

PRF

Fans for aggressive media



The PRF is a robust plastic centrifugal fan ideal for applications where the extraction of dirt, corrosive gases, or other aggressive vapour will harm a standard fan. PRF fans are suitable for medical facilities, laboratories, pharmaceutical manufacturing, and the food, electrical, metal, or chemical industries.





ASS-P

Flexible connection

PRF

Centrifugal fan

ASS-P

Flexible connection



VKA-P

Automatic shutter

SD PRF

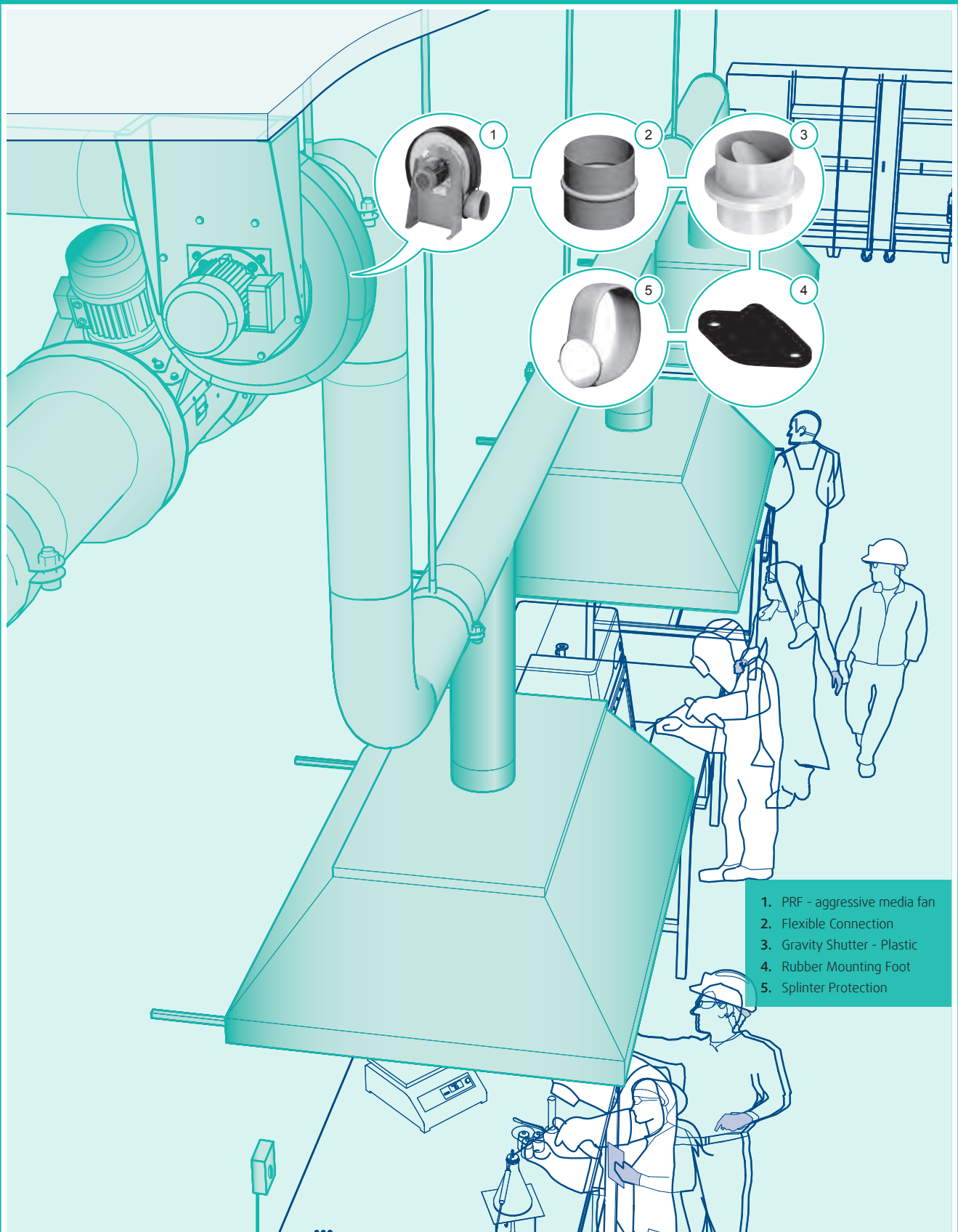
Vibration damper

VP

Splinter protection

VKS-P

Automatic damper



1. PRF - aggressive media fan
2. Flexible Connection
3. Gravity Shutter - Plastic
4. Rubber Mounting Foot
5. Splinter Protection

Sample laboratory with aggressive media ventilation system.

