# PERFECT AIR

IDEAL $CO_2$
IDEAL HUMIDITY LEVEL
COOLING
HEATING MANAGEMENT
VENTILATION

**AIROBOT**

# Healthy indoor climate starts with Airobot

### Feel great at home with Airobot
Airobot is your home's autonomous ventilation unit, dedicated to maintaining an optimal indoor climate. Its smart sensors measure $CO_2$, VOC, temperature, and humidity levels, adjusting them automatically for your comfort.

### We make your air visible!
With Airobot, you can monitor your indoor air quality in real time. You can check the stats through our intuitive and sleek mobile application. Always feel confident about your home's environment.

### Save up to 30% on energy costs
Airobot's smart sensors can detect when a room is empty and switch to minimum speed, saving energy. If rooms are unoccupied for an average of eight hours a day, Airobot can reduce electric energy consumption by up to 30% compared to regular ventilation units, lowering your heating costs and helping the environment.

### Perfect for any home
Airobot offers ventilation units for homes of all sizes, whether old or new, small or large. Our units can be easily installed on a wall or ceiling, making them versatile for any dwelling.

### Humidity recovery heat exchanger
Traditional ventilation units expel humid indoor air and bring in dry outdoor air, especially in winter. Airobot's enthalpy-type heat exchangers retain about 60% of indoor moisture, ensuring healthy humidity levels in your home.

### Quiet operation
You won't even notice Airobot working. Operating at a noise level between 37-50 dB, Airobot ensures your peace and quiet.

### Airobot is always improving
Airobot continuously updates its software, adding new features to keep your ventilation unit up to date. All updates are automatic, so your Airobot stays cutting-edge, year after year.
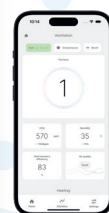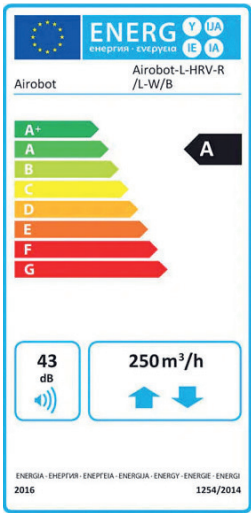
# AIROBOT L

## As standard equipment, includes:

- integrated sensors for $CO_2$, PM, VOC, air temperature, and humidity
- autonomous control for smart fan management, ensuring high-quality indoor climate
- room occupancy sensing with energy-saving mode
- humidity detection mode
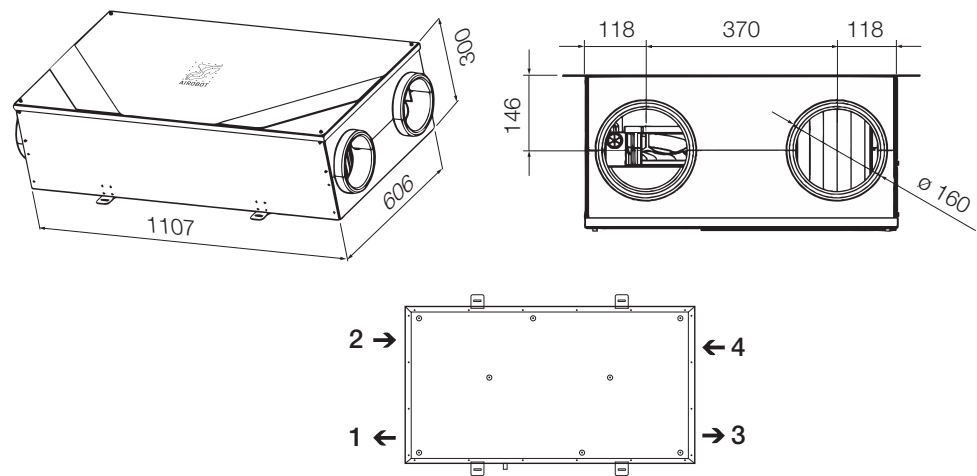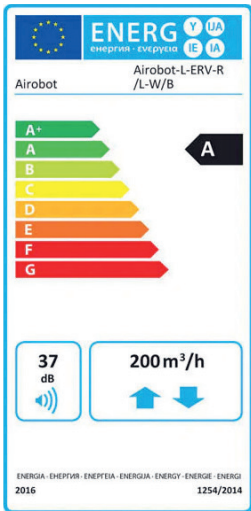- free lifetime software updates.

