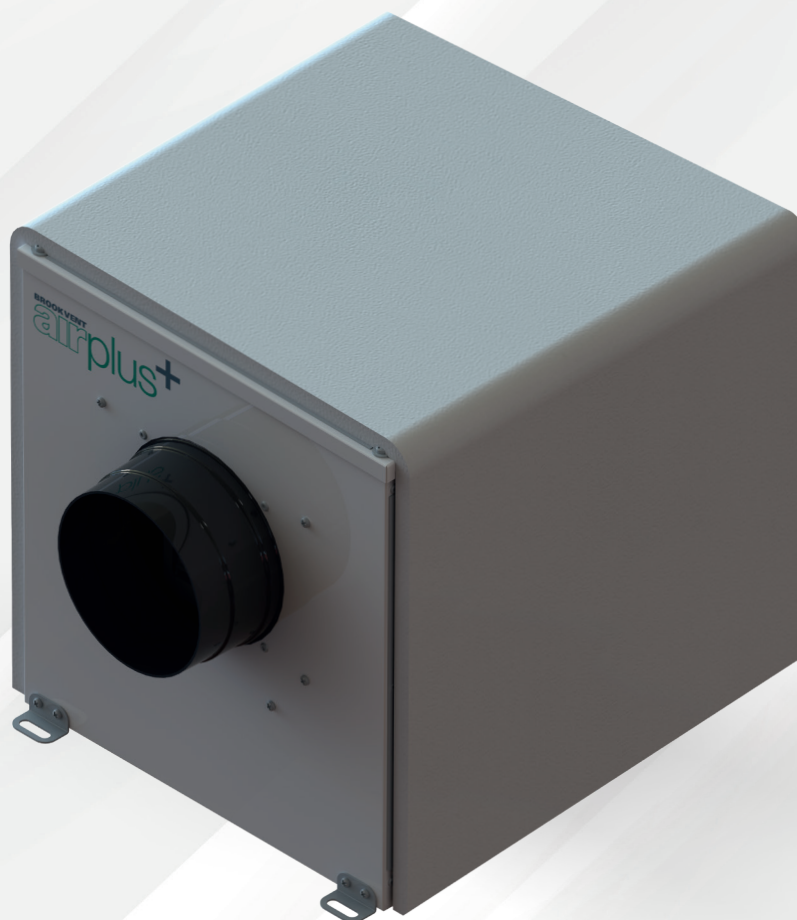


NEW

BROOKVENT
airplus⁺
PIV

EFFECTIVE CONDENSATION CONTROL

With Positive Input Ventilation



KEY FEATURES

Airplus is a loft mounted ultra-quiet, low energy, low maintenance, home ventilation unit. The unit is designed to help ventilate a home using the well-established Positive Input Ventilation (PIV) principle. PIV units have been preventing and curing condensation and dampness related problems in homes for decades. They are also used to control other indoor air pollutants and have even proven to be an effective means for reducing Radon gas.

- **Reduces condensation** which is the cause of issues like streaming windows, surface condensation, musty smells, dampness and moulds by introducing fresh, clean and filtered air into the dwelling so to dilute, displace and replace the internal stale, contaminated, humid air.
- **Energy savings**, the airplus system utilises otherwise unused energy in the loft from solar gain and heat loss from the home. This energy gain is significantly more than the energy used by the unit's motor.
- **Improved heat distribution** warm air naturally rises to the ceiling. The difference between the ground level and air near the ceiling can be as high as 7°C the airplus PIV system pressurizes the dwelling allowing for improved temperature distribution.
- **Health benefits** stale, humid contaminated air trapped in our homes leads among others to mould growth. Mould naturally releases spores into the air which will be inhaled by the inhabitants leading to respiratory problems such as asthma and allergies. The airplus system pressurizes the apartment to dilute, displace and replace stale and therefore significantly reduce mould growth.
- **Minimum maintenance** due to a very large filter area (over 0,5 sqm) the unit can provide even up to 5-10 years filter life depending on operating speed and air quality. Easy access to the filter for cleaning and replacements.

- **Quiet and efficient** operation due to the use of a modern low watt EC fan with integrated thermal protection, mounted on sealed for life ball bearings and antivibration support.

- **No additional ducting** required. Ideal to retrofit.

- **Integral, multi-functional controls** Wide airflow and temperature settings which allow the unit to be fine-tuned to suit the individual requirements of a home and its occupants.

These controls include:

- **10 fan speeds** both high and low speeds can be set during installation. High speed can be overridden using a switch or a sensor
- **Automatic Heat Recovery mode** allowing the use of heated air in the loft to aid temperature control in the house. The speed of the fan will increase automatically when the loft air temperature reaches a preset threshold
- **Summer stand-by mode** when the air temperature in the loft will exceed a preset threshold the unit will switch off to prevent undesirable warm air being pushed into the house.

