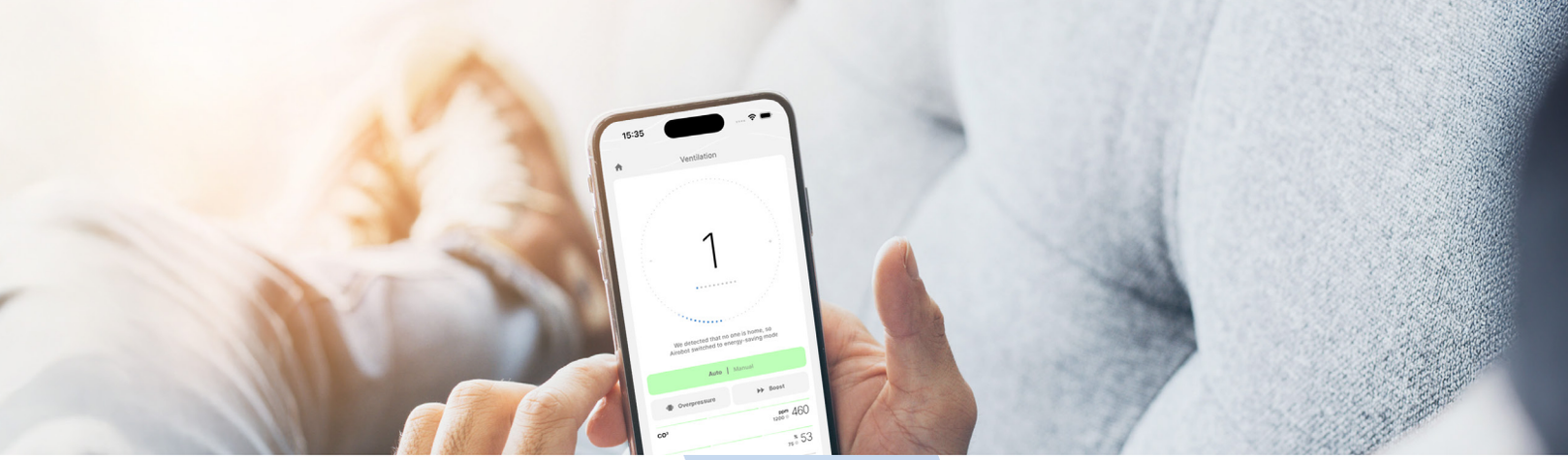
Intelligent ventilation devices and smart heating
control solutions designed and produced in the EU

www.airobothome.com



Your home should work for you

A home is more than walls and a roof. It's where you relax, spend time with your family, and recharge for tomorrow. But here's something many don't realize: your indoor climate quietly affects how well you sleep, how healthy you feel, and even how much you spend.

Hidden discomforts

Even in a brand-new or well-built home, invisible issues can creep in: high CO_2 levels, dry air, or uneven temperatures. They take a bigger toll on your well-being than you might expect. A poor indoor climate often shows up as morning fatigue, trouble focusing during the day, or your family getting sick more often.

Fatigue doesn't always come from your bed

CO_2 levels in a room can reach unhealthy levels in less than an hour. Quality sleep, real rest, and focus all start with fresh air. Airobot keeps CO_2 levels where they should be—automatically, without you lifting a finger.

Airobot knows when you're away

Airobot detects when your rooms are empty and automatically switches to energy-saving mode. If your home is unoccupied for around eight hours a day, Airobot can cut electricity use by up to 30% compared to conventional ventilation systems.

Airobot keeps humidity at a healthy level

Traditional ventilation systems push all indoor moisture out—especially in winter—leaving the air uncomfortably dry. Airobot ERV models retain up to 60% of indoor humidity, helping to prevent issues like coughing, skin irritation, and mold risk. The result: air that simply feels better to breathe.

What does life with Airobot feel like?

Healthy, comfortable air you notice with every breath. Airobot automatically monitors and adjusts:

- CO_2 levels
- Volatile organic compounds (VOCs)
- Humidity and temperature
- Fine particles (PM)

All of this works quietly in the background (37–50 dB). The system even updates its software on its own—so your home climate keeps getting better without you doing a thing.

Control everything from one app

All Airobot functions are at your fingertips in our mobile app. You can track your indoor climate in real time and adjust settings to match your needs—quickly, easily, and from anywhere.

A complete indoor climate solution

Airobot is more than a ventilation unit. Our product family also includes:

- **Thermostats for floor heating and cooling**
- **Dual-zone ventilation**
- **Central humidifier**
- **Duct heater and cooler**

All components work seamlessly together, connected wirelessly and guided by intelligent algorithms developed in Estonia in collaboration with TalTech and the University of Tartu.

Airobot. Breathe different

We believe a healthy indoor climate shouldn't be a luxury. Our goal is to create homes where well-being comes naturally—without constant adjustments or complicated controls. With Airobot, your home takes care of itself, so you can simply live, rest, and breathe different.

Let's talk action!

