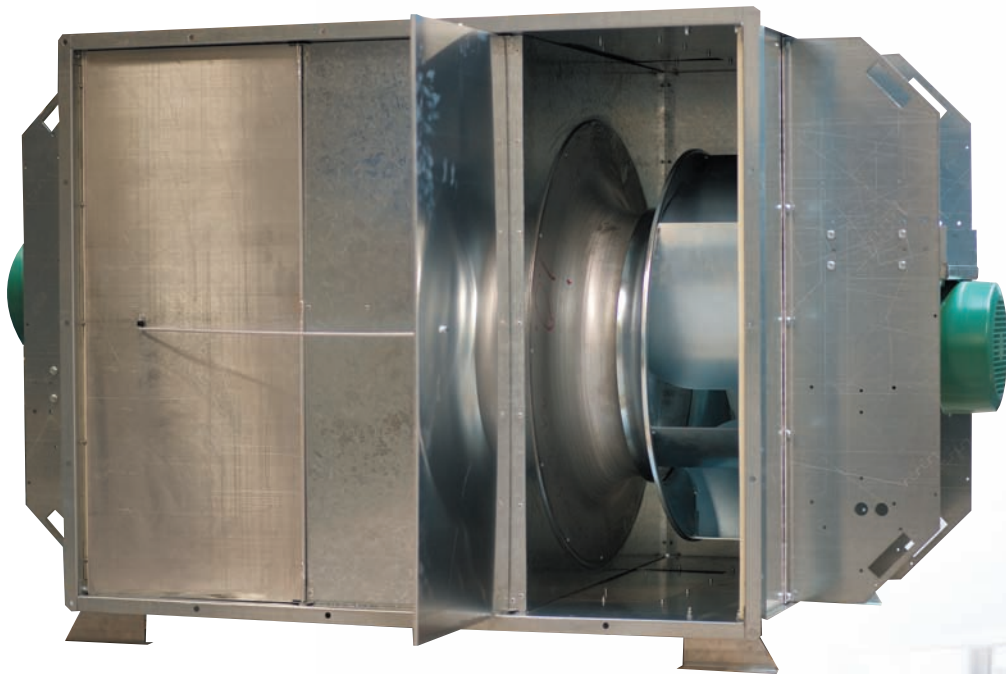


HIGH TEMPERATURE TWIN SQUIF FANS

HIGH TEMPERATURE TWIN SQUIF FOR SMOKE EXTRACT
CERTIFIED TO EN12101-3-2002.



BENEFITS

QUIET AND POWERFUL SOLUTIONS

High performance centrifugal motor/impeller combination providing a low noise solution.

CLEANER

'Out of air stream' motors are ideal for dirty extract and greasy environments. Cleaner motor improves cooling and extends motor life.

HIGH TEMPERATURE APPLICATION

Capable of running continuously at 90°C. Ideal for kitchen canopy applications with a one off 400°C for 2 hours.

EASY MAINTENANCE

'Out of air stream' motors allow for quick and easy access. Inspection hatches allow the internal parts to be easily checked and cleaned.

IDEAL FOR HIGH RESISTANCES

High efficiency centrifugal impellers provide high pressure development suitable for ducted systems and kitchen canopy with extreme filtration.

PREVENTS INTERNAL RECIRCULATION

Backdraft dampers inbuilt.

FLEXIBLE SOLUTION

Can be mounted internally, externally, vertically or horizontally. Mounting facilities included.

FAILURE DETECTION

Inverter detects fan failure and Ecosmart control sends signal to 2nd fan.

CONTROL BY OTHERS

FAN TO SUIT ALL APPLICATIONS

2-speed motors available for day to day extract.