Because of the extreme nature of laboratory fume hoods, the materials that make up an extraction system must be resistant to chemical stress. Selecting PRF fans and accessories creates a fully compatible, safe, and straightforward ventilation system.

PRF – Aggressive media fans



Casing

Sintered casing manufactured from UV-resistant PE, waterproof. The casing can be easily turned (default position for LG270).

Motor

- Standard TEFC motors
- Motor outside the airstream.
- Terminal box on the motor.

Impeller geometry

Single inlet impellers manufactured from PP with highperformance blade geometry.

Output control

Speed controllable via frequency inverter.

- Temperature of transported air from -15°C - +70°C
- Highly efficient motors available
- Powder coated galvanised steel pedestal
- Position of the casing can be easily adapted
- Perfect fitting accessories: connections, dampers, splinter protection

Accessories



ASS-P
Flexible connection



VKA-P
Adjustable damper



VKS-P
Automatic damper



VP
Splinter protection

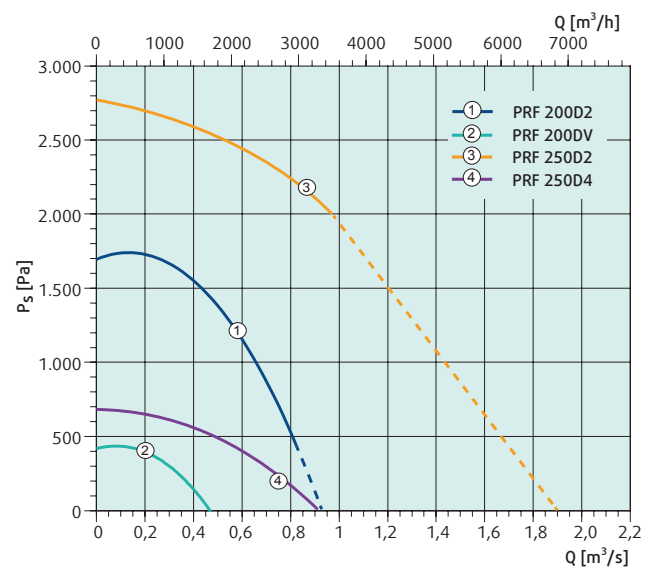
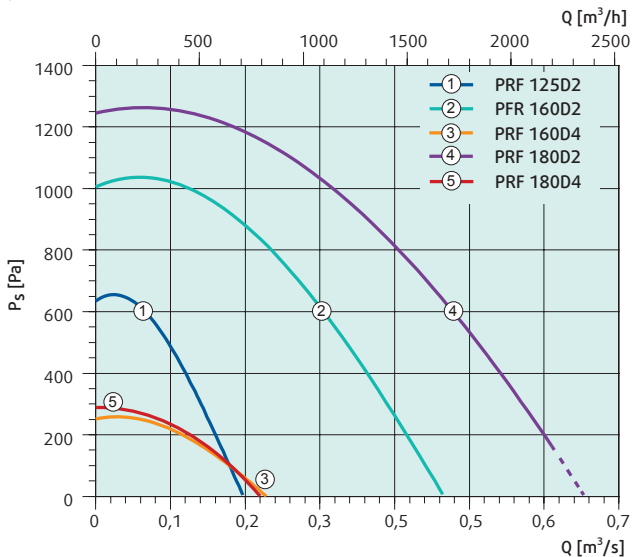


