



# 60Hz VENTILATION SOLUTIONS



NUAIRE. FOR THE COMPLETE VENTILATION SOLUTION





# WITH A RECORD OF QUALITY WHICH IS THE ENVY OF THE INDUSTRY...

...Nuaire is a British company with a long history of innovation in a field of ventilation and air movement solutions, and its products are known across the world for their superb quality and efficiency.

Founded in 1966, Nuaire has a long and much-admired heritage in developing and manufacturing ventilation products. The company's products are renowned worldwide, likewise their unrivalled customer service, and it is this combination which has ensured that Nuaire's products have been sold into more than 60 countries around the world, including in the Middle East, Europe, the USA and Asia.





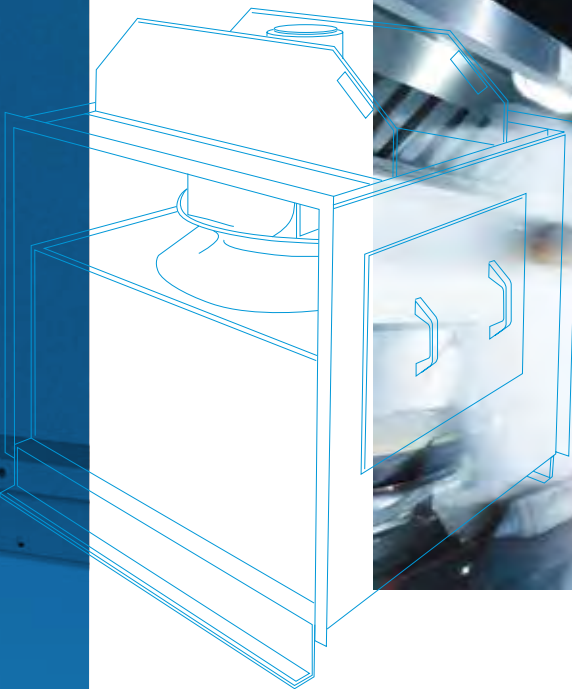
## CENTRIFUGAL INLINE SQUIF - SINGLE FAN SQF AND SQF-T (TWO SPEED)

High temperature centrifugal fans for smoke extract (outside smoke reservoir applications) and certified to EN12101-3. Also suitable for ambient applications, the SQUIF is an ideal solution for installations of high resistance with a duty performance range of 6.5m<sup>3</sup>/s.



### KEY BENEFITS:

- ▶ **HIGH TEMPERATURE APPLICATION** - CAPABLE OF RUNNING CONTINUOUSLY AT 90°C, AND FOR A ONE OFF EMERGENCY USE AT 400°C/2 HOURS
- ▶ **QUIET OPERATION** - ONE OF THE QUIETEST SOLUTIONS FOR MOTOR UNIT OUT OF AIRSTREAM
- ▶ **EASY MAINTENANCE** - OUT OF AIRSTREAM ALLOWS FOR QUICK AND EASY ACCESS
- ▶ **CLASS F MOTOR**
- ▶ **SUITABLE FOR HIGH RESISTANCES** - HIGH PRESSURE DEVELOPMENT SUITABLE FOR DUCTED SOLUTIONS
- ▶ **FLEXIBLE SOLUTION** - CAN BE MOUNTED INTERNAL OR EXTERNALLY EITHER HORIZONTALLY OR VERTICALLY





## CONSULTANTS SPECIFICATION



### CASING

The complete units are manufactured from heavy gauge galvanised steel and are designed for easy maintenance and fitted with an integral flange (additional finishes are available). General construction is to a Class A Leakage.



### MOTOR

Motors are direct drive mounted out of airstream class F insulated and IE2 high efficiency. Motors are available as single speed or 2 speed; 4 or 6 pole. Motor bearings are sealed for life.

- 380v
- 460v
- Other voltages available, contact Nuaire for more details.



### CERTIFICATION AND OPERATING TEMPERATURE

Units are independently tested to BS EN12101-3, suitable for standard day to day temperatures of up to 90°C and for one off operation at 400°C for two hours.



### IMPELLER

The impeller is a high efficiency backwards curved centrifugal design manufactured from galvanised steel.



### INSTALLATION

The units are designed for internal or external installation at any angle.



### PERFORMANCE

The units are available in a variety of airflows up to 6.5m<sup>3</sup>/s with high pressure development.



### NOISE

Units are designed for quiet operation with low in-duct and breakout sound levels.



### ANCILLARIES

Each unit is available with a range of ancillaries for ease of installation. All ancillaries are certified to BS EN12101-3.

- Splitter attenuators
- AV mounts
- Flexible connectors
- Built-in feet
- Guards for square units.