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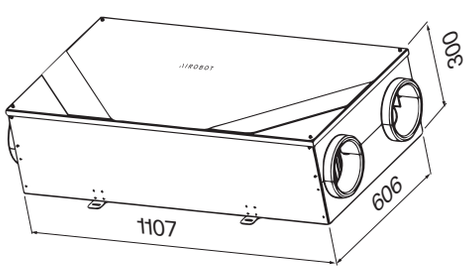
Airobot L

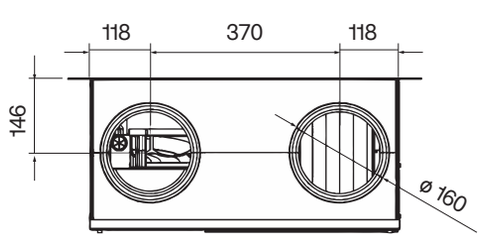
Standard features include:

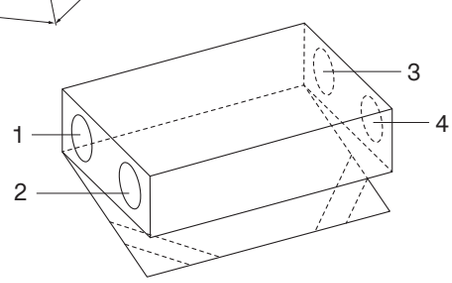
- Built-in sensors for CO_2, VOCs, temperature, humidity, and fine particles
- Autonomous control that ensures energy efficiency and healthy indoor air
- Occupancy detection with automatic energy-saving mode
- Sudden humidity detection mode
- Wi-Fi and LAN connectivity

Technical data

Installation position	Horizontally to the ceiling
Air volume up to	L: 250 m³/h or 70 l/s or 120 m² of ventilated area
	L ERV: 200 m³/h or 55 lL/s or 100 m² of ventilated area
Heat exchanger	HRV: plate heat exchanger with heat recovery
	ERV: plate heat exchanger with moisture and heat recovery
Heat recovery efficiency	ERV up to 84,5%; HRV up to 93,4%
Filters	ePM10 55% (M5) / outdoor air ePM1 55% (F7)
Power supply	1~230 VAC 50 Hz
Maximum capacity	1.9 kW (10 A)
Motors	2×83 W Radical EC
Preheating (frost protection)	integrated, nominal power 1.1 kW PTC, adaptive
Specific capacity SPI (HRV / ERV)	0.38/0.30 kW/(m³/s) 175 m³/h / 140 m³/h 50 Pa
Specific capacity SFP (HRV / ERV)	1.36/1.08 kW/(m³/s) 175 m³/h / 140 m³/h 50 Pa
Condensate connection (mm)	15 mm, 3 m hose included (HRV only)
Color	white / black
Packaging	118 × 64 × 35 cm, weight 40 kg

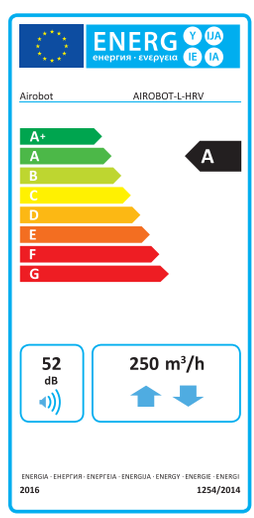




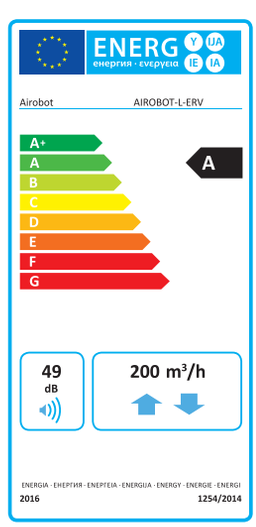


Energy labels

Airobot L



Airobot L ERV



Duct layout

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

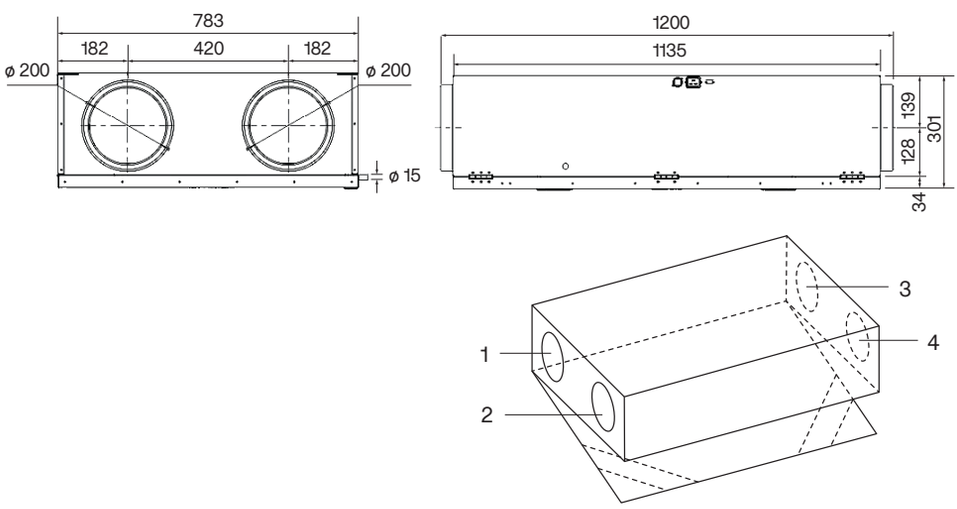
Airobot L5

Standard features include:

- Built-in sensors for CO_2, VOCs, temperature, humidity, and fine particles
- Autonomous control that ensures energy efficiency and healthy indoor air
- Occupancy detection with automatic energy-saving mode
- Sudden humidity detection mode
- Wi-Fi and LAN connectivity

