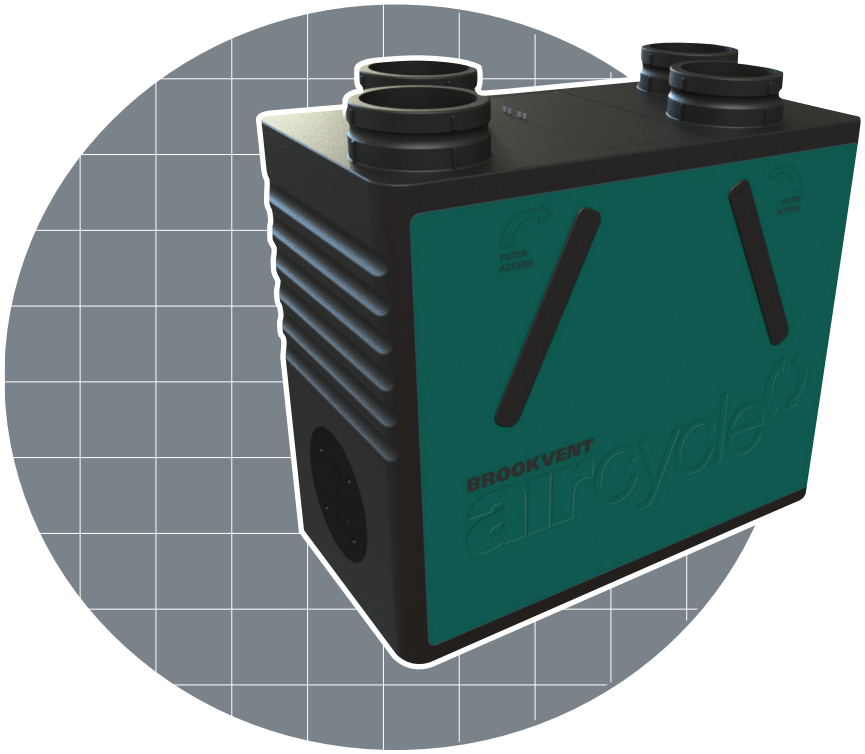
# BROOKVENT

## Market Leading Heat Recovery Ventilation




30th BROOKVENT anniversary 30 years of excellence

aircycle 1.2

frost protection.. BROOKVENT
summer bypass.. BROOKVENT
precision control.. BROOKVENT
humidity sensitive.. BROOKVENT
timed boost.. BROOKVENT

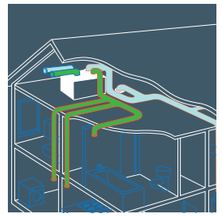
# aircycle 1.2

*Energy Saving*

*Low Carbon*

*Improved Air Quality*

**SPECIALLY DESIGNED FOR APARTMENTS AND SMALL HOUSES WHERE SPACE CAN BE LIMITED.**



**UP TO 93% HEAT RECOVERY EFFICIENCY.**

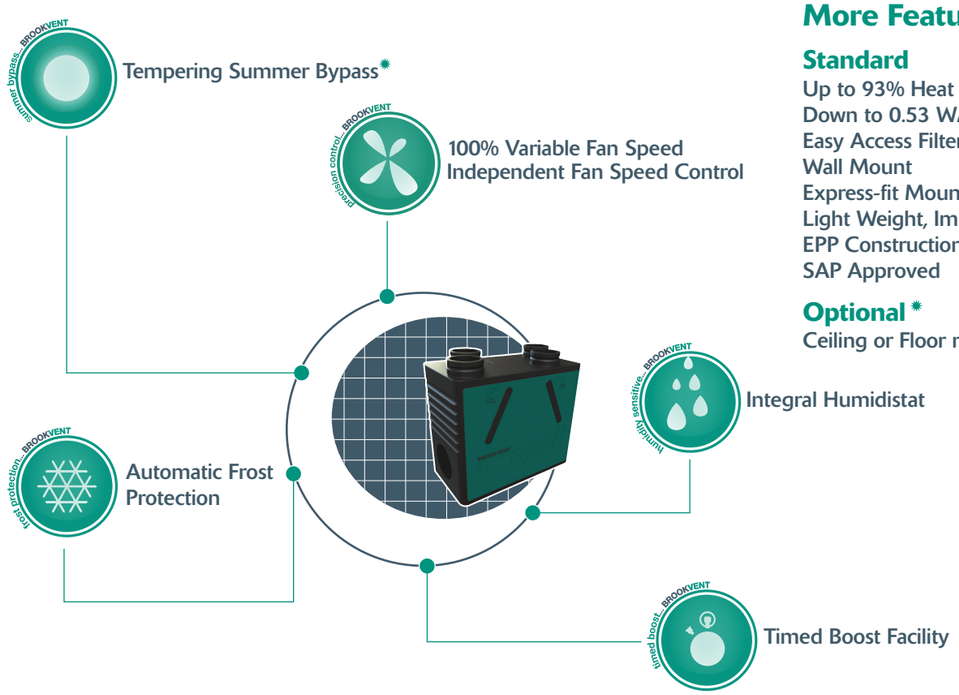
**DOWN TO 0.53 W/L/S SPECIFIC FAN POWER.**