## Specifications

| | |
|---|---|
| Installation | ceiling-mounted, horisontally |
| Airflow up to | Airobot L: 250 m³/h or 70 l/s or 120 m² ventilated area |
| | Airobot L ERV: 200 m³/h or 55 l/s or 100 m² ventilated area |
| Heat exchanger | HRV: plate heat exchanger with heat recovery |
| | ERV: plate heat exchanger with humidity and heat recovery |
| Heat recovery efficiency | L: 89%, L ERV: 81% |
| Filters | panel filters, ePM10 55% (M5) / outside air ePM1 55% (F7) |
| Power supply | 1~230 VAC 50 Hz |
| Maximum power | 1.9 kW (10 A) |
| Motors | 2 × 83 W Radical EC motors |
| Preheater (frost protection) | integrated, nominal power 1.1 kW PTC, 0–100% control |
| Special power SPI (L / L ERV) | 0.38/0.30 W/(m³/h) 175 m3/h / 140 m3/h 50 Pa |
| Special power SFP (L / L ERV) | 1.36/1.08 W/(m³/s) 175 m3/h / 140 m3/h 50 Pa |
| Condensate connection (mm) | 15 mm, 3 m hose included (only HRV) |
| Colours | white, black, without metal casing |
| Packaging | 118 × 32 × 66 cm, weight 40 kg (20 kg without case) |

## Energy labels

Airobot L



Airobot L ERV





## Ducts

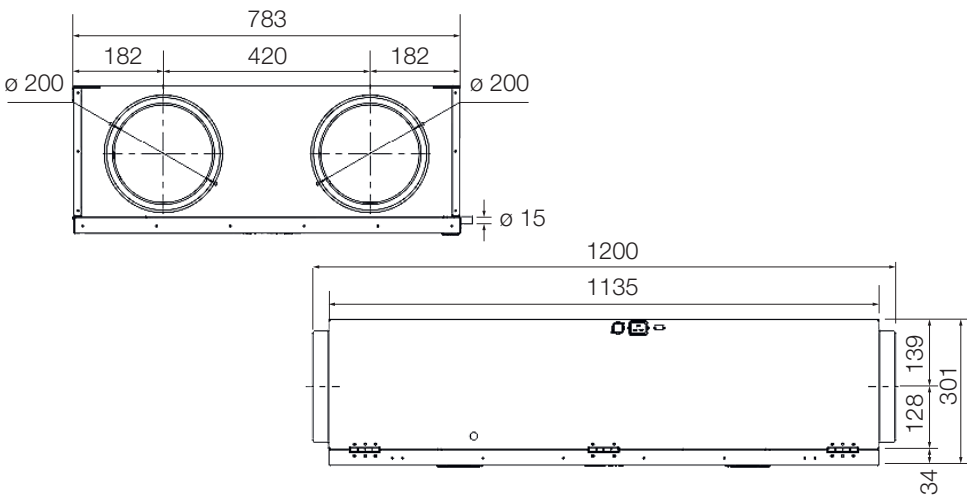| Type R | Type L |
|---|---|
| 1. Exhaust air | 1. Sypply air |
| 2. Outside air | 2. Extract air |
| 3. Sypply air | 3. Exhaust air |
| 4. Extract air | 4. Outside air |

# AIROBOT L5

## As standard equipment, includes:

- integrated sensors for $CO_2$, PM, VOC, air temperature, and humidity
- autonomous control for smart fan management, ensuring high-quality indoor climate
- room occupancy sensing with energy-saving mode
- humidity detection mode
- free lifetime software updates.