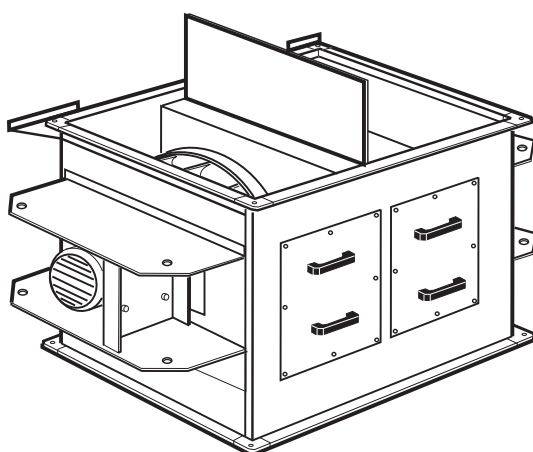
WARRANTY

Twin Squif has a 3 year warranty.

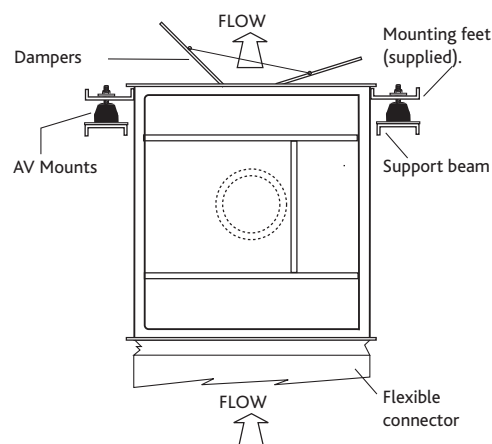
Note: Please contact Nuaire for high temperature enquiries.

Note: For information on Gas Interlock please refer to Single Fan section.

TYPICAL INSTALLATIONS



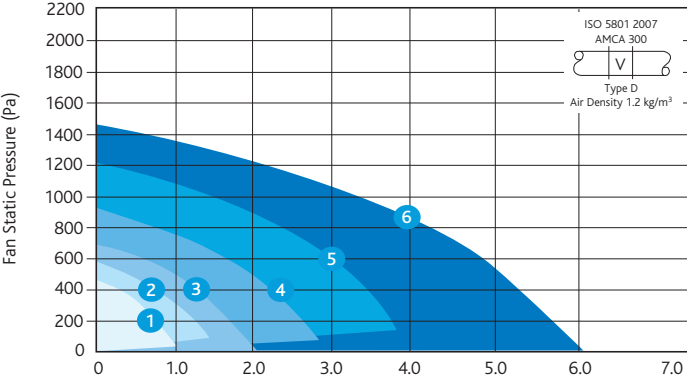
AV mounts fitted to unit mounting feet (supplied) in horizontal discharge mode.



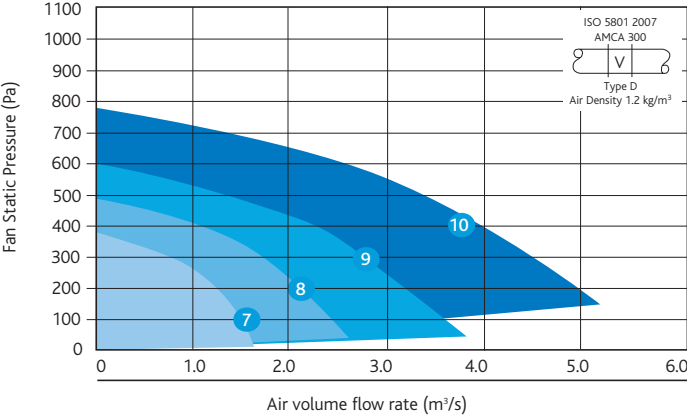
Unit in vertical discharge mode, mounted on support beam using AV mounts.