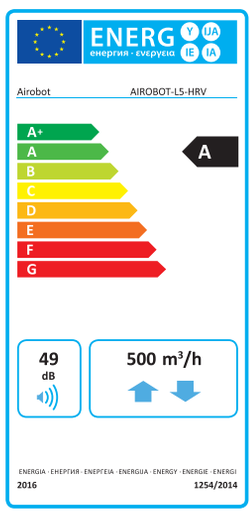
Technical data

Installation position	Horizontally to the ceiling
Air volume up to	500 m³/h or 139 l/s or 250 m² of ventilated area
Heat exchanger	L5: plate heat exchanger with heat recovery
	L5 ERV: plate heat exchanger with moisture and heat recovery
Heat recovery efficiency	ERV up to 91,6%; HRV up to 92%
Filters	ePM10 55% (M5) / outdoor air ePM1 55% (F7)
Power supply	1~230 VAC 50 Hz
Maximum capacity	2.2 kW (16 A)
Motors	2 × 170 W Radical EC
Preheating (frost protection)	Integrated, nominal power 1.5 kW PTC
Specific capacity SPI (HRV / ERV)	0.28/0.27 kW/(m³/h) 350 m³/h / 50 Pa
Specific capacity SFP (HRV / ERV)	1.08/0.97 kW/(m³/h) 350 m³/h / 50 Pa
Condensate connection (mm)	15 mm, 3 m hose included (HRV only)
Color	white / black
Packaging	120 × 80 × 31 cm, weight 70 kg

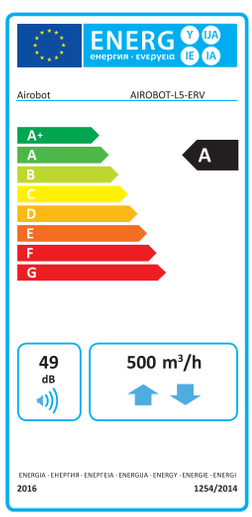


Energy labels

Airobot L5



Airobot L5 ERV



Duct layout

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

Standard features include:

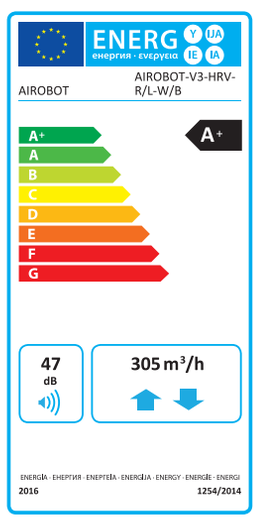
- Built-in sensors for CO_2, VOCs, temperature, humidity, and fine particles
- Autonomous control that ensures energy efficiency and healthy indoor air
- Occupancy detection with automatic energy-saving mode
- Sudden humidity detection mode
- Wi-Fi and LAN connectivity

Technical data

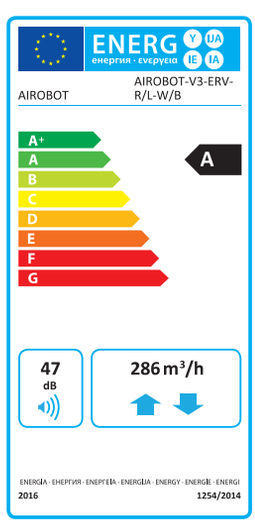
Installation position	Wall mounted
Air volume up to	300 m³/h or 83 L/s or 140 m² ventilated area
Heat exchanger	HRV: heat recovery plate heat exchanger
	ERV: moisture and heat recovery plate heat exchanger
Heat recovery efficiency	ERV up to 90,5%; HRV up to 94,7%
Filters	Extraction ePM10 55% (M5) / Outdoor air ePM1 55% (F7)
Power supply	1~230 VAC 50 Hz
Maximum capacity	2.1 kW (16A)
Motors	2 × 83 W Radical EC
Preheating (frost protection)	Integrated, nominal power 1.5 kW PTC
Specific capacity SPI (HRV / ERV)	0.38 / 0.3 kW/(m³/h) 219 m³/h / 50 Pa
Specific capacity SFP (HRV / ERV)	1.36 / 1.08 kW/(m³/h) 219 m³/h / 50 Pa
Condensate connection (mm)	32 mm, negative pressure valve included (HRV only)
Color	white / black
Packaging	80 × 60 × 60 cm, weight 50 kg

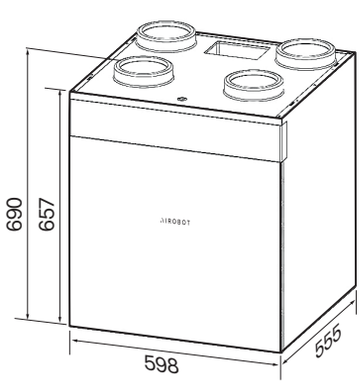
Energy labels

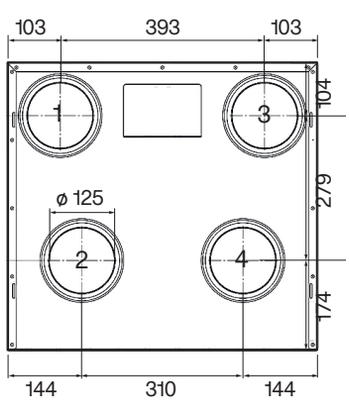
Airobot V3



Airobot V3 ERV







Duct layout

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 V4

Standard features include:

