

FAN IN SOUND ABSORBING BOX

SAF-3 | SAF-5 | SAF-7 | SAF-9

SAF fans are TEV fans*) that are built in an additional sound absorbing box with inspection cover. It concerns central extraction fans that are equipped with a lightweight aluminium impeller. This makes them suitable to exhaust gases, volatile fumes and dust.

Matched inlet and outlet areas, together with optimized impellers, ensure an even airflow, a high extraction capacity and a low noise level.

SAF fans are designed with materials that can withstand most weather types, making them highly suitable for both indoor and outdoor use.

APPLICATIONS

The SAF fan is intended to be used for the following applications:



- MIG-MAG/GMAW welding
- stainless steel welding
- TIG welding
- grinding
- FCAW weldingstick/MMAW welding
- polishingfinishing

SPECIFICATIONS

(also refer to the table on page 2 and the charts on page 3)

 Physical dimensions and properties 					
Material (fan + housing)	powder coated galvanized sheet metal				
Colour: • housing • fan • motor	grey (RAL 7011) grey (RAL 7011) black (RAL 9005)				
◆ Performance					
Fan type	radial				
Speed of revolutions	2800 rpm				
Noise reduction of sound absorbing box ¹	approx. 10 dB(A)				
Design conditions	20°C (41°F) at sea level				
Electrical data					
Efficiency level	IE3				
Insulation class	F with PTC				
Protection class:					
motor	• IP 33				
housing	• IP 55				
Max. start/stops per hour	30				



Ambient conditions	
Process temperature:	
• min.	• -20°C (-4°F) *)
• nom.	• -20°C (-4°F) *) • +20°C (41°F)
• max.	• +80°C (176°F)

 $^{*)}$ SAF fans can operate in temperatures below -20°C (-4°F) if you connect it to a Plymovent VFD (frequency inverter). Contact your Plymovent distributor for more information.

Max. relative humidity	rain resistant
Suitable for outdoor use	yes
Storage conditions	• 5-45°C (41-113°F) • relative humidity max. 80%

Product combinations

Welding fume extraction systems with filter unit
Welding fume extraction systems without filter unit
Vehicle exhaust systems

Control equipment

Options and accessories (recommended)

Duct silencer SAS range; refer to the table on page 2

Scope of supply

Extraction fan in sound absorbing box | Cable gland (2) | Square key 8 mm

Logistics data

Harmonized Tariff Code	84145925
Max. number/pallet	1

APPROVALS/CERTIFICATES

C€₽	Compliance with CE & UKCA directives
RoHS	Directive 2011/65/EC (RoHS) valid as of 8 June 2011
(I)	Certified motor

