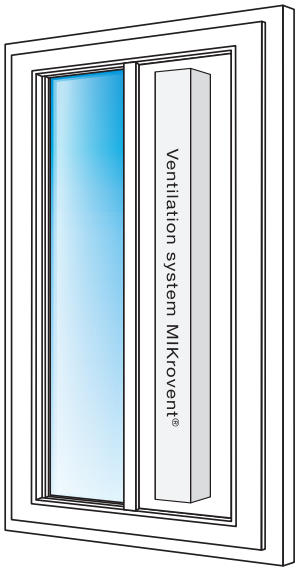
MIKrovent®
VENTILATION SYSTEM

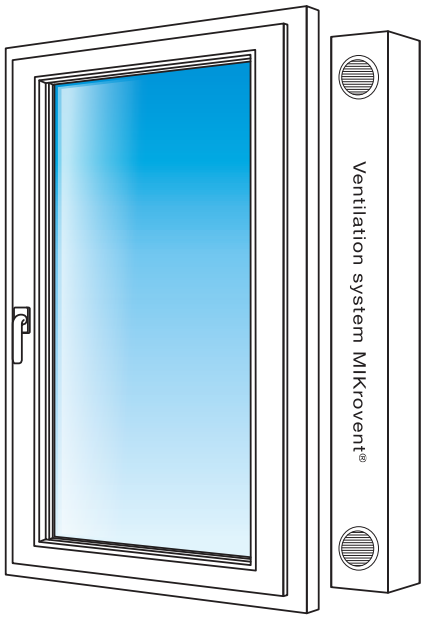
Up to 87% of heat recovery at 100% air exchange

METHODS OF INSTALLATION

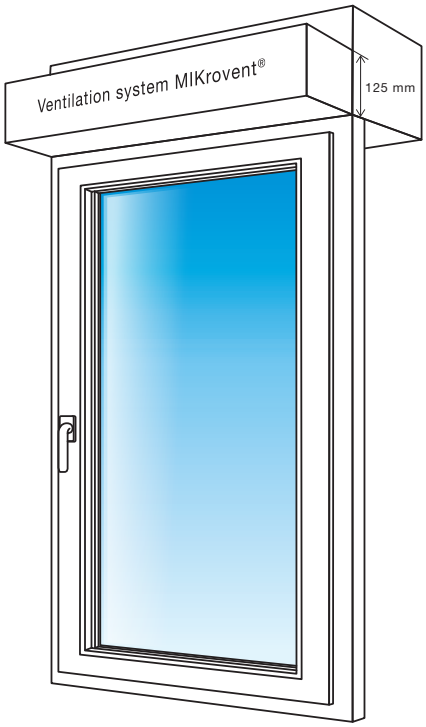
The MIKrovent® ventilation system can be installed above all types of window systems made of plastic, wood, a combination of wood and aluminium or aluminium only, or directly onto the wall.



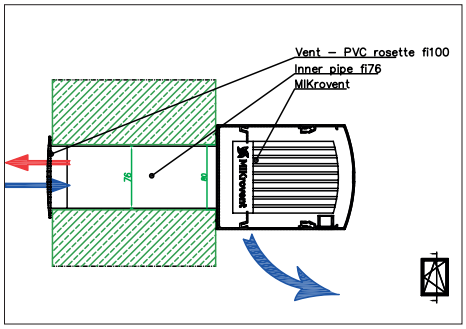
Installation in window panel
vertical or horizontal



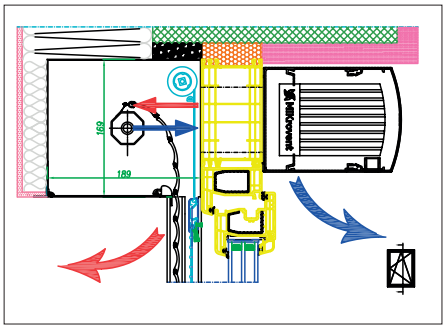
Direct installation onto a wall
vertical or horizontal