PERFORMANCE - HIGH TEMPERATURE TWIN SQUIF FANS

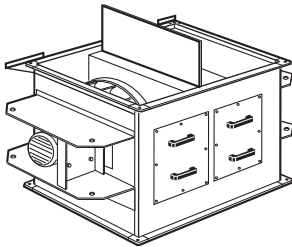
Twin Squif - 4 pole



Twin Squif - 6 pole



Casing



Code descriptions

SQFT 4 1 - 3

1 2 3 4

- 1. High Temperature Twin Squif
- 2. Pole (4 or 6)
- 3. Curve No.
- 4. Phase (1 or 3)

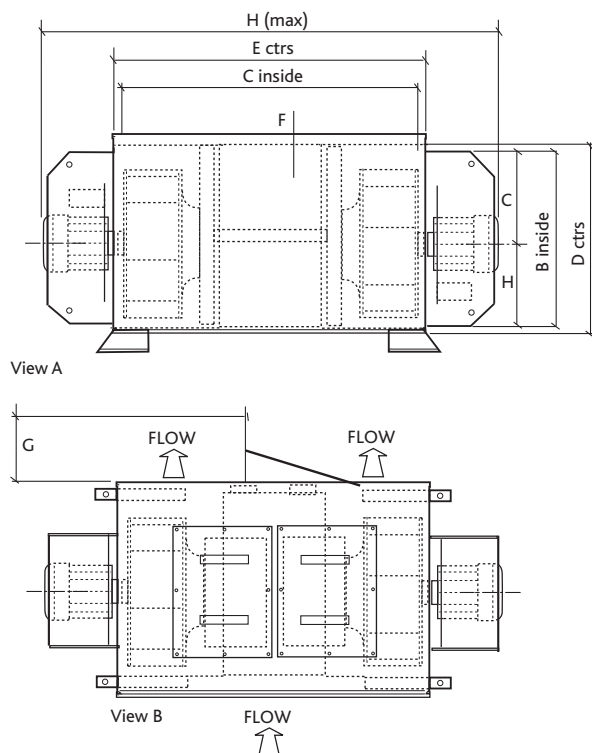
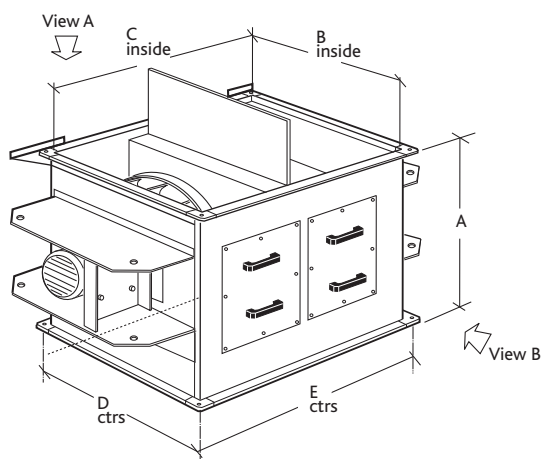
Note: curves include loss through idling fan.

PERFORMANCE - TWIN SQUIF EXTRACT FANS

ELECTRICAL & SOUND																
Curve	Code	Phase	RPM	Motor			Data Type	Induct inlet Sound Power levels dB re lpW								Breakout dBA@ 3m
				Power (kW)	FLC (amps)	SC (amps)		63	125	250	500	1K	2K	4K	8K	
1	SQFT41-1	1	1410	0.37	2.8	11.2	I	90	93	79	70	70	70	69	62	52
							O	87	94	74	68	74	75	70	64	
1	SQFT41-3	3	1450	0.37	1.06	5.2	I	90	93	79	70	70	70	69	62	52
							O	87	94	74	68	74	75	70	64	
2	SQFT42-3	3	1450	0.75	2.01	9.04	I	88	95	82	77	74	76	75	67	55
							O	85	96	78	74	78	80	77	69	
3	SQFT43-1	1	1420	1.1	7	35	I	92	98	83	79	77	78	78	71	58
							O	89	99	79	77	82	83	79	73	
3	SQFT43-3	3	1450	1.1	2.5	12	I	92	98	83	79	77	78	78	71	58
							O	89	99	79	77	82	83	79	73	
4	SQFT44	3	1450	2.2	4.8	28.8	I	86	96	89	82	77	80	80	71	58
							O	87	90	86	87	81	82	82	68	
5	SQFT45	3	1450	4	9	59	I	92	102	87	85	85	84	83	81	63
							O	90	103	83	82	89	89	84	83	
6	SQFT46	3	1450	7.5	15.2	108	I	92	106	92	86	86	85	86	83	64
							O	95	95	90	91	89	87	87	81	
7	SQFT61	3	960	0.75	2.1	8.82	I	84	92	84	75	70	73	73	64	48
							O	85	86	81	80	74	75	75	61	
8	SQFT62	3	960	1.1	3	13.2	I	90	99	83	78	76	75	74	72	58
							O	87	100	78	76	80	79	75	74	
9	SQFT63	3	960	2.2	5.9	28.9	I	90	103	87	79	76	76	77	73	61
							O	87	104	82	77	80	80	78	75	
10	SQFT64	3	960	4	9.4	61.2	I	91	106	91	82	79	77	77	74	64
							O	88	107	86	80	83	82	78	76	