- **Robust metal** fan casing built to last

- **Tested to the latest standards:**

Units are tested in the TÜV recognized laboratory, BRE labs (UK) and produced in accordance with LVD and EMC regulation meaning accurate, up to date information on electrical safety, performance and noise level that can be relied upon.

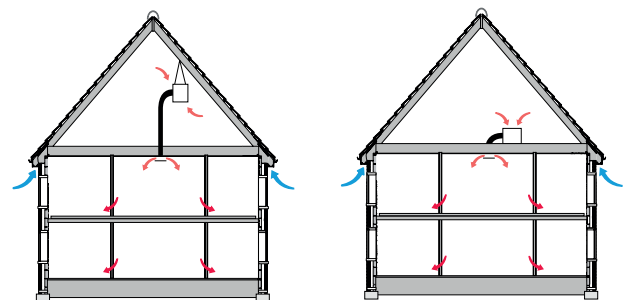
- **Easy installation** with fixing eyelets as part of the fan body. Suitable for floor or suspended installation (optional).

PERFORMANCE DATA

	Min speeds								Max speeds	
	1	2	3	4	5	6	7	8	1	2
Airflow [l/s]	17	21	25	29	33	37	41	45	60	70
Airflow [m3/h]	61	76	90	104	119	133	145	162	216	252
Power consumption [W]	3,7	4,3	5,8	6,9	8,8	10,3	12,5	14,4	17,3	24,2
Filter change period [years]	10	10	9	7,5	6,5	6	5,5	5		

ACOUSTIC

	Sound power level [dB(A)]	Sound pressure @3m (max) [dB(A)]
airplus / airplus PH	43	27



Suspended (optional)

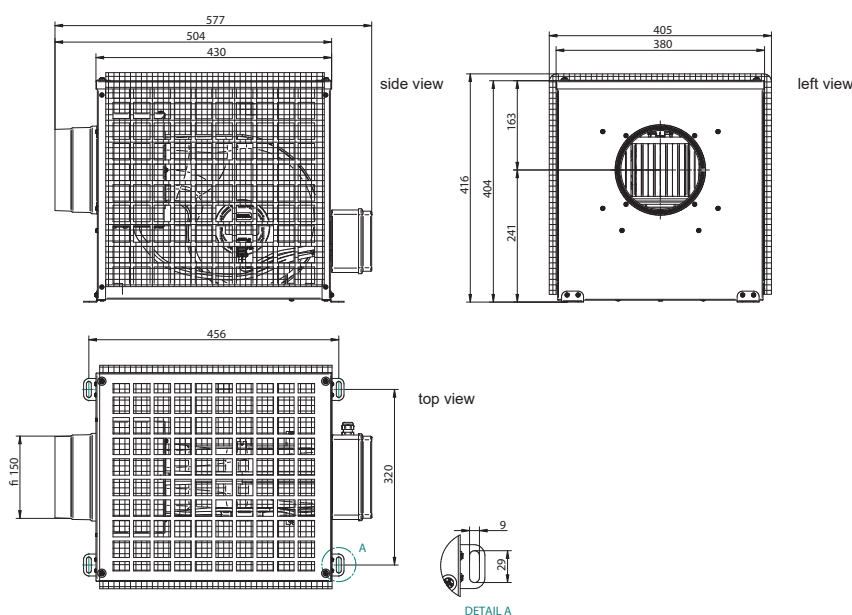
Joist Mounted

BROOKVENT airplus⁺ PIV

VERSIONS & DIMENSIONS (mm)

airplus Product code: AF 90-AP-STD The unit runs continuously at the selected trickle speed. Boost speed is manually activated via remote switch or ambient sensor or via a light switch.

airplus PH Product code: AF 90-AP-EHB Version equipped with a 500W heater with a dedicated controller.



HOW IT WORKS

External air is drawn into the loft by the airplus unit. Before it passes through the unit's filter the air increases in temperature as it utilises otherwise unused energy in the loft from solar gain and heat loss from the home. This increase can be significant, but it is typically around 3°C warmer than outside air over a heating season. This energy gain is significantly more than the energy used by the unit's motor. The tempered, filtered air is then supplied centrally to the home via the unit's outlet duct and ceiling diffuser.

No additional ducting is required. Integral controls allow the airplus unit to be set to suit individual requirements of the home. Airflow from the unit to the home is automatically regulated via an integral temperature sensor which optimises the energy benefit of the unit while ensuring that sufficient air is always supplied to help control moisture and other pollutant levels in the home. The system also works well in conjunction with airstream DMEV which helps to draw the fresh air from the PIV for improved cross flow ventilation.

