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 This data sheet produced on 09 Jun 2020 14:39 using software version 3.6.19.2088 - 12-Mar-2018

## Technical Data

### SQF - Squif In-line Single Fan In Line Single Fan

Fan Code: **SQF46**  
 Installation Manual Links: 671175  
 Required Duty: 3 m³/s @ 350 Pa  
 Actual Duty: 4.523 m³/s @ 796 Pa  
 Actual at Required Flow: 3 m³/s @ 1109 Pa  
 Velocity at Actual Duty: 5.025 m/s

#### When Speed Controlled to Required Duty (66.3%):

Velocity at Required Duty: 3.333 m/s  
**Fan Input Power: 2.102 kW**  
**Motor Input Power: 2.465 kW**  
**Specific Fan Power: 0.8 W/(l/s)**  
 Motor Efficiency: 88.6 %  
 Fan Total Efficiency: 50 %  
 Fan Input Power: 7.203 kW  
 Maximum Fan Input Power: 7.336 kW  
 Motor Input Power: 8.449 kW  
 Specific Fan Power: 1.9 W/(l/s)

Nominal Fan Speed: 4 Pole 1,450 RPM  
 Electrical Supply: 400 V 3 Phase 50 Hz  
 Motor Rating: 7.5 kW  
 Motor Current: flc: 15.2 A  
 Motor Current: sc: 108 A  
 Starting currents are nominal for D.O.L. starting.

Max. Operating Temp.: 90°C & 400°C for 2 hours  
 Weight: 210 kg



0086-CPR-672476 EN 12101-3:2015 Powered smoke and heat exhaust ventilators for use in Construction Works. Application Classes, uninsulated, non smoke reservoir, dual purpose, Class F400 - 400°C / 120 mins. Motor rating Class B / F.

## Sound Data

Acoustic performance to ISO 13347 and AMCA 300.

Sound Power Levels re 1 pWatts (Hz):

	63	125	250	500	1k	2k	4k	8k	dB(A)
Induct Inlet	86	100	87	80	77	76	77	74	
Induct Outlet	89	89	85	85	80	78	78	72	
Breakout	83	91	79	76	67	65	62	50	58

The above spectrums running speed controlled to required duty (66.3%). When running at full speed:

Induct Inlet	89	103	92	86	86	85	86	83	
Induct Outlet	92	92	90	91	89	87	87	81	
Breakout	86	94	84	82	76	74	71	59	63

dB(A) is spherical at 3 metres. For hemi-spherical add 3 dB(A).

Values shown are for inlet Lw, outlet Lw sound power & breakout levels for: Installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

Please note that the noise data stated on this data sheet for the unit and/or silencer is tested in accordance with UK, European and International industry laboratory standards. However onsite conditions may vary and we would recommend that this information is verified by an acoustic specialist in order to ensure its suitability for the intended application.

## Specification

In-line centrifugal fan suitable for both vertical & horizontal mounting. The unit casing shall be heavy gauge galvanised steel. The fans shall be of high efficiency backward curved centrifugal design, manufactured in galvanised steel. Fans shall be direct drive with EFF2 high efficiency motors to BS5000 as standard. The unit motor shall be positioned outside the ventilation airflow path. The unit shall be capable of continuous operation at 90°C followed by one off operation at up to 400°C for a period of 2 hours. .

### NAV47

Spring type anti-vibration mountings, supplied as a set of 4.

## Selected Ancillaries

1 x NAV47 Spring type anti-vibration mounting

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In Line Single Fan

Fan Code: **SQF46**

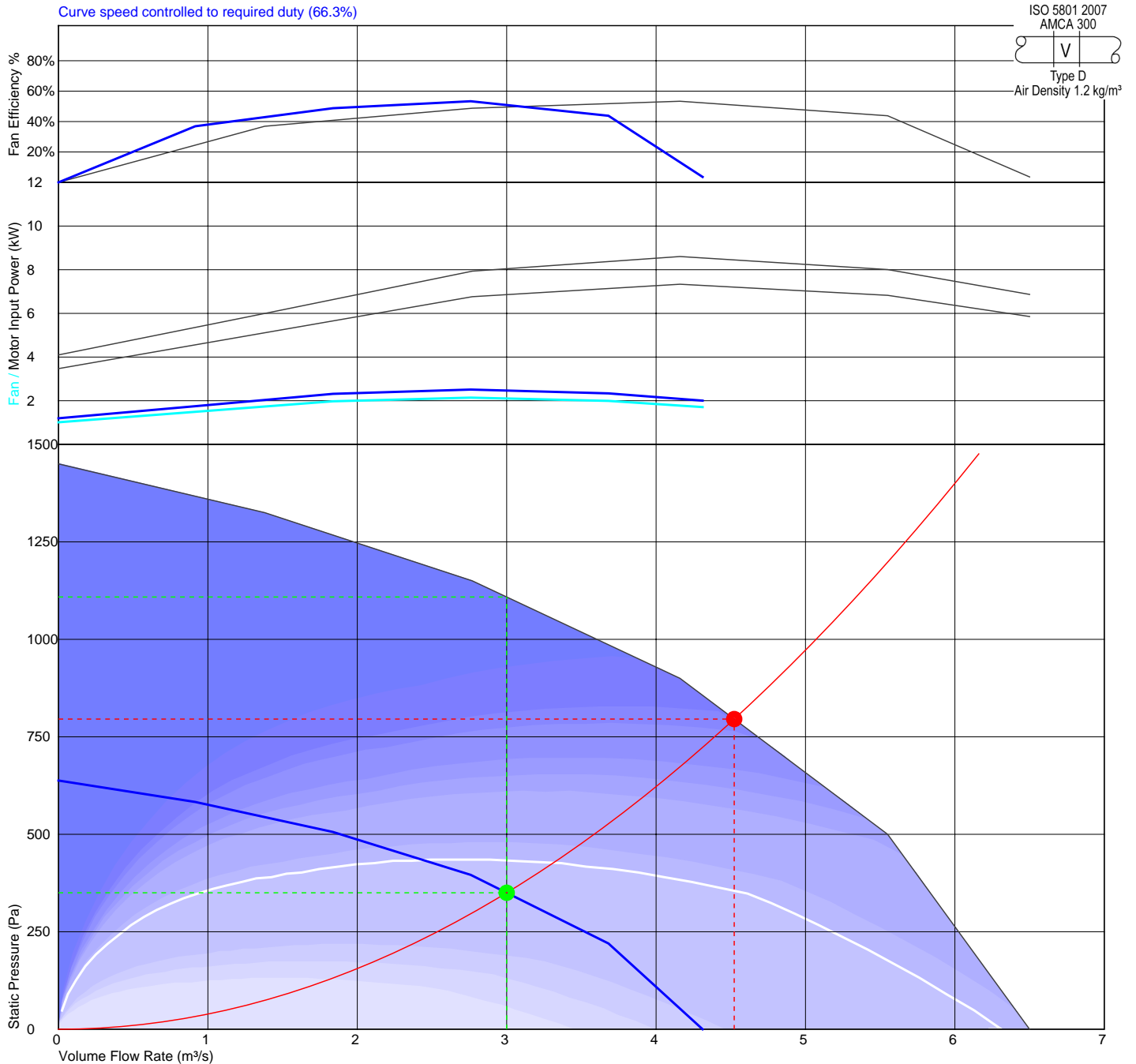
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### Performance Curve

