



# Air Star Comfort 20 / 30

## User Manual



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# Package Contents

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1 piece of Air Star Comfort 20 / 30  
with 1,5 m electric cable.



1 piece of door opener



1 piece of Spiro tube



2 st Air supply filters  
2 st Exhaust air filters

## Technical data

### Comfort 20

Air change:	16-32 m <sup>3</sup> or 10 l/s
Output:	825 W
Electrical connection:	230-240 V
Fans (runs alternately) output:	10-25 W
Element output:	0-800 W

### Comfort 30

Air change:	20-48 m <sup>3</sup> or 15 l/s
Output:	830 W
Electrical connection:	230-240 V
Fans (runs alternately):	10-30 W
Element output:	0-800 W

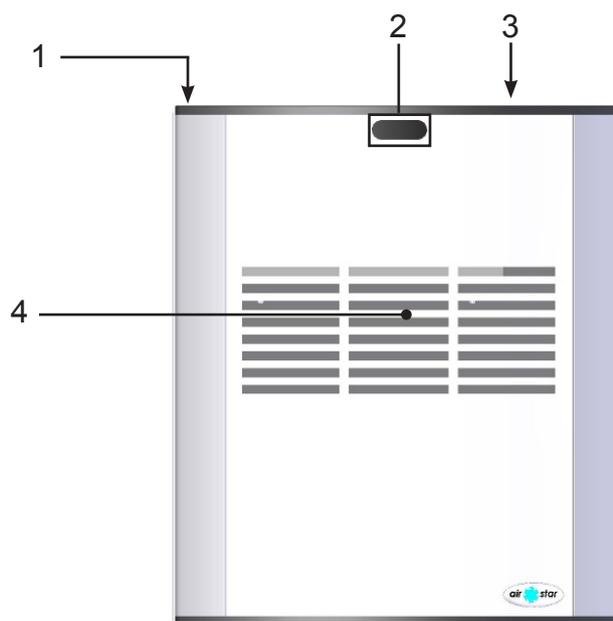
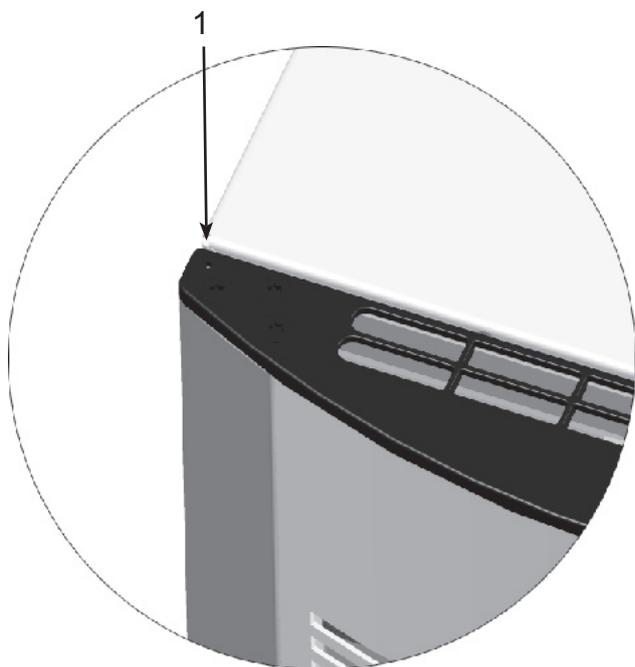
# User Guide

## Precautions

- Make sure to unplug the electric cable before usage.
- Wait for 15 minutes after turn off before you open the ventilation unit.
- It is possible that the element and the Heat charger is still warm after usage.

## Comfort 20/30

1. Hole for door opening
2. Communication window
3. Exhaust air
4. Supply air



## Open and Close the Unit

To open the front door use the door opener, which you put in nr. 1: Hole for door opening. Press until a click sounds.

When closing, make sure that the electric cable is in right place. There is a sliding made for it in the bottom of the door.

# Manual Settings

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## Adjust the Ventilation Capacity

Adjust the ventilation capacity by using control nr. 3, on page 8. The graduation above the control is suited for the room in which the Comfort 20/30 is installed. The minimum value of the graduation can supply air up to 16 m<sup>3</sup>/h. The maximum value supply air up to 32 m<sup>3</sup>/h.

*If you have trouble with radon or suffer from allergy, you should contact a ventilation expert for advise about the air change.*

By means of the remote control (accessory) ventilation adjustments can be made.

## Adjust the temperature

The temperature is set by means of a thermometer. Place the thermometer anywhere in the room. Regulate the temperature on the Ventilator by using control nr. 4, on page 8. The minimum value of the graduation can supply temperature up to 16 m<sup>3</sup>/h. The maximum value supply temperature up to 32 m<sup>3</sup>/h.

Tune it during a day or two until the right temperature has been achieved. The system will automatically keep these settings.

