

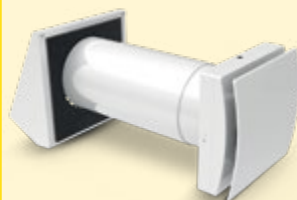
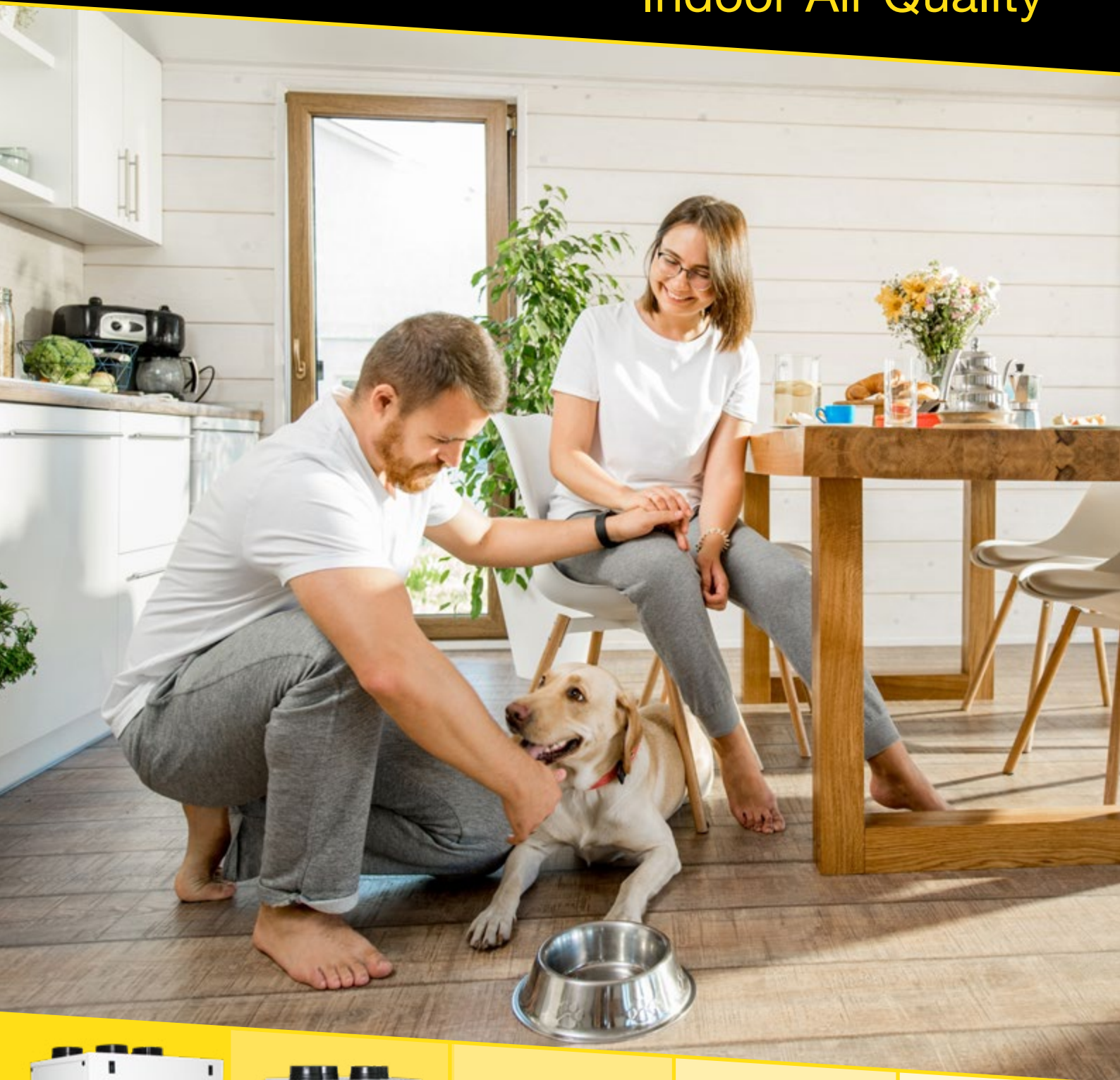
FANTECHTRADE ///

MADE FOR TRADE

aerofresh

Heat Recovery Ventilation Systems

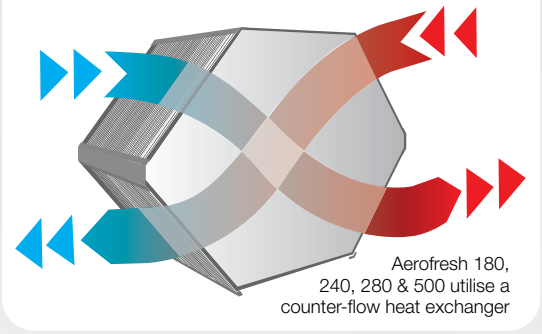
Creating Healthier  
Indoor Air Quality





# AEROFRESH

## CREATING HEALTHIER INDOOR AIR QUALITY



European  
Made



Heat  
Exchanger



Energy  
Saver



Quiet  
Operation

Aerofresh provides a healthier, well ventilated indoor space with simple and quiet operation. Fantech Trade offers a broad range of units to suit air flow and installation requirements for most homes.

Heat recovery ventilation units recover thermal energy from the air inside your home and use this to pre-condition fresh filtered supply air drawn in from outside. In winter this increases the temperature of the supply air, while in summer this reduces the temperature of the supply air.