## Specifications

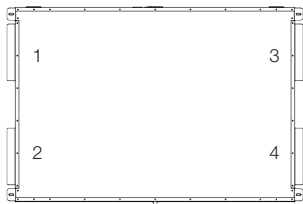| | |
|---|---|
| Installation | ceiling-mounted, horisontally |
| Airflow up to | L5: 500 m³/h or 139 l/s or 250 m² ventilated area |
| | L5 ERV: 500 m³/h or 139 l/s or 250 m² ventilated area |
| Heat exchanger | L5: plate heat exchanger with heat recovery |
| | L5 ERV: plate heat exchanger with heat and humidity recovery |
| Heat recovery efficiency | L5: 85% (70% airflow). |
| | L5 ERV: 88% (70% airflow, humidity recovery efficiency 66%) |
| Panel filters | extract ePM10 55% (M5) / outside air ePM1 55% (F7) |
| Power supply | 1~230 VAC 50 Hz |
| Maximum power | 2.2 kW (16 A) |
| Motors | 2 × 170 W Radical EC |
| Preheater (frost protection) | integrated, nominal power 1.5 kW PTC, 0–100% control |
| Special power SPI (L5 / L5 ERV) | 0.28/0.27 W/(m³/h) $^{350\ m3/h\ /\ 50\ Pa}$ |
| Special power SFP (L5 / L5 ERV) | 1.08/0.97 W/(m³/s) $^{350\ m3/h\ /\ 50\ Pa}$ |
| Condensate connection (mm) | 15 mm, 3 m hose included (only HRV) |
| Colours | white, black |
| Packaging | 1200 × 310 × 800, weight 70 kg |

## Energy labels

### Airobot L5



### Airobot L5 ERV



## Ducts

| Type R | Type L |
|---|---|
| 1. Supply air | 1. Exhaust air |
| 2. Extract air | 2. Outside air |
| 3. Exhaust air | 3. Supply air |
| 4. Outside air | 4. Extract air |

# AIROBOT V3

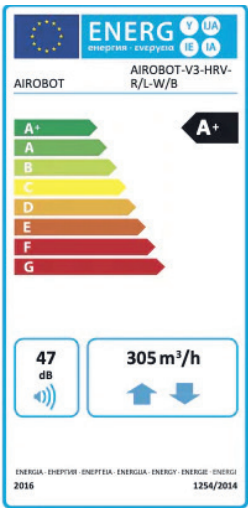## As standard equipment, includes:

- integrated sensors for $CO_2$, PM, VOC, air temperature, and humidity
- autonomous control for smart fan management, ensuring high-quality indoor climate
- room occupancy sensing with energy-saving mode
- humidity detection mode
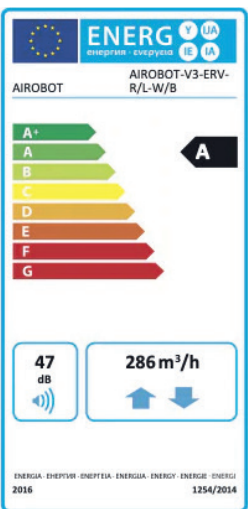- free lifetime software updates.

## Specifications

| | |
|---|---|
| Installation | wall-mounted, vertically |
| Airflow up to | V3: 309 m³/h or 86 l/s or 140 m² ventilated area |
| | V3 ERV: 286 m³/h or 80 l/s or 140 m² ventilated area |
| Heat exchanger | HRV: plate heat exchanger with heat recovery |
| | ERV: plate heat exchanger with humidity and heat recovery |
| Heat recovery efficiency | V3: 89%, V3 ERV: 84% |
| Filters | panel filters, ePM10 55% (M5) / outside air ePM1 55% (F7) |
| Power supply | 1~230 VAC 50 Hz |
| Maximum power | 1.9 kW (10 A) |
| Motors | 2 × 83 W RadiCal EC |
| Preheater (frost protection) | integrated, nominal power 1.35 kW PTC, 0–100% control |
| Special power SPI (V3 / V3 ERV) | 0.31/0.31 W/(m³/h) $^{219 m3/h / 50 Pa}$ |
| Special power SFP (V3 / V3 ERV) | 1.12 / 1.12 W/(m³/s) $^{219 m3/h / 50 Pa}$ |
| Condensate connection (mm) | 32 mm |
| Colours | white, black |
| Packaging | 60 × 60 × 80 cm, weight 45 kg |

## Energy labels

### Airobot V3



### Airobot V3 ERV



## Ducts

| Type R | Type L |
|---|---|
| 1. Supply air | 1. Exhaust air |
| 2. Extract air | 2. Outside air |
| 3. Exhaust air | 3. Supply air |
| 4. Outside air | 4. Extract air |