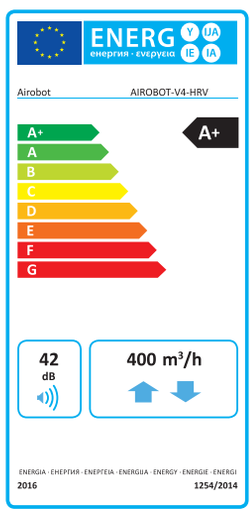
- Built-in sensors for CO_2, VOCs, temperature, humidity, and fine particles
- Autonomous control that ensures energy efficiency and healthy indoor air
- Occupancy detection with automatic energy-saving mode
- Sudden humidity detection mode
- Wi-Fi and LAN connectivity

Technical data

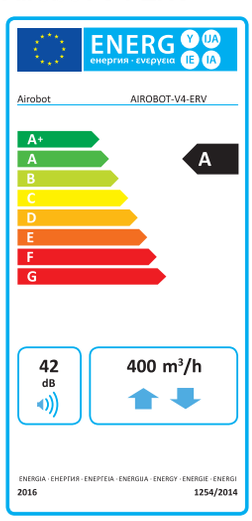
Installation position	wall
Air volume up to	400 m³/h or 111 l/s. 170 m² ventilated area
Heat exchanger	HRV: plate heat exchanger with heat recovery ERV: plate heat exchanger with moisture and heat recovery
Heat recovery efficiency	ERV up to 91%; HRV up to 96,1%
Filters	Extraction ePM10 55% (M5) / outdoor air ePM1 55% (F7)
Power supply	1~230 VAC 50 Hz
Maximum capacity	2.7 kW (16 A)
Motors	2 × 90 W Radical EC
Preheating (frost protection)	Integrated, nominal power 1.5 kW PTC
Specific capacity SPI (HRV / ERV)	0.22 kW/(m³/h) 280 m³/h, 50 Pa
Specific capacity SFP (HRV / ERV)	0.79 kW/(m³/s) 280 m³/h, 50 Pa
Condensate connection (mm)	32 mm, negative pressure valve included (HRV only)
Color	white / black
Packaging	60 × 80 × 103 cm, weight 60 kg

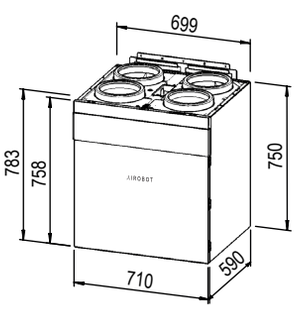
Energy labels

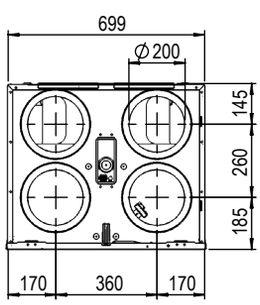
Airobot V4

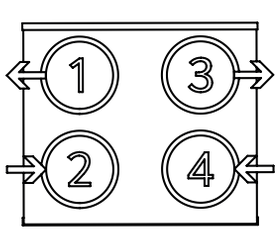


Airobot V4 ERV









Duct layout

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 V6

Standard features include:

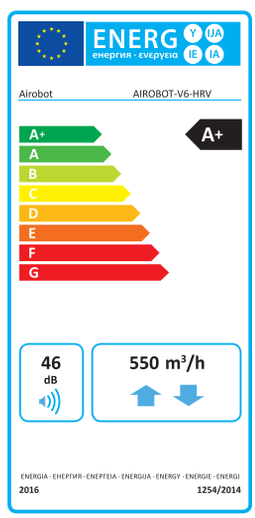
- Built-in sensors for CO_2, VOCs, temperature, humidity, and fine particles
- Autonomous control that ensures energy efficiency and healthy indoor air
- Occupancy detection with automatic energy-saving mode
- Sudden humidity detection mode
- Wi-Fi and LAN connectivity

Technical data

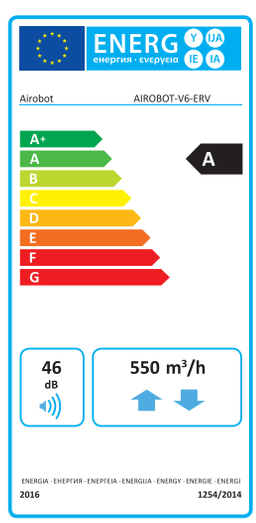
Installation position	wall
Air volume up to	550 m³/h or 153 L/s or 250 m² ventilated area
Heat exchanger	HRV: heat recovery plate heat exchanger ERV: moisture and heat recovery plate heat exchanger
Heat recovery efficiency	ERV up to 90,6%; HRV up to 95,7%
Filters	ePM10 55% (M5) / outdoor air ePM1 55% (F7)
Power supply	1~230 VAC 50 Hz
Maximum capacity	2.7 kW (16 A)
Motors	2 × 170 W Radical EC
Preheating (frost protection)	Integrated, nominal power 1.5 kW PTC
Specific capacity SPI (HRV / ERV)	0.28 kW/(m³/h) 385 m³/h, 50 Pa
Specific capacity SFP (HRV / ERV)	1.0 kW/(m³/s) 385 m³/h, 50 Pa
Condensate connection (mm)	32 mm
Color	white / black
Packaging	60 × 80 × 103 cm, weight 60 kg