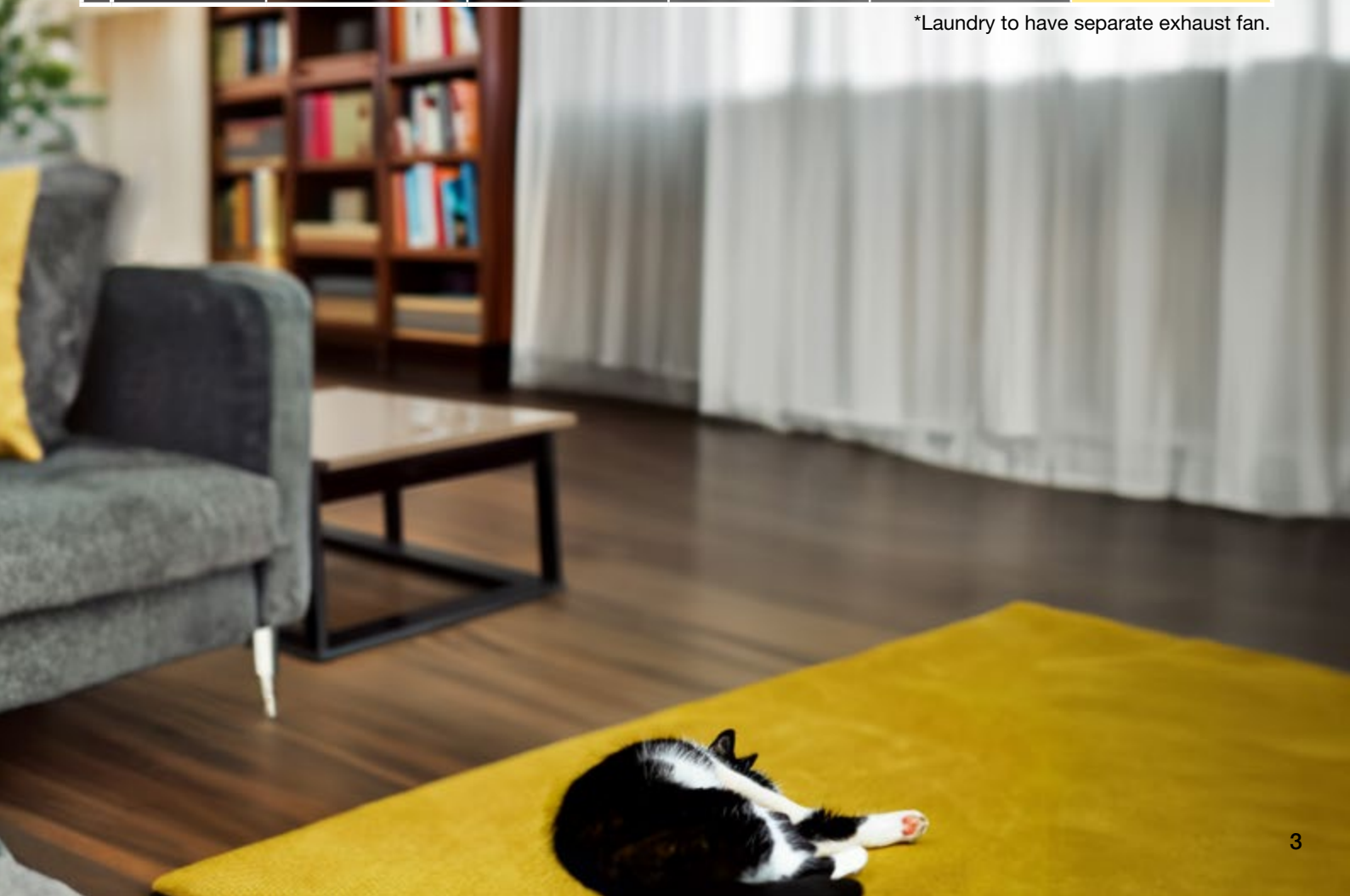


# AEROFRESH RANGE OVERVIEW



		AEROFRESH 60 PAGE 4	AEROFRESH 180 PAGE 6	AEROFRESH 280 PAGE 8	AEROFRESH 240 PAGE 10	AEROFRESH 500 PAGE 12
MOUNTING TYPE	IN-WALL	✓				
	HORIZONTAL CEILING		✓	✓		
	UPRIGHT MOUNTING				✓	✓
QTY OF BATHROOMS & WC*	FRESH AIR SUPPLY	✓	✓	✓	✓	✓
	1-2		✓		✓	
	2-3			✓		
	2-5					✓

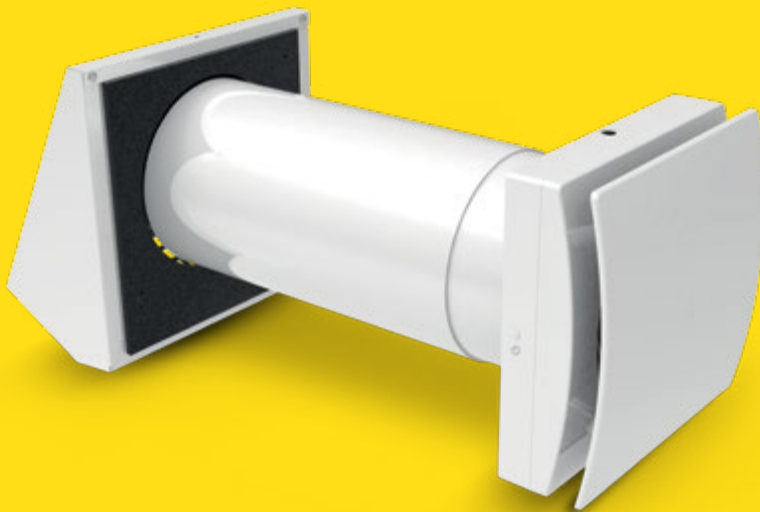
\*Laundry to have separate exhaust fan.





# AEROFRESH 60

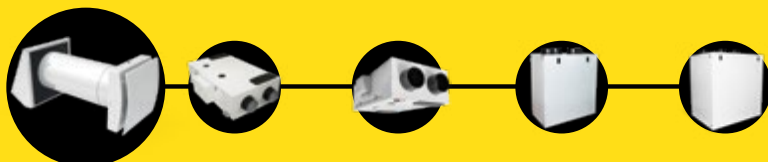
The Aerofresh 60 decentralised heat recovery unit provides continuous ventilation to ensure a home feels fresh and comfortable to live in. Home occupants can enjoy a healthier indoor environment as the Aerofresh will improve the air quality, while being energy efficient to run and very simple to operate. The Aerofresh 60 units are installed in synchronised pairs to provide balanced ventilation (non pressurised) and promote higher levels of air circulation.



External Spacer Box 190mm.  
For walls 110mm to 240mm thick.



External Spacer Box 60mm.  
For walls 240mm to 300mm thick.



