SUMMARY FAN DATA SHEET

Nuaire Limited, Western Industrial Estate, Caerphilly, CF83 1NA, United Kingdom. email:info@nuaire.co.uk
UK Commercial Enquiries T:029 2085 8200 UK Residential Enquiries T:029 2085 8500 International Enquiries T:+44.29 2085 8497

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Technical Data

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

Fan Code:	**SQF62**
Installation Manual Links:	671175
Required Duty:	1.3 m³/s @ 350 Pa
Actual Duty:	1.359 m³/s @ 382 Pa
Actual at Required Flow:	1.3 m³/s @ 387 Pa
Velocity at Actual Duty:	1.887 m/s

When Speed Controlled to Required Duty (95.6%):

Velocity at Required Duty:	1.806 m/s
Fan Input Power:	**0.792 kW**
Motor Input Power:	**1.099 kW**
Specific Fan Power:	**0.8 W/(l/s)**
Motor Efficiency:	78.1 %
Fan Total Efficiency:	57 %
Fan Input Power:	0.904 kW
Maximum Fan Input Power:	0.959 kW
Motor Input Power:	1.254 kW
Specific Fan Power:	0.9 W/(l/s)
Nominal Fan Speed:	6 Pole 960 RPM
Electrical Supply:	400 V 3 Phase 50 Hz
Motor Rating:	1.1 kW
Motor Current:	flc: 3 A
Motor Current:	sc: 13.2 A

Starting currents are nominal for D.O.L. starting.

Max. Operating Temp.:	90°C & 400°C for 2 hours
Weight:	141 kg

CE 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 perfomance to ISO 13347 and AMCA 300.

Sound Power Levels re 1 pWatts (Hz):

	63	125	250	500	1k	2k	4k	8k	dBA
Induct Inlet	86	95	82	77	75	74	73	71	
Induct Outlet	83	96	77	75	79	78	74	73	
Breakout	80	89	73	69	66	65	58	49	55

The above spectrums running speed controlled to required duty (95.7%). When running at full speed:

Induct Inlet	87	96	83	78	76	75	74	72	
Induct Outlet	84	97	78	76	80	79	75	74	
Breakout	81	90	74	70	67	66	59	50	56

dBA is spherical at 3 metres. For hemi-spherical add 3 dBA.
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. .

NAV46
Spring type anti-vibration mountings, supplied as a set of 4.

Selected Ancillaries

1 x NAV46	Spring type anti-vibration mounting

SUMMARY FAN DATA SHEET - PERFORMANCE

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Whilst the information given on this data sheet is fan specific, it is in summary and reference to the product selection catalogue and installation & maintenance documents is recommended.
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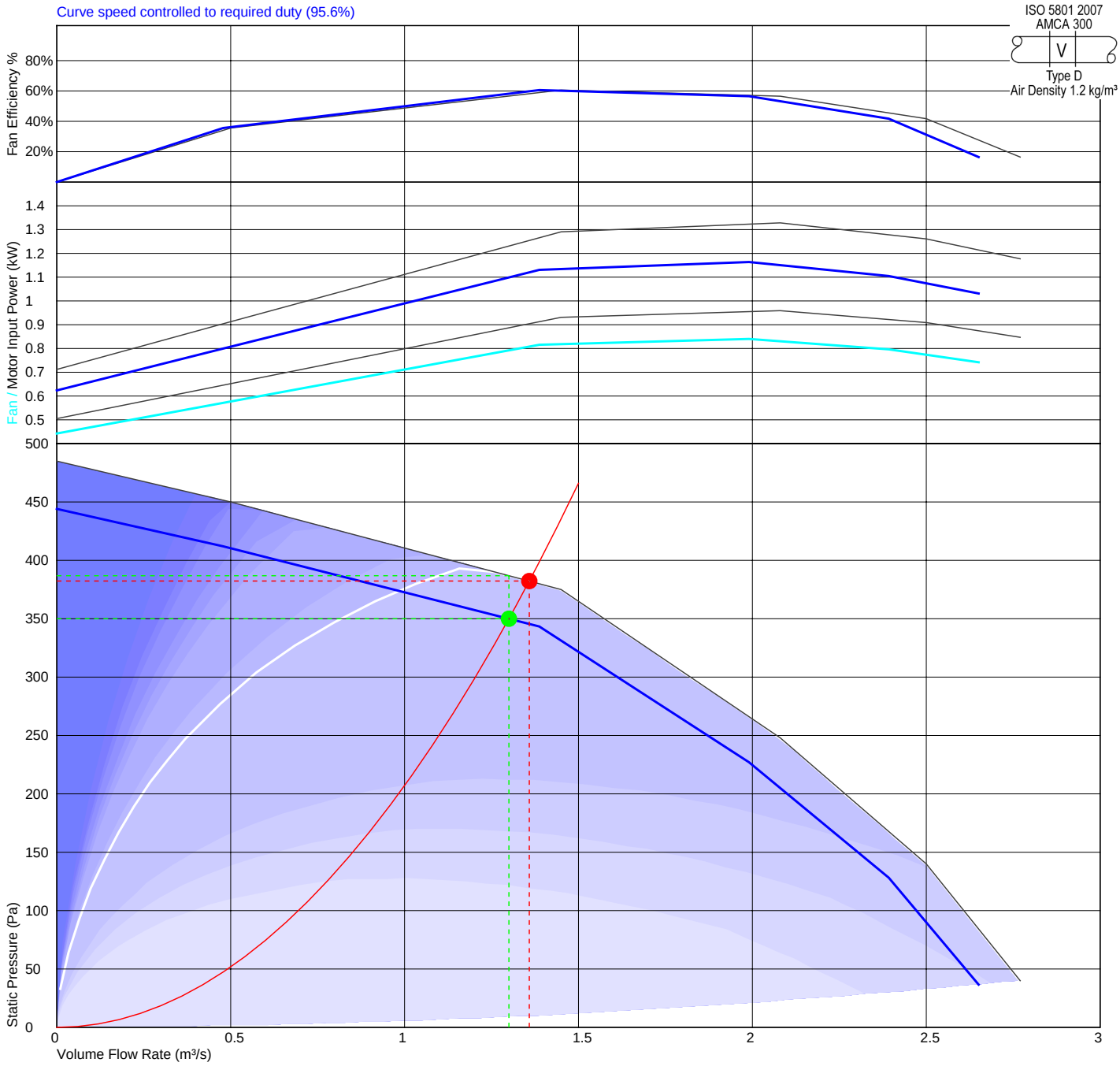
Performance Curve