# AIROBOT S1

## As standard equipment, includes:

- integrated sensors for $CO_2$, PM, VOC, air temperature, and humidity
- autonomous control for smart fan management, ensuring high-quality indoor climate
- room occupancy sensing with energy-saving mode
- humidity detection mode
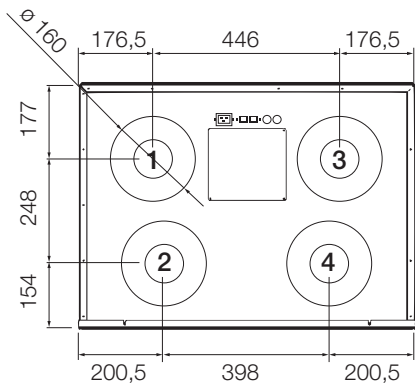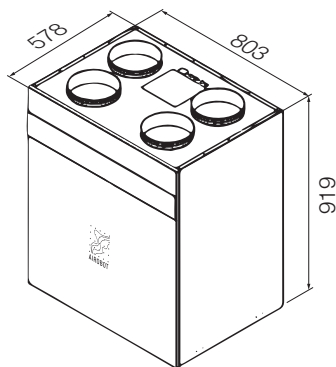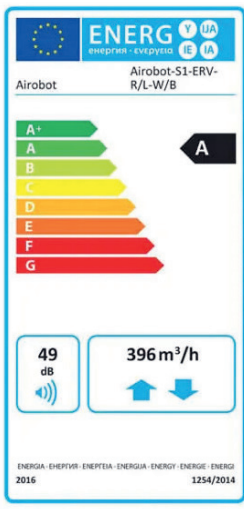- free lifetime software updates.

## Specifications

| | |
|---|---|
| Installation | wall-mounted, vertically |
| Airflow up to | Airobot S1 / S1 ERV: 400 m³/h or 111 l/s |
| | or 170 m² ventilated area |
| Heat exchanger | HRV: plate heat exchanger with heat recovery |
| | ERV: plate heat exchanger with humidity and heat recovery |
| Heat recovery efficiency | S1: 92.6%, S1 ERV: 87% |
| Filters | panel filters, ePM10 55% (M5) / outside air ePM10 55% (M5) |
| Power supply | 1~230 VAC 50 Hz |
| Maximum power | 2.2 kW (16 A) |
| Motors | 2×118 W EC |
| Preheater (frost protection) | integrated, nominal power 1.35 kW PTC, 0–100% control |
| Special power SPI (S1 / S1 ERV) | 0.32/0.32 W/(m³/h) $^{277\ m3/h\ /\ 50\ Pa}$ |
| Special power SFP (S1 / S1 ERV) | 1.15/1.15 W/(m³/s) $^{277\ m3/h\ /\ 50\ Pa}$ |
| Condensate connection (mm) | 32 mm |
| Colours | white, black |
| Packaging | 60 × 80 × 131 cm, weight 60 kg |

## Energy labels

Airobot S1



Airobot S1 ERV





## Ducts

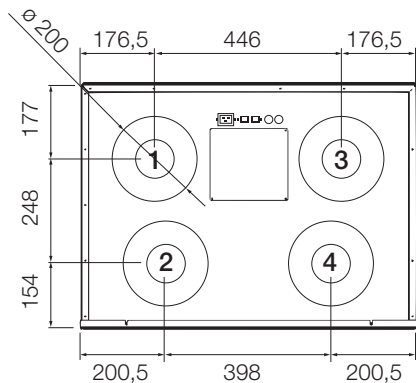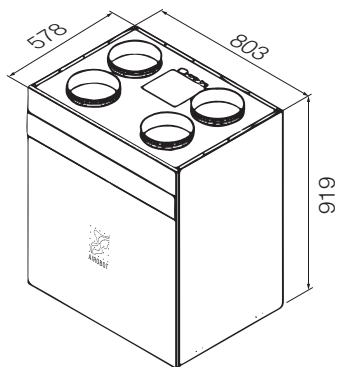| Type R | Type L |
|---|---|
| 1. Supply air | 1. Exhaust air |
| 2. Extract air | 2. Outside air |
| 3. Exhaust air | 3. Supply air |
| 4. Outside air | 4. Extract air |

# AIROBOT S2

## As standard equipment, includes:

- integrated sensors for $CO_2$, PM, VOC, air temperature, and humidity
- autonomous control for smart fan management, ensuring high-quality indoor climate
- room occupancy sensing with energy-saving mode
- humidity detection mode
- free lifetime software updates.

