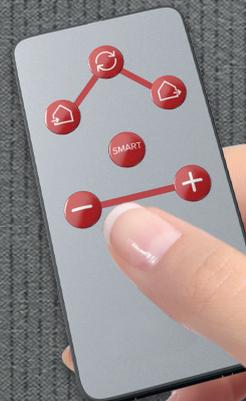


# CUPER

Our lineup is expanding!  
Introducing the new, more compact CUPER 100

HEAT RECOVERY UNIT CUPER

**CUPER 100 AND CUPER 125.  
Two sizes! One principle YOUR  
COMFORT!**

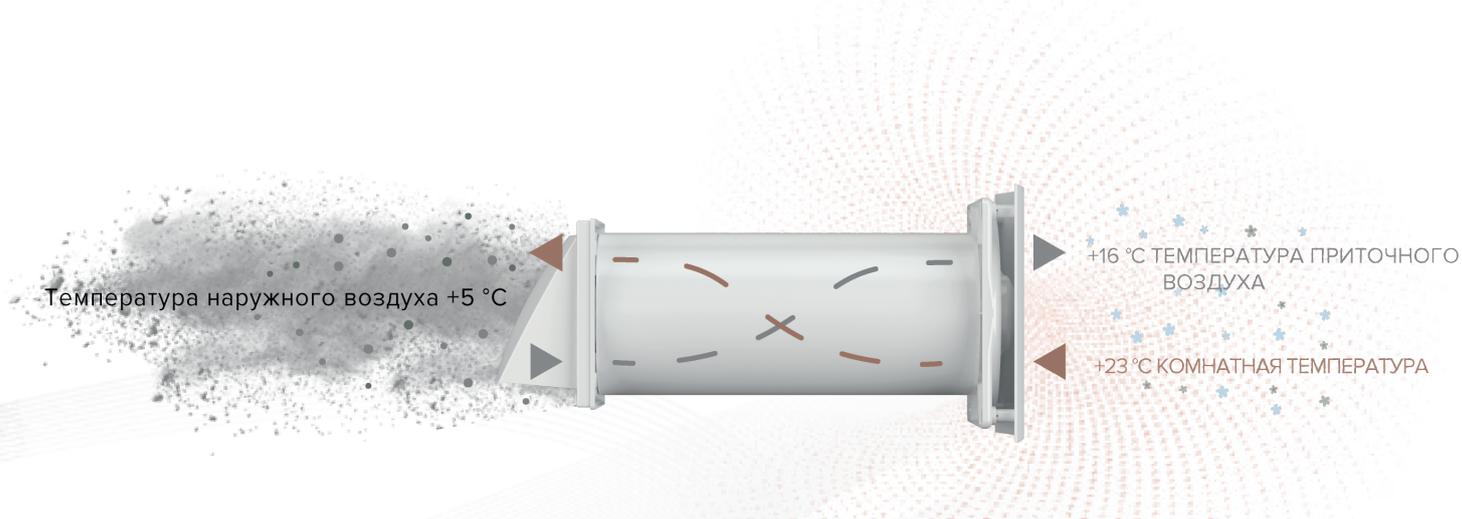




## BREATHE CLEAN AIR SMART CONTROLLED VENTILATION WITH AIR TEMPERATURE CONTROL

Frequent ventilation of the apartment can cause the dispersion of significant amount of heat. The solution from ERA Group — the heat recovery unit CUPER. CUPER will help you to breathe clean air indoors without thinking about heat loss. The heat recovery unit filters the air, removing dust, pollen and other allergens from it. The heat recovery unit installed in the heat exchanger controls the temperature of the incoming air and makes it comfortable, so there is no need for ventilation, heating and cooling costs are reduced.





**CUPER guarantees the flow of fresh air with a comfortable temperature in every season of the year. In winter, when the heat recovery unit is working on the exhaust, the air discharged from the room heats the ceramic heat exchanger. When the heat recovery unit is operating for inflow, cool fresh air is heated to a comfortable temperature. In summer, there is the reverse process: the supply air enters the room slightly cooled. The front panel of the recuperator is equipped with insulation to prevent the panel from freezing.**

