Demand-controlled ventilation with Air Comfort Control

Climate Systems

"EPC gains

up to 0.24!"

Efficie
new and

THE SYSTEM ADVANTAGES

- Demand-controlled ventilation
- Effective decentralised mechanical air supply
- Very high sound attenuation
- Air filtration
- Central mechanical air extraction
- Manual, programme or CO_2 sensor control
- Very easy installation
- Plug and play

Air Comfort Control (ACC) by Brink Climate Systems is a whole-house ventilation system that automatically controls the ventilation on-demand. With its simple installation, ACC offers a unique ventilation concept to create a healthy and comfortable indoor climate in new as well as existing buildings efficiently.

nt ventilation of existing buildings

AIR COMFORT CONTROL

With Air Comfort Control (ACC), Brink Climate Systems offers a simple, effective and efficient method for ventilating both new and existing buildings. The ACC system combines air supply, air extraction and demand control.

Every habitable room receives fresh outdoor air through our air supply units Sonair (wall-mounted) or Innoventus (mounted behind a radiator). A central mechanical extraction unit extracts stale indoor air from the wet rooms.

DEMAND-CONTROLLED VENTILATION

The control panel, which communicates with the above units through the electrical ring mains, controls the ventilation in each room individually and based on occupancy, either by manual, programme or CO_2-sensor control. The system can be set to ventilate at a minimum rate to remove other pollutants, such as VOC's, formaldehyde and radon. That result is a healthy, comfortable, and low-energy indoor climate. Please read the ACC checklist for more information about the system.

ENERGY SAVINGS

The ACC system ensures that the rooms are only ventilated when necessary. This prevents excessive and uncontrolled ventilation (as well as draught) and limits thermal loss due to heating cold ventilation air in the winter and cooling warm ventilation air during the hot summer nights. EPC gains up to 0.24 are possible.

THERMAL COMFORT

Independent studies have shown that the controlled supply of fresh outdoor air by Sonair and Innoventus is extremely comfortable, even when the outdoor air temperature is very low. This guarantees a comfortable indoor climate without draught, even when it is cold outside

NOISE INSULATION

The ACC system is an excellent choice for dwellings and schools where attenuation of outdoor sound is necessary. Sonair can attenuate up to 56 dB of outdoor noise.

SIMPLE INSTALLATION

The individual components of the ACC system are very easy to install. They communicatie with each other over the electrical ring mains. This makes installation of separate control cabling superfluous. As a result, ACC can easily be applied to both new and exisiting dwellings.

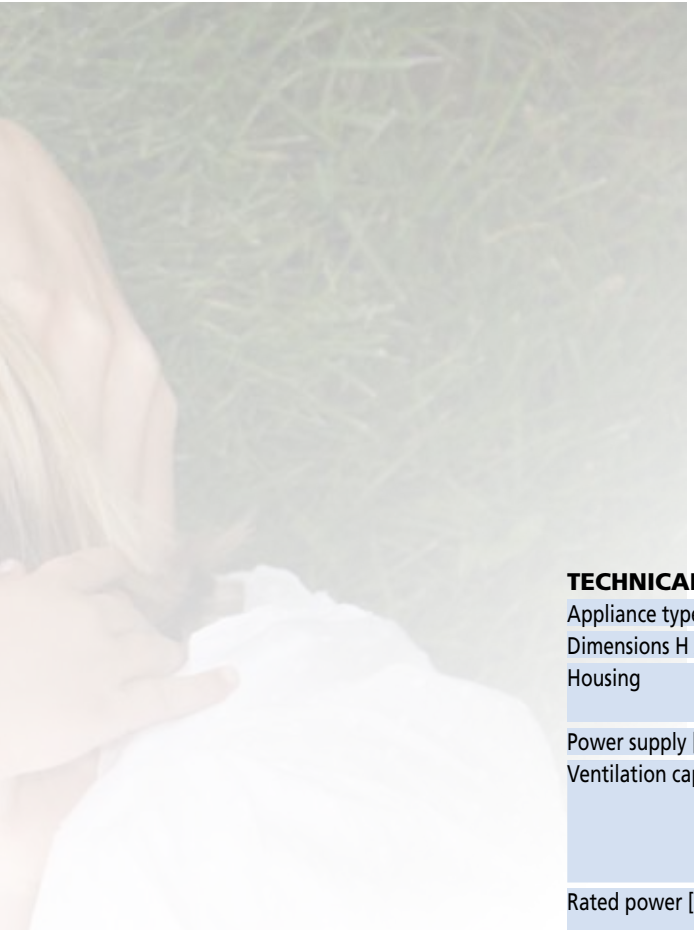
"Independent studies show that the physical properties of the air supply units result in a very high thermal comfort."