Combining market leading heat exchange efficiency with extremely low energy usage, the aircycle 1.2 provides superior air comfort levels whilst minimising heat wastage.

## SUPERIOR AIR QUALITY

The aircycle 1.2 operates by recovering heat from air that would normally be expelled into the atmosphere. This heat is transferred to fresh air drawn into the property, which is then filtered and distributed throughout.

The aircycle 1.2 can significantly reduce the space heating bill of a domestic dwelling, whilst also delivering a healthier and more comfortable environment for the occupier. The aircycle 1.2 eliminates many issues caused by poor indoor air quality within the home such as condensation and the resultant formation of 'black mould'. Additionally, the advanced air filtration system ensures the home environment is much more conducive to allergy and asthma sufferers alike.




## More Features

### Standard

Up to 93% Heat Efficiency
Down to 0.53 W/L/S SFP
Easy Access Filters (G2/3)
Wall Mount
Express-fit Mounting Bracket
Light Weight, Impact Resistant
EPP Construction
SAP Approved

### Optional *

Ceiling or Floor mount

## HIGH PERFORMANCE IN A COMPACT PACKAGE

Despite its size, the aircycle 1.2 is one of the best performing Heat Recovery Ventilation units in its class and is both **SAP Appendix Q Approved** and **Energy Savings Trust 'Best Practice'** compliant. Its efficient performance significantly contributes to lower Dwelling Emission Rates (DER's) in SAP and is suitable for use in homes being built to levels 3,4,5 and 6 of the Code for Sustainable homes.

## AUTOMATIC CLIMATE REGULATION

Sophisticated in-built technology enables the unit to respond intuitively to a range of internal and external temperature changes. The aircycle 1.2 offers in-built **automatic frost protection** and **humidity controls** that respond to extreme cold spells and changes in humidity within the dwelling.

The aircycle 1.2 also has the option of being supplied complete with a unique in-built 'Tempering' Summer Bypass suitable for warmer regions. Unlike most other Heat Recovery Units which offer simply a 100% Summer Bypass at a defined temperature, the **Brookvent 'Tempering' Summer Bypass** operates on a linear scale between 20 Degrees Celsius (No Summer Bypass) and 27 Degrees Celsius (Full Summer Bypass). This gradually increases the amount of air directed around the Heat Recovery Core ensuring the delivery of a comfortable indoor environment for the occupier.

## VENTILATION SIMPLICITY

The aircycle 1.2 succeeds in making Heat Recovery Ventilation Installation much simpler. Supplied complete with a flying lead, the unit can be easily connected to a power supply. **100% variable fan speed** ensures precise commissioning through independent fan adjustment. Maintenance has also been made much simpler with the only requirement being a regular filter change (every 9-12 months). The filters on the new aircycle 1.2 can be quickly and easily accessed via the airtight tabs on the front of the unit.

energy saving trust™

5 year manufacturers warranty

UK manufactured

A range of compatible ducting and ancillaries are also available. Please enquire for further details.