SUMMARY FAN DATA SHEET - DRAWINGS

Nuaire Limited, Western Industrial Estate, Caerphilly, CF83 1NA, United Kingdom. email:info@nuaire.co.uk
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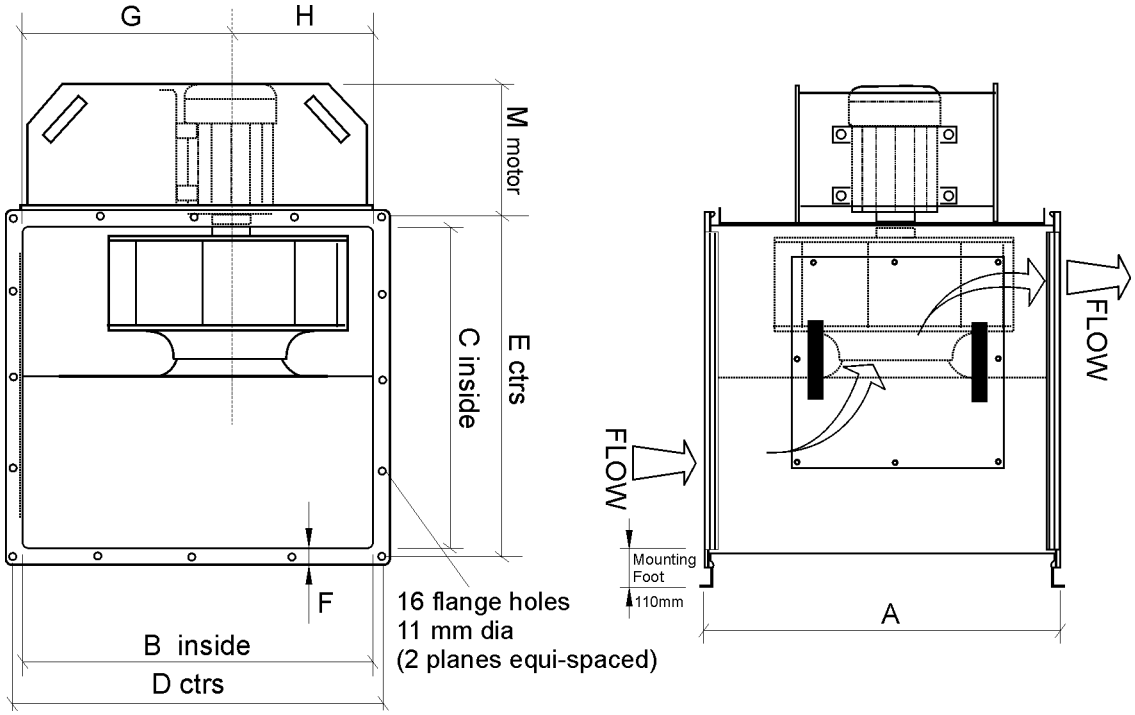
Fan Code: **SQF62**



A	B	C	D	E	F	G	H	M	kg
901	900	800	930	830	32	490	410	290	141

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

Ancillary Dimensions

NAV46 - Spring type anti-vibration mounting