**Operating temperature: from -30 °C to +50 °C. Room temperature: from +1 °C to +40 °C.**

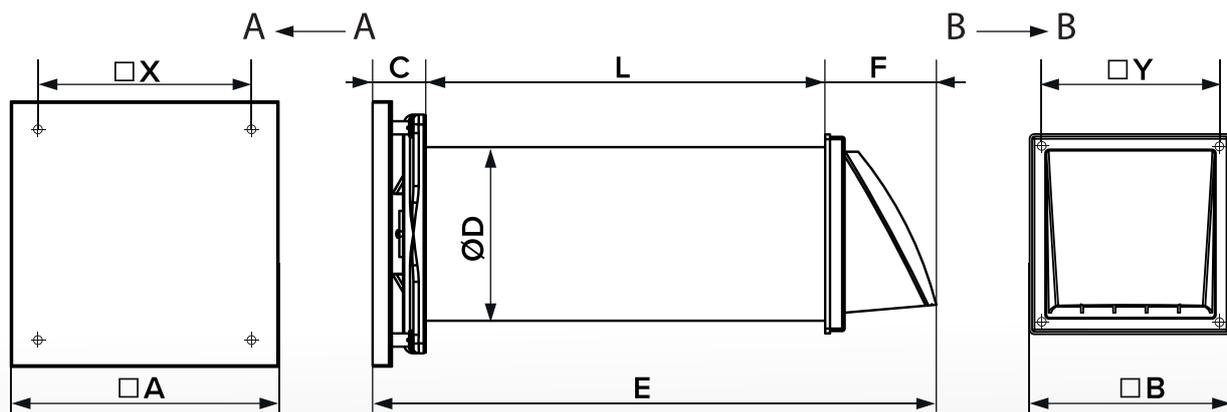
## TECHNICAL SPECIFICATIONS

**Six-speed heat recovery units are manufactured by the company in accordance with TS 29.32.30.261-009-96059883-2023, applicable norms and standards. Heat recovery units are designed for connection to AC network with voltage 220-240 V with frequency 50/60 Hz. Appearance, overall and connecting dimensions are shown in Pic. 1 and Table 1.**

Modification	Product name
Cuper 100	Heat recovery unit Cuper. Controlled by remote control.
Cuper 125	Heat recovery unit Cuper. Controlled by remote control.

Specifications	CUPER 100						CUPER 125					
speed	1	2	3	4	5	6	1	2	3	4	5	6
Capacity / air supply (m <sup>3</sup> /h)	14	24	32	39	44	50	20	34	45	55	63	70
Capacity / air exhaust (m <sup>3</sup> /h)	8	12	17	21	24	28	16	26	35	43	50	56
Capacity / recuperation (m <sup>3</sup> /h)	6	9	12	15	17	20	9	15	20	25	28	32
Pressure / air supply (Pa)	12	28	46	64	80	97	12	24	35	49	59	76
Pressure / air exhaust (Pa)	5	11	17	23	29	34	7	11	18	24	30	36
Sound pressure level at a distance 3 m / air supply (dBA)	20	22	25	27	29	30	20	22	25	27	29	30
Sound pressure level at a distance 3 m / air exhaust (dBA)	22	24	27	30	31	35	22	24	27	30	31	35
Power consumption (W)	1,1	1,8	3,0	4,5	6,0	8,5	1	2,3	3,3	5,1	6,9	9,4
Recuperation efficiency (%)	to 85						to 82					
Net weight (kg), no more than	1,2±0,1						2 ±0,1					

