



# 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.





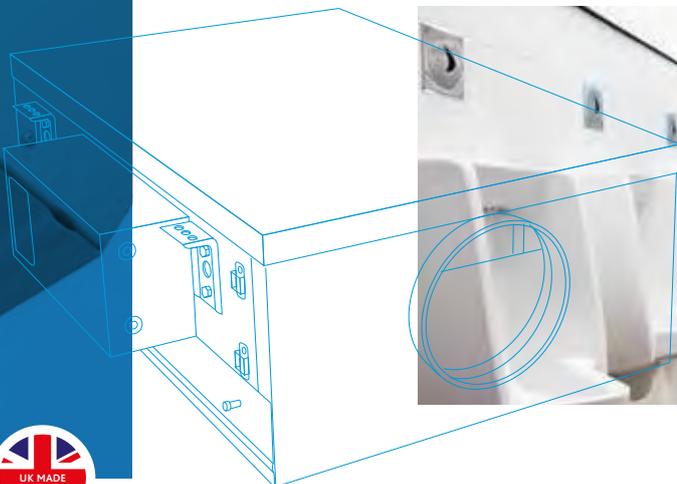
# TWIN INTERNAL DUCT MOUNTED - AIREVOLVE

**Internal inline EC twin fans** from Nuaire which meets latest current UK legislation and building regulations. Very low noise and SFPs with built in energy efficient Ecosmart control. Powerful yet compact, the ideal solution for **high performance extract 24/7**. The range is Class L2 leakage. Duty up to 1.7m<sup>3</sup>/s. Market leading twin fan design is ideal for restricted ceiling void applications, alternatively its patented design can be mounted in any orientation, making it ideal for plant rooms.



## KEY BENEFITS:

- **RETAINED ACCESS PANEL** - LOWERS AND SLIDES UNDER MATCHED SILENCERS WHERE APPLICABLE. (INTERNAL UNITS ONLY)
- **LATEST EC MOTOR TECHNOLOGY** GUARANTEES LONGER LIFE AND LOWER SFPs
- **CONSTANT PRESSURE OPTION** IMPROVES THE ENERGY PERFORMANCE OF THE OVERALL BUILDING AND GUARANTEES LOWER ENERGY COSTS FOR END USERS
- **DOUBLE WALLED PANEL** WITH 35MM ACOUSTIC LINING ENSURES LOWEST BREAKOUT
- **MANUFACTURED FROM CORROSION RESISTANT ALUZINC**
- **INNOVATIVE NEW FAN DESIGN** - IN-LINE FAN ASSEMBLY PROVIDES OPTIMUM PERFORMANCE IN MINIMAL SPACE
- **12 HOUR AUTO CHANGEOVER** GUARANTEES VENTILATION 24/7 IN EVENT OF FAN/MOTOR FAILURE AND EXTENDS LIFE OF FAN
- **QUALITY AND RELIABILITY GUARANTEED**
- **SUPPLY & EXTRACT UNIT** CAN BE INTERLINKED WITH A TWIN FAN TO PROVIDE A CONTROLLABLE COST EFFECTIVE SOLUTION



60Hz



## CONSULTANTS SPECIFICATION



### CASING

Heavy gauge, corrosion resistant Aluzinc steel, internally coated acoustic material.



### MOTOR

Motors and EC motors selected to provide the most energy efficient solution conforming to Part L regulations. Direct or belt drive high efficiency motors to BS5000 as standard, belt or direct drive with EN60034-30 motors fitted with Hall effect air flow failure monitoring.



### CERTIFICATION AND OPERATING TEMPERATURE

Suitable for operation in ambient temperatures of 40°C.



### IMPELLER

Impellers shall be of high efficiency, performance and sound optimised backward curved centrifugal design.



### INSTALLATION

The fan should be with an 'inline assembly', positioned in series for optimum performance. Suitable for horizontal and vertical installation.



### PERFORMANCE

Run and standby fan assemblies to incorporate fan impeller units. The twin fan is controlled by an integrated Ecosmart control panel mounted within the fan unit. All components are pre-wired and fitted.



### NOISE

SPIGOT Fan and matching silencer system reduces breakout and guarantees a superior acoustic solution.



### ANCILLARIES

- Anti-vibration mounts
- Matched silencers
- Flexible connectors
- Vertical support brackets



### APPLICATIONS

- Washrooms
- Offices
- Student accommodation
- Hotels
- Hospital
- Supermarkets
- Apartments and flats



### MAINTENANCE

Hinged pitch roof for maintenance/service and pressure tapping.