WSD PRF
Weather protection

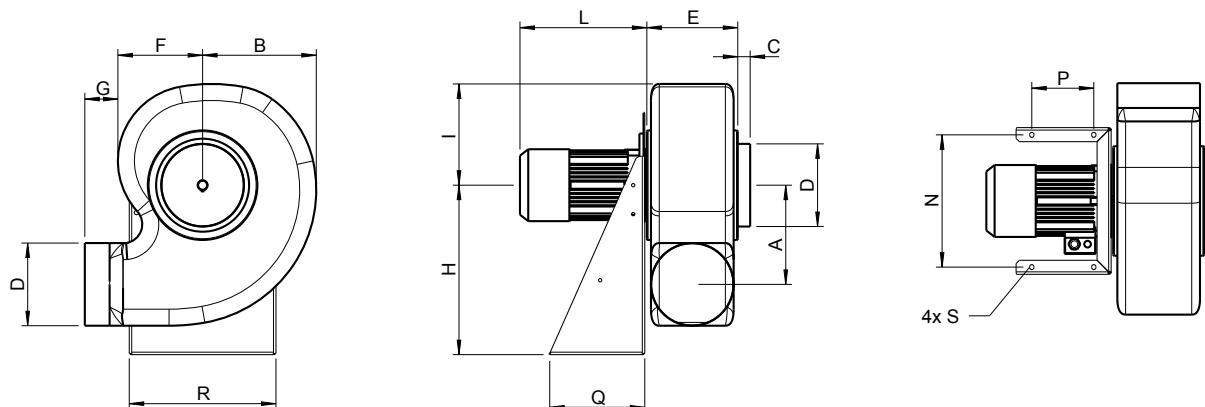


SD-PRF
Vibration damper

Quick selection



Dimensions



PRF	A	B	C	ØD	E	F	G	H	I	L	N	P	Q	R
PRF 125	142	187	40	125	120	150	60	250	165	195	200	100	140	235
PRF 160	183	228	40	160	153	188	60	310	210	210	255	100	140	290
PRF 180	208	274	40	180	160	204	60	350	230	230	277	120	190	316
PRF 200	230	310	40	200	170	220	60	410	245	260	320	150	230	355
PRF 250	290	380	40	250	194	265	80	495	330	340	330	170	250	365

Technical data

PRF		PRF 125D2	PRF 160D2	PRF 160D4	PRF 180D2	PRF 180D4	PRF 200D2	PRF 200D4	PRF 250D2	PRF 250D4
Voltage	V	400	400	400	400	400	400	400	400	400
Frequency	Hz	50	50	50	50	50	50	50	50	50
Input Power (P1)	W	278	919	142	1396	205	2101	406	5396	995
Current	A	0.58	1.69	0.57	2.45	0.49	3.14	1.32	8.13	1.82
Max T	°C	70	70	70	70	70	70	70	70	70
Sound Pressure Level (3m)*	dB(A)	60	61	49	68	45	69	56	75	60
Weight	kg	10.1	10.2	14.5	54	35	59	45.5	71	51

(*) Free field conditions



Compatibility with chemical agents

Abbreviation	Meaning
● tp	technically pure
● gas	gaseous
● all	sämtlich

Abbreviation	Meaning
● co sat	cold saturated
● nc	normal concentration
● gl ac	glacial acetic

Abbreviation	Meaning
● wat	watery
● li	liquid
● pure	pure

+ = Resistant ▼ = Partially Resistant □ = NOT Resistant				
Chemical agents	Concentration	Temp. [°C]	PP	PE
Ammonium acetate	● all ● wat	20	+	+
		40	+	+
		60	+	+
Butyl acetate	● tp	20	+	▼
Ethyl acetate	● tp	20	+	+
		40	▼	▼
Vinyl acetate	● tp	20		+
(Wine) vinegar	● nc	20	+	+
Acetone	● tp	20	+	+
Acetic acid	● tp ● gl ac	20	+	+
		40	+	+
		60	▼	▼
Boric acid glyceride	● all ● wat	20	+	+
		40	+	+
Hydrobromic acid	● 50% wat	20	+	+
Citric acid	● 10% wat	20	+	+
		40	+	+
		60	+	+
Chloric acid	● 10% wat ● 20% wat	20	+	□
		20	▼	□
Hydrochloric acid	● 10% wat	20	+	+
		40	+	+
		60	+	▼
	● up to 30% wat	20	+	+
		40	+	▼
		60	+	▼
	● 30% wat	20	+	+
		40	+	▼
		60	+	□
Chromic acid	● up to 50% wat	20	▼	▼
		40	□	□
Hydrofluoric acid	● 50% wat	20	+	+
	● 70% wat	20	+	+
Fluosilicic acid	● 32% wat	20	+	+
	● 50% watery	20	+	+
Phosphoric acid dilution	● 85% watery	20	+	+
		40	+	+
		60	▼	+
Phthalic acid	● sat ● wat	20	+	+
		40	+	+
Glycolic acid	● 37% wat	20	+	+