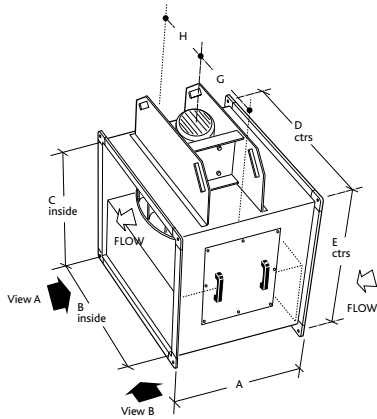


### APPLICATIONS

- Car parks and smoke
- Factories and warehouses
- Commercial kitchens
- Student accommodation
- Care homes
- Leisure and sports facilities
- Public buildings



# CENTRIFUGAL INLINE SQF AND SQF-T (TWO SPEED)

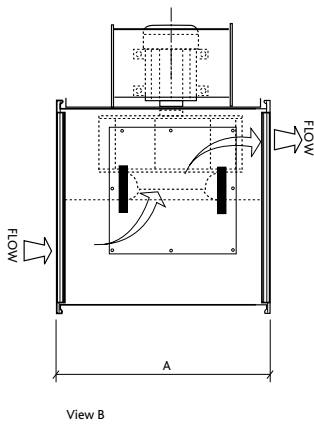
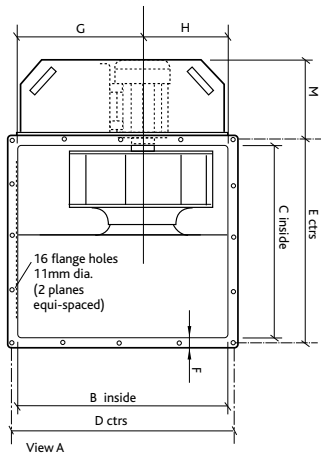


**CODING** SQF41-3

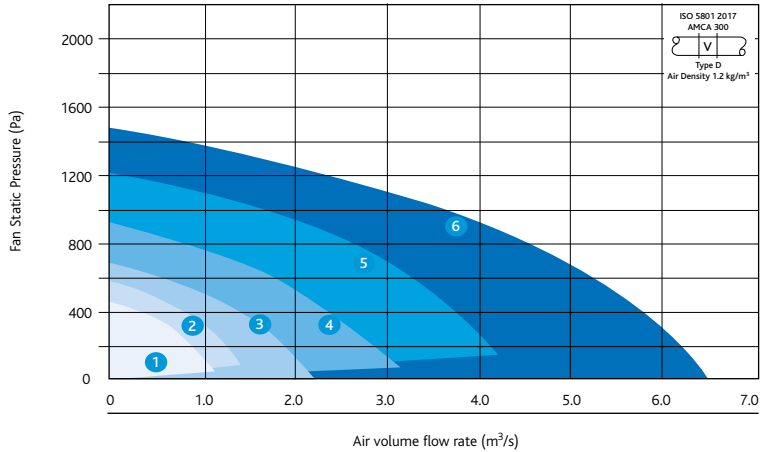
SQF 4 1 - 3  
| | | |  
1 2 3 4

**SAMPLE CODING**

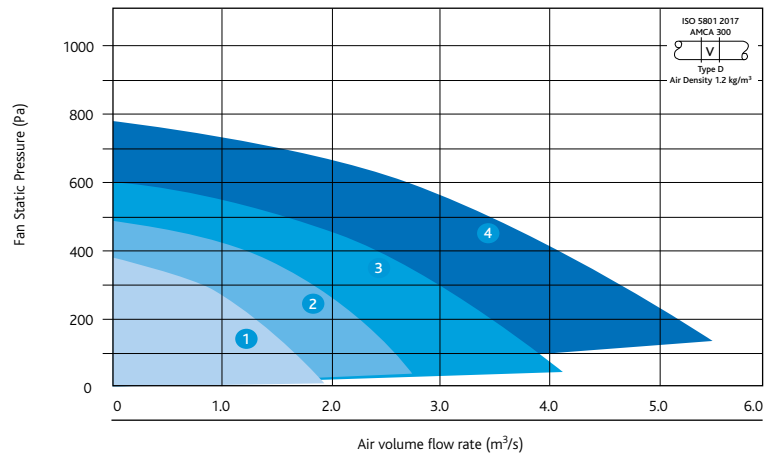
- 1 - SQF - Squif range/ SQF-T - Two speed Squif range
- 2 - Pole (4/6)
- 3 - Curve number
- 4 - Phase (1 or 3)
- 5 - G-460v, J-380v



**Squif - 4 pole**



**Squif - 6 pole**





**DIMENSIONS (MM) AND WEIGHT (KG)**

MODEL	A	B	C	D	E	F	G	H	M	WEIGHT KG
SQF41	634	500	500	532	532	26	273	227	215	52
SQF42	692	700	600	730	630	32	382	318	231	60
SQF43	750	750	650	780	680	32	412	338	231	70
SQF44	820	800	700	830	730	32	440	360	290	100
SQF45	901	900	800	930	830	32	490	410	387	150
SQF46	994	1000	900	1030	930	32	546	484	387	255
SQF61	820	800	700	830	730	32	440	360	290	100
SQF62	901	900	800	930	830	32	490	410	387	150
SQF63	994	1000	900	1030	930	32	546	454	387	255
SQF64	1114	1100	1000	1130	1030	32	600	500	450	315