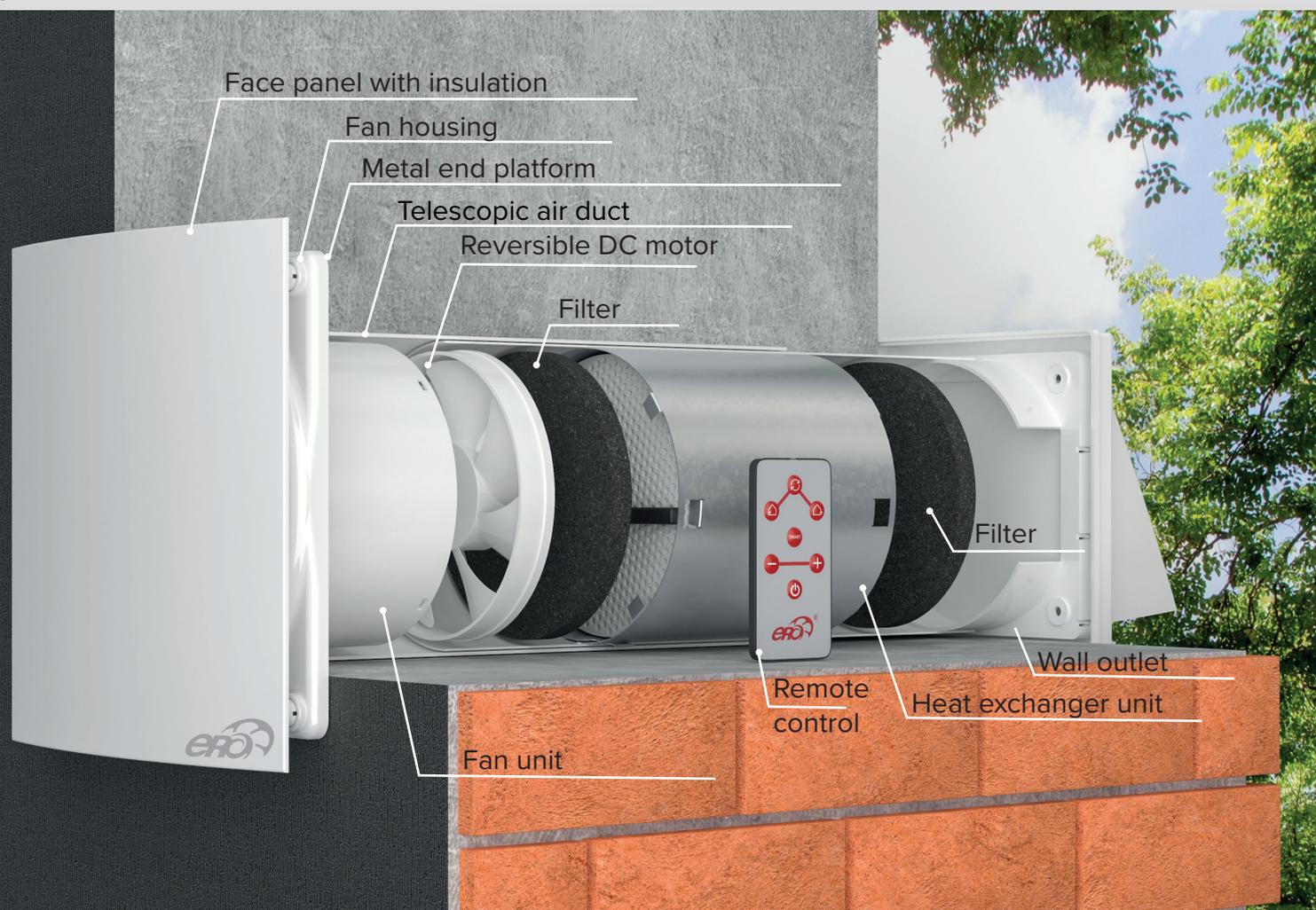
# CONFIGURATION AND OPERATING PRINCIPLE



Model	A	E	B	L	X	Y	C	F	D
Cuper 100	172	421	150	300-580	110	105	40	83	105
Cuper 125	200	423	150	300-580	160	105	40	83	131

Table 1.

pic 1.



\*The design of CUPER 100 and CUPER 125 models uses different materials for the heat exchanger block: in the CUPER 100 model it is metal, while in the CUPER 125 model it is plastic.

# CUPER

Has four modes of operation:

4 modes



### constant inflow

The fan constantly works on an inflow.



### permanent exhaust

The fan constantly works on exhaust.

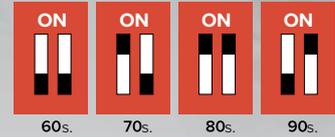


### recuperation, alternate inflow-exhaust

Switching between inflow and exhaust every 60/70/80/90 seconds (adjusted using a switch located on the control board under the heat recovery unit housing cover).



Switching delay



In an automatic mode, when turned on, the heat recovery unit draws air out of the room. At the end of the set switching time (60, 70, 80, or 90 seconds) there is the automatic switching inflow. With an outdoor temperature of -15 °C, the supply air will be +10 °C.

The supply, as well as the exhaust, continues for the set time. Then it switches back to exhaust.



In an automatic mode, when turned on, the heat recovery unit draws air out of the room. At the end of the set switching time (60, 70, 80, or 90 seconds) there is the automatic switching inflow. With an outdoor temperature of 0 °C, the supply air will be +14 °C. The supply, as well as the exhaust, continues for the set time. Then it switches back to exhaust.