A healthy indoor cl

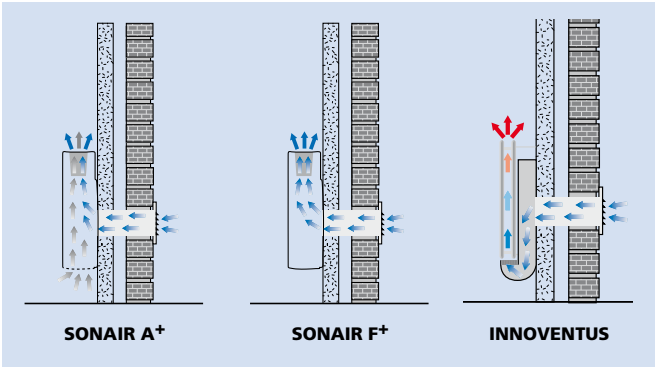
Air supply unit Sonair
Sonair attenuates sound and is extremely quiet in operation. The appliance is mounted on the wall.

Air supply unit Innoventus
Innoventus ensures the demand-controlled supply of fresh, filtered outdoor air. The appliance is mounted behind a radiator.

With two types of air supply units (wall-mounted or mounted behind a radiator), Brink Climate Systems offers various solutions for dwellings and schools. These units are sound attenuating and extremely quiet in operation. They also filter outdoor air and ventilate without draughts. With continuous, balanced mechanical extract from the wet rooms, a healthy and comfortable indoor climate is guaranteed.



BASIC DIAGRAM AIR SUPPLY UNITS



TECHNICAL SPECIFICATIONS AIR SUPPLY UNITS

Appliance type	Sonair ACC	Innoventus ACC
Dimensions H x W x D [mm]	455 x 310 x 134	370 x 410 x 142
Housing	Synthetic, colour white (RAL 9003)	Metal, colour white (RAL 9010)
Power supply [V~/Hz]	230/50	230/50
Ventilation capacity	Max. flow rate 62.5 dm³/s (225 m³/h) with G3 filter, continuously adjustable on the Control Panel	Max. flow rate 62.5 dm³/s (225 m³/h) with G3 filter, continuously adjustable on the Control Panel
Rated power [W]	9.6 at 17 dm³/s (60 m³/h) 52.3 at 62.5 dm³/s (225 m³/h)	9.6 at 17 dm³/s (60 m³/h) 52.3 at 62.5 dm³/s (225 m³/h)
White mains cable [m]	1.80	1.80

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limate guaranteed

AIR FILTERING

The air supply units Sonair and Innoventus come standard with a filter (class G3). This filter is used in conditions with normal dust levels. The G3 filter removes 70 to 85% of the particles larger than10 µm, including sand, fabric fibres, pollen, hairs and spores. It is also possible to fit Sonair and Innoventus with filters (F6) which can filter extremely small dust particles.

SONAIR ACC

The air supply units Sonair A+ and F+ guarantee a demand-controlled supply of fresh, filtered outdoor air. Sonair is mounted on the inside of an exterior wall. Sonair sucks in outdoor air through a wall sleeve. The fan is mounted in a sound-absorbing chamber, which absorbs outdoor and fan noise. The fresh air is blown vertically into the room through a filter, resulting in a healthy and comfortable indoor climate. The rate at which fresh air is supplied is controlled by pushing buttons on the top of the unit or by using the control panel.

INNOVENTUS ACC

The Innoventus guarantees a demand controlled supply of fresh, filtered outdoor air. It differs from the Sonair in that the Innoventus is mounted behind a radiator. Like Sonair, Innoventus has excellent sound proofing characteristics and sucks in fresh outdoor air through the wall sleeve. The fresh air is blown vertically into the room through a filter, resulting in a healthy and comfortable indoor climate. There are no controls on the Innoventus appliance itself. The air supply rate is controlled by a control panel.