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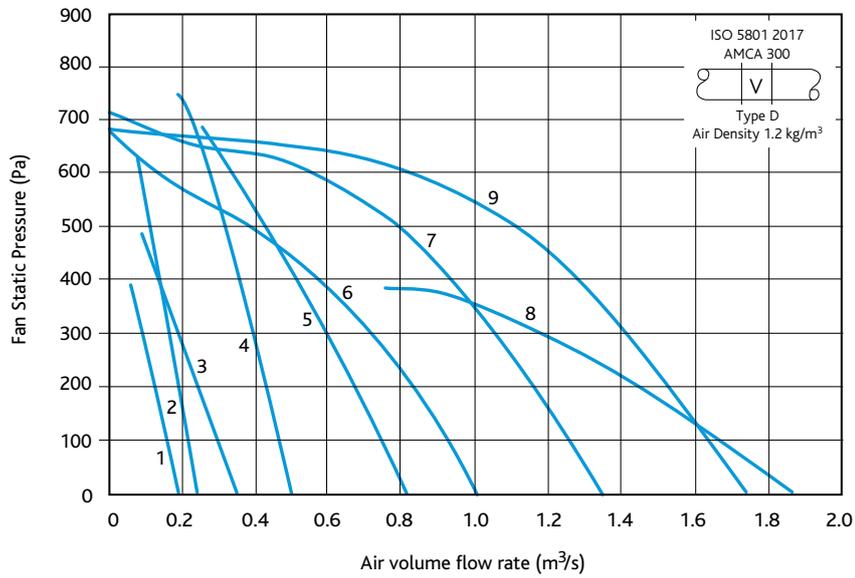
CODING AVT1H

AV	T	1	H
1	2	3	4

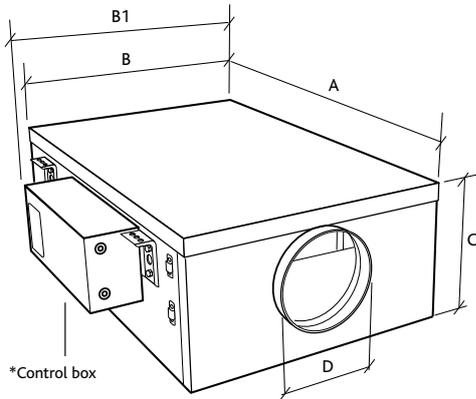
SAMPLE CODING

1. AV - Airevolve fan range
2. T - Twin fan
3. 1 - Product case size (1-9)
4. H - 220v

AIRE-VOLVE AVT 1 - 9



DIMENSIONS (MM) WEIGHT (KG)



MODEL	A	DIM A + SPIGOT LENGTH (INC. 100MM)	B	DIM B1 + CONTROL (INC. 108MM)	C	SPIGOT D (DIA)	WEIGHT
AVT1H	931	1031	544	652	250	200	46
AVT2H	968	1068	543	652	285	200	48
AVT3H	1186	1286	681	789	334	250	67
AVT4H	1229	1329	681	789	376	315	68
AVT4LH	1531	1631	827	931	401	315	100
AVT5H	1531	1631	827	935	433	315	102
AVT6H	1729	1829	921	1029	545	400	153
AVT7H	1892	1992	1019	1127	575	400	179
AVT8H	2238	2338	1244	1352	615	500	267
AVT9H	2238	2338	1244	1352	615	500	244