## Features

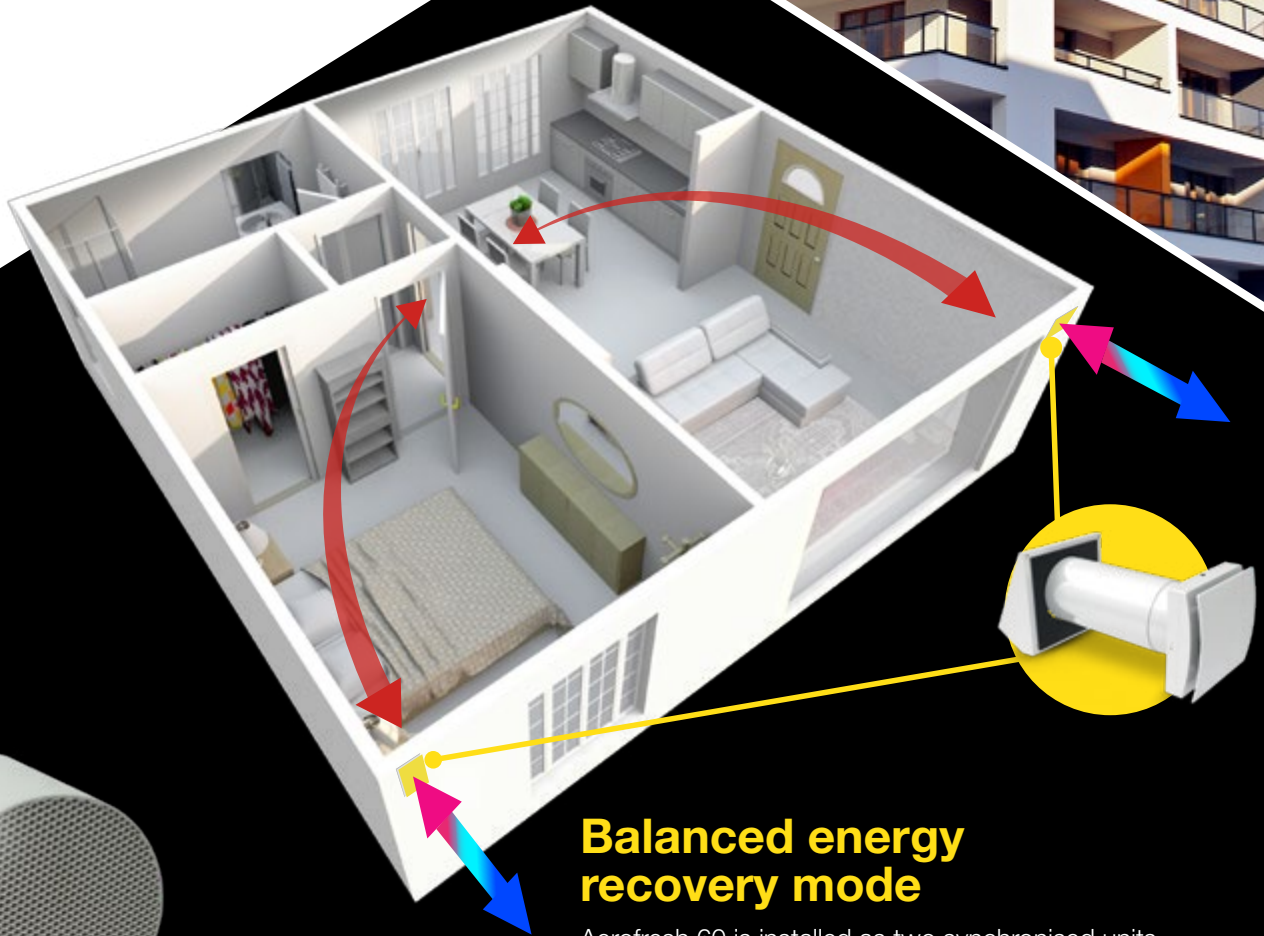
- Alternating exhaust/supply air flow direction (“push-pull”) ensures efficient energy recovery and air circulation
- Sleek modern internal diffuser is easily removed for cleaning
- Regenerative ceramic core heat exchanger with high thermal efficiency (up to 80%)
- Fitted with a high efficiency EC motor that is designed for continuous running
- Unique winglet-type impeller provides increased efficiency and low noise
- Integrated humidity control detects elevated humidity levels and increases flow rates
- Comes with a plastic grille with insect screen and an aluminium weatherproof hood with acoustic lining and insect screen
- 5 speed operation
- Insect screen is easy to remove for cleaning and maintenance from inside the home
- “Free cooling” function allows cool outside night air to enter during summer (night time purge)



**SUITABLE FOR  
IN-WALL  
INSTALLATIONS**

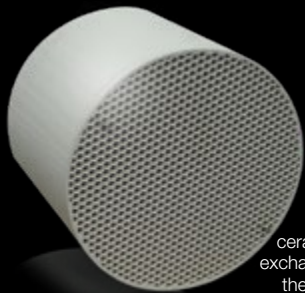


# AEROFRESH 60 HRV UNITS



## Balanced energy recovery mode

Aerofresh 60 is installed as two synchronised units, providing the home with pre-conditioned fresh air.



Regenerative ceramic core heat exchanger with high thermal efficiency

## How it works

- Aerofresh 60 units are installed in pairs in separate habitable rooms. Do not use in wet or odorous rooms (as this can circulate moisture and odour)
- Both units alternate their air flow direction every 70 seconds (approx.) and are synchronised with each other so while one unit is exhausting air the other is supplying air into the home
- The Aerofresh unit transfers the thermal energy from air inside the building to the incoming fresh air
- Helps maintain healthy indoor air as well as prevent condensation and mould growth
- 8 to 10mm door undercut allows air flow when doors are closed
- When installing in a bedroom, ensure to position away from bed heads

## Aerofresh 60 Remote Control

Provides full control in the palm of your hands.



SEE PAGE 14 FOR TECHNICAL INFORMATION

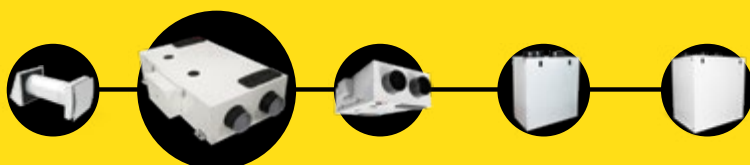


# AEROFRESH 180

The Aerofresh 180 is a compact, energy-efficient HRV unit designed for small apartments or units that require a horizontally mounted, in-ceiling heat recovery system.

It provides a well-ventilated indoor space with simple and quiet operation while recovering thermal energy from wet rooms like kitchens and bathrooms that would otherwise be lost. This heat is 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 80% efficiency.

Filters are changed through a ceiling access panel and must be installed by the builder.