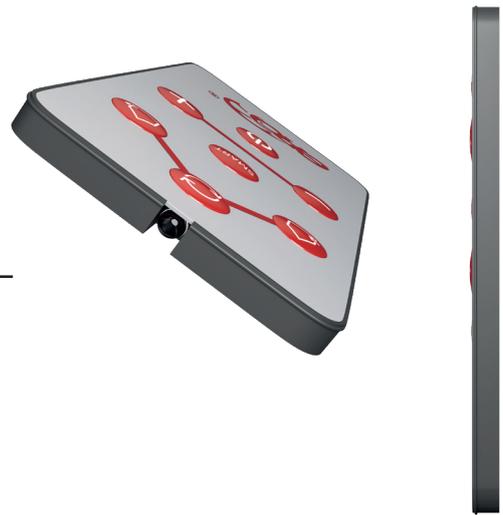
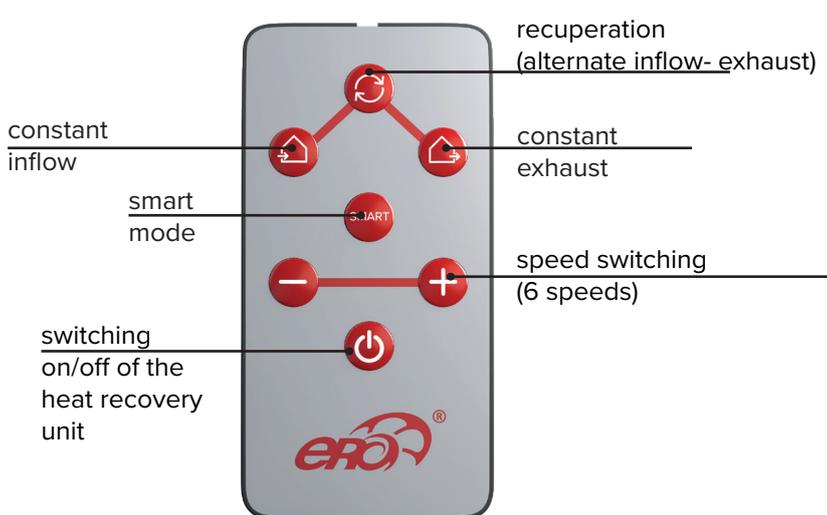


### Smart mode

Operating principle: heating or cooling of the ceramic heat exchanger to room temperature during exhaust and then the entry of air at comfortable temperature into the room. Thus, operation in smart mode depends on the external temperature: the colder or hotter the air outside compared to the room, the less the device will operate in supply mode. Switching between supply and exhaust is regulated by temperature sensors.

## REMOTE CONTROL

The heat recovery unit is controlled by a remote control.



# MOUNTING AND PREPARATION FOR OPERATION

**ATTENTION!** Before starting work, the remote control must be removed from the package and the transparent protective film must be taken off from the power compartment.

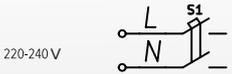
**ATTENTION!** Please, read the user manual carefully before mounting the product. Do not cover the reversible fan with materials that accumulate dust (curtains, etc.) to avoid disturbing the air circulation in the room.

# INSTALLATION AND PREPARATION FOR OPERATION

The heat recovery unit is designed for wall mounting.

The vertical and horizontal tolerance of the mounting surface is  $\pm 0,5$  mm.

The designation of the automatic protection S1 is in the diagram

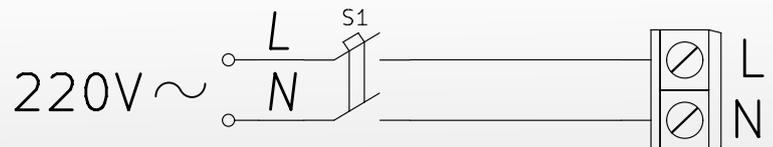


Automatic protection S1



Connection of the heat recovery unit (basic model)  
X – terminal block, 2 pairs

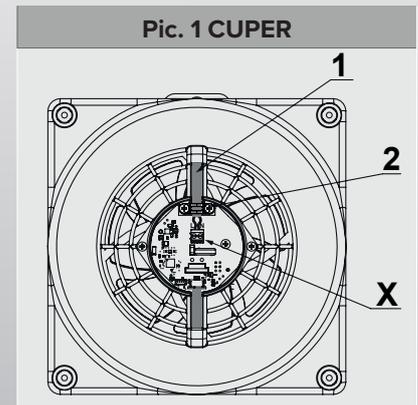
## Electrical connection diagram



# MAINS CONNECTION DIAGRAM

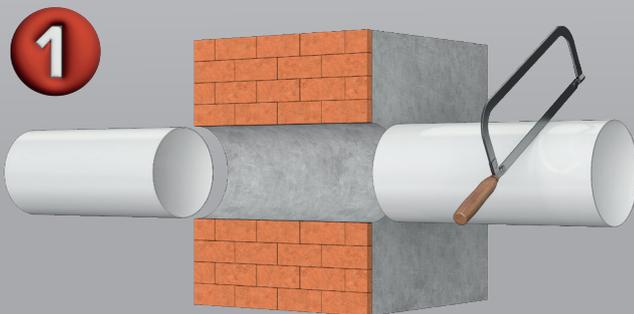
The fan connection to the mains is shown in Pic. 1

