



AEROFRESH 180

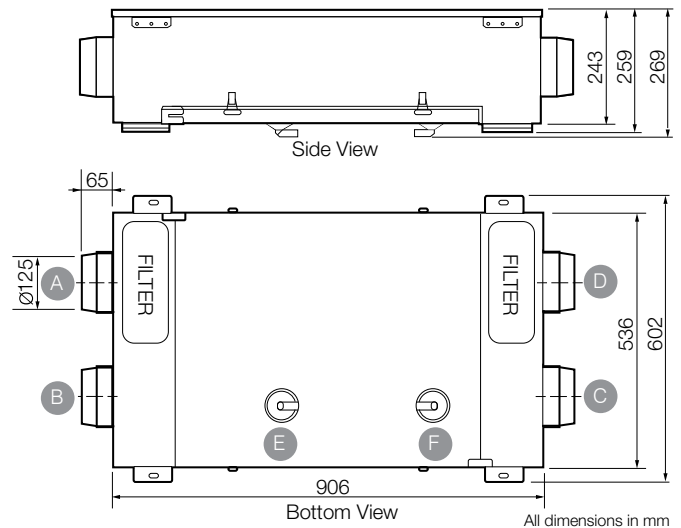
CENTRALISED ENERGY RECOVERY UNIT



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.

- 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.

DIMENSIONS



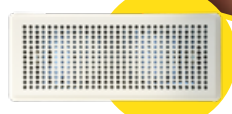
Label	Description
A	Intake air from outside
B	Exhaust air to outside
C	Supply air to inside
D	Extract air from inside
E	Winter condensation drainage
F	Summer condensation drainage

UNIT SPECIFICATIONS

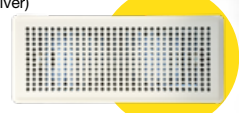
MODEL NO.	AEROFRESH 180	
Weight (kg)	20	
Ducting	4 X 125mm spigots	
Condensate Connection	16mm (for tube connection)	
Construction	Internal body	EPP (Polypropylene)
	Unit housing	Painted galvanised sheet metal
Volts	220-240	
Fan motor	EC	
Filters	Extract - G4 Supply - G4	



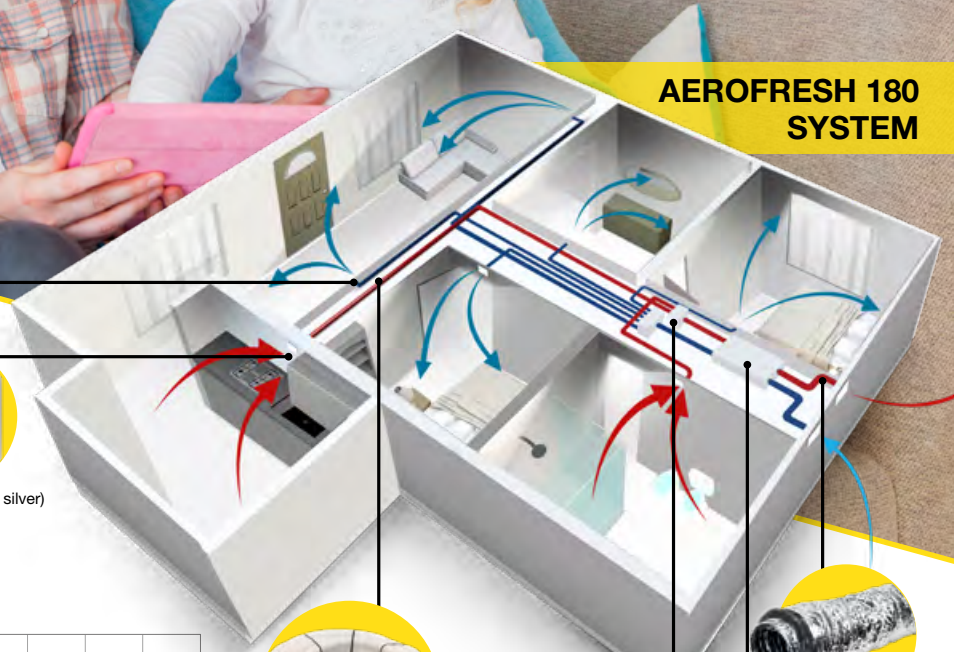
AEROFRESH 180 SYSTEM



Air inlet (Grilles in white or silver)



Air extract (Grilles in white or silver)



Semi-rigid circular ducting



Silencer/Manifold

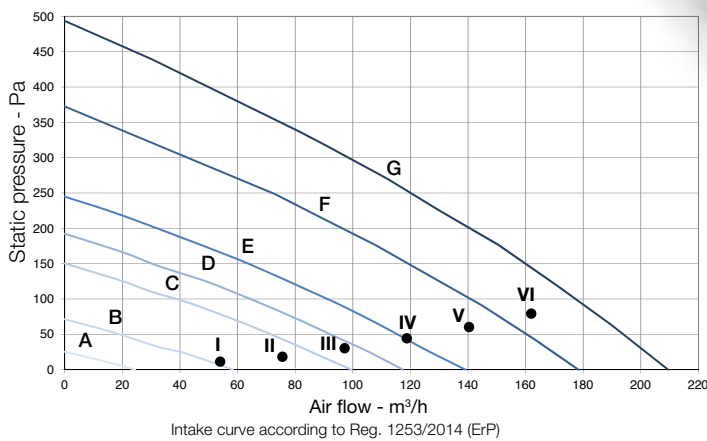


Insulated ducting



Aerofresh 180

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

SOUND DATA

	dB(A) @ 3M			
OPERATING SPEED	40%	60%	80%	100%
Intake	31	41	48	50
Supply	29	37	44	46
Extract	27	36	44	47
Exhaust	30	41	47	49
Breakout	27	36	45	48

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