SPECIFICATION

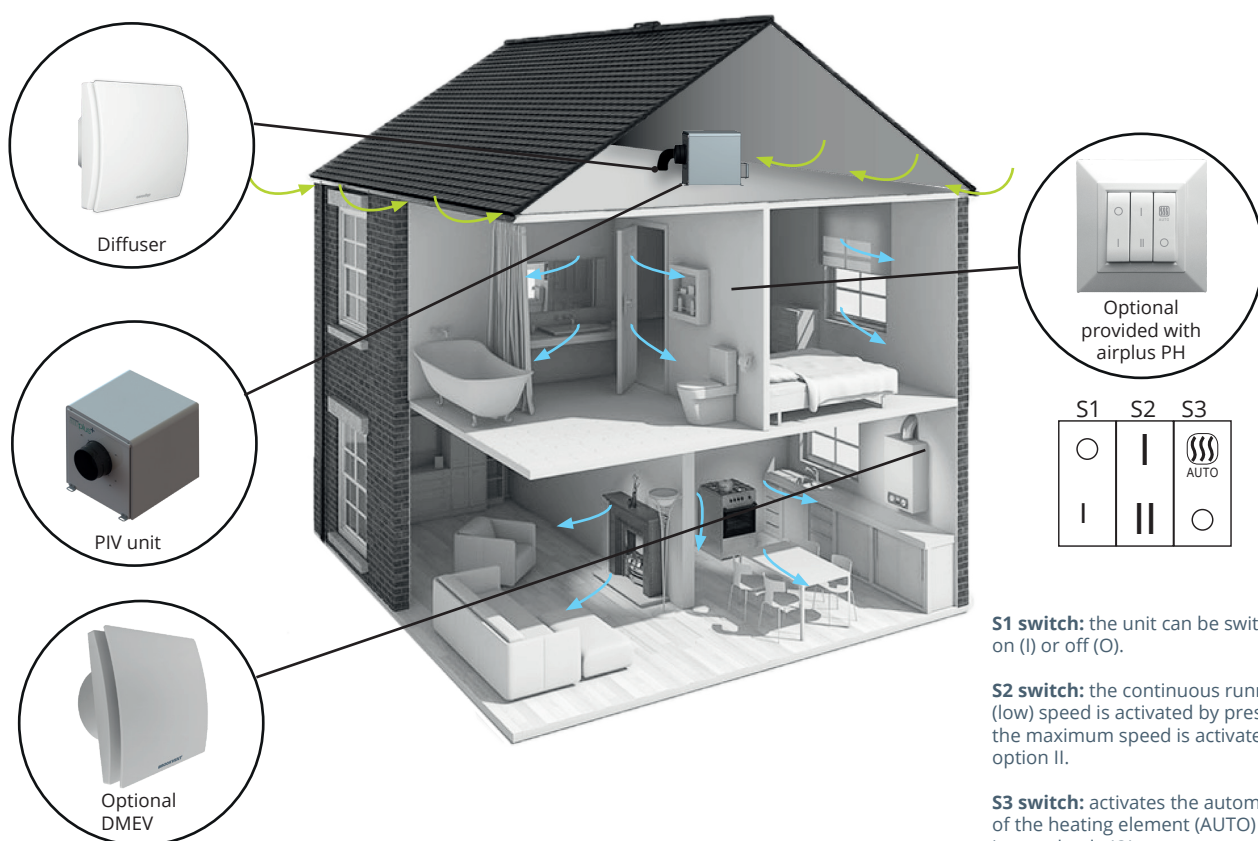
- **Motor Quiet** and efficient EC external rotor motor with integrated thermal protection, mounted on sealed for life ball bearings and antivibration supports
- **Impeller** Forward curved centrifugal impeller dynamically balanced and directly driven by the motor to provide a smooth airflow through the unit.
- **Metal casing** provides a robust construction for the fan unit
- **Filter ISO** Coarse 60% (G4) filter as standard
- **Diffuser made of high-quality ABS** technopolymer with adjustable blanking plates to direct the airflow to suit the needs of tenants. The diffuser is designed to fit all interior designs and to be easily removable for cleaning without tools
- **Duct 2,5m duct and diffuser** included with the device
- **500W heater** included in the airplus PH version

BROOKVENT™ airplus⁺ PIV

EXAMPLE OF A COMPLETE VENTILATION SYSTEM

airplus Product code: AF 90-AP-STD The unit runs continuously at the selected trickle speed. Boost speed can be activated based on the temperature thresholds set.

airplus PF Product code: AF 90-AP-EHB Version equipped with a 500W heater.



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