

aerofresh

180 HRV

Creating Healthier Indoor Air Quality



The **Aerofresh 180** heat recovery system provides maximum comfort and healthier living spaces in buildings with high ventilation requirements. It uses a highly efficient counter-flow heat exchanger with up to 88% efficiency.



FANTECH
Intelligent Ventilation

Centralised Heat Recovery for Restricted Spaces

The Aerofresh 180 is a compact, energy efficient heat recovery ventilation system that is well suited to horizontal ceiling or false-ceiling mounted installations.

Aerofresh provides a healthier, well ventilated indoor space with simple and quiet operation. It recovers thermal energy from the exhausted air of wet rooms such as kitchens and bathrooms that would otherwise be lost. This heat is then transferred to the fresh, filtered supply air drawn in from outside.

It is achieved by using a highly efficient counter-flow heat exchanger with up to 88% efficiency.

Features

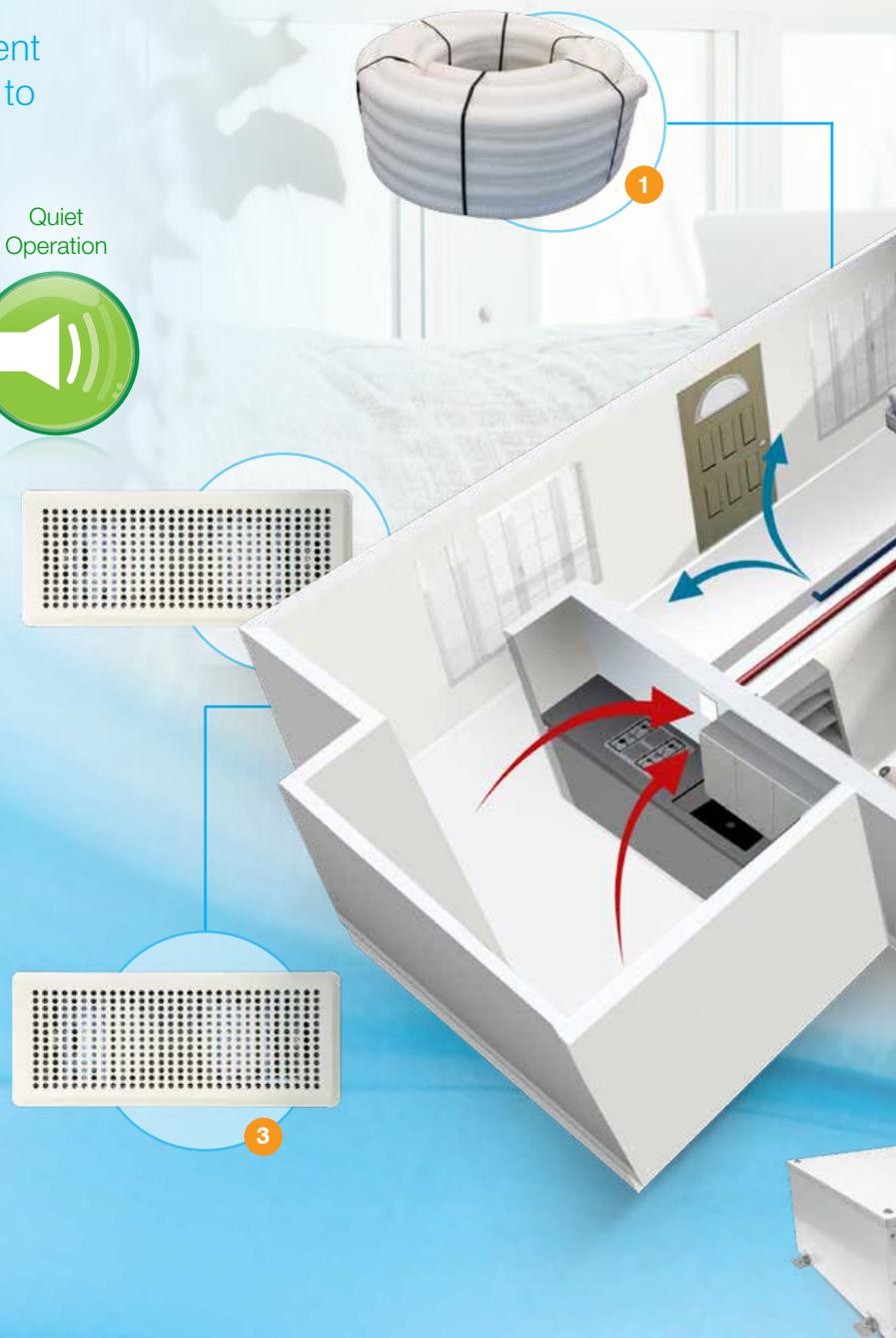
- Well suited to shallow ceiling voids with a minimum height of 269mm
- Boost function enables rapid extraction of increased moisture or pollutant levels
- Automatic bypass for free cooling during the summer season
- Anti-frost protection to prevent frost build-up
- EC motor for increased energy efficiency and stepless speed control
- Long lasting powder coated galvanised sheet metal construction
- 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