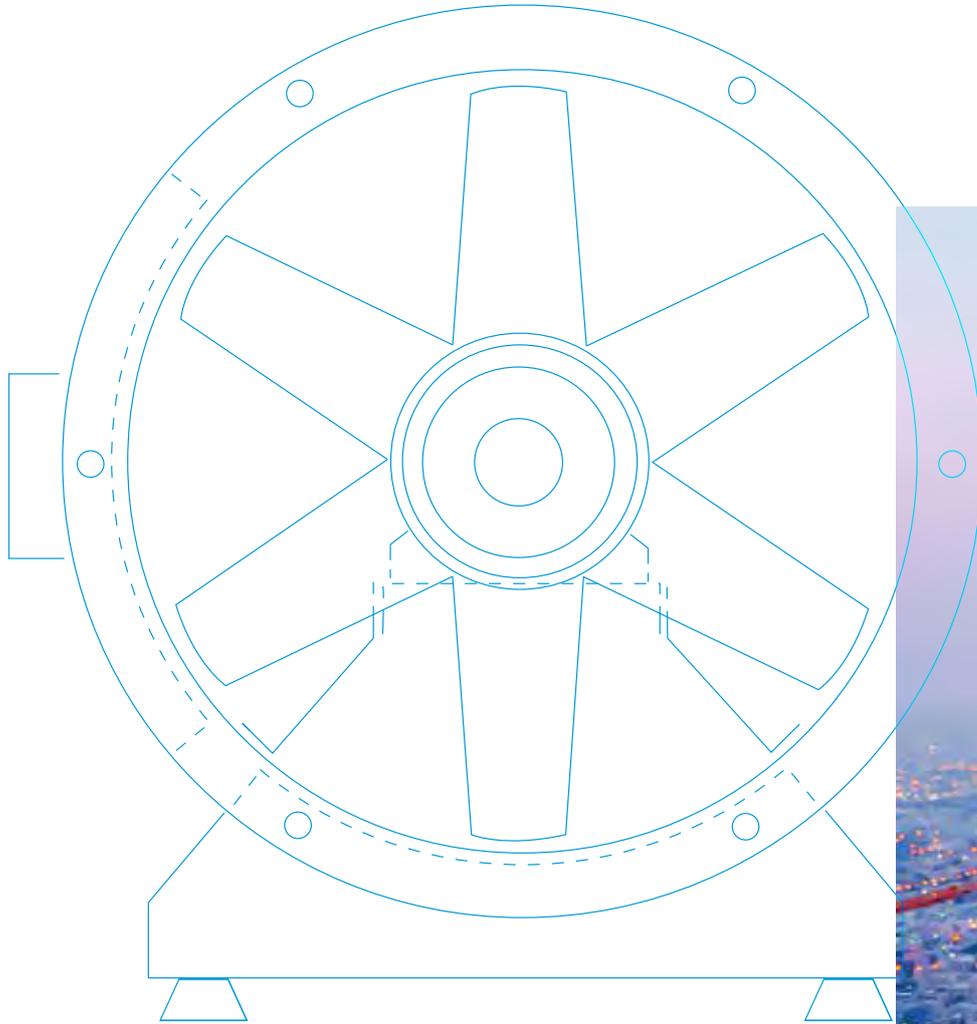
SPIGOT TO SPIGOT

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	
AVT1H	1	3300	0.75	0.75	73	68	62	63	59	56	52	50	20
AVT1-XH	1	3300	0.75	0.75	75	69	64	65	61	57	53	51	25
AVT2H	1	4000	1.4	1.4	79	74	68	69	65	62	58	56	26
AVT2-XH	1	4000	1.4	1.4	81	75	70	71	67	63	59	57	31
AVT3H	1	2500	1.35	1.35	77	74	79	67	63	59	53	51	30
AVT3-XH	1	2500	1.35	1.35	79	75	81	69	65	60	54	52	35
AVT4H	1	3400	3.1	3.1	83	79	80	82	78	74	70	67	36
AVT4LH	1	1700	1.1	1.1	72	70	67	66	60	58	54	50	29
AVT4-XH	1	3400	3.1	3.1	85	80	82	84	80	75	71	68	41
AVT4L-XH	1	1700	1.1	1.1	72	67	67	66	60	57	53	48	29
AVT5H	1	2400	2.6	2.6	74	71	69	68	62	61	57	52	25
AVT5-XH	1	2400	2.6	2.6	76	72	71	70	64	62	58	53	30
AVT6H	1	1700	2.9	2.9	77	80	74	72	66	65	61	54	30
AVT6-XH	1	1700	2.9	2.9	79	81	76	74	68	66	62	55	34
AVT7H	1	1700	3.5	3.5	78	76	73	73	67	65	62	57	29
AVT7-XH	1	1700	3.5	3.5	80	77	75	75	69	66	63	58	34
AVT8H	1	1100	3.2	3.2	74	76	71	66	62	64	60	54	27
AVT8-XH	1	1100	3.2	3.2	76	77	73	68	64	65	61	55	32
AVT9H	3	1500	1.85	1.85	79	77	76	73	66	66	66	58	32
AVT9-XH	3	1500	1.85	1.85	81	78	78	75	68	67	67	59	37

SPIGOT TO GRILLE

AVT1-RH	1	3300	0.75	0.75	75	69	64	65	61	57	53	51	53
AVT2-RH	1	4000	1.4	1.4	81	75	70	71	67	63	59	57	59
AVT3-RH	1	2500	1.35	1.35	79	75	81	69	65	60	54	52	59
AVT4-RH	1	3400	3.1	3.1	85	80	82	84	80	75	71	68	72
AVT4L-RH	1	1700	1.1	1.1	72	67	67	66	60	57	53	48	53
AVT5-RH	1	2400	2.6	2.6	76	72	71	70	64	62	58	53	57
AVT6-RH	1	1700	2.9	2.9	79	81	76	74	68	66	62	55	62
AVT7-RH	1	1700	3.5	3.5	80	77	75	75	69	66	63	58	62
AVT8-RH	1	1100	3.2	3.2	76	77	73	68	64	65	61	55	58
AVT9-RH	3	1500	1.85	1.85	81	78	78	75	68	67	67	59	63

Constant Pressure Units are also available. Contact Nuair for details.



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