



VIGO 550A

Mechanical Ventilation
with Heat Recovery Unit

VIGO 550A

Product Overview



- Aesthetically pleasing, white powder coated metal outer casing.
- Electronic “handing” function aids installation and avoids unsightly duct connections
- EPP internal structure to reduce sound emissions, maximise air tightness and improve thermal and electrical efficiency
- Intelligently controlled automatic summer / winter bypass facility providing comfort and heat recovery optimisation
- Complies with the requirements of all UK Building Regulations and also NHBC Chapter 3.2 user control and indication requirements
- Independently tested by BRE
- User control and indication Panel with LCD readout which can be mounted adjacent to, or remote from, the unit
- F7 air supply filter and G4 grade extract air filter
- Automatic frost protection prevents freezing within the unit
- Double condensate holes for heating and cooling condensate drainage

Application

A continuously running Mechanical Ventilation with Heat Recovery (MVHR) system simultaneously extracts air from wet rooms such as kitchens and bathrooms, while supplying fresh, filtered air to the habitable rooms such as living rooms and bedrooms. MVHR is widely recognised as the very best method of ventilating modern new-build or refurbished, energy efficient homes.

The VIGO 550A is highly efficient and ultra quiet with a range of control and indication features. The unit’s counterflow high efficiency heat exchanger, with bypass facility operated automatically by advanced controls, provides warm or cool filtered fresh air as required to help maintain the internal environmental conditions required.

Operation / Control

The VIGO 550A is a highly flexible unit which can be set to work in various operating modes to suit the individual requirements of each project. The VIGO 550A is supplied with a control panel providing full commissioning, control and indication

functions. Commissioning, control and indication functions include:

- 3 Airflow speed settings (each fully adjustable)
- Boost option
- Holiday mode
- Night mode
- Airflow “handing” and balancing
- Automatic heat exchanger bypass facility
- Filter replacement, fan failure and bypass activated mode indication
- Working hour counter
- Setting saving and loading facility
- Volt free contacts for remote ambient sensors
- BMS connection control facility
- Integral switched live terminal for boosting from remote switch

The unit can also be provided with automatic humidity control if required.

Warranty

Each VIGO 550A has a 5 year warranty as standard.*

Contents

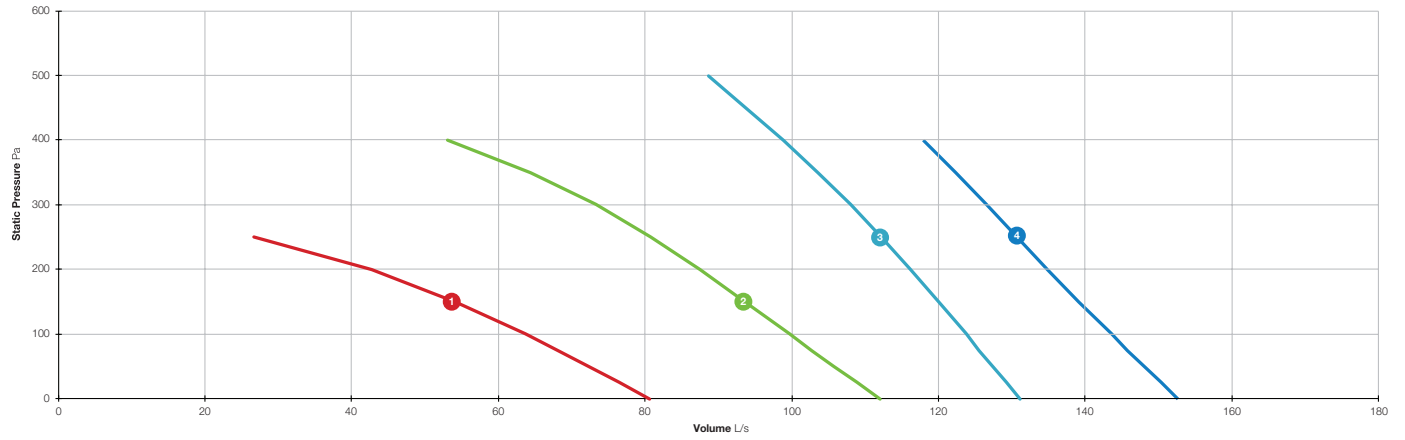
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*First year of warranty covers parts and labour. Following this period the warranty covers replacement parts only. Warranty is subject to inspection and maintenance having been carried out in accordance with our literature and terms and conditions of sale. Proof of purchase, periodic inspection and maintenance will be required in the event of any warranty claim.

