aerofresh

500 HRV

Creating Healthier Indoor Air Quality

The **Aerofresh 500** is a next generation heat recovery ventilation system that provides a healthier and more comfortable indoor space. It suits medium to large size homes and includes a high efficiency counter-flow heat exchanger with up to 93% efficiency.

FANTECH

Intelligent Ventilation

High Efficiency Heat Recovery System

The Aerofresh 500 is a highly effective heat recovery ventilation system that provides a constant supply of clean, tempered air and stable humidity levels. It delivers market leading performance including efficient heat recovery (up to 93% efficiency), low noise generation and reduced power consumption. Temperature sensors allow the unit to respond automatically to changing conditions and deliver low maintenance trouble free operation.

The Aerofresh 500 extracts the heat energy, which would have otherwise been lost through the normal exhaust processes, and transfers this to the fresh, filtered supply air which is drawn in from outside.

Features

- Designed to be vertically mounted inside a wardrobe or installed in areas such as the laundry or garage
- Boost function enables rapid extraction of increased moisture or pollutant levels
- Automatic bypass for free cooling during the summer season
- Anti-frost protection to prevent frost build-up
- EC motor for increased energy efficiency and step less speed control
- Long lasting powder coated galvanised sheet metal construction
- Highly efficient counter flow heat exchanger that can recover up to 93% of heat
- Can be connected to a BMS via Modbus RTU for easy system control and monitoring
- Complies with European ErP Directive, Regulations 1253/2014 – 1254/2014 (HRV performance standards)
- Accepts inputs from IAQ sensors and has outputs to drive post heating and dehumidification
- 3rd party products

European Made

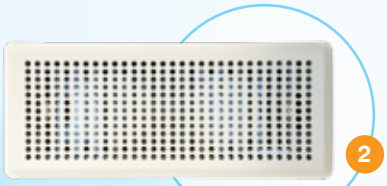
Heat Exchanger

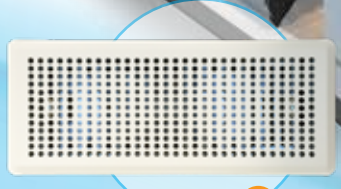
Energy Saver

Quiet Operation

Aerofresh 500 HRV System

1. Semi-rigid circular ducting
2. Air inlet (Grilles in white or silver)
3. Air extract (Grilles in white or silver)
4. Silencer/Manifold
5. Aerofresh 500
6. Insulated ducting





aerofresh 500 HRV

How it works

- The Aerofresh 500 unit recovers thermal energy from air inside the building to preheat or precool the incoming fresh air
- Reduces moisture and pollutant levels to maintain a healthy indoor air quality
- Extracts the condensation to reduce mould growth risk
- Easy-to-fit air distribution system ensures each room is well ventilated
- The recovered thermal energy reduces the demand for additional heating and cooling

Aerofresh 500 Controller

Multi-function remote control panel with LCD display, supplied as standard with the Aerofresh 500.

- Suitable for surface (wall) mounting
- 4 adjustable air flow levels
- Compatible with IAQ sensors such as humidity and CO_2
- Filter replacement alert
- 7 day scheduler enables set-up of operational periods
- Bypass mode (automatic)
- Frost protection mode

Included Controller

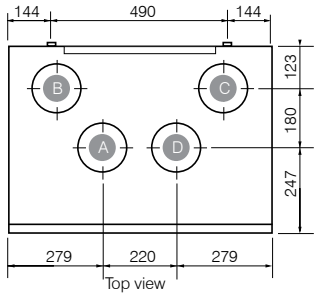
Specifications

Weight		44 kg
Ducting		4 X 150mm spigots
Condensate Connection		16mm (for tube connection)
Construction	**Internal body**	EPP (Polypropylene)
	Unit housing	Painted galvanised steel metal
Voltage		220-240 V
Fan motor		EC
Filters		Extract - G4 Supply -G4

Sound Data

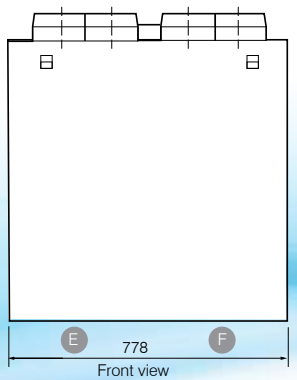
Sound Levels (dBA) @ 3m				
Operating Speed	40%	60%	80%	100%
Intake	39	46	47	51
Supply	35	42	43	45
Extract	34	42	44	47
Exhaust	39	45	46	50
Breakout	34	44	45	48

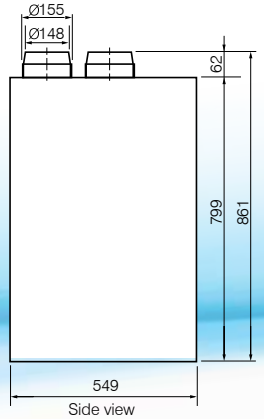
Dimensions



A	Intake air from outside
B	Exhaust air to outside
C	Supply air to inside
D	Extract air from inside
E	Winter condensation drainage
F	Summer condensation drainage

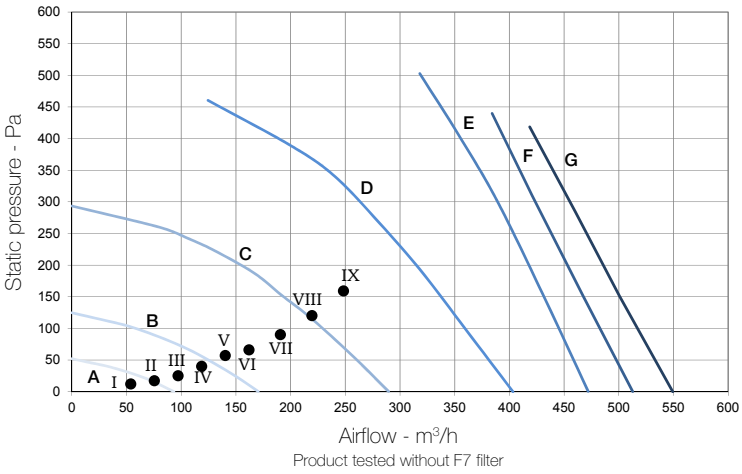
* Left orientation shown.
Can be also converted to right orientation





All dimensions in mm

Performance Data



Product tested without F7 filter

Curve	Speed %	W max	m³/h max
A (min)	23	10	94
B	32	24	170
C	46	68	289
D	60	150	403
E	75	286	472
F	90	311	513
G (max)	100	333	550

Working point	W	m³/h	SPI (W/m³/h)	ηt %(1)
I	8.6	54	0.1585	93
II	10.7	76	0.1413	93
III	13.9	97	0.1431	93
IV	19.3	119	0.1621	92
V	25.5	140	0.1818	91
VI	32.2	162	0.1990	91
VII	46.1	191	0.2414	90
VIII	63.4	220	0.2885	89
IX	84.5	248	0.3402	89

(1) Thermal efficiency of the unit

Scan the QR Code for more information

FANTECH
Intelligent Ventilation

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