

## Operation

### DANGER

Respect all references regarding safety and use of the freeAir100 in part General [G]!

## Display- and Operating Elements

### on Main Switch

Use for turning the freeAir on or off.

All LEDs will blink slow during start and self-test operation.

Firmware version is indicated by individual non-illuminating LEDs (digitally starting from the bottom).


During a controlled „Shut Down“ LEDs will blink fast. Vent flaps are being shut.



### - Button

Operation of your freeAir100 is so simple – you only need this button as the only control element.

With this button you can control Comfort Level, start or stop the Turbo, select Sleep or Dehumidification mode (see below).

You can change the Comfort Level by pushing  - Button several times fast. The more blue LEDs are lit the more active the instrument controls (minimum ventilation, CO<sub>2</sub>, humidity, cooling...).

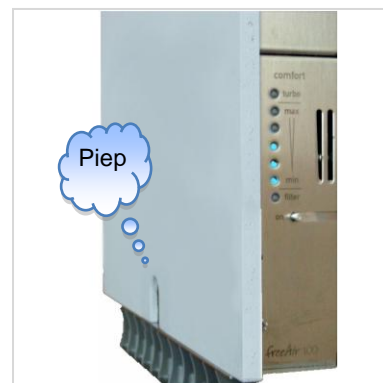
Changing Comfort Level may not immediately change fan speed.



### Audible Signals

A continuous beep-sound indicates occurrence of excessive temperatures or harmful CO<sub>2</sub>-Concentrations.

(See part [S] Service).



### Yellow LED

This LED will blink slowly during Turbo operation.

Continuous illumination indicates:

- reduced minimum ventilation due to active defrost function eliminating room air humidification, or
- the freeAir pauses,
  - because outside air is so humid that room air condensation could occur,
  - because outside temperatures are below -22°C (-30°F).
- this LED will blink fast during Turbo Cool operation.



### Blue LEDs


The number of illuminated blue LEDs indicates the selected Comfort Level.

These LEDs will blink slowly during Sleep mode.

These LEDs will flash during Dehumidification mode.



### Note

Blue LEDs will go dark after 3 minutes so as not to disturb you. Push the  - Button to "wake" them up.

### Red LED

A fast blinking red LED indicates that the last filter change has been more than 8,000 hours ago (~ 1 year).

A slow blinking red LED indicates that the air stream through a dirty and partially clogged filter is impaired. A slow blinking red LED can also indicate air stream obstructions such as inappropriately dimensioned openings between spaces of supply and extract air.

Continuous illumination indicates control error. (See appendix [S] Service).



### DANGER

- An overly dirty filter (indicated by the red LED) can reduce supply and extract air flow. This in turn can lead to diminished air quality and over or under pressure in connected rooms.
- Diminished oxygen levels can pose a health risk.
- A dirty filter can also grow germs.

### USB Port

The USB port on the left side of the device serves as a connection to the (free to our customers) freeAir-Connect software and respective updates.

### Note

Please visit our website at [www.bluMartin.de](http://www.bluMartin.de) for updates under Service / Downloads.

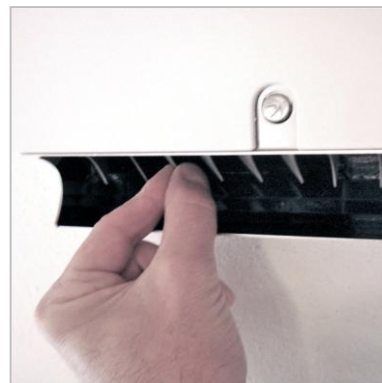


### Louver

The louver in the left part of the air output side can be rotated to accommodate any desired blow direction.

**DANGER** ⚠

Do not insert any foreign objects into the supply opening.




### Notes

- Due to the optional 2<sup>nd</sup> room air supply connection - air is only supplied from the left part of the air discharge.
- In case the included supply air outlet for wide through results in drafty condition alternative supply air outlet hardware is available.

## Comfort Operation



After switching it on the freeAir100 will operate in Comfort mode. In this mode the device will operate automatically:

If installed correctly the device will supply all connected living areas with the right amount of fresh air. Minimum air flow, CO<sub>2</sub> content, relative and absolute humidity inside and out are all taken into account.


Push the - Button several times to select Comfort Level 1 (one LED). This is the quietest level and should be selected if you like a quiet setting for instance for bed rooms.

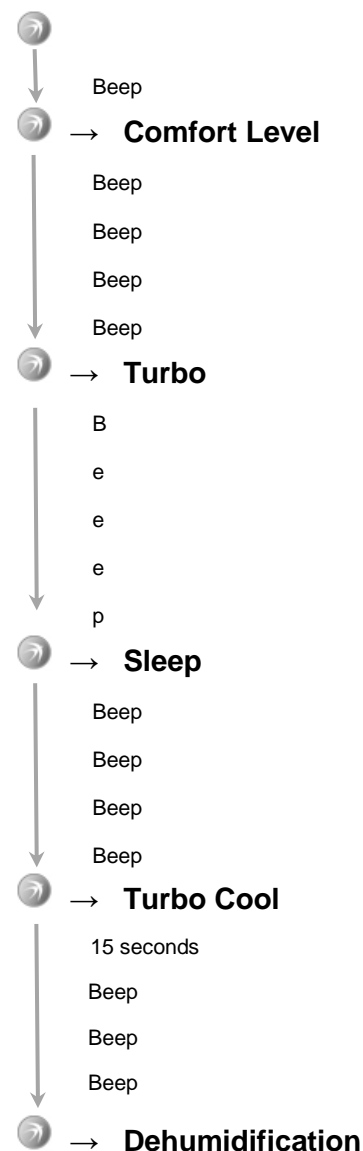
Level 3 (3 LEDs are lit) is the normal setting for living rooms.

## Turbo Operation


Push the - Button until you hear 4 short beeps. This mode should be selected if you wish to air out rooms at the highest device setting for 30 minutes. Comfort operation will be restored automatically after 30 minutes. Comfort Level can also be restored via the - Button.

## Sleep Mode

Push and hold the - Button until you hear 4 short beeps followed by a very long beep. Your freeAir100 will pause for 90 minutes before switching back to Comfort mode.




## Turbo Cool Operation

Start Turbo Cool operation by pushing and holding the  - Button till you hear 4 short beeps followed by a long beeps followed again by 4 short beeps. This will open the bypass flap and switch the device to its highest power setting for 3 hours. In this setting your living space can be cooled down noticeably by fresh evening and night air after a hot day.

Turbo Cool operation is switched off automatically when outside air temperature is too hot.

## Dehumidification Operation

Push and hold the  - Button for 15 seconds to activate this mode. This operation can be used in case of an application where the usual dehumidification level provided by the Comfort mode is not sufficient (for instance in a basement room). The freeAir100 will beep three times and blue LEDs will flash. Dehumidification will work at humidity levels as low as 45 % relative humidity. Dehumidification is optimally controlled through constant measuring of absolute humidity both inside and outside effectively suppressing humidity import through outside air.