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Performance Range Curves



- 1 VIGO 550A 4V (40% Speed)
- 2 VIGO 550A 6V (60% Speed)
- 3 VIGO 550A 8V (80% Speed)
- 4 VIGO 550A 10V (100% Speed)

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Performance, SFP & Electrical Data

Single Phase 230V to 240V / 50Hz or 60Hz

Model	Airflow L/s max	Power W max	SFP W/(L/s)	Sound Pressure dB(A) @3m	Heat Exchange Efficiency %	Ambient Temperature °C max
VIGO 550A	152	342	0.56	34	93.0	40

BRE Test Result

Kitchen + n Wet Rooms	Flow Rate L/s	SFP W/(L/s) (2009)	Efficiency (%) (2009)	Flow Rate L/s	SFP W/(L/s) (2012)	Efficiency (%) (2012)
n = 1	15	0.57	93	21	0.56	93
n = 2	21	0.51	93	29	0.58	93
n = 3	27	0.52	93	37	0.63	91
n = 4	33	0.58	92	45	0.74	91
n = 5	39	0.65	91	53	0.87	90
n = 6	45	0.72	91	61	1.04	89
n = 7	51	0.83	90	69	1.22	89

The NCM (SAP) identifier for this product is:
Technology Type Ventilation, Technology Category MVHR, Brand Name Elta Fans, Model Name VIGO 550.

550V, 50Hz. Air performance measured according to ISO 5801.
Thermal efficiency and air-tightness details have been measured at BRE independent laboratory.
Sound pressure level at 3m in free field, 40% speed.

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Sound Data

Single Phase 230V to 240V / 50Hz or 60Hz

Product Code	Configuration		Sound Power Level dBW @ Octave Band Hz								dBA @ 3m	
			63 Hz	125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz		Total
VIGO 550A	10V (100% Speed)	Extract from home	77	72	69	74	58	50	39	35	80	51
		Exhaust to outside	83	81	76	85	72	63	55	54	88	62
		Intake from outside	79	72	68	70	57	49	38	35	80	48
		Supply to home	85	82	76	88	72	65	60	67	91	65
		Breakout	64	63	63	74	62	56	45	33	75	51
	8V (80% Speed)	Extract from home	73	69	65	71	54	44	32	28	76	48
		Exhaust to outside	80	80	74	82	70	61	55	57	86	59
		Intake from outside	76	69	68	67	56	48	38	35	78	46
		Supply to home	80	78	77	83	65	58	53	60	86	60
		Breakout	65	62	62	71	60	53	43	31	73	48
	6V (60% Speed)	Extract from home	66	66	72	68	49	38	25	20	75	47
		Exhaust to outside	76	76	77	75	64	55	50	47	82	54
		Intake from outside	76	69	68	67	56	48	38	35	78	45
		Supply to home	74	73	76	65	56	50	47	55	79	49
		Breakout	57	57	69	61	52	46	35	27	70	42
	4V (40% Speed)	Extract from home	62	61	60	52	38	27	16	16	66	33
		Exhaust to outside	68	70	72	61	53	45	36	29	75	44
		Intake from outside	61	62	61	52	40	32	24	20	66	34
		Supply to home	65	71	66	56	46	40	28	23	73	40
		Breakout	52	54	61	52	44	37	28	23	63	34

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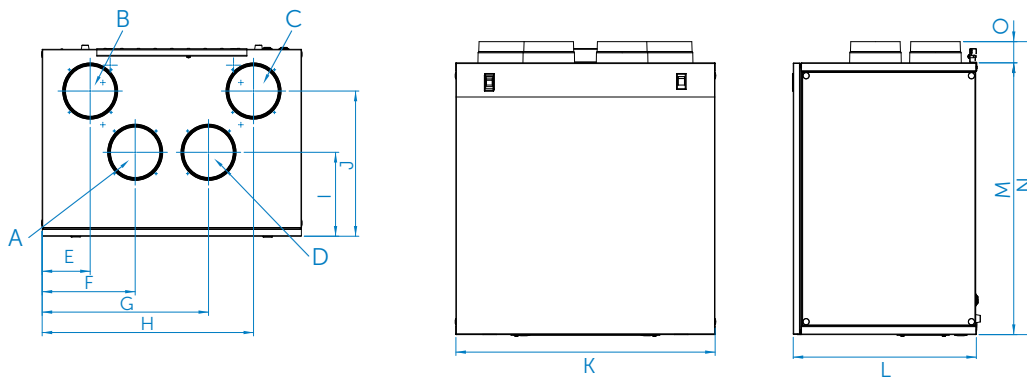
Dimensional Data & Spigots Handing

Spigots Handing

Spigot	Left Handed	Right Handed
A	Intake from outside	Extract from home
B	Exhaust to outside	Supply to home
C	Supply to home	Exhaust to outside
D	Extract from home	Intake from outside

Dimensional Data

Product Code	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
VIGO 550A	150	150	150	150	144	279	499	634	247	427	778	550	799	861	62



Dimensions are in mm.

Building Services

Tel **+44 (0) 1384 275800**
Fax **+44 (0) 1384 275810**
Email **info@eltafans.co.uk**

46 Third Avenue, Pensnett Trading Estate, Kingswinford,
West Midlands, DY6 7US United Kingdom

Applied Technology & Building Services Export

Tel **+44 (0) 1489 566500**
Fax **+44 (0) 1489 566555**
Email **at@eltafans.co.uk / export@eltafans.co.uk**

17 Barnes Wallis Road, Segensworth East Industrial Estate,
Fareham, Hampshire, PO15 5ST United Kingdom

eltafans.com

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