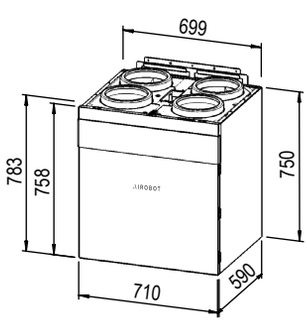
Energy labels

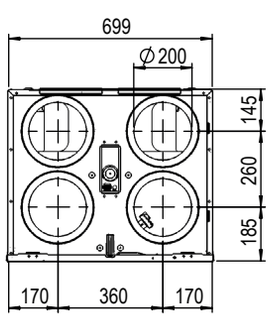
Airobot V6

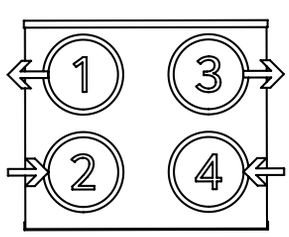


Airobot V6 ERV









Duct layout

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

Standard features include:

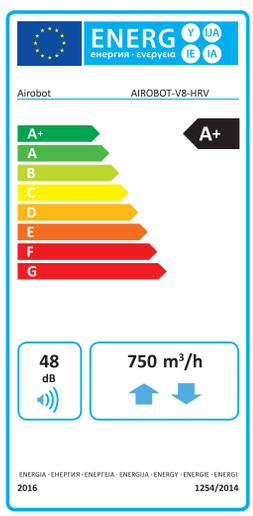
- Built-in sensors for CO_2, VOCs, temperature, humidity, and fine particles
- Autonomous control that ensures energy efficiency and healthy indoor air
- Occupancy detection with automatic energy-saving mode
- Sudden humidity detection mode
- Wi-Fi and LAN connectivity

Technical data

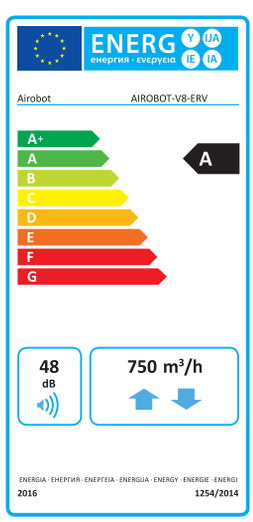
Installation position	On the wall or floor
Air volume up to	750 m^3 /h or 208 l/s or 350 m^2 ventilated area
Heat exchanger	HRV: heat recovery plate heat exchanger
	ERV: moisture and heat recovery plate heat exchanger
Heat recovery efficiency	ERV up to 89,2%, HRV up to 92,4%
Filters	Extraction ePM10 55% (M5) / outside air ePM1 55% (F7)
Power supply	1~230 VAC 50 Hz
Maximum capacity	3.6 kW (16 A)
Motors	2 × 170 W EC
Preheating (frost protection)	integrated, nominal power 2.7 kW PTC
Specific capacity SPI (HRV /	0.22/0.20 kW/(m^3/h) 525 m^3/h / 50 Pa
ERV)	0.72/0.79 kW/(m^3/h) 525 m^3/h / 50 Pa
Specific capacity SFP (HRV /	32 mm, negative pressure valve included (HRV only)
ERV)	white / black
Condensate connection (mm)	103 × 60 × 97.5 cm, weight 90 kg

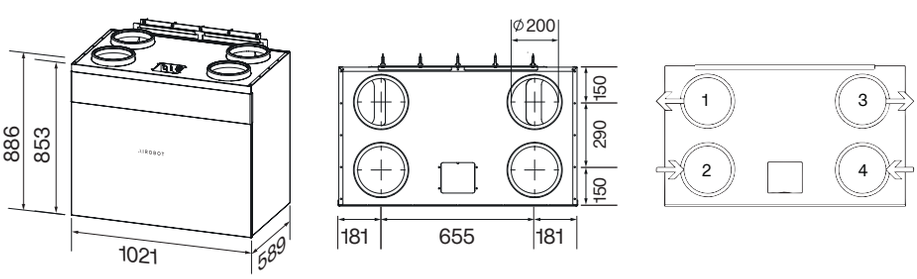
Energy labels

Airobot V8



Airobot V8 ERV





Duct layout

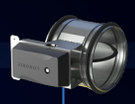
TYPE R	TYPE L
1. Supply air	1. Exhaust air
2. Extract air	2. Outside air
3. Exhaust air	3. Supply air
4. Outside air	4. Extract air

Airobot Ecosystem

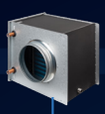
Water heater and cooler
Up to 5 kW

Hydronic heating and cooling with circulation pumps or valves. Ensures efficient temperature control and is managed through the VC-EXT module for valve or pump operation.

Dual-zone ventilation dampers

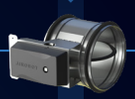


Supply air



VC-EXT
(Ventilation extension module)

Extension module for zonal ventilation dampers or duct heater/cooler. Connects to the ventilation unit with a 1 m dedicated cable. Powered via EU socket (230 V, max 0.5 A).



Dual-zone ventilation dampers

Motorized dampers for zonal air distribution. Reduce noise and energy use by ventilating only where it's needed. Connected to the VC-EXT module via a 4-core cable.

