



PROFILE FAN

Axial & Centrifugal Roof Unit

PROFILE FAN SERIES



Description

The Profile Roof Fan has been developed to reduce the installation costs of roof mounted units by eliminating the need for an upstand. They are simple to install, require no additional flashing and are available in most metal-deck profiles.

There are 2 sizes in the range and these fans are available with axial flow and backward-curved centrifugal impellers.

Typical Applications

Exhausts and supplies air to a wide range of commercial applications such as change rooms, laundries, warehouses and workshops, gymnasiums, bulk' goods retail outlets and assembly halls.

Features

- Available with high pressure backward-curved centrifugal impellers and high airflow axial impellers.
- Axial version available as supply or exhaust unit, centrifugal version available in exhaust only.
- Easy to install by simply cutting hole in roof and fixing fan with tek-screws.
- No need for costly upstands and flashing.
- To weather proof simply add a bead of silicon around metal-deck and roof.
- Inlet spigot available for ducted installations.
- Fits onto most metal-deck profiles. See "How To Order" for complete range.
- Lightweight but sturdy construction.
- Can be mounted at angles up to 30°C.
- A Relief Air Vent is also available (model PFR30), See page D-10.

Construction

Cowl, base and inlet spigot are made of UV-stabilised plastic, steel components have a corrosion resistant finish. Includes either axial flow or backward-curved centrifugal impellers.

Motor

Type - external rotor, squirrel cage induction motors.

Electricity supply - 230V, single-phase, 50/60Hz.

Ball Bearing - sealed for life.

Speed-controllable.

See pages O-2/3 for details on these motors.

Internal Thermal Protection

Internal Thermal Contacts as standard.

Testing

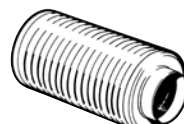
Airflow tests to BS848:Part 1 1980

Noise tests to BS848:Part 2, 1985

Ancillary Equipment



IS30P - Inlet Spigot
Ref. Section D-59



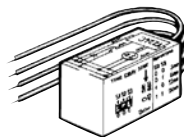
CC - Attenuator
Ref. Section H-16



FC - Fast clamp
Ref. Section J-5



VA - Speed controller
Ref. Section M-5



VZ - Run-on timer
Ref. Section M-14

Suggested Specification

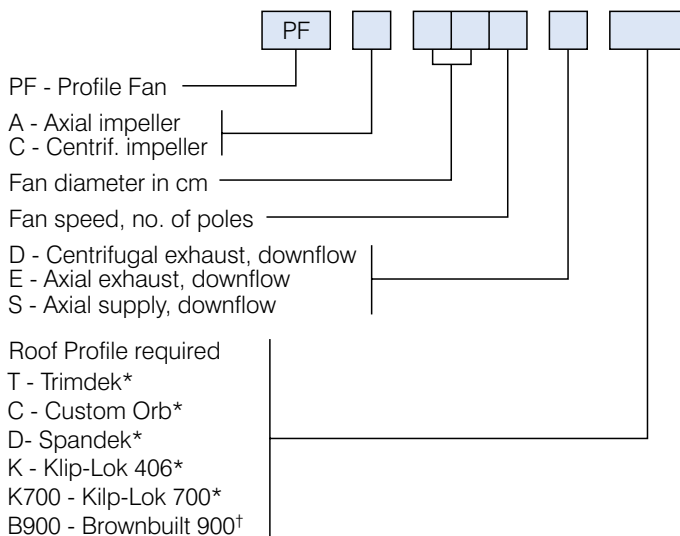
The roof ventilators shall be of the Profile Fan Series as designed and manufactured by Elta Fans.

The axial or centrifugal impellers shall be direct-driven by speed-controllable external rotor motors with integral thermal protection.

Plastic components shall be UV-stabilised and steel components shall have a corrosion resistant finish.

All models shall be fully tested as a complete assembled unit to BS848:Part 1, 1980 for airflow and BS848:Part 2, 1985 for noise.

