

PRF 180E4

Centrifugal fan, plastic, aggressive media

Item number: [31564](#)

Variant: 230V 1~ 50Hz

Temperature of transported air from -15°C - +70°C

Single-flow impellers from PP with effective blade geometry

The powder painted pedestal is manufactured of galvanised steel

Position of casing can be easily adapted

Perfect fitting accessories: connections, dampers, splinter protection

The PRF fans have been developed especially for the exhaust of

aggressive media. This is the right fan when corrosive gases, contaminated air or other aggressive components are part of the exhaust air. Typical applications are medical facilities, the food-, electrical-or chemical industry.

The sintered casing from UV-resistant PE and offers a variety of applications with its connectors from ø 125 - 250 mm. The casing can be easily adjusted through turning it (Standard position is LG270, see picture).



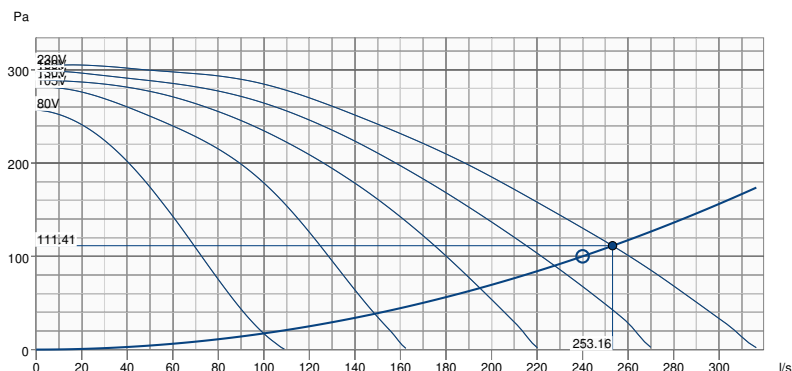
Technical parameters

Nominal data		
Voltage (nominal)	230	V
Frequency	50	Hz
Phases	1~	
Input power	229	W
Nominal power at shaft (P2)	0.14	kW
Input current	1.01	A
Impeller speed	1,365	rpm
Air flow	max 1,152	m³/h
Capacitance of capacitor	6	µF
Temperature of transported air	max 70	°C
Max temperature of transported air, when speed controlled	70	°C

Sound data		
Sound pressure level at 3m (20m² Sabin)	49	dB(A)
Protection/Classification		
Enclosure class, motor	IP54	
Insulation class	F	
Data according to ErP		
ErP ready	Not ErP relevant	
Dimensions and weights		
Duct dimension; Circular, inlet	180	mm
Duct dimension; Circular, outlet	180	mm
Weight	15.7	kg
others		
Duct connection type	Circular	
Motor type	AC	

Performance

Performance curve



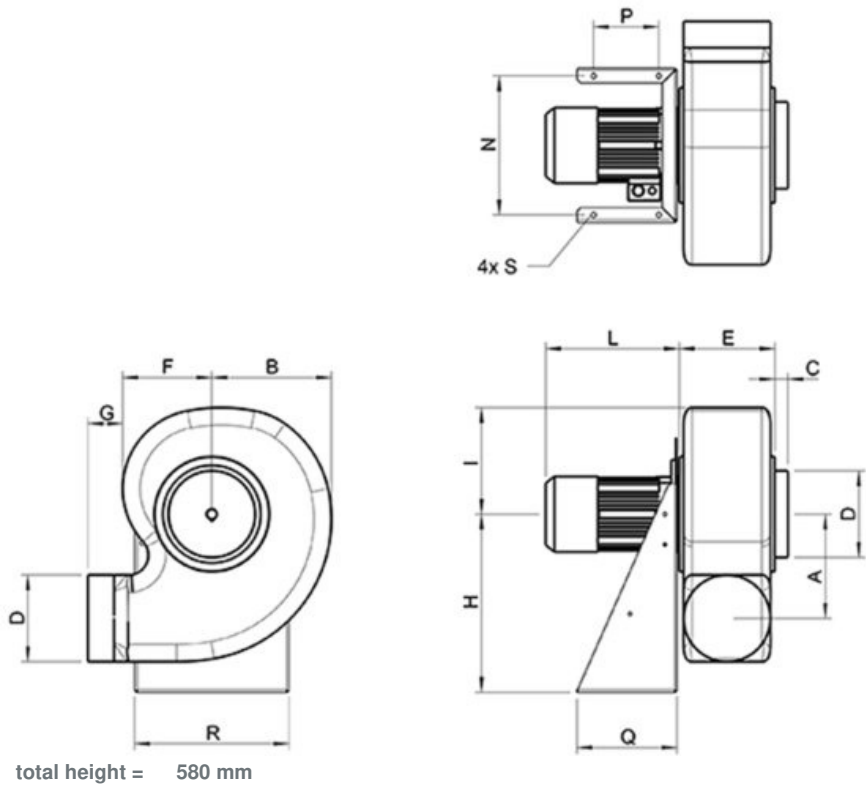
Hydraulic data

Required air flow	240.00 l/s
Required static pressure	100 Pa
Working air flow	253.16 l/s
Working static pressure	111 Pa
Air density	1.204 kg/m³
Power	206.6 W
Fan control - RPM	1390 rpm
Current	0.90 A
SFP	0.816 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