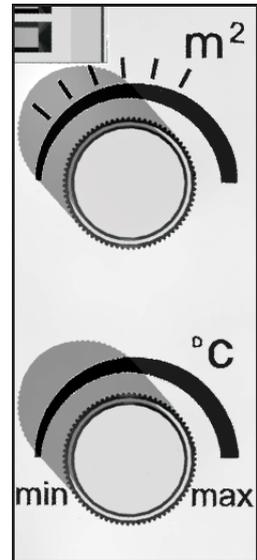
*Not: In a 20 m<sup>2</sup> room, the unit can't manage to keep 20°C alone.*

The temperature settings can also be made by means of the remote control (accessory).

## LEDS

On the upper front of the ventilator there is a communication window with leds that is lit as an indicator of actions activated by the remote control:

- A green light indicate that the heating element is on.
- A green flashing light indicates communication with remote control.
- A red light flashes while updating a setting of the unit.



# Installation

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The Air Star Comfort 20/30 can be installed in two different ways, into- or against the wall. The result of the air change is the same, regardless of which way it is installed. Installation against the wall is the easiest way. Into the wall is preferable in environments with higher aesthetic demands. On page 11 there is a drawing of the Outer Case. Its outer dimension is 290 x 340 cm, add 10-15 mm for insulation before installation into the wall.

## Placement of the ventilation unit

The placement of the ventilation unit is important and must be planned. Observe the following steps before installation of the ventilation unit.

- Make sure there is nothing but the wall on the outside of the house, where the exhaust will be.
- Locate electric cables in the wall.
- Do not place the ventilation unit behind furniture or other things that might reduce the air supply.
- The distance between the ceiling and the top of the outer case must be at least 10 cm.
- The distance between walls and the side of the outer case should be at least 10 cm.
- The distance between the floor and the bottom of the outer case should be at least 20 cm.
- The ventilation unit is preferably placed under or beside a window.
- Make sure the electric cable is long enough for the ventilation unit to be removed from the Outer Case.
- In a bathroom or a cellar the ventilation unit should be placed close to the ceiling.

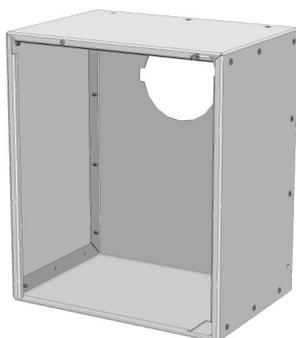
## Equipment & Tools

Pencil  
Folding rule  
Water level  
Drilling-machine  
Drill 12-15 mm

Tiger saw  
Hammer  
Breathing protection cover  
Vacuum cleaner

## Components

Outer case



Spiro tube



Ventilator



# Installation

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## Precautions

- **The aggregate must not be located immediately bellow a socket outlet**
- **In order to avoid overheating, do not cover the heater**
- **Do not place the ventilator behind furnitures or in any other place where the ventilation is reduced through the whole room.**
- **Use breathing proof protection when installing the ventilator into a concrete wall.**
- **Not more than three ventilation units should be connected to a 10A fuse. It is not recommended to connect other devices to the fuse.**

## Worksequence for Installation Against the Wall

1. Use the drillmachine to make four holes in the back of the Outer Case.
2. Place the Outer Case against the wall and draw marks with help from the four holes. Also mark the duct meant for the Spiro tube.
3. Add 10 mm around the duct so that the insulation fits. around the marking for the Spiro tube before the hole is cut.
4. Cut the tube hole by using the drillmachine and the tiger saw.
5. Place the Spiro tube surrounded with insulation in the hole. Make sure that the Spiro tube is fixed in its position. The black bushing on the Spiro tube shall be inside the Ventilator.
6. Use plugs and screws suitable for the wall, to attach the Outer case. Make sure to use washers between the screws and the case.
7. Fix the unit so that the Spiro fits to the black adapter on the Ventilators backside.
8. Connect the door cable and close the door. As soon as you connect the electric cable the ventilation unit starts.

## Worksequence for Installation Into the Wall

1. The ventilation unit installs horizontally. Mark the measures on the wall. The case's dimensions are: width 290 mm, height 340 mm. Add 10-15 mm for insulation.
2. Drill one hole in each corner with drill diameter 12-15 mm. Displace if needed.
3. Make the cut with the Tiger saw. Deepen the hollowed-out wall regarding the wall construction. The Outer Case is 205 mm deep. Maximum depth of the hollow-out is recommended to 180 mm.
4. Important! At least 30 mm of insulation must be placed between the outer wall and the backside of the ventilation unit.
5. Separate the Ventilator from its outer case. Do not forget to disconnect the door cable from the Ventilator. Then push the Outer Case into the hole.
6. Mark the place for the duct on the remaining wall with a little help from the Outer Case.
7. Drill and saw the duct for the Spiro tube.
8. Remove the outer case from the wall.