## Specifications

| | |
|---|---|
| Installation | wall-mounted, vertically |
| Airflow up to | Airobot S2 / S2 ERV: 500 m³/h or 139 l/s |
| | or 250 m² ventilated area |
| Heat exchanger | HRV: plate heat exchanger with heat recovery |
| | ERV: plate heat exchanger with humidity and heat recovery |
| Heat recovery efficiency | S2: 92.2%, S2 ERV: 85.1% |
| Filters | panel filters, ePM10 55% (M5) / outside air ePM10 55% (M5) |
| Power supply | 1~230 VAC 50 Hz |
| Maximum power | 2.2 kW (16 A) |
| Motors | 2 × 163 W EC |
| Preheater (frost protection) | integrated, nominal power 1.35 kW PTC, 0–100% control |
| Special power SPI (S2 / S2 ERV) | 0.37 / 0.37 W/(m³/h) [277 m3/h / 50 Pa] |
| Special power SFP (S2 / S2 ERV) | 1.33 / 1.33 W/(m³/s) [277 m3/h / 50 Pa] |
| Condensate connection (mm) | 32 mm |
| Colours | white, black |
| Packaging | 60 × 80 × 131 cm, weight 60 kg |

## Energy labels

Airobot S2



Airobot S2 ERV





## Ducts

| Type R | Type L |
|---|---|
| 1. Supply air | 1. Exhaust air |
| 2. Extract air | 2. Outside air |
| 3. Exhaust air | 3. Supply air |
| 4. Outside air | 4. Extract air |
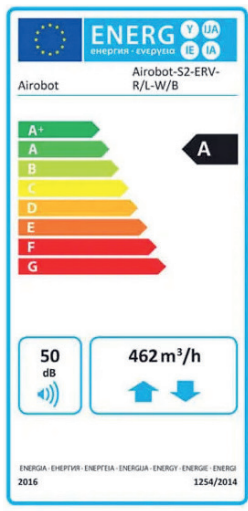
# AIROBOT V8



## As standard equipment, includes:

- integrated sensors for $CO_2$, PM, VOC, air temperature, and humidity
- autonomous control for smart fan management, ensuring high-quality indoor climate
- room occupancy sensing with energy-saving mode
- humidity detection mode
- free lifetime software updates.

## Specifications

| | |
|---|---|
| Installation | wall-mounted or floor frame |
| Airflow up to | V8: 750 m³/h or 208 l/s or 350 m² ventilated area |
| Heat exchanger | HRV: plate heat exchanger with heat recovery |
| | ERV: plate heat exchanger with moisture and heat recovery |
| Heat recovery efficiency | V8: 85.4, V8 ERV 84% |
| Filters | panel filters, ePM10 55% (M5) / outside air ePM1 55% (F7) |
| Power supply | 1~230 VAC 50 Hz |
| Maximum power | 3,6 kW |
| Motors | 2×170 W RadiCal EC |
| Preheater (frost protection) | integrated, nominal power 2,7 kW PTC, 0–100% control |
| Special power SPI (V8 / V8 ERV) | 0.22 / 0.20 W/(m³/h) $^{525 m3/h / 50 Pa}$ |
| Special power SFP (V8 / V8 ERV) | 0.72 / 0.79 W/(m³/s) $^{525 m3/h / 50 Pa}$ |
| Condensate connection (mm) | 32 mm |
| Colours | white, black |
| Packaging | 60 × 103 × 97,5 cm, weight 90 kg |