FILTER COMPARISON

Filter	G3	G3K*	F6	F9K*
Dust (10 µm)	••	••	••	••
Fine dust (2.5 µm)			••	••
Pollen	•	•	••	••
Spores	•	•	••	••
Hairs	••	••	••	••
Sand	••	••	••	••
Textile threads	•	•	••	••
Cement dust	•	•	••	••
Bacteria				••
Odour		••		••

* Only available for Sonair
• = good
•• = very good

"An extensive range of accessories makes it possible to integrate ACC into nearly all types of dwellings and schools."

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From top to bottom:
The ACC Control Panel, the ACC CME unit and the ACC CO_2 sensor.

In addition to the air supply units Sonair and Innoventus, the ACC system requires the ACC control panel, the ACC CME unit and one or more ACC CO_2 sensors. An extensive range of wall sleeves, grilles and other accessories makes it possible to integrate ACC into nearly all types of dwellings and schools.

TECHNICAL SPECIFICATIONS SYSTEM ELEMENTS

Technical specifications	Control Panel	CO_2 sensor
Dimensions Ø x D [mm]	Ø 100 x 30*	Ø 100 x 25*
Power supply [V~/Hz]	230/50	230/50

* Mounting in standard junction box 40 mm minimum

TECHNICAL SPECIFICATIONS ACC EXHAUST BOX

Technical specifications	ACC exhaust box
Dimensions H x W x D [mm]	260 x 380 x 340
Power supply [V~/Hz]	230/50 (1 phase with europlug)
Sound pressure level [dB(A)]	28 at 75 m³/h, 20 Pa
Rated power	Max. 55 at 300 m³/h
Maximum ventilation capacity	440 m³/h at 150 Pa

Brink Climate Systems, member of Centrotec Group, develops and produces high-quality climate control systems. These systems can be found all over the world in dwellings, office buildings, health centres, sports centres, schools, workshops, showrooms and production halls.

whole-house
tilation system

CONTROL PANEL

The Control Panel is the heart of the ACC system. The required ventilation times and rates can be programmed using a rotary ring and push buttons and a simple menu structure in the Control Panel. A boost function makes it possible for users to boost the central mechanical extract for 30 minutes when cooking or having a shower.

EXTRACTION UNIT

The special ACC central mechanical extract (CME) unit is an integrated part of the ACC system. This ACC CME unit is characterized by a high ventilation capacity, extremely quiet operation and an optional wired or RF boost switch.

ACCESSOIRES

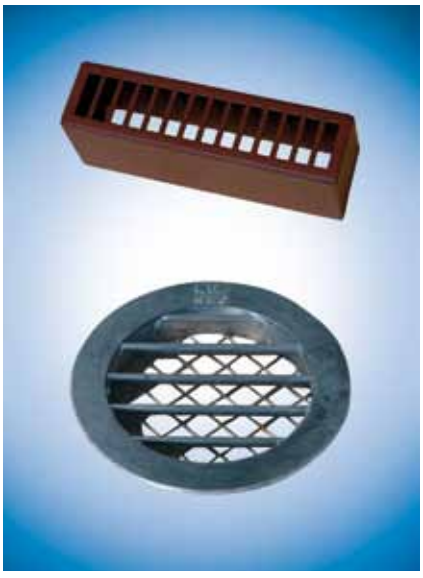
An extensive range of accessories are available for the ACC system. Rigid and flexible wall sleeves are available depending on the required sound proofing through the wall. The wall grilles are available in round, square or wall brick designs. Side or top connections are available for situations where there is insufficient room to install the Sonair.

CO_2 SENSOR

The CO_2 sensor measures the air quality in the habitable room and can be used to automatically control the ventilation rate. This guarantees a good indoor air quality and maximum energy savings. The CO_2 level is displayed on the Control Panel. The sensor LEDs on the sensor itself informs the user about the indoor air quality, without having to walk to the Control Panel.

MAINS FILTER

The ACC system must be fitted with a mains filter to comply with mandatory EMC requirements. The mains filter keeps the powerline signal within the dwelling and contributes to reliable communication. In new buildings the ACC system must be connected to its own mains group to exclude external interference sources. The mains filter is available in a surface-mounted version and in version for mounting on a DIN rail.



Various wall grilles are available for the ACC system.

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