## Features

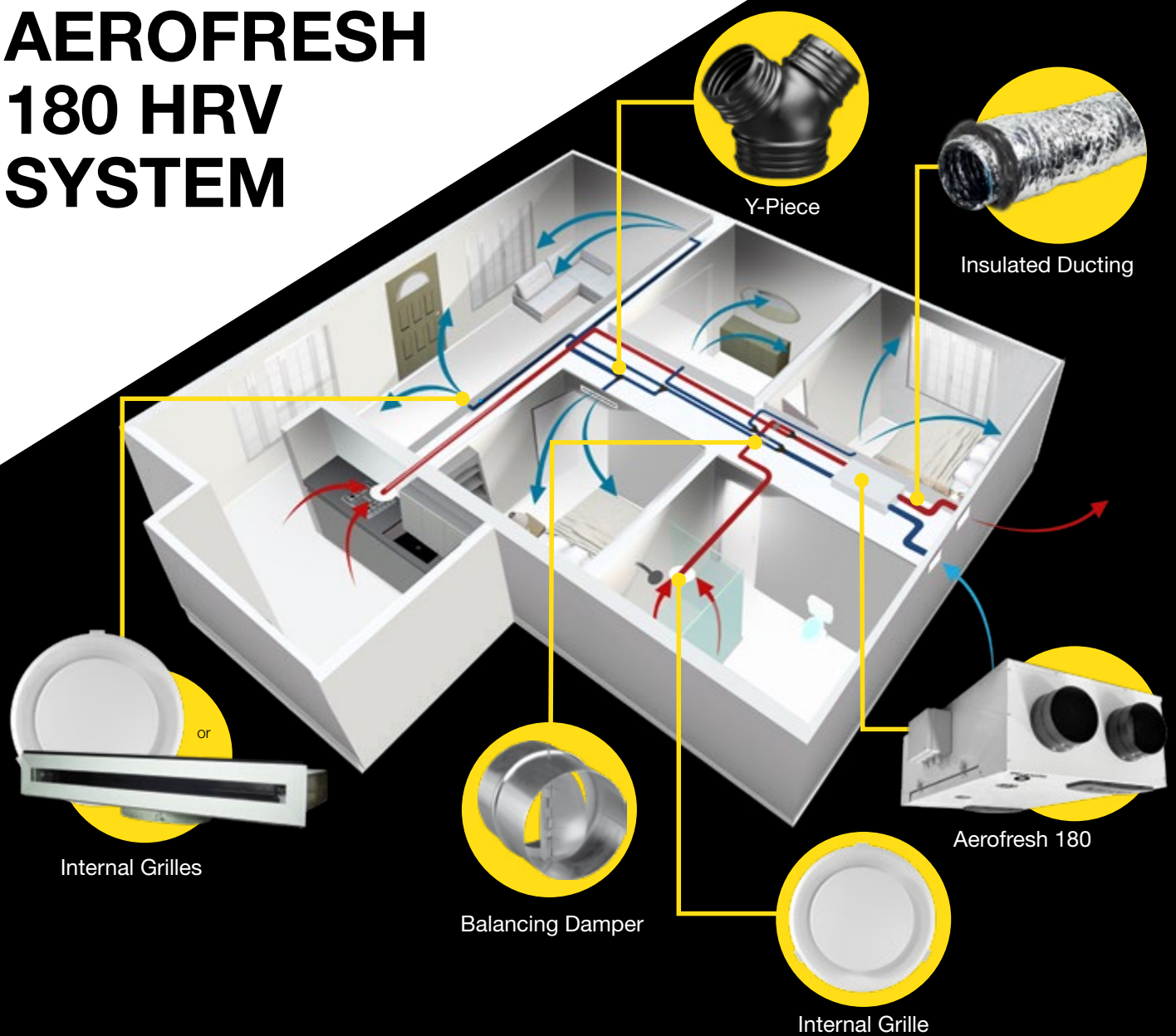
- Well suited to shallow ceiling voids with a minimum height of 269mm
- Boost function enables rapid extraction of increased moisture or pollutant levels
- Automatic bypass for free cooling during the summer season
- Anti-frost protection to prevent frost build-up
- EC motor for increased energy efficiency 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



**SUITABLE FOR  
HORIZONTAL CEILING  
INSTALLATIONS**



# AEROFRESH 180 HRV SYSTEM



## 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 CO<sub>2</sub>
- Filter replacement alert
- 7 day scheduler enables set-up of operational periods
- Bypass mode (automatic)
- Frost protection mode



Included Controller

SEE PAGE 14 FOR TECHNICAL INFORMATION



# AEROFRESH 280

Aerofresh 280 is a compact, energy-efficient in-ceiling heat recovery and cooling system designed for medium-sized apartments and houses.

It provides a healthier indoor living space by recovering thermal energy from areas such as bathrooms and kitchens that would otherwise have been extracted. In turn, the heat is transferred to the fresh, filtered air drawn from outside. An efficiency of up to 80% is achieved by units highly efficient counter-flow heat exchanger.

Filters are changed through a ceiling access panel and must be installed by the builder.



## Features

- Well suited to shallow ceiling voids with a minimum height of 315mm
- 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