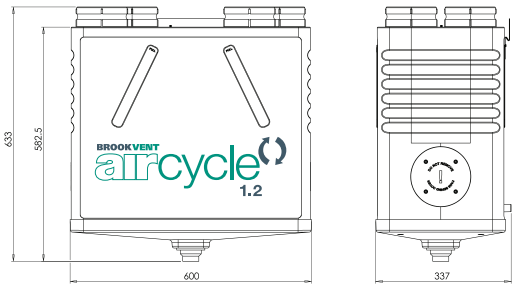
Brookvent operate a policy of continuous innovation and thus reserve the right to alter product specifications and appearances without notice.

## SPECIFICATION

| | |
|---|---|
| **Dimensions** | 583mm x 600mm x 337mm |
| **Weight** | 10kg |
| **Materials** | Main enclosure: Impact Resistant EPP (Expanded Polypropylene)<br>PCB Enclosure: Nylon 6 V0<br>Drainage Tray: HIPS<br>Filters: Polyester Media (G2/3)<br>Mounting Bracket: Zinc Plated Steel |
| **Electrical** | 240V EC<br>EC Low Energy Fans<br>Supplied with a flying lead |
| **Controls** | Extremely efficient in-built control board (SAP Q Approved)<br>Independent Fan Speed Control (Trickle and boost settings for each fan)<br>Single 240v boost input (Light Switch, Humidistat, PIR, etc) 15 Min Over-run<br>In-built Humidity Sensor (Boost activation) Variable: 60% - 90% RH, Factory Set: 70%<br>Frost Protection, Variable Activation: 0 – 10 Degrees Cel., Factory Set: 5 Degrees Cel.<br>Optional 'Tempering' Summer Bypass (Variable between 20 and 27 Degrees Cel.) |
| **Installation** | Wall mount. Ceiling and Floor mount versions are also available. |
| **Standards** | Fully complies with Building Regulations for UK & Ireland \| SAP Q Approved<br>Energy Savings Trust Best Practice \| CE |
| **Specific Fan Power:**<br>**Heat Recovery Efficiency:**<br>**Guarantee Period:** | From 0.53 w/l/s<br>Up to 93% Efficiency<br>5 Years |

## SAP APPENDIX Q: APPROVED RESULTS

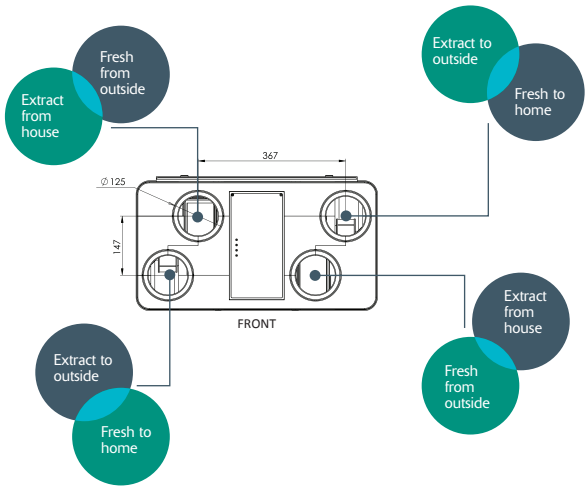
| Configuration | Specific Fan Power (W/l/s) | Heat Exchange Efficiency (%) |
|---|---|---|
| Kitchen + 1 Wet Room | 0.53 | 93 |
| Kitchen + 2 Wet Rooms | 0.57 | 91 |
| Kitchen + 3 Wet Rooms | 0.67 | 90 |
| Kitchen + 4 Wet Rooms | 0.82 | 89 |
| Kitchen + 5 Wet Rooms | 0.97 | 88 |
| Kitchen + 6 Wet Rooms | 1.16 | 87 |