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Chemical agents	concentration	Temp. [°C]	PP	PE
Sulphur dioxide		20	□	□
Anilin	● tp	20	▼	▼
Anti-freeze, liquid	● tp	20	+	+
Potassium bromate	● sat ● wat	20	+	+
	● all ● wat			
Borax	● all ● wat	20	+	+
Bromine, liquid	● tp	20	□	□
Butadiene	● tp	20	+	+
Butane, gaseous	● tp	20	+	+
Cyclohexane	● tp	20	+	+
Chlorine	● tp	20	□	□
Chloroform	● 97% moisture, gaseous	20	□	▼
Ethylene chloride	● tp	20	▼	▼
Chloromethane	● tp	20	▼	□
Vinyl chloride	● tp	20		
Dichlorotoluene	● tp	20	□	▼
Dimethylamine	● tp	20	+	+
1,4-Dioxan	● tp	20	+	▼
Diocetylphthalate	● tp	20	▼	+
Ethane	● tp	20	+	+
Ether	● tp	20	▼	+
Ethyl benzene	● tp	20	□	▼
Ethylene diamine	● tp	20	+	+
Phenol	● up to 10% wat	20	+	+
Fluorine, dry	● tp	20	□	□
Ammonium fluoride	● 50% wat	20	+	+
Formaldehyde	● 40% wat	20	+	+
Sodium phosphate	● wat ● co sat	20	+	+
	● tp			
Phosgene	● tp	20		▼
Diesel fuel		20	+	▼
Glycerine	● tp	20	+	+
Hydrogen	● tp	20	+	+
Ammonium hydroxide	● wat ● co sat	20	+	+
Iodine		20	+	+
Sodium iodide	● wat	20	+	+
Calcium hypochlorite	● wat ● co sat	20	+	+
Sodium hypochlorite	12,5% active chlorine ● wat	20	▼	▼
Isoctane	● tp	20	+	+
Mercury	● pure	20	+	+
Methane	● tp	20	+	+
Methylhexylketon	● tp	20	+	+

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Chemical agents	Concentration	Temp. [°C]	PP	PE
Lactic acid	● 10% wat	20	+	+
		40	+	+
Maleic acid	● wat ● co sat	20	+	+
		20	▼	▼
Nitric acid	● up to 40% wat	20	▼	▼
		40		
	● 65% wat	20	▼	□
		40	□	
● 100%	20	□	□	
	20	+	+	
Perchloric acid	● 10% wat	20	+	+
		40	+	+
		60	+	+
● 70% wat	20	+	▼	
	40	▼	□	
Hydrogen sulphide	● tp	20	+	+
Sulphuric acid	● up to 40% wat	20	+	+
		40	+	+
		60	+	+
	● up to 60% wat	20	+	+
		40	+	+
		60	+	+
	● up to 80% wat	20	+	+
		40	+	+
		60	▼	▼
	● 90% wat	20	▼	▼
		40		
		20	□	□
● 96% wat	20			
	40			
	60			
Sulphurous acid	● sat ● wat	20	+	+
Stearic acid	● tp	20	+	+
Tartaric acid	● all ● wat	20	+	+
Trichloroacetic acid		20	+	+
Turpentine	● nc	20	+	▼
Benzyl alcohol	● tp	20	+	+
Ethanol	● 96% tp	20	+	+
		40	+	+
		60	+	+
Methyl alcohol	● all	20	+	+
Acetaldehyde	● tp	20	+	▼
Chrome alum	● wat ● co sat	20	+	+
		20	+	+
Ammoniac	● tp ● gas	20	+	+
		40	+	+
		60	+	+
Acetic acid anhydride	● tp	20	+	+