- remove the decorative front panel
- remove the protective cover
- lead the mains wire through hole 1 in fan housing
- remove the insulation of wires at a length of 7-8 mm
- connect the phase wire to terminal L, neutral wire (or neutral wire) to terminal N, clamp them with screws in the terminal block
- secure wires with clamp 2
- install the protective cover in place, secure with X screws
- install decorative panel



# MOUNTING

**Warning!** Before mounting the product, you must first prepare the outlet of the power cable above the hole in the wall!



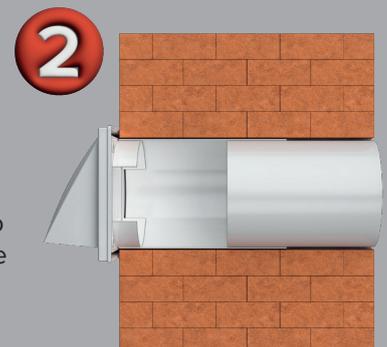
Drill a through channel in the wall using a diamond core bit of the required diameter, with a slope of 2-3 degrees towards the outside. This is necessary for condensate drainage to the outside. The recommended installation hole diameter for Cuper 100 is 110 mm, for Cuper 125 – 132 mm.

Push apart the telescopic duct before calculating the required length. You can cut the pipe to the thickness of the wall, if it's necessary. It is recommended to install the valve 20-30 cm from the edge of the window, at a height of 2-2.5 m.

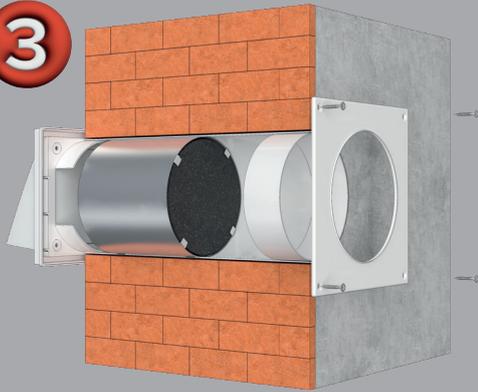
From the outside, secure the external wall outlet using the fasteners and mounting template from the supplied package.

Attach a cardboard template from the street side (see the insert inside the box). The large hole in the template must be coaxial with the air duct. It is also recommended to use the construction level for horizontal alignment.

Then mark the places to install the dowels from the fastener set and drill the holes to the required depth. Install the external wall outlet by fixing it with the screws from the supplied package.



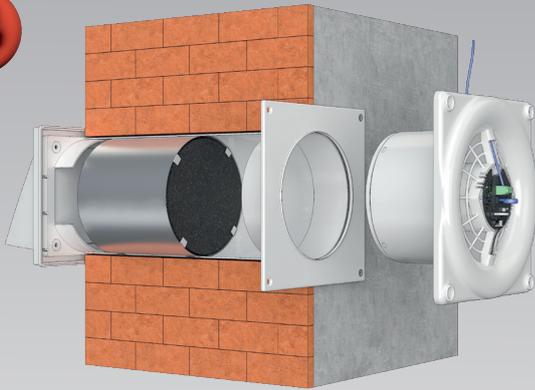
3



From the room side, install the heat exchanger unit into the air duct. The minimum distance between the heat recovery unit flange and the heat exchanger must be at least 30 mm. Install the mounting plate using the fasteners and mounting template from the supplied package. From the room side, apply the cardboard template (see the insert inside the box). The large hole in the template must be coaxial with the air duct. It is also recommended to use the construction level for horizontal alignment.

Then mark the spots for installing the dowels from the fastener set and drill holes to the required depth. Install the mounting plate, securing it with the screws from the supplied package.

4



Open the central cover. Lead the power cord into the hole at the top of the heat recovery unit housing. Then perform the connection according to the power connection diagram (pic. 1). Then close the cover using the screws.

Install the fan unit with magnets built into the housing onto the mounting plate. Insert the face panel.

5



**The insulation on the panel prevents condensation from forming when the heat recovery unit operates during the cold season**