Extract air

Measurement and analysis
of CO_2, temperature, humidity, PM2.5, and VOCs

Central humidifier
Up to 3 kg/h

A central steam humidifier connected to the supply air duct. Keeps indoor humidity at a healthy level during the heating season. Controlled via the ventilation unit with a 2-core cable. Powered separately (230 V, 16 A, EU plug).

Ventilation unit

An intelligent ventilation system with heat and humidity recovery. Automatically maintains healthy indoor air quality. The core of the ecosystem—connects with all devices, the cloud, and the app via LAN or Wi-Fi. Powered by 230 V, EU plug.

VE1 Ventilation unit controller

A wired control panel for the ventilation unit. Provides direct user control without the mobile app. Connects to the ventilation unit with a 4-core cable (3 m included).

Airobot App

Cloud connection
Network

Remote control via Airobot Cloud. Manage your system and receive software updates through the app. Connected via Wi-Fi/LAN through the ventilation unit, with thermostats and controllers also linked to the cloud.

Fan coil unit
(external)

Water-based cooling fan coil for quiet and efficient room temperature control. Managed through the extension module.

HC-EXTC
Underfloor heating room controller extension module

Extension module for cooling fan coils. Connects to the room controller with a 0.5 m cable (included).

Underfloor heating

Underfloor heating

Thermostats 230 V

Smart thermostats for underfloor heating control. Provide room-based temperature regulation and connect to the cloud. External relay available for electric underfloor heating.

CO_2 measurement and analysis
in every room

Room controller + sensors 24 V

Zonal controller for underfloor heating and CO_2-based ventilation. Provides demand-driven ventilation and heating control for each room. LAN/Wi-Fi cloud connection. Sensors connect via 4-core cable.

Electric underfloor heating

Relay

Relay

Electric underfloor heating

Intelligent ventilation

Airobot ventilation units automatically adjust airflow based on air quality readings.

Dual-zone ventilation

Night mode

Normal airflow to bedrooms, reduced airflow to living areas.

Humidity control

A central humidifier, added to the ventilation unit, automatically maintains the desired humidity level.

Dual-zone ventilation – Benefits

- Reduces noise levels
- Uses less energy
- Improves heat recovery efficiency
- Extends system lifespan

Dual-zone ventilation

Day mode

Normal airflow to living areas,
reduced airflow to bedrooms.

Intelligent heating solution

Control heating with Airobot thermostats. When connected to the ventilation unit, the thermostats can measure CO_2 levels and adjust ventilation based on air quality.

Airobot
central
humidifier

The central humidifier is designed for the heating season, when indoor humidity levels often drop uncomfortably low. Using electrode steam technology, it works through your ventilation system to raise and maintain balanced humidity—keeping the air in your home fresh, healthy, and comfortable.

Technical data

Technical data	wall
Installation position	up to 3 kg/h
Steam output	1~230 VAC 16 A
Power supply	2.3 kW (10 A)
Maximum power	EU plug
Power connection	22 mm
Steam pipe connection	32 mm, sewer pipe
Drain connection	8 mm
Nozzle condensate connection	required
Sewer and water	Regular cleaning or replacement
supply connection	of the steam cylinder
Maintenance	every 3000 operating hours
	(1 winter season)
Colors	white, black
Dimensions	depth 222 mm, width 366 mm,
	height 530 mm"

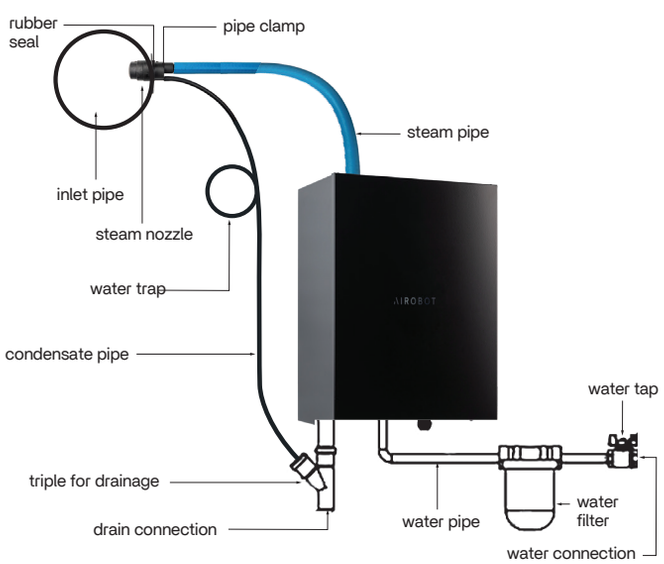
Features

- Allows users to set their own home humidity level (up to 40%).
- Keeps humidity stable at the desired level.
- The supply air sensor included with the device must be
- installed one meter away from the humidifier nozzle.

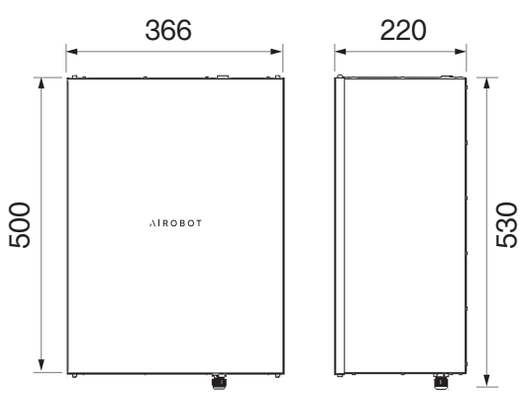
Water connection requirements

- Pressure between 1 and 8 bar.
- Water flow rate of at least 0.6 l/min.
- Minimum water flow rate for the drainage system is 4 l/min.
- Temperature must remain between +5 °C and +40 °C.
- A 3/4" external thread pipe connection is required for connection.
- The maximum water temperature in the drain can reach up to 100 °C.