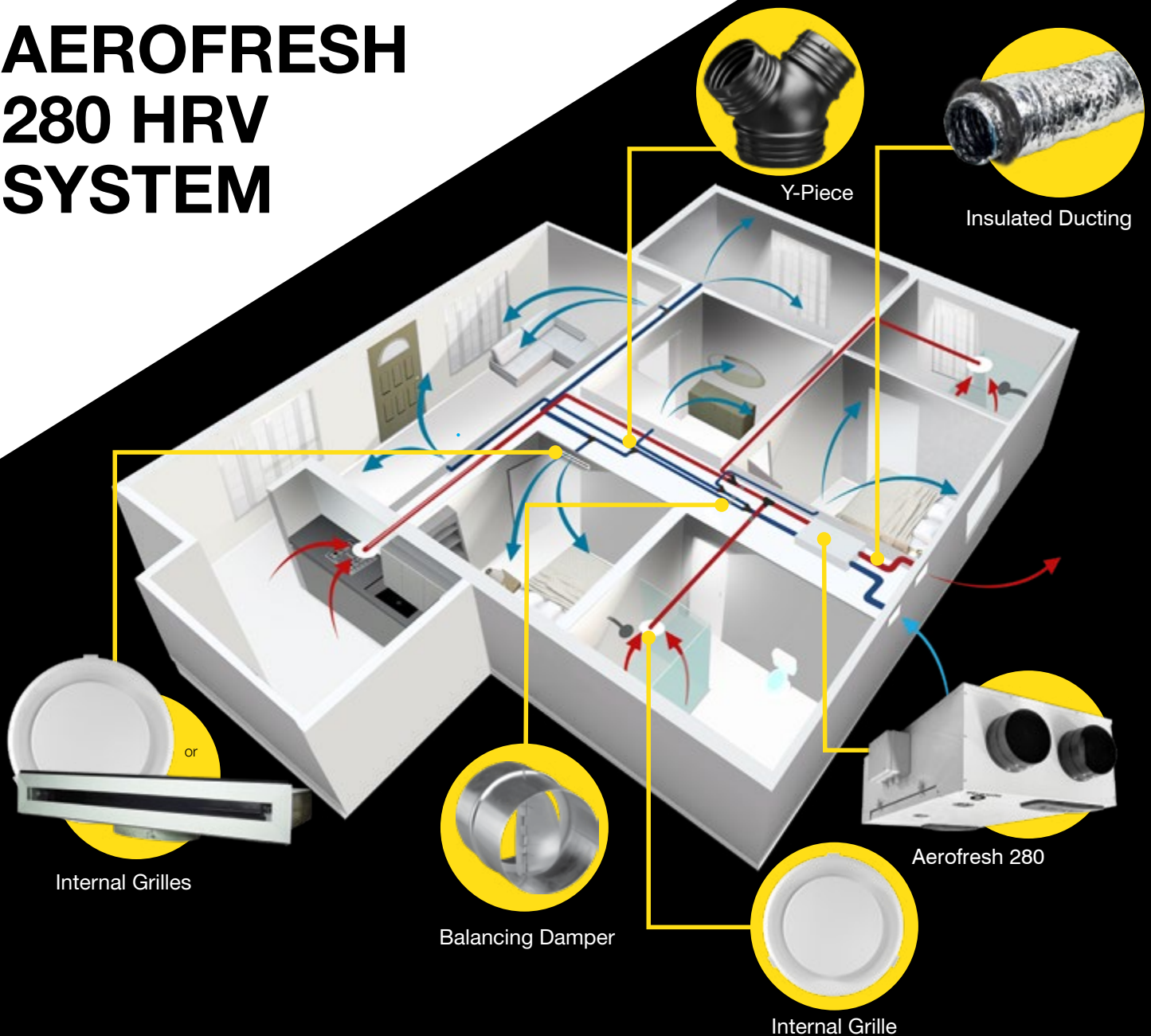


**SUITABLE FOR  
HORIZONTAL CEILING  
INSTALLATIONS**





# AEROFRESH 280 HRV SYSTEM



## How it works

- The Aerofresh 280 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 280 Controller

Multi-function remote control panel with LCD display, supplied as standard with the Aerofresh 280.

- Suitable for surface (wall) mounting
- 4 adjustable air flow levels
- Compatible with IAQ sensors such as humidity and CO<sub>2</sub>
- Filter replacement alert
- 7 day scheduler enables set-up of operational periods
- Bypass mode (automatic)
- Frost protection mode



Included Controller

SEE PAGE 15 FOR TECHNICAL INFORMATION

**aerofresh**  
280 HRV

# AEROFRESH 240

The Aerofresh 240 is a compact, energy-efficient HRV unit designed for medium-sized apartments or houses. It will be typically mounted upright in a cupboard.

It's a highly efficient, simple-to-operate system that improves indoor air quality and comfort. During the exhaust air process, the Aerofresh 240 extracts heat energy that would otherwise be lost and transfers it to fresh, filtered supply air drawn in from outside. This is accomplished by using a highly efficient counter-flow heat exchanger with up to 80% efficiency.

Changing of filters is easily done by lifting off the front panel and removing push fit filter covers. No need to use a step ladder.



## Features

- Designed to be vertically installed on the wall inside a cupboard or narrow space, thanks to its ultra-compact size and easy-to-fit air distribution system
- Suitable for larger apartments to smaller sized homes
- Boost function enables rapid extraction of increased moisture or pollutant levels
- Automatic bypass for free cooling during the summer season
- 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