Curve speed controlled to required duty (66.3%)



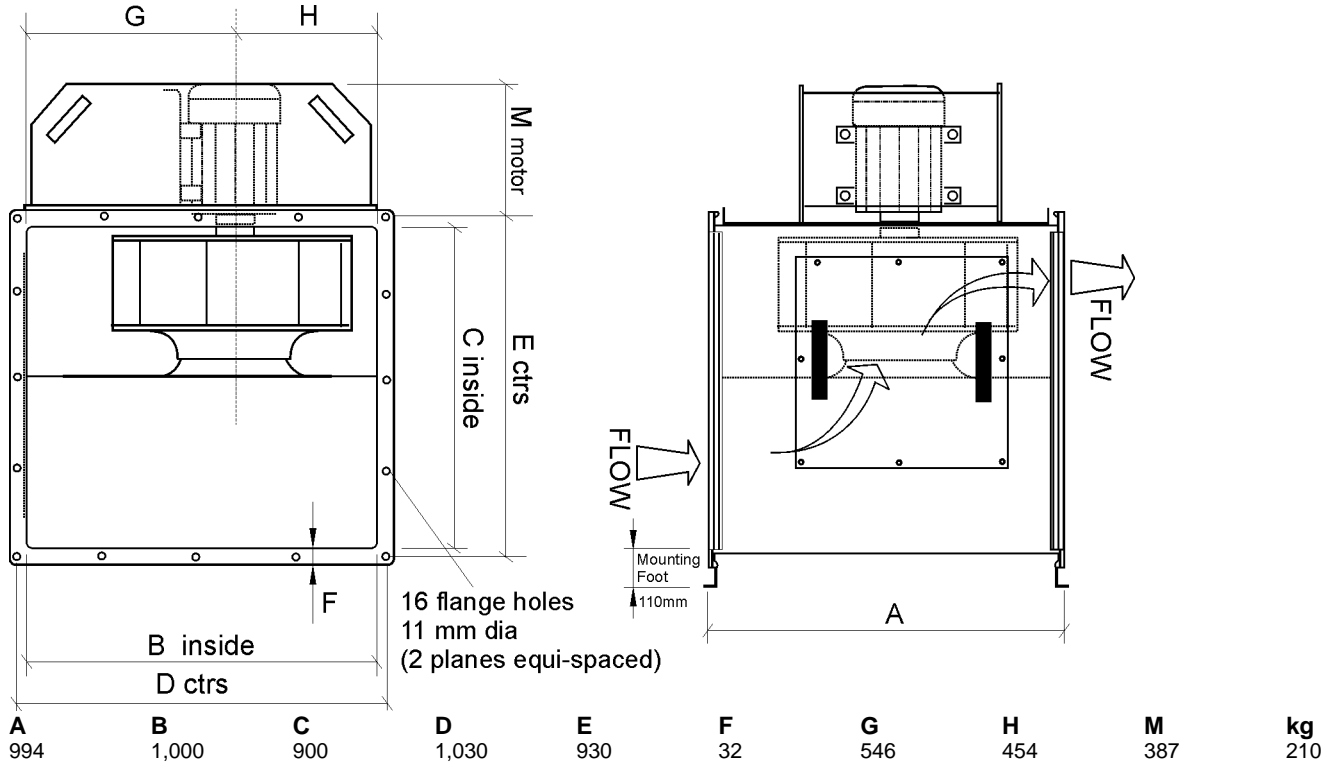
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 In Line Single Fan

Fan Code: **SQF46**



The drawing is for dimensional purposes only. Dimensions in mm.

**Ancillary Dimensions**

**NAV47 - Spring type anti-vibration mounting**