Connection



Dimensions



Airobot

Airobot heating control room sensors with room controller

Applications

- Control of water floor heating
- Control of water floor cooling
- Control of electric floor heating (separate relay A-HC-R2416 required)
- Combined control of electric and water floor heating: simultaneous use of both water and electric floor heating
- Control of water floor heating during the heating season; during the summer, when switching to cooling, water floor heating is automatically switched off and electric floor heating is activated
- Control of cooling fan (fan coil) (separate extension module A-HC-EXTC required)

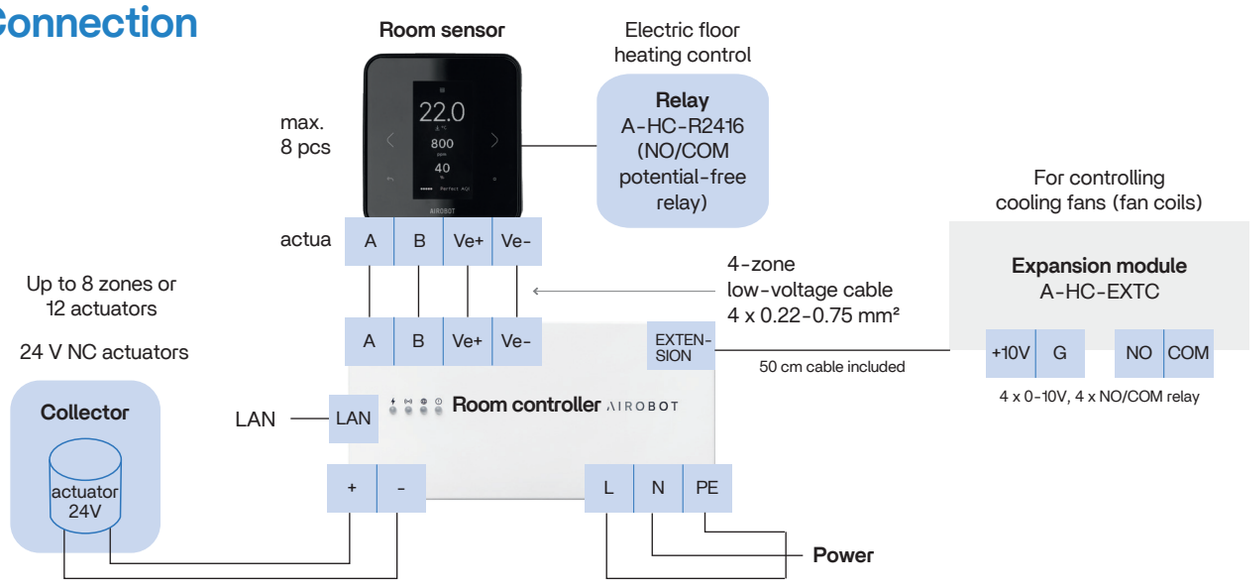
Technical data

Max. number of room sensors	8
Room sensor floor sensor	additional, 10 kΩ
Maximum number of heating zones	8
Maximum number of actuators	12
Drives	24 V, normally closed, max. switching current 0.2 A
Power supply	230 VAC 50/60 Hz
Power connection	1 meter cable with EU plug
Output relay PUMP	230 V, up to 100 W
Output relay BOILER	potential-free, max. 2 A (NO/COM)
Network connection	Wi-Fi 2.4 GHz, LAN
Home automation protocol	Modbus TCP
Room controller dimensions	244×55×120 mm
Room sensor dimensions	82x89x11 mm
Colors	white, black

The room sensor is available with:

- temperature and humidity measurement
- CO_2, temperature, and
- humidity measurement
- Colors: white, black

Connection



Airobot

Airobot floor heating thermostat

- Airobot floor heating thermostats have built-in CO_2 sensors that display the room's temperature, humidity, and air quality
- Conveniently control your heating on a room-by-room basis and adjust the indoor climate using the Airobot app
- Airobot thermostats can be connected to the Airobot ventilation unit to ensure even more precise air quality control."

Technical data

Maximum number of heating zones	1
Maximum number of drives	10 pcs, up to 3 A
Drives	230 V, normally closed, max.
	switching voltage 0.2 A
Power supply	230 VAC 50/60 Hz, 2 × 1.5 mm²
Power connection	wall socket
Network connection	Wi-Fi 2.4 GHz

The thermostat is available with:

- temperature and humidity measurement
- CO_2, temperature and humidity measurement
- Colors: white, black

Features

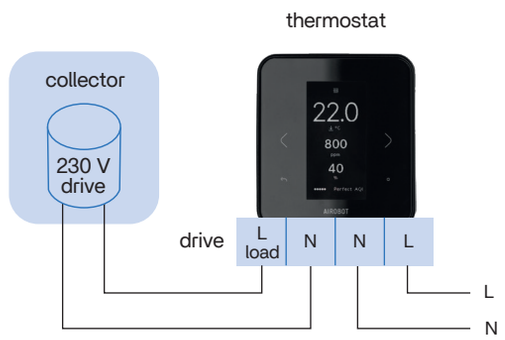
- Modern and energy-efficient e-paper display
- Touch-sensitive buttons
- Ultra-precise: digital temperature and humidity sensors with 0.2 °C accuracy ensure extremely accurate room temperature measurement and effective control
- "Away" mode allows you to set a separate setpoint when you are not at home
- Option to connect a floor sensor
- Silent switching: the thermostat operates without an audible click
- Regular switching of the drive during non-heating periods to prevent limescale build-up

