

Silent box fan unit AMF-500/1

Version: 4-pol; 50 Hz; 90°-180°airflow

**Silent box fan unit AMF-500/1**

Variable direction discharge, backward curved centrifugal fan.

High efficiency IE2 external rotors motor and IE3 for induction rotor motors. Highest quality Electric motors with thermal protection will guarantee the long life and trouble free operation due to its construction and air cool system.

Free running High density HD backward curved Impeller is made of aluminium and dynamically balanced according to ISO10816 two plane CLASS 1.

The double skin Acoustic panels with 25 mm flame-retardant mineral wool noise and temperature insulated will help to reduce the noise level, they are easily removable which make it easy to install in any direction as well as easy to clean and maintain.

Aluminium frame and corners are highly shock-resistant.

Speed controllable 0 to 100% only by High efficiency variable frequency drive, pre-programmed and fully protecting the fan against any sort of harm.

Low sound level due to the 25mm thick acoustic panels, to absorb the noise to the highest level.

Casing and all corners are made of corrosion resistance aluminium for longer life.

Silent box fans can be used as extract and supply unit.

Technical Data

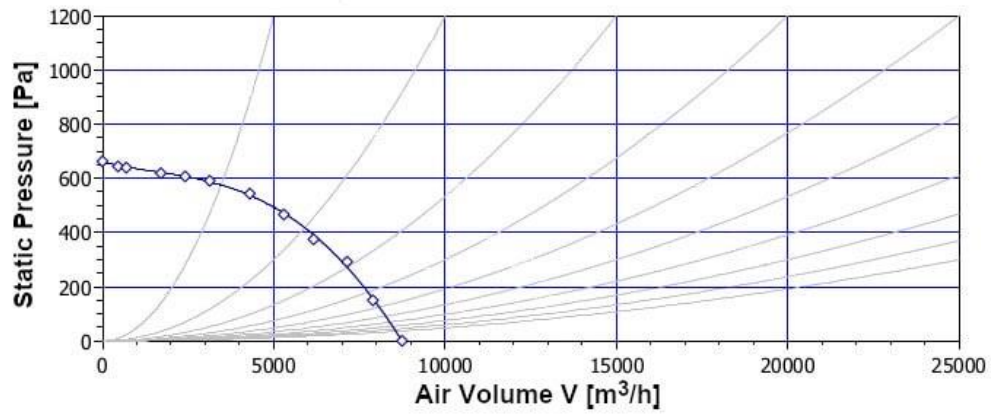
Voltage	230 V
Frequency	50 Hz
Phase(s)	3~
Input power	1450 W
Input current	5.32 A
Impeller speed	1450 r.p.m.
Efficiency	IE 2
Air flow max	8704 m³/h
Maximum ambient Temperature	max 60 °C
Enclosure class	IP54
Insulation class	F
Motor type	AC
Weights	Weight 64 kg

Speed control Data

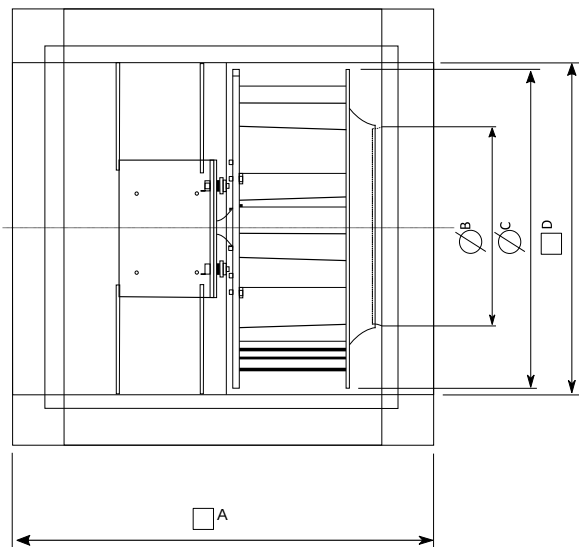
Principle of control	Variable frequency Drive
Input voltage	1~ 200-240V
Input current	15 A
Output current	6.1 A
Output voltage	3~ 0-250V
Frequency	0 – 50 Hz
Enclosure class	IP20

Mechanical charactistic

Air volume flow rate



Dimensions



□ A	=	670 mm
□ B	=	330 mm
□ C	=	500 mm
□ D	=	590 mm

Sound data

Name	V m³/h	Δp_{sV} Pa	Δp_{tV} Pa	P _{we} W	η_s %	L _{p(A)} dB(A)	n 1/min	ErP
AMF500/1	8704	7	71	1.45	1,8	80,4	1450	2018

Sound pressure level at 3m 54 dB(A) Mid-frequency band Hz

500/4	Hz	Tot	63	125	250	500	1k	2k	4k	8k
LwA Inlet	dB(A)	76	63	65	69	71	70	67	62	55
LwA Outlet	dB(A)	77	65	67	71	73	72	69	64	57
LwA Surrounding	dB(A)	60	48	50	54	56	55	52	47	40

Measuring point: $q_v = 1,19 \text{ m}^3/\text{s}$, $P_s = 564 \text{ Pa}$