Breakout dBA@3m is hemispherical free field. The electrical and sound information in the table are nominal figures.

DIMENSIONS - TWIN SQUIF FANS

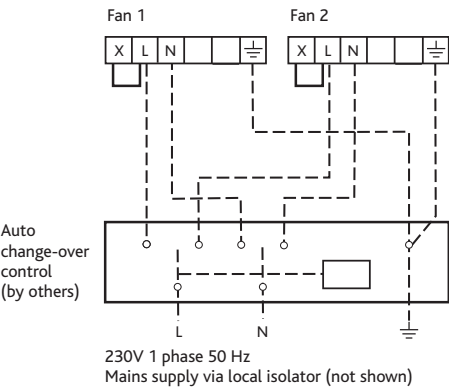


DIMENSIONS (mm) & WEIGHT

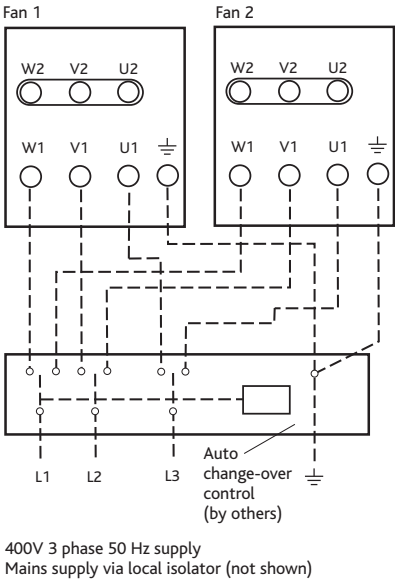
Unit Size	A	B	C	D	E	F	G	H	Motor (kW)	Total Fan Weight (Kg)	AV selection	Mounting Orientation
SQFT41-3	634	500	710	529	741	26.5	223.5	1110	0.37	52	NAV3/A	Horizontal discharge or vertically up discharge.
SQFT41-1	634	500	710	529	741	26.5	223.5	1110	0.37	52	NAV3/A	
SQFT41-3ES	634	500	710	529	741	26.5	223.5	1110	0.37	80	NAV3/A	
SQFT42-3	692	700	780	730	811	32	248	1220	0.75	77	NAV3/A	
SQFT42-3ES	692	700	780	730	811	32	248	1220	0.75	77	NAV3/A	
SQFT43-3	750	750	882	780	913	32	278	1382	11	102	NAV3/A	
SQFT43-1	750	750	882	780	913	32	278	1382	11	102	NAV3/A	
SQFT43-3ES	750	750	882	780	913	32	278	1382	11	102	NAV3/A	
SQFT44	820	800	970	830	1001	32	303	1550	2.2	100	NAV3/A	
SQFT61	820	800	970	830	1001	32	303	1550	0.75	111	NAV3/A	
SQFT44ES	820	800	970	830	1001	32	303	1550	2.2	100	NAV3/A	Horizontal discharge only.
SQFT61ES	820	800	970	830	1001	32	303	1550	0.75	111	NAV3/A	
SQFT45	901	900	1075	930	1106.5	32	333	1655	4.0	150	NAV3/A	
SQFT62	901	900	1075	930	1106.5	32	333	1655	1.1	141	NAV3/A	
SQFT45ES	901	900	1075	930	1106.5	32	333	1655	4.0	150	NAV3/A	
SQFT62ES	901	900	1075	930	1106.5	32	333	2070	1.1	141	NAV3/A	
SQFT46	994	1000	1230	1030	1261	32	383	2070	7.5	315	NAV6/A	
SQFT63	994	1000	1230	1030	1261	32	383	2070	2.2	180	NAV3/A	
SQFT46ES	994	1000	1230	1030	1261	32	383	2070	7.5	315	NAV6/A	
SQFT63ES	994	1000	1230	1030	1261	32	383	2070	2.2	180	NAV3/A	
SQFT64	1114	1100	1380	1130	1411	32	433	2220	4.0	580	NAV52	
SQFT64ES	1114	1100	1380	1130	1411	32	433	2220	4.0	580	NAV52	