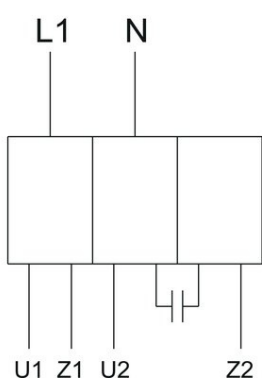
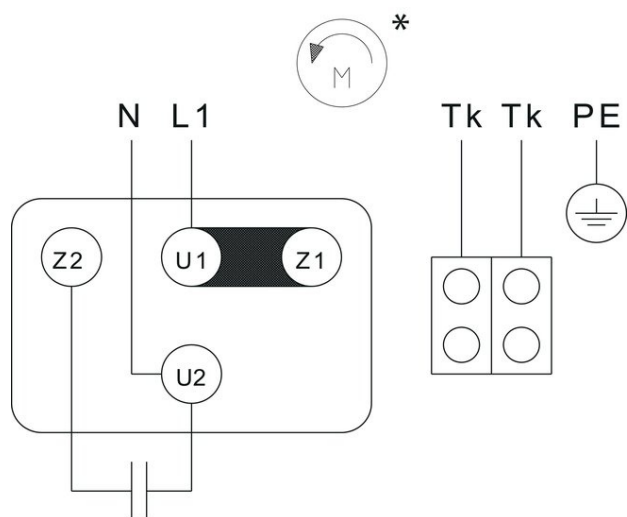
Sound power level		63	125	250	500	1k	2k	4k	8k	Total
Inlet	dB(A)	55	70	66	66	61	56	50	44	73
Outlet	dB(A)	57	73	71	71	63	60	52	43	77
Surrounding	dB(A)	33	37	50	58	52	49	40	36	60
Sound pressure level at 3m (20m² Sabine)	dB(A)	-	-	-	-	-	-	-	-	53
Sound pressure level at 3m free field	dB(A)	-	-	-	-	-	-	-	-	39

Dimension

	A	B	C	øD	E	F	G	H	I	L	N	P	Q	R
PRF 180E4/DV	208	274	40	180	160	204	60	350	230	190	277	120	190	316



Wiring



Accessories

- ASS-P 180 flex. con. PRF (32379)
- Motor protect. switch S-ET 10 (161199)
- REU 1.5 Speed control (5004)
- RTRE 1,5 Speed control (5008)
- VKA-P 180 adjust. damper PRF (32380)
- VP-Splinter protection PRF 180 (305463)
- Frequency converter FRQSE-6A (37419)
- Frequency converter FRQ5SE-6A (37421)
- Motor protect. switch S-ET 10E (161205)
- REV-5POL/05-7,5kW R/Y (33979)
- SD rubber mou. 4Pcs PRF160-250 (32568)
- VKS-P 180 gravity shutter PRF (32381)
- WSD PRF180 Weather roof KIT (309458)
- REV-5POL/05-7,5kW B/G (281745)

Documents

- [compatibility with chemical agents_en_003.pdf](#)
- [IMO_PRF, PRF EX_009_312436.PDF](#)
- [EC-DoC_PRF_en_002.PDF](#)

Specification

Plastic circular duct fan, developed for the exhaust of aggressive media.

Particularly suitable for exhaust air with corrosive gases, contaminated air or other aggressive components.

Sintered casing from UV-resistant PE, waterproof.

Pedestal and motor mounting made of galvanised steel, painted.

Single-flow impellers from PP with effective blade geometry.

Voltage controllable standard IEC motor.

Motor outside air flow.

Integral thermal contacts with leads to a motor protection device. Speed-controlled by voltage reduction via transformer.

Terminal box fitted on the motor.

Suitable for extract air. Variable installation, the casing position can be easily adapted. (Standard position LG270).

For indoor installation. With appropriate accessories also suitable for outdoor installation.

Preferable applications are medical facilities as well as food, electrical, chemical and metal industry.