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Chemical agents	concentration	Temp. [°C]	PP	PE
Naphta		20	▼	▼
		40	□	□
Naphtalene	● tp		+	+
Ammonium nitrate	● 10% wat	20	+	+
Sodium nitrate	● wat ● co sat	20	+	+
Nitrotoluene	● tp	20	+	+
Oleum	10% SO2	20	□	□
Lubricant oils		20	+	▼
Olive oil		20	+	+
Paraffin oil		20	+	+
Silicon oil		20	+	+
Sodium oxalate	● wat ● co sat	20	+	+
Ethylene oxide	● tp	20	□	▼
Oxygen	● tp	20	+	+
		60	▼	▼
Ozone	in the air up to 2%	20	▼	▼
Tetrachloroethylene	● tp	20	▼	▼
Potassium permanganate	● wat ● co sat	20	+	+
		20	+	+
Hydrogen peroxide	● 20% wat	40	+	+
		60	+	▼
		20	+	+
Hydrogen peroxide	● 90% wat	20	+	□
		20	+	+
		40	+	▼
Petroleum	● tp	40	+	▼
		60	▼	▼
		20	+	+
Propane	● tp ● li	20	+	+
		20	+	+
Sodium silicate	● all ● wat	20	+	+
		20	+	+
Caustic soda	● 50% wat	40	+	+
		60	+	+
		20	+	+
Ammonium sulphate	● 10% wat	40	+	+
		60	+	+
Tetrachloroethane	● tp	20	▼	▼
Lead tetraethyl	● tp	20	+	+
Tetrahydrofurane	● tp	20	▼	□
Toluene	● tp	20	▼	▼
Trichloroethane	● tp	20	▼	▼
Trichloroethylene	● tp	20	□	▼
Triethanolamine	● tp	20	+	+
Urea	● up to 30% wat	20	+	+
Vaseline	● tp	20	▼	+
Xylene	● tp	20	□	□
Sulphur	● tp	20	+	+

Handing sheet for PRF fans

Date: _____

Customer: _____ Order No.: _____

Job No.: _____ Tag: _____ Quantity: _____

Project: _____ Date reqd.: _____

Contact name: _____ Phone: _____ Email: _____

Delivery address: _____

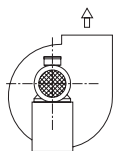
Model No.: _____ Duty: _____ Material: _____

Mounts: _____ Quantity: _____

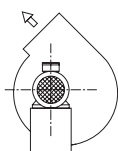
Special requirements: _____

Designation of direction of rotation

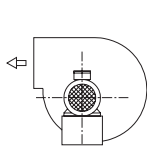
LG 0 (ACW 90)



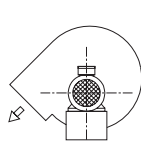
LG 45 (ACW 135)



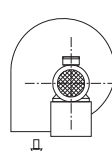
LG 90 (ACW 180)



LG 135 (ACW 225)

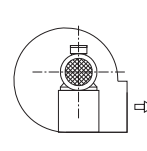


LG 180 (ACW 270)

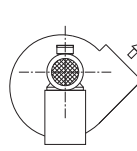


Default

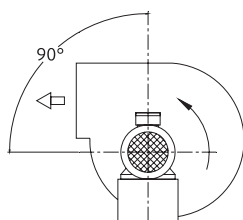
LG 270 (ACW 0)



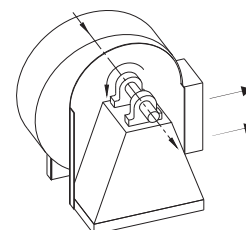
LG 315 (ACW 45)



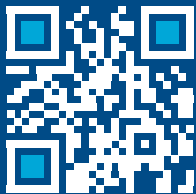
Example: LG 90



View from the drive side



LG: counter-clockwise rotation



Comprehensive information for selecting the most suitable fan for your application is available via our fansSelect selection software.

www.pacificventilation.com/downloads



We are the safe choice.



PV00155_MARCH_2021_Version 1.0.0



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