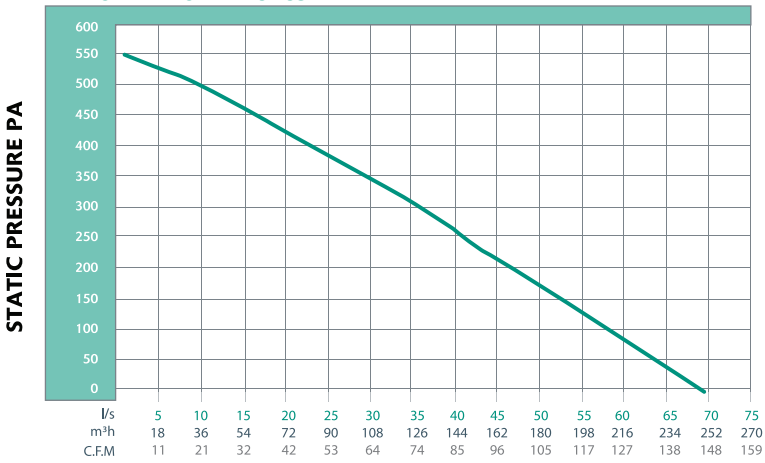

## ACOUSTIC PERFORMANCE

| | | Airflow l/s | Pressure Pa | Lf (MAX) 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Overall Lw | Overall Lwa | Casing Breakout dBA @ 3M |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Speed 1 | Open Supply Duct | 16 | 6 | 32.3 | 32.7 | 36 | 37.8 | 28.5 | 21.9 | 19.2 | 37 | 31 | 10 |
| | Open Extract Duct | 17 | 2 | 30 | 26.9 | 30.7 | 33.2 | 25.4 | 19.2 | 18.1 | 34 | 28 | |
| | Breakout | 19 | 4 | 27.4 | 26 | 32.6 | 30.5 | 29.6 | 22.1 | 19.6 | 34 | 28 | |
| Speed 2 | Open Supply Duct | 28 | 12 | 28.2 | 39.2 | 52.5 | 50.1 | 42.4 | 33.9 | 24.7 | 49 | 44 | 19 |
| | Open Extract Duct | 29 | 10 | 31.7 | 29.7 | 47.3 | 40 | 33.3 | 28 | 22.2 | 41 | 34 | |
| | Breakout | 31 | 9 | 30.8 | 33.6 | 46.4 | 46.8 | 34 | 27.4 | 21.4 | 43 | 37 | |
| Speed 3 | Open Supply Duct | 38 | 18 | 33.8 | 40.8 | 56.7 | 55.8 | 51.7 | 42.6 | 30.3 | 56 | 46 | 24 |
| | Open Extract Duct | 42 | 25 | 37.8 | 34.3 | 50.6 | 49.1 | 34.9 | 34.2 | 24.8 | 48 | 41 | |
| | Breakout | 42 | 16 | 28.7 | 33.3 | 50.3 | 46.2 | 40.4 | 33.8 | 25.4 | 48 | 41 | |
| Speed 4 | Open Supply Duct | 49 | 31 | 48.3 | 44.8 | 61.3 | 64.5 | 56.9 | 50.3 | 39.9 | 64 | 55 | 32 |
| | Open Extract Duct | 53 | 43 | 45.9 | 36.2 | 52.4 | 59.9 | 36.5 | 40.1 | 26.2 | 54 | 50 | |
| | Breakout | 54 | 30 | 49.1 | 35.3 | 54.1 | 56.2 | 47 | 40.6 | 35.1 | 56 | 50 | |
| Speed 5 | Open Supply Duct | 66 | 40 | 43.6 | 47.6 | 60.4 | 66.2 | 63.4 | 54.2 | 45.7 | 64 | 58 | 33 |
| | Open Extract Duct | 60 | 55 | 42 | 40.5 | 56.1 | 58.8 | 43.2 | 41.7 | 39.2 | 60 | 51 | |
| | Breakout | 66 | 40 | 36.9 | 35.7 | 57.4 | 60.5 | 52.9 | 45.4 | 40.4 | 60 | 51 | |

**Standard Configuration**
**Inverted Configuration**




## AIRFLOW PERFORMANCE CURVE





**BROOKVENT**

Brook House
Dunmurry Industrial Estate
Dunmurry
Belfast BT17 9HU
t: +44 (0) 28 9061 6505
f: +44 (0) 28 9061 6518