WIRING - TWIN SQUIF FANS

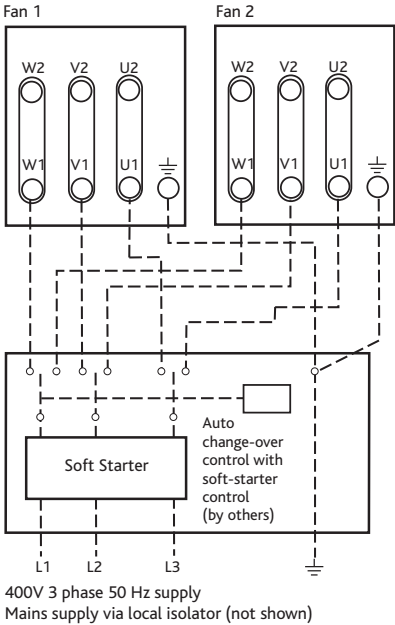
Single Phase Fans - Constant Speed



Three phase fans Single speed -
motors up to 3kW inclusive



Single speed -
motors 4kW or above



CONSULTANTS SPECIFICATION

SYSTEM SPECIFICATION

The ventilation fan Unit shall be configured and arranged as detailed on the drawings and in accordance with the schedule of equipment and shall be of the SQUIF type as manufactured by Nuaire. The units shall be manufactured heavy gauge Aluzinc corrosion resistant steel.

The general construction is to class A leakage.

FAN SPECIFICATION

The fan impeller and motor shall be selected to provide the most energy efficient solution conforming to part L regulations and shall be direct drive with IE2 high efficiency motors to BS5000 as standard. The fan impeller shall be a high efficiency backward curved centrifugal design, manufactured in galvanised steel and the motor shall be positioned outside the ventilation airflow path.

The unit shall be capable of continuous operation at 90°C and a one off operation at up to 400°C for a period of 2 hrs certified to EN12101-3. The unit has been independently tested for high temperature operation by BSRIA and certified by BSI. This shall be achieved using a standard non-temperature rated motor. The unit is suitable for non-smoke reservoir applications.

Run and standby fan assemblies to incorporate fan impeller and motors selected to provide the most energy efficient solution conforming to part L regulations and shall be direct with IE2 high efficiency motors to EN60034-30 as standard, belt or direct drive with EN60034-30 motors fitted with "hall effect" air flow failure monitoring, units suitable for operation in ambient temperatures of 40°C.

The contractor shall allow for all necessary ductwork transformations to and from the fan unit and any associated components in accordance with the manufacturers recommendations, DW 144 and general good practice. The unit and ancillaries shall be of the SQFT type as manufactured by Nuaire Ltd.

CONTROL

Auto change over and emergency operation controlled by others.

All equipment shall be as manufactured by Nuaire Ltd.