^{*)} Refer to separate product data sheet

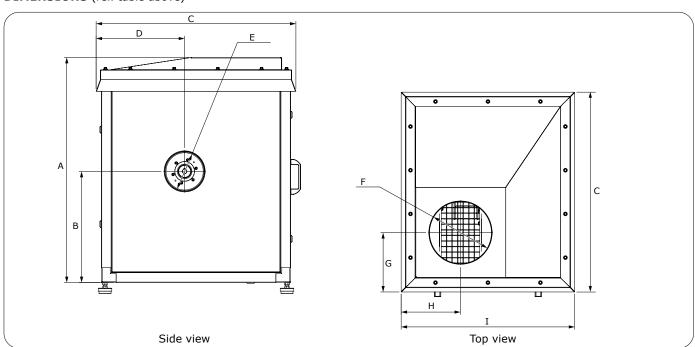
With additional duct silencer



REMAINING SPECIFICATIONS

Туре	SAF-3		SAF-5	SAF-5		SAF-7			
Article no.	0000302729		0000302	0000302730		0000302731		0000302732	
 Physical dimensions and pro 	perties								
Dimensions (ref. images below)	mm	inch	mm	inch	mm	inch	mm	inch	
А	911	35%	1092	43	1277	501/4	1389	54%	
В	450	17¾	539	21¼	698	271/2	716	281/4	
С	808	31¾	988	38%	1192	46%	1338	52%	
D	358	141/8	401	15¾	493	193/8	538	211/8	
E	Ø 160	Ø 6¼	Ø 200	Ø 7%	Ø 250	Ø 9%	Ø 315	Ø 12%	
F	Ø 250	Ø 9%	Ø 315	Ø 12%	Ø 400	Ø 15¾	Ø 500	Ø 19%	
G	240	91/2	312,5	121/4	362,5	141/4	417,5	16%	
Н	240	91/2	312,5	121/4	362,5	141/4	417,5	16%	
I	702	27%	854	33%	961	37%	1071	421/8	
Weight (net)	111 kg (245 lbs)		165 kg (364 lbs)		239 kg (527 lbs)		311 kg (686 lbs)		
Performance									
Noise level *) **)	60 dB(A)		64 dB(A)	64 dB(A)		63 dB(A)		71 dB(A)	
Electrical data									
Connection voltage	230-400V/3~/50Hz		230-400V/3~/50Hz		230-400V/3~/50Hz		400-690V/3~/50Hz		
Power	0,75 kW		2,2 kW		4 kW		7,5 kW		
Nominal current 230 V 400 V 690 V	3,02 A 1,7 A		7,98 A 4,61 A		13,32 A 7,69 A		- 14,1 A 8,2 A		
Options and accessories									
Duct silencer (recommended)	- SAS-250 straight - SAS-250 elbow		- SAS-315 straight - SAS-315 elbow		- SAS-400 straight - SAS-400 elbow		- SAS-500 straight - SAS-500 elbow		
Logistics data									
Gross weight (incl. pallet)	126 kg (278 lbs)		180 kg (397 lbs)		259 kg (571 lbs)		331 kg (730 lbs)		
Packing dimensions (incl. pallet)	750 x 850 x 1140 mm (29½ x 33½ x 45 in.)		1000 x 1200 x 1340 mm (39½ x 47 x 53 in.)		1300 x 1600 x 1600 mm (51 x 63 x 63 in.)		1300 x 1600 x 1670 mm (51 x 63 x 65½ in.)		
*) According to ISO 3746 **) Noise lev	el data of S	AF fans with a	dditional du	ct silencer					

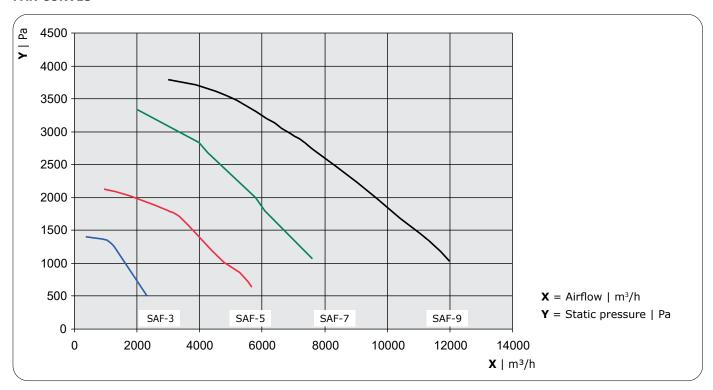
DIMENSIONS (ref. table above)



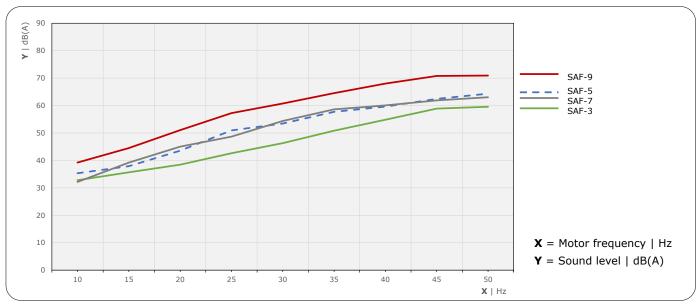


clean air at work

FAN CURVES



NOISE LEVEL



Test data based on SAF fans with additional duct silencer. Plymovent highly recommends the use of a duct silencer.

Application restrictions

Do **not** use the product in combination with a filter for the following applications or in the following circumstances: polishing applications in combination with grinding, welding or any other application that generate sparks (fibres from polishing or abrasive flap disks are highly flammable and pose a high risk of filter fires when exposed to sparks) | aluminium laser cutting | oil mist | heavy oil mist in welding fume | arc-air gouging | extraction of aggressive fumes and gases (e.g. from acids, from alkaline, from soldering paste containing lithium) | extraction of hot gases (more than 70°C/158°F continuously) | grinding aluminum and magnesium | flame spraying | extraction of cement, saw dust, wood dust etc. | sucking cigarettes, cigars, oiled tissues and other burning particles, objects and acids | explosive environments or explosive substances/gases

Product type
Article no.
Product category
Version

Fan in sound absorbing box
refer to table on page 2
central fans
18APR2024/B

Always check the latest version on ${\color{blue}\mathbf{www.plymovent.com}}$