## Energy labels
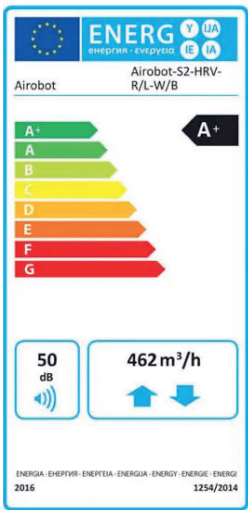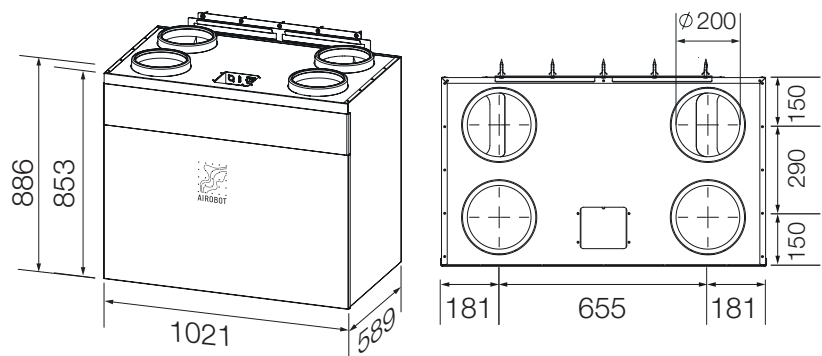
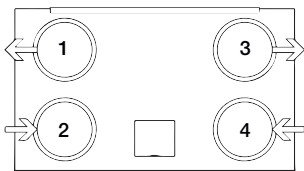### Airobot V8



### Airobot V8 ERV





## Ducts

**Type R**

1. Supply air
2. Extract air
3. Exhaust air
4. Outside air

**Type L**
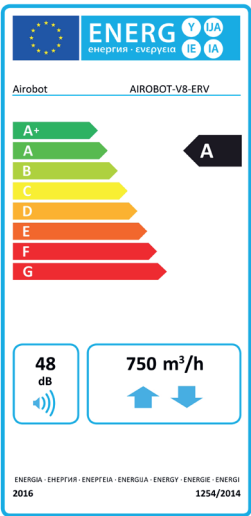
1. Exhaust air
2. Outside air
3. Supply air
4. Extract air
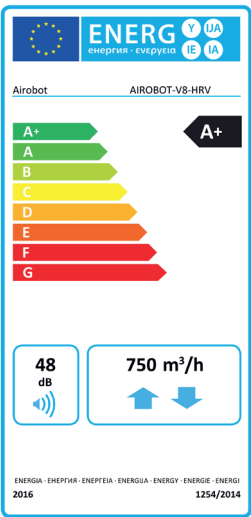
# AIROBOT
## CENTRAL AIR HUMIDIFIER

Central air humidifiers are used during the heating season when humidity can drop to an uncomfortably low level. A central electrode steam humidifier allows its users to raise and maintain a higher humidity level in their homes through the ventilation system.

## Specifications

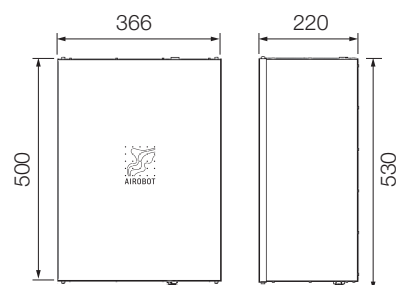| | |
|---|---|
| Placement | on the walls or ceiling |
| Amount of steam produced | up to 3 kg/h |
| Power supply | 1~230 VAC 16 A |
| Maximum capacity | 2,3 kW (10 A) |
| Power connection | power plug |
| Steam pipe connection | 22 mm |
| Drainage connection | 32 mm, drainage pipe |
| Condensate nozzle connection | 8 mm |
| Connection to the sewer and water supply | required |
| Maintenance | regular cleaning or replacement of the steam cylinder must occur every 3000 work hours (one winter period) |
| Colours | white, black |
| Dimensions | depth 222 mm, length 366 mm, height 530 mm |
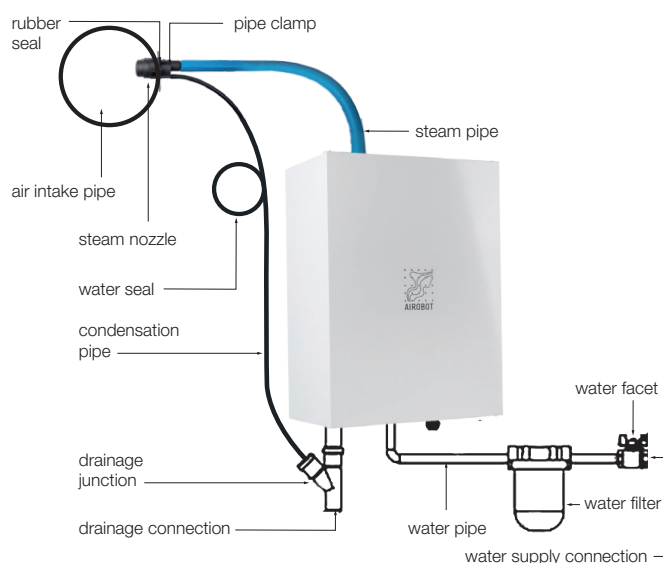
## Features

