PLYMMVENT®

clean air at work

SOUND ABSORBING FAN

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.

*) Refer to separate product data sheet



APPLICATIONS

The Sound Absorbing Fan is intended to be used for the following applications:

- · MIG-MAG/GMAW welding
- TIG welding
- FCAW welding
- Stick/MMAW welding
- · Stainless steel welding
- Grinding
- Polishing
- Finishing
- To eliminate hazardous vehicle exhaust emissions with our vehicle exhaust capture and removal systems for the following segments: fire and emergency service stations as well as military facilities.

SPECIFICATIONS

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

Physical dimensions and propertie

Physical dimensions and properties						
Material (fan + housing)	powder coated galvanized sheet metal					
Colour:						
housing	grey (RAL 7011)					
• fan	grey (RAL 7011)					
• motor	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					

1 With additional duct silencer

Ambient conditions							
Process temperature: min. nom. max.	• -20°C (-4°F) *) • +20°C (41°F) • +80°C (176°F)						
	atures below -20°C (-4°F) if you connect inverter). Contact your Plymovent						
Max. relative humidity	ative 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 syst	ems with filter unit						
Welding fume extraction syst	ems 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 absor Square key 8 mm	bing box Cable gland (2)						
Logistics data							
Harmonized Tariff Code	84145925						

APPROVALS/CERTIFICATES

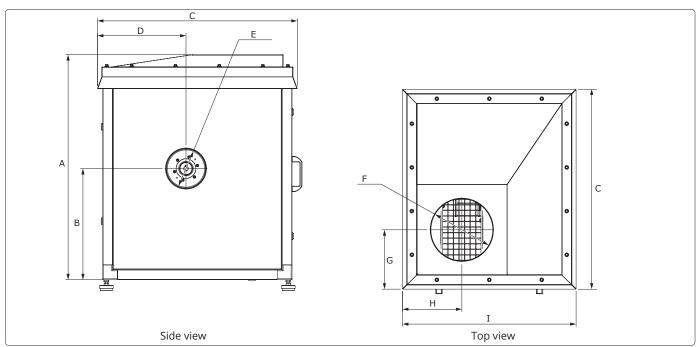
Max. number/pallet

CECH	Compliance with CE & UKCA directives
RoHS	Directive 2011/65/EC (RoHS) valid as of 8 June 2011
(P	Certified motor

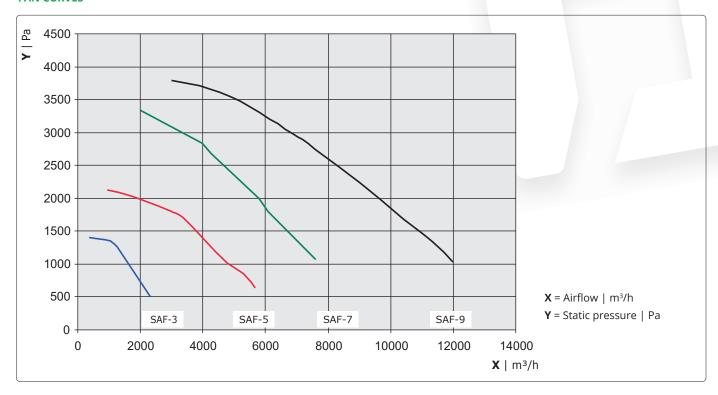
REMAINING SPECIFICATIONS

Туре	SAF-3 0000302729		SAF-5	SAF-5		SAF-7 0000302731		SAF-9 0000302732	
Article no.			0000302730		0000302				
Physical dimensions and prope	rties								
Dimensions (ref. images below)	mm	inch	mm	inch	mm	inch	mm	inch	
A	911	35%	1092	43	1277	501/4	1389	54%	
В	450	17¾	539	211/4	698	271/2	716	281/4	
С	808	31¾	988	38%	1192	46%	1338	52%	
D	358	141/8	401	15¾	493	19%	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	9½	312,5	121/4	362,5	141⁄4	417,5	16¾	
Н	240	9½	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 (3	165 kg (364 lbs)		239 kg (527 lbs)		311 kg (686 lbs)	
Performance									
Noise level *)**)	60 dB(A)	60 dB(A)		64 dB(A)		63 dB(A)		71 dB(A)	
Electrical data									
Connection voltage	230-400V/3~/50Hz		230-400V	230-400V/3~/50Hz		230-400V/3~/50Hz		400-690V/3~/50Hz	
Power	0,75 kW	0,75 kW		2,2 kW		4 kW		7,5 kW	
Nominal current									
230 V	3,02 A	•		7,98 A		13,32 A		-	
400 V 690 V	1,7 A		4,61 A	4,61 A		7,69 A		14,1 A 8,2 A	
Options and accessories	-		-		-		8,2 A		
Duct silencer (recommended)	• CAC 25	0 straight	. CAC 21	5 straight	. 545 40	0 straight	. 545 50	0 straight	
Duct silencer (recommended)	SAS-250 straightSAS-250 elbow			SAS-315 straightSAS-315 elbow		SAS-400 straightSAS-400 elbow		SAS-500 straightSAS-500 elbow	
Logistics data									
Gross weight (incl. pallet)	126 kg (278 lbs)		180 kg (3	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 i	
*) According to ISO 3746 **) Noise level d	ata of SAF fa	ns with addition	nal duct silenc	er					

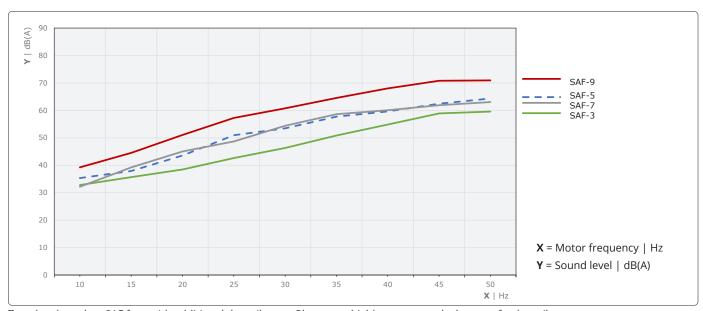
DIMENSIONS (ref. table above)



FAN CURVES



NOISE LEVEL



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

Disclaimer

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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

