W 550 / 375 W

1 phase / 50 Hz / reference 1425 rpm



VAF-W 600 / 390 W

1 phase / 50 Hz / reference 1425 rpm



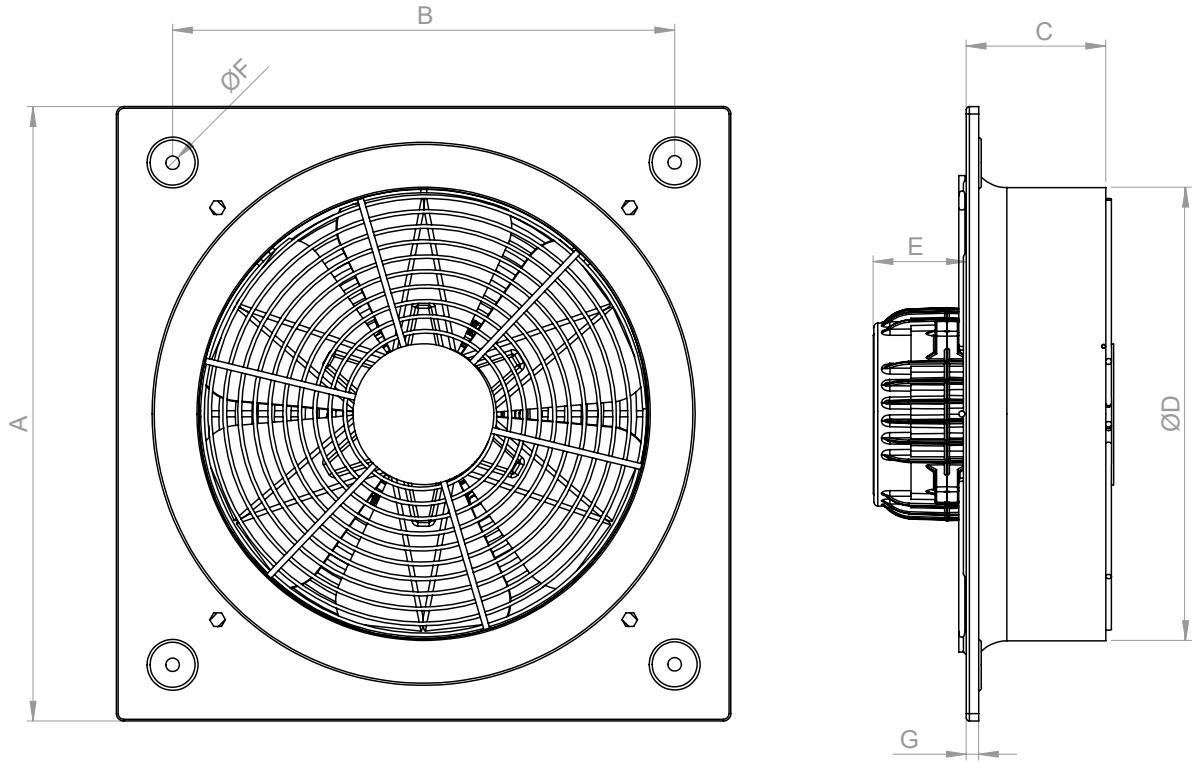
Model-specific scales. Listed 50 Hz pressure curves stay within listed airflow domains; negative-pressure tails are omitted at the zero-pressure crossing. No extrapolation.

04 / DIMENSIONAL DATA

Plan the mounting points.

SERIES DRAWING / 250-600

All dimensions in mm



Model size	A	B	C	D	E	F	G
VAF-W 250	333	275	80	261	80	8	10
VAF-W 300	412	336	80	307	80	8	10
VAF-W 350	465	390	90	365	80	8	10
VAF-W 400	500	420	100	403	80	8	10
VAF-W 450	560	480	105	462	80	8	10
VAF-W 500	630	561	110	513	90	8	10
VAF-W 550	660	585	145	565	135	8	10
VAF-W 600	700	631	145	612	135	8	10

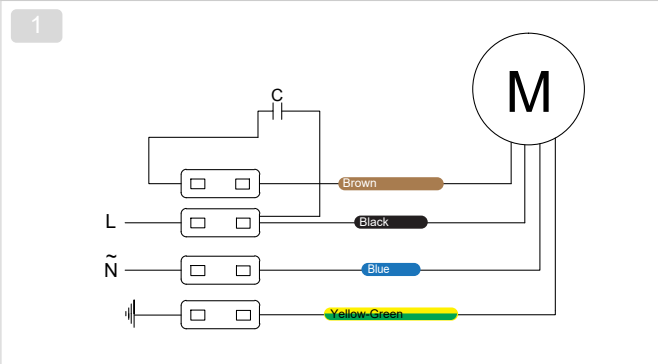
Original data drawing. The 250 and 250-2P share the listed dimensions; other rows are model specific. Secure the square plate at the specified wall-mounting points and keep the protective guard clear.

05 / ELECTRICAL & INSTALLATION

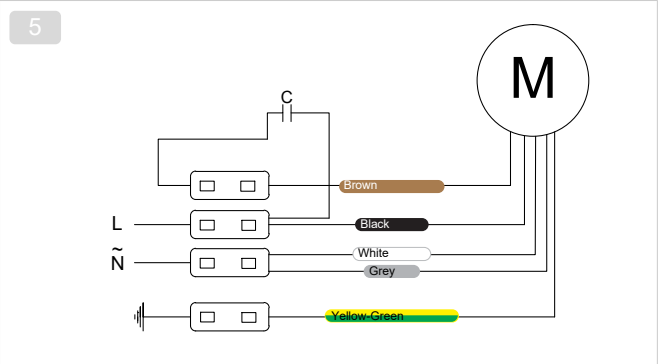
Connect the single-phase motor.

Isolate the supply before installation or maintenance. Secure the mounting points and confirm the intended airflow direction. Use the specified capacitor and a compatible voltage controller. Keep the fan casing and protective guard clear.

SINGLE PHASE / DIAGRAM 01



SINGLE PHASE / DIAGRAM 05



Model	Input power	Capacitor	Capacitor voltage
VAF-W 250-2P	150 W	8 µF	400 V
VAF-W 250	125 W	3 µF	400 V
VAF-W 300	165 W	3 µF	400 V
VAF-W 350	210 W	3 µF	400 V
VAF-W 400	220 W	6 µF	400 V
VAF-W 450	300 W	6 µF	400 V
VAF-W 500	320 W	6 µF	400 V
VAF-W 550	375 W	6 µF	400 V
VAF-W 600	390 W	6 µF	400 V

Schema 01: unsuffixed 250-450 models. Schema 05: 250-2P and 500-600 models. Supply:1~230V/50Hz. Follow the actual motor nameplate and supplied unit diagram.

VAF-W

Square plate
wall mounted axial fans



info@voltvent.com | voltvent.com