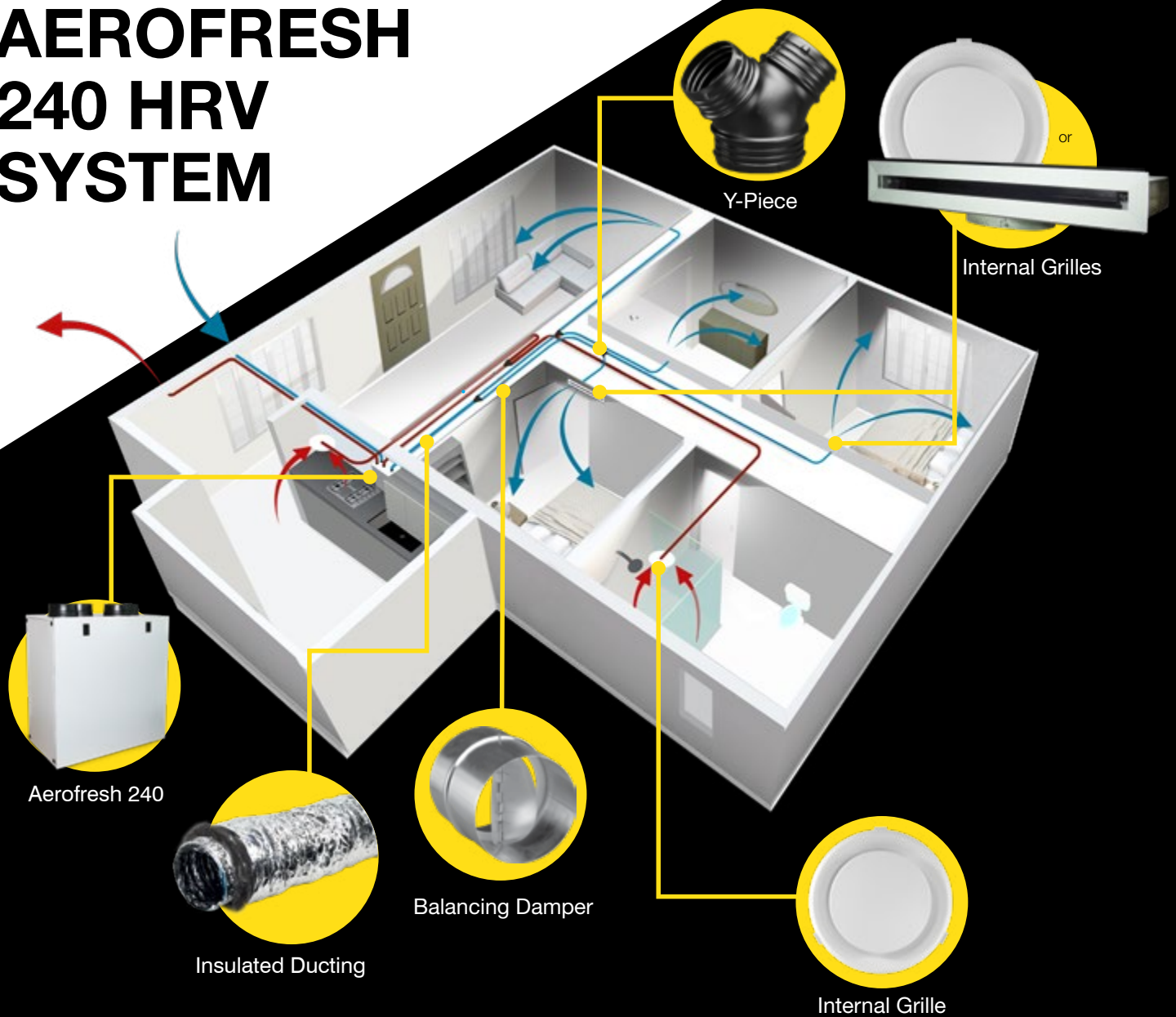


**SUITABLE FOR UPRIGHT MOUNTING**





# AEROFRESH 240 HRV SYSTEM



## How it works

- The Aerofresh 240 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 240 Controller

Multi-function remote control panel with LCD display, supplied as standard with the Aerofresh 240.

- Suitable for surface (wall) mounting
- 4 adjustable air flow levels
- Compatible with IAQ sensors such as humidity and CO<sub>2</sub>
- Filter replacement alert
- 7 day scheduler enables set-up of operational periods
- Bypass mode (automatic)
- Frost protection mode



*Included Controller*

SEE PAGE 15 FOR TECHNICAL INFORMATION

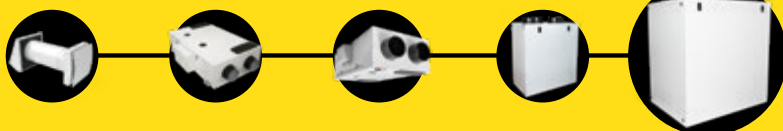
# AEROFRESH 500

The Aerofresh 500 is the largest HRV unit in the range and is designed for medium to large sized homes with high energy efficiency. It is an upright, cupboard-mounted system.

It offers market-leading efficiency with up to 80% heat recovery, low noise generation, and reduced power consumption. Temperature sensors enable the unit to automatically adjust to changing conditions, ensuring low maintenance and trouble-free operation.

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

Changing of filters is easily done by lifting off the front panel and removing push fit filter covers. No need to use a step ladder.



## 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 80% 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

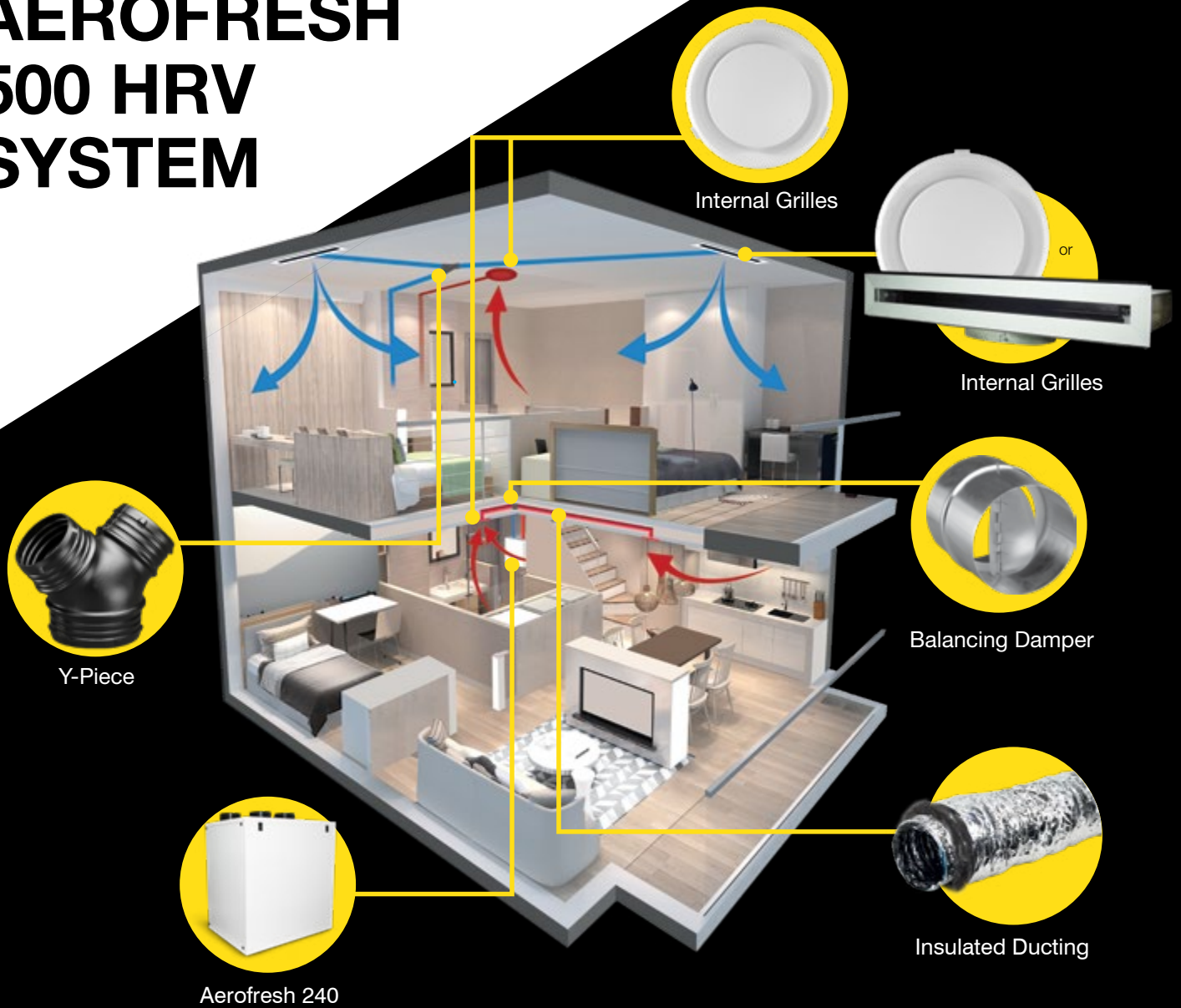


**SUITABLE FOR  
UPRIGHT MOUNTING**





# AEROFRESH 500 HRV SYSTEM



## 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<sub>2</sub>
- Filter replacement alert
- 7 day scheduler enables set-up of operational periods
- Bypass mode (automatic)
- Frost protection mode