Aerofresh 180 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 180
- 6 Insulated ducting

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How it works

- The Aerofresh 180 unit recovers thermal energy from air inside the building to preheat or precool the incoming fresh air (depending on the season)
- Reduces moisture and pollutant levels to maintain a healthy indoor air quality
- Extracts the moisture 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 180 Controller

Multi-function remote control panel with LCD display, supplied as standard with the Aerofresh 180.

- Suitable for surface (wall) mounting
- 4 adjustable air flow levels
- Compatible with IAQ sensors such as humidity and CO₂
- Filter replacement alert
- 7 day scheduler enables set-up of operational periods
- Bypass mode (automatic)
- Frost protection mode



Included Controller

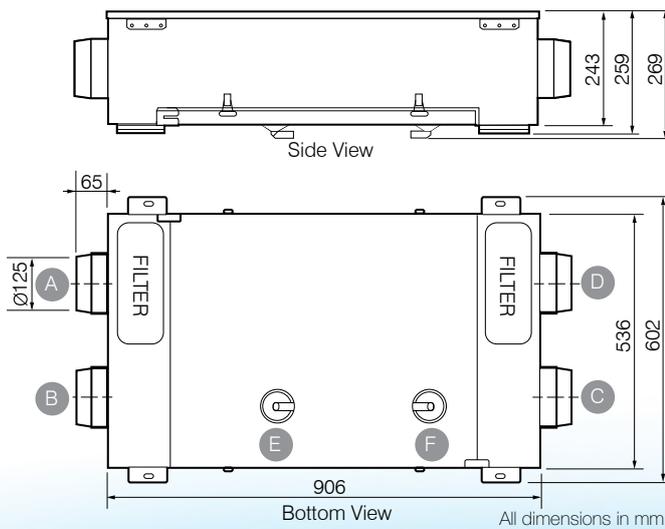
Specifications

Weight	20 kg	
Ducting	4 X 125mm spigots	
Condensate Connection	16mm (for tube connection)	
Construction	Internal body	EPP (Polypropylene)
	Unit housing	Painted galvanised sheet metal
Voltage	220-240 V	
Fan motor	EC	
Filters	Extract - G4 Supply -G4	

Sound Data

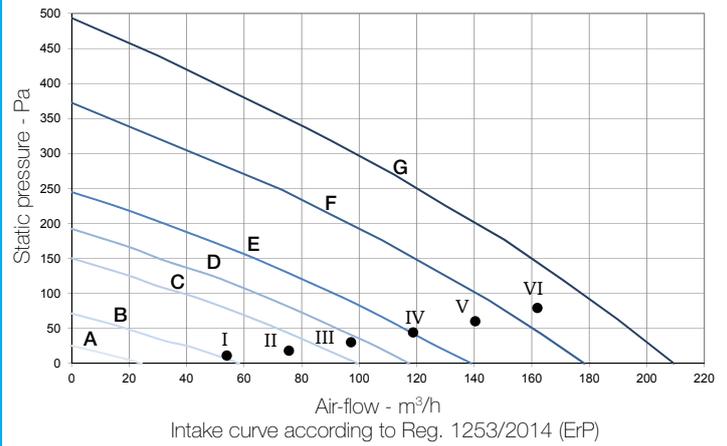
Sound Levels (dBA) @ 3m				
Operating Speed	40%	60%	80%	100%
Intake	24	34	41	45
Supply	21	30	37	41
Extract	21	30	37	41
Exhaust	26	34	40	44
Breakout	21	29	37	41

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

Performance Data



Curve	Speed %	W max	m ³ /h max
A (min)	20	10	24
B	35	15	58
C	53	28	100
D	60	36	117
E	70	47	139
F	85	77	178
G (max)	100	105	209

Working point	W	m ³ /h	SPI (W/m ³ /h)	ηt % ⁽¹⁾
I	15.2	54	0.28	88
II	23.7	76	0.31	86
III	32.8	97	0.34	84
IV	43.5	119	0.37	82
V	61.4	140	0.44	80
VI	81.3	162	0.50	79

(1) Thermal efficiency of the unit



Scan the QR Code for more information

www.mvhr.co.nz

www.energyrecovery.com.au



For sales enquiries contact:

Specifications and design subject to change without notice.

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