**AMBIENT**

CODE	PHASE	RPM SPEED	MOTOR CURRENTS		SOUND POWER LEVELS RE 1 PWATT (Hz) INDUCT INLET								dB(A) @3M
			FLC	SC (DOL)	63	125	250	500	1K	2K	4K	8K	
SQFA41-3J	3	1700	2.26	12	91	94	83	74	74	74	73	66	54
SQFA42-3J	3	1700	3.2	21	89	96	86	81	78	80	79	71	53
SQFA43-3J	3	1730	6	45	93	99	87	83	81	82	82	75	56
SQFA44J	3	1730	10.3	74	87	97	93	86	81	84	84	75	58
SQFA45J	3	1740	18.3	102	93	103	91	89	89	88	87	85	62
SQFA61J	3	1130	4.7	10	85	93	88	79	74	77	77	68	47
SQFA62J	3	1130	12	67	91	100	87	82	80	79	78	76	56
SQFA63J	3	1150	4.8	27	91	104	91	83	80	80	81	77	59
SQFA64J	3	960	20	112	92	107	95	86	83	81	81	78	62

**HIGH TEMPERATURE**

SQF41-3J	3	1700	2.4	10.8	91	94	83	74	74	74	73	66	54
SQF42-3J	3	1720	3.7	20	89	96	86	81	78	80	79	71	53
SQF61J	3	1100	4.7	21	85	93	88	79	74	77	77	68	47
SQF62J	3	1100	3	13.2	91	100	87	82	80	79	78	76	56
SQF63J	3	1160	10.6	63	91	104	91	83	80	80	81	77	59

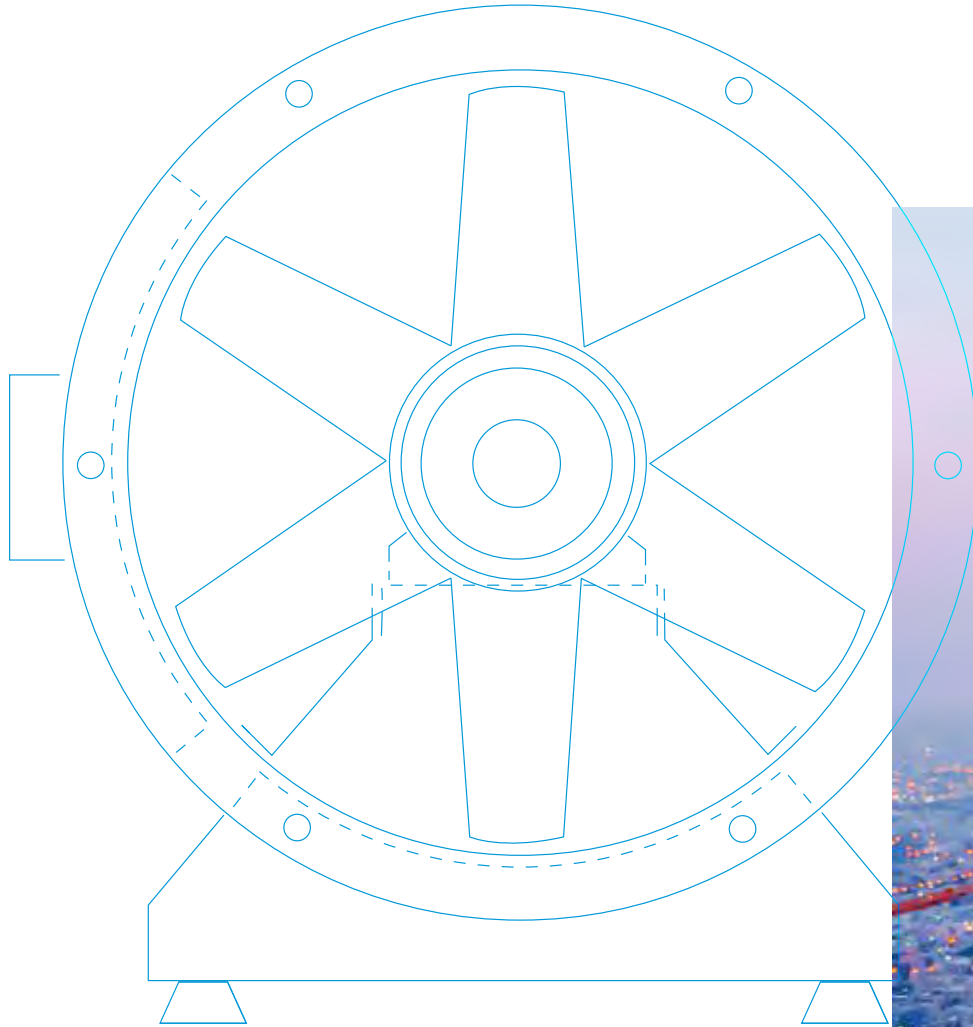
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SQF63G	3	1160	10.6	63	91	104	91	83	80	80	81	77	59

\*\* Two speed options are available, contact Nuair for details.



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