- Allows the user to regulate air humidity in their own home (up to 40%).
- Retains humidity at the desired level.
- Functions only with an Airobot ventilation unit.
- It is necessary to install a supply air sensor (which is included) one meter away from the humidifer nozzle.

## Water supply requirements

- A pressure of 1-8 bars.
- The minimum amount of water delivered from the water supply must be 0.6 l/min.
- The minimum amount of water drainage must be 4 l/min.
- The temperature must be between +5 and +40 °C.
- The connection type must be a 3/4'' external pipe thread.
- Install a water faucet before installing the device.
- Do not use water softeners – it can lead to corroded electrodes and create foam in the device, which may stop it from functioning as intended.
- The maximum temperature of the water in the drainage system can be up to 100°C. Thermal hazard!

## Connecting



rubber seal
pipe clamp
steam pipe
air intake pipe
steam nozzle
water seal
condensation pipe
drainage junction
drainage connection
water facet
water filter
water pipe
water supply connection

## Measurements



366
220
500
530

# AIROBOT
## HEATING CONTROL
### ROOM SENSORS
### WITH ROOM
### CONTROLLER

- Airobot floor heating room sensors have built-in $CO_2$ sensors, showing room temperature, humidity and air quality
- control your heating room by room and adjust the indoor climate comfortably using Airobot app
- Airobot thermostats and ventilation device can be connected. You can control air quality even more presicely.

## Specifications

| | |
|---|---|
| Maximum room sensors | 8 |
| Room sensors connection | 4-core cable ( $4 \times 0.22$ mm$^2$ – 0.75 mm$^2$) |
| Floor temperature sensor | Optional, 10k$\Omega$ |
| Maximum heating zones | 8 |
| Maximum actuators | 12 |
| Valve actuators | 24V, normally closed, max. switching current 0.2 A |
| Power supply | 230 VAC 50/60 Hz. 1 meter EU-plug |
| Integrated relay 1 | 24 V, max 0.2 A |
| Integrated relay 2 | Potential free, max. 2 A |
| Network connection | Wi-Fi 2.4 GHz, LAN |
| Building automation | Local API |
| Dimensions | 244 ×55 × 120 mm |

Room sensor available:
- with temperature and humidity measurement
- with $CO_2$, temperature and humidity measurement