How To Order

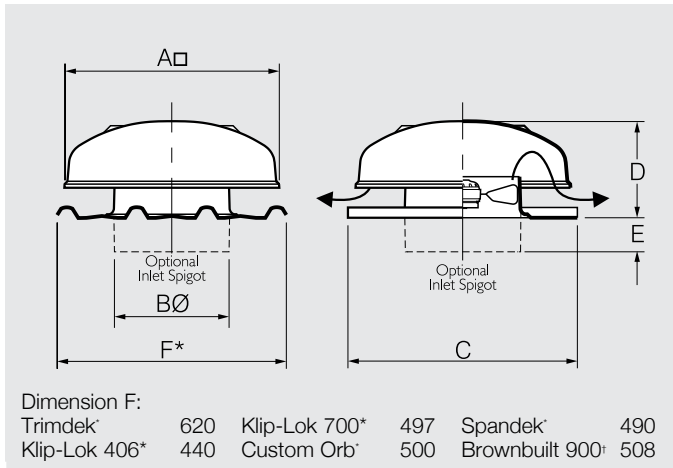


For Relief Air Vents specify PFR30, see page D-10 for details.

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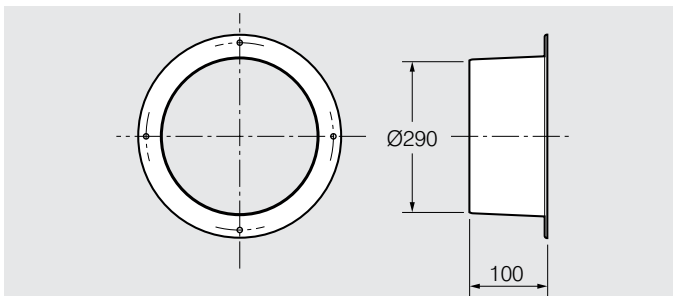
Dimensions



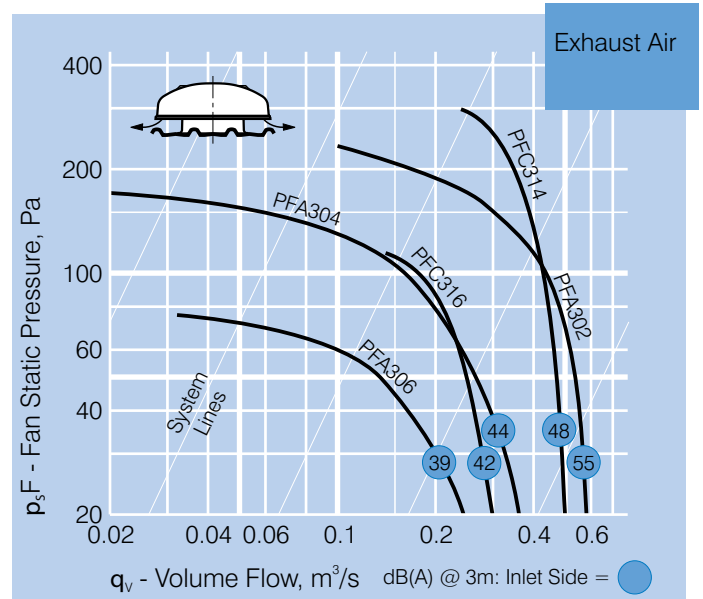
Model Number	Dimensions, mm					Approx. weight kg	Approx. volume m ³
	A	BØ	C	D	E		
PFA302						6.9	
PFA304						6.5	
PFA306	570	290	640	265	100	6.5	0.13
PFC314						8.7	
PFC316						8.4	

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IS30P - Inlet Spigot



The Inlet Spigot, IS30P, is designed for applications where ducting is required. Care should be taken when installing ductwork as neither the spigot nor the roof unit base is designed for weight-bearing.



Technical Data

Model Number	Fan Speed rev/sc	Avg. dB(A) @ 3m	Single-phase Watts	Amps*	Max °C
PFA302	41	55	180	0.79	50
PFA304	22	44	90	0.41	50
PFA306	16	39	50	0.23	50
PFC314	23	48	150	0.66	40
PFC316**	15	42	70	0.54	40

* Amperages shown are a guide only, refer to our Sales Department for accurate figures at time of order.

** Not speed controllable

Noise Data

Model Number	In-duct Sound Power Levels L _w dB re 1pW						
	63	125	250	500	1k	2k	4k
PFA302	67	74	74	75	70	67	64
PFA304	66	67	67	63	58	54	49
PFA306	58	64	64	54	47	53	39
PFC314	81	77	69	66	58	58	56
PFC316	76	68	64	60	54	54	48

Sound Power Levels shown are for the Inlet Side of the unit.

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