*Included Controller*

SEE PAGE 16 FOR TECHNICAL INFORMATION

**aerofresh**  
500 HRV

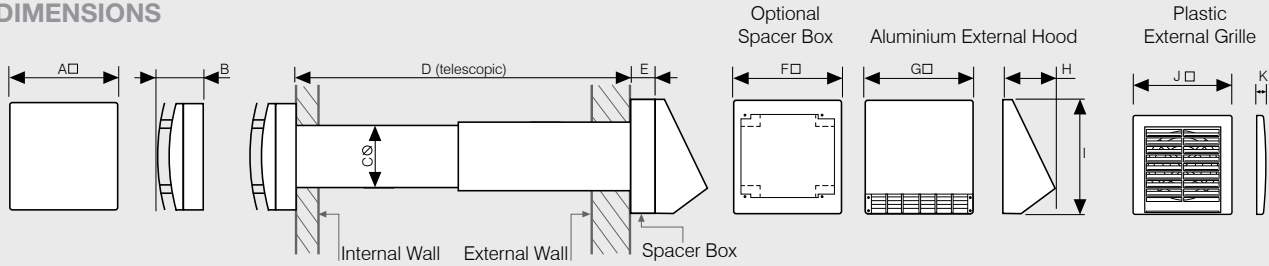


**AEROFRESH 60**

**UNIT SPECIFICATIONS**

MODEL NO.	AEROFRESH 60				
Speed	1	2	3	4	5
Air Flow (l/s)	6	8	11	14	17
Watts	2	2	3.5	4.5	6
dB(A) @ 3M	10	14	20	24	29
Volts	220-240				
Frequency (Hz)	50				
Max Temperature	50°C				
IP Rating	IPX4				

**DIMENSIONS**



MODEL NO.	DESCRIPTION	A	B	CØ	D	E	F	G	H	I	J	K
<b>AER-60HRV-KIT</b>	Includes 2 Aerofresh units, plastic grille and aluminium weatherproof hood	218	76	158	300 to 560	-	-	240	91	228	218	20
<b>AEROSB60</b>	Spacer to suit 240-299mm thick walls	-	-	-	-	60	240	-	-	-	-	-
<b>AEROSB190</b>	Spacer to suit walls less than 240mm thick	-	-	-	-	190	240	-	-	-	-	-
<b>AER-60HRV-REM</b>	Replacement remote control	-	-	-	-	-	-	-	-	-	-	-



**AEROFRESH 180**

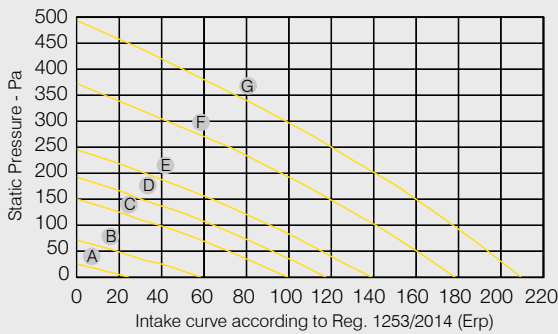
**SOUND DATA**

	dB(A) @ 3M			
<b>OPERATING SPEED</b>	40%	60%	80%	100%
<b>Intake</b>	24	34	41	45
<b>Supply</b>	21	30	37	41
<b>Extract</b>	21	30	37	41
<b>Exhaust</b>	26	34	40	44
<b>Breakout</b>	21	29	37	41

**UNIT SPECIFICATIONS**

MODEL NO.	AEROFRESH 180
Weight	20kg
Ducting	4 X 125mm spigots
Condensate Connection	16mm (for tube connection)
Construction	<b>Internal body</b> EPP (Polypropylene) <b>Unit housing</b> Painted galvanised sheet metal
Volts	220-240
Fan motor	EC
Filters	Extract - G4 Supply - G4 (Optional F7)

**PERFORMANCE DATA**

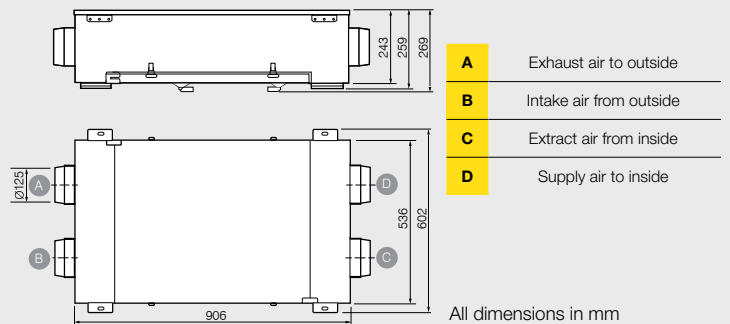


CURVE	SPEED %	W MAX.	M³/HR MAX.
<b>A (min)</b>	20	10	24
<b>B</b>	35	15	58
<b>C</b>	53	28	100
<b>D</b>	60	36	117
<b>E</b>	70	47	139
<b>F</b>	85	77	178
<b>G (max)</b>	100	105	209

WORKING POINT	W	M³/HR	SPI (W/M³/HR)	ηt % <sup>(1)</sup>
<b>I</b>	15.2	54	0.28	88
<b>II</b>	23.7	76	0.31	86
<b>III</b>	32.8	97	0.34	84
<b>IV</b>	43.5	119	0.37	82
<b>V</b>	61.4	140	0.44	80
<b>VI</b>	81.3	162	0.50	79

(1) Thermal efficiency of the unit

**DIMENSIONS**



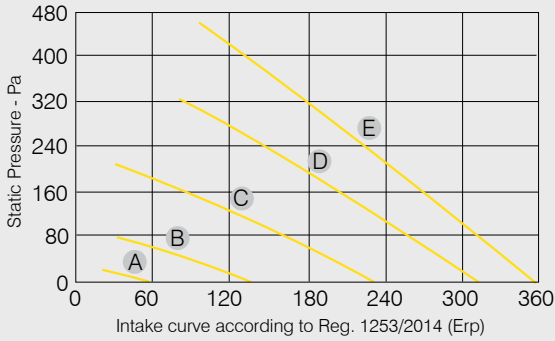
All dimensions in mm





## AEROFRESH 280

### PERFORMANCE DATA



CURVE	Speed %	W MAX.	M <sup>3</sup> /HR MAX.
A (min)	20	10	59
B	40	23	136
C	60	55	230
D	80	113	311
E (max)	100	170	357