# Installation

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9. Insulate against the outer wall.
10. Place the Spiro tube surrounded with insulation in the hole. Make sure that the Spiro tube is fixed in its position. The black bushing on the Spiro tube shall be inside the Ventilator.
11. Put the outer case into the hole once again and fix it horizontally and vertically by using small wooden wedges. Drill holes in the bottom of the outer case on places suitable for the wall construction.
12. Mount the Outer Case steady to the wall with screws and washes.
13. Put insulation from the outside between the Spiro tube and the wall.
14. While still being outside, mount a ventilation cover over the hole.
15. Back indoors, mount the borders (accessory) around the ventilation unit.
16. After cleaning inside the Outer Case, put the Ventilator back in place. Connect the door cable to the Ventilator and also connect the electric cable.
17. Comfort 20/30 ventilation system is now installed and ready to use. Go to *Manual Settings* on page 5 to set the system correctly.

# Maintenance

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## Precautions

- **Make sure the Ventilator is not electrically connected before cleaning.**
- **Inside the ventilator there is an element that can be warm after usage. Wait about 15 minutes after turn-off before you start the cleaning.**
- **Use a breathing protection cover against dirt and dust.**
- **The ventilator shall not be washed with water.**

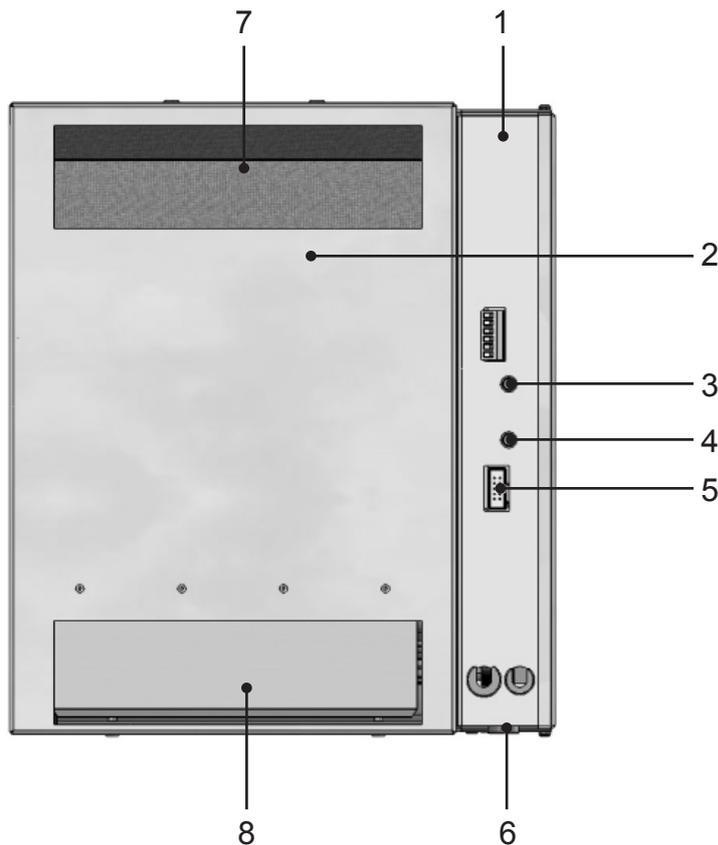
## Warning

- **If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid hazard.**

## Open the Ventilator

When opening the Ventilator the recommendation is to grab on top of the inner door and pull. There is a joint in the bottom, that keeps the Ventilator intact. When closing the inner door, lift it and press it to its original position.

# Maintenance



## Ventilator

1. Engine casing
2. Inner door
3. Ventilation capacity regulator
4. Temperature regulator
5. Door cable socket
6. Electric cable
7. Exhaust air
8. Supply air

## Heat Exchanger



## Remove & Replace the Ventilator

Open the Comfort 20/30 front door according to the description on page 4. Disconnect the door cable (10). Then grab the Ventilator on its upper part and gently pull. Make sure the Outer Case and the Spiro tube does not displace.

## Cleaning the Ventilator

Open the Comfort 20/30 front door according to the description on page 4. Disconnect the door cable. Open the ventilator's inner door and remove the heat exchanger. Use a vacuum-cleaner inside the Ventilator, the inner door and the heat exchanger.

For more thoroughly cleaning remove the Ventilator from the Outer Case, put it on a table and clean inside it with a vacuum-cleaner.

## Filter Exchange

There are two filters inside the Ventilator that are easily exchanged. One of them, the dust filter, is visible directly after opening the door. This filter is attached by a velcro, covering the exiting air hole and protects the machinery from dust. For spring and summer a pollen filter is recommended to put inside the heat exchanger.

The standard filter which filters the outside air is placed inside the Heat charger. The Heat charger can be opened for filter exchange. Filter exchange should be done at least twice per year.

- Standard filter BG/160-65, cleanable 3-6 times.
- Dust filter EG/150-65, not cleanable.
- Pollen filter EF/300-45, not cleanable.

# Drawing for Installation

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**NOTE: Frontview of Outer case.  
All dimensions in millimeters.**