Integration

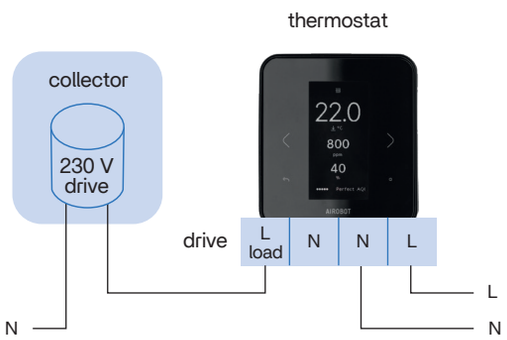
The Airobot smart thermostat is equipped with an open, local API, which allows it to integrate easily and quickly with almost all smart home solutions.

Connection

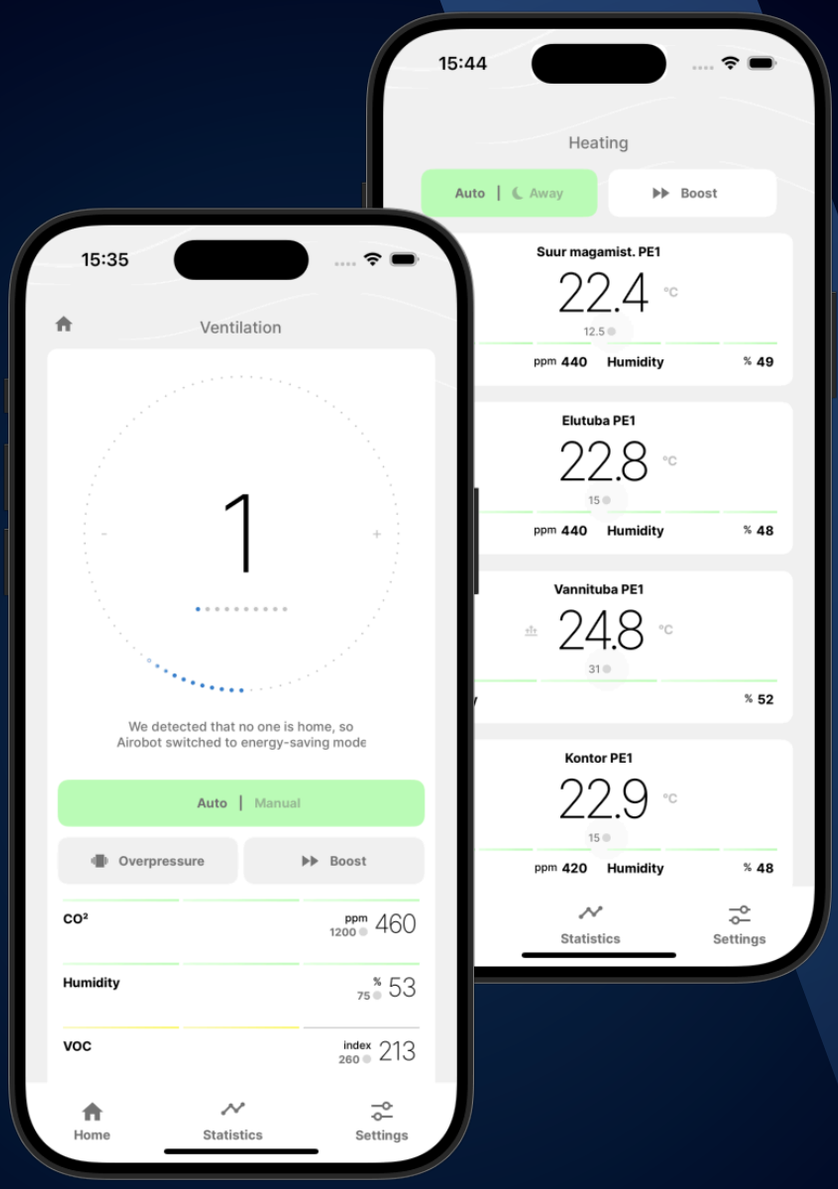
OPTION A



OPTION B



One app for both ventilation and heating control!



- Choose the mode that suits you – automatic or manual.
- In automatic mode, the unit adjusts ventilation speed according to your chosen CO_2 level. Activate overpressure mode when cooking, and use Boost mode for a quick burst of fresh air.
- The Airobot app displays real-time air quality data. You can conveniently view CO_2, humidity, VOC, and particulate matter levels to keep your home air as clean and healthy as possible.
- Set the temperature for each room conveniently, wherever you are, directly through the mobile app.
- Set maximum CO_2 levels in bedrooms to ensure quality sleep.
- Monitor CO_2 and humidity levels in every room to maintain a calm feeling and a comfortable indoor climate.

We sincerely believe that a healthy, comfortable home should never be a luxury. Every solution we create is designed to work for you and your family's well-being.

With Airobot, you can be sure you're in good hands. That's our promise.

AIROBOT

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