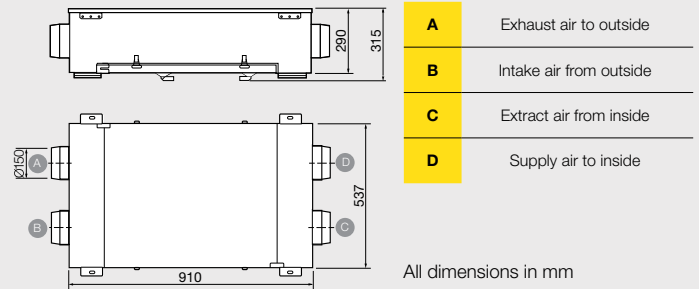
### SOUND DATA

Sound Levels (dBA) @ 3m				
Operating Speed	40%	60%	80%	100%
Breakout	21	29	37	41

### UNIT SPECIFICATIONS

MODEL NO.	AEROFRESH 280	
Weight	23kg	
Ducting	4 X 150mm spigots	
Condensate Connection	16mm (for tube connection)	
Construction	Internal body	EPP (Polypropylene)
	Unit housing	Painted galvanised sheet metal
Volts	220-240 V	
Fan motor	EC	
Filters	Extract	G4
	Supply	G4 (Optional F7)

### DIMENSIONS

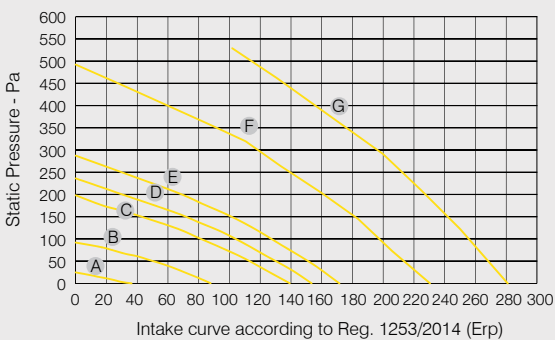


All dimensions in mm



## AEROFRESH 240

### PERFORMANCE DATA



CURVE	SPEED %	W MAX	M <sup>3</sup> /H MAX
A (min)	23	9	36
B	30	17	88
C	46	33	139
D	60	41	153
E	77	51	172
F	92	100	230
G (max)	100	167	281

WORKING POINT	W	M <sup>3</sup> /HR	Spi (W/M <sup>3</sup> /HR)	ηt % <sup>(1)</sup>
I	11.9	54	204	85.8
II	16.5	76	183	85.5
III	23.4	97	407	84.7
IV	32.8	119	2761	83.8
V	47.7	140	3397	83

(1) Thermal efficiency of the unit

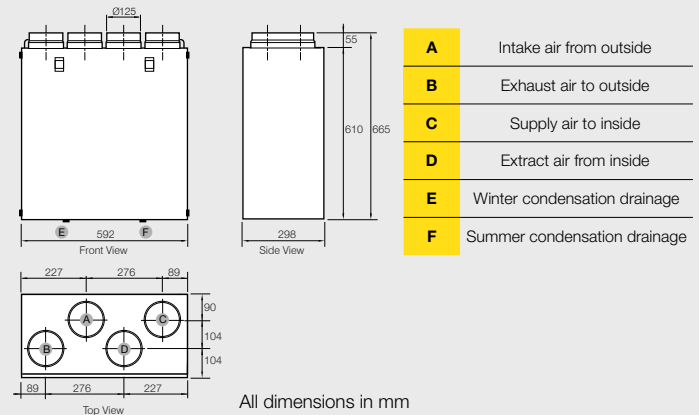
### SOUND DATA

(dBA) @ 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

### UNIT SPECIFICATIONS

MODEL NO.	AEROFRESH 180	
Weight	23kg	
Ducting	4 X 125mm spigots	
Condensate Connection	16mm (for tube connection)	
Construction	Internal Body	EPP (Polypropylene)
	Unit Housing	Painted galvanised steel
Voltage	220-240	
Fan Motor	EC	
Filters	Extract	G4
	Supply	G4 (Optional F7)

### DIMENSIONS

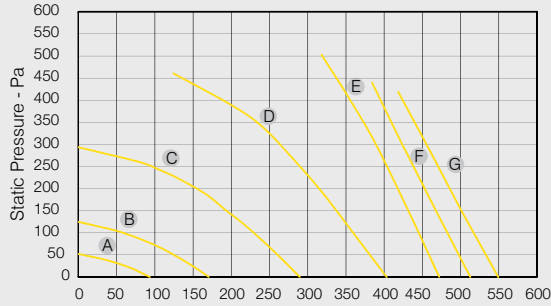


All dimensions in mm



## AEROFRESH 500

### PERFORMANCE DATA



Intake curve according to Reg. 1253/2014 (Erp)

CURVE	SPEED %	W MAX.	M <sup>3</sup> /HR 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	M <sup>3</sup> /HR	SPI (W/M <sup>3</sup> /HR)	ηt % <sup>(1)</sup>
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

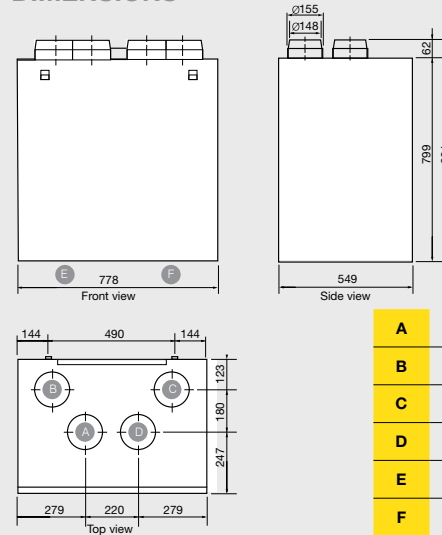
### SOUND DATA

	dB(A) @ 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

### UNIT SPECIFICATIONS

MODEL NO.	AEROFRESH 500		
Weight	44kg		
Ducting	4 X 150mm spigots		
Condensate Connection	16mm (for tube connection)		
Construction	Internal body	EPP (Polypropylene)	
	Unit housing	Painted galvanised steel metal	
Volts	220-240		
Fan motor	EC		
Filters	Extract - G4 Supply - G4 (Optional F7)		

### DIMENSIONS



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

All dimensions in mm

FANTECHTRADE ///

MADE FOR TRADE



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