Colours: white, black

## Connecting

room sensor

max 8

actuator

| A | B | Ve+ | Ve- |
|---|---|---|---|

| A | B | Ve+ | Ve- |
|---|---|---|---|

4-core
low current cable

Max 8 zones
or 12 actuators

24 V NC actuators

manifold

actuator 24 V

LAN
>CAT5e

| LAN |
|---|

room controller

| + | - |
|---|---|

| L | N | PE |
|---|---|---|

Power supply
220–240 VAC
50–60 Hz
max 8 A

PE
N
L

# AIROBOT
## HEATING CONTROL THERMOSTAT

- Airobot floor heating thermostats have built-in $CO_2$ sensors, showing room temperature, humidity and air quality
- control your heating room by room and adjust the indoor climate comfortably using Airobot app
- Airobot thermostats and ventilation device can be connected. You can control air quality even more presicely.
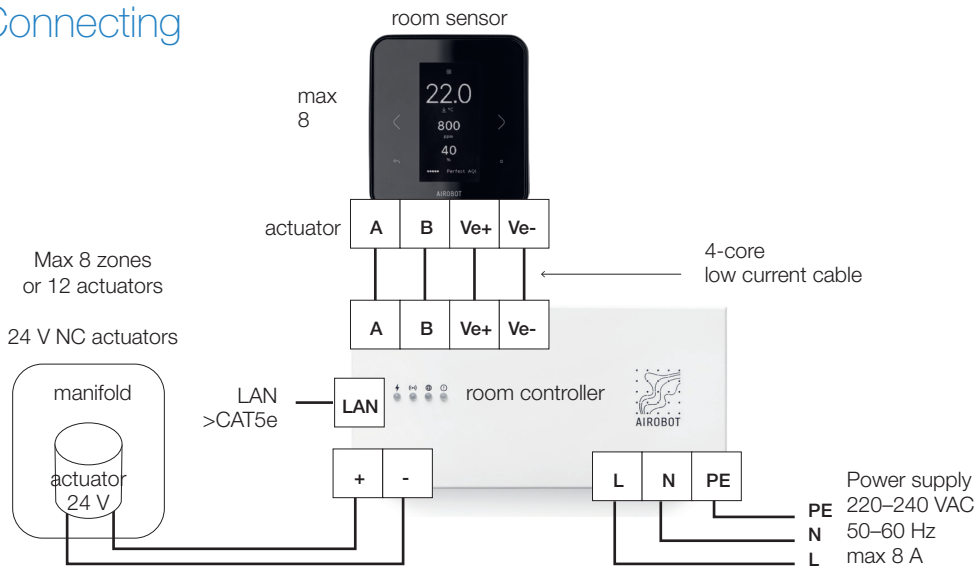
## Specifications

| | |
|---|---|
| Maximum heating zones | 1 |
| Maximum actuators | 5 pcs |
| Valve actuators | 230 V, normally closed, max. switching current 0.2 A |
| Power supply | 230 VAC 50/60 Hz, 2 × 1.5 mm², wall box |
| Network connection | Wi-Fi 2.4 GHz |
| Building automation | Local API |

Thermostat available:
- with temperature and humidity measurement
- with $CO_2$, temperature and humidity measurement
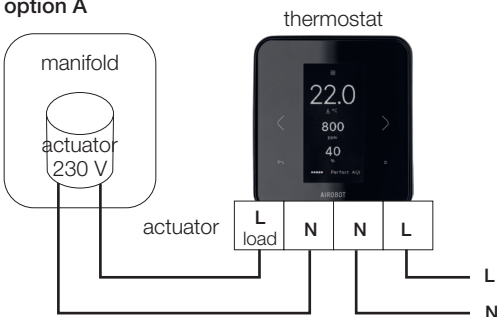
Colours: white, black

## Features

- Modern and energy-saving e-paper screen
- Touch sensitive buttons
- Precise control: high-precision (0.2 °C) digital temperature and humidity sensors measure room temperature very precisely and make control more efficient
- "Away" operating mode allows to set up separate set point
- Floor sensor input
- Silent switching: the thermostat does not make a clicking sound
- Regular switching of the actuator during non-heating periods (to avoid scale).
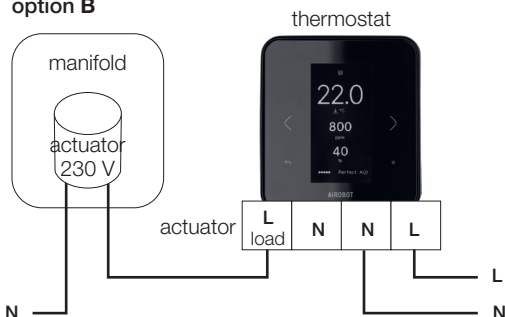
## Integration

The Airobot smart thermostat has an open local API that allows it to integrate with almost all smart home systems very easily and quickly.

## Connecting

**option A**

manifold — actuator 230 V

thermostat

actuator | L load | N | N | L

L
N

**option B**

manifold — actuator 230 V

thermostat

actuator | L load | N | N | L

N
L
N

## Airobot Technologies AS

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## Feedback from customers

" Considering that I have dust allergy and my daughter is asthmatic, it can be said that Airobot has greatly improved our quality of life.

" Airobot operates quietly by itself and does a great job adjusting the air quality.

" We have used our Airobot for a year, and I am satisfied! The air is tip-top.

" I purchased an Airobot unit. All dealers said that it is far better than other products on the market. And I do not regret the purchase: it is efficient, quiet and well-designed. I can definitely recommend the product.

" My relative purchased an Airobot unit for their 300 $m^2$ home and was very satisfied. The device looks futuristic and high-tech.

## AIROBOT