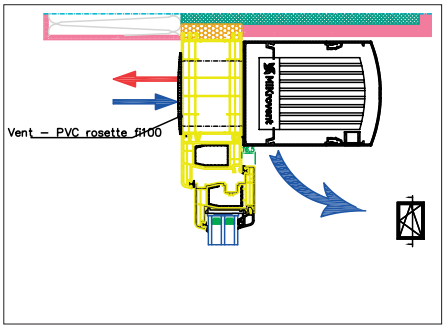
Installation on a blind



Direct installation onto a wall



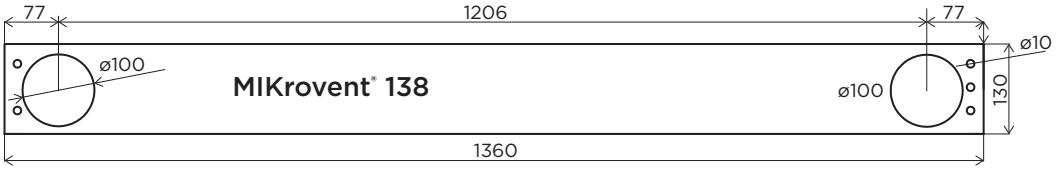
Installation on a blind

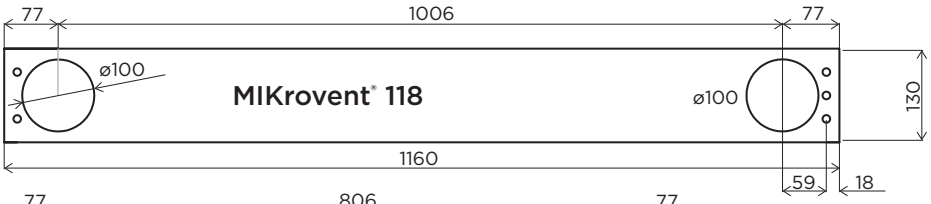


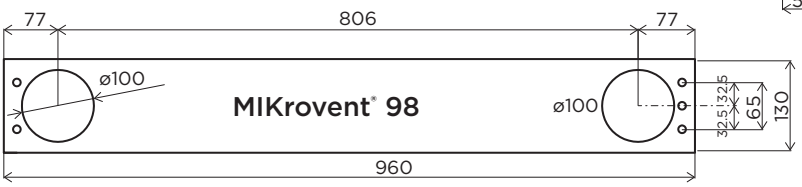
Installation on an expansion panel or
window panel

NOTE
At least 140 mm of space is required when installing MIKrovent on the edge of the windows.

INSTALLING MIKROVENT: TOOLS AND INSTALLATION MATERIAL

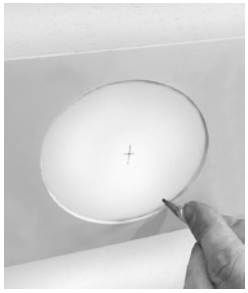




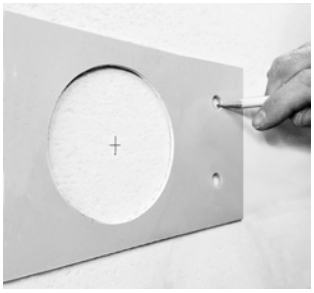


All external view!

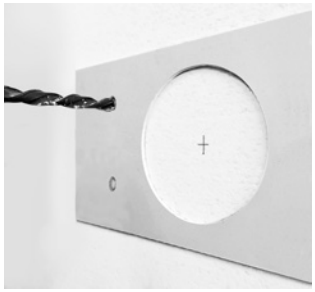
Installation steps for MIKrovent on a blind in front of or above the window, or directly on an expansion panel:



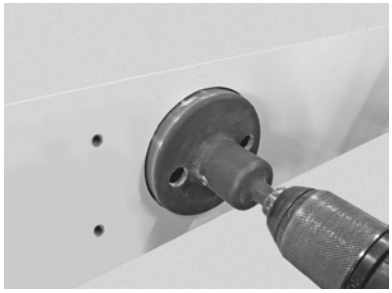
1. Tear off the paper lid of the pakaging box with installation positions and temporarilary bond it to a wall.



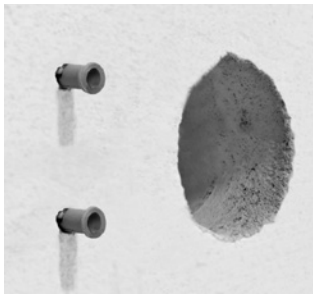
2. Mark holes acording to your device size.



3. Drill mounting holes.

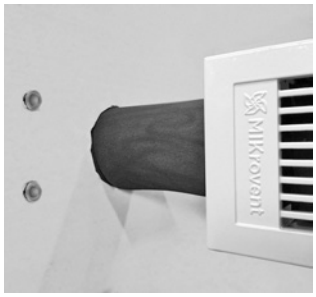


4. Drill two big holes for vents in the back of the device which should be extends to an exterior wall.

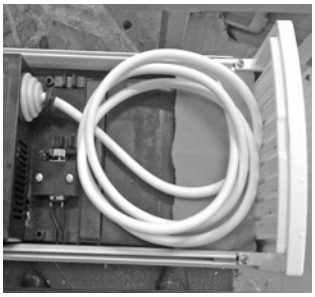


5. Insert the plastic expansion inserts for mounting screws in the wall.

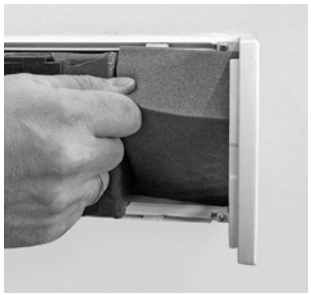
6. Attach the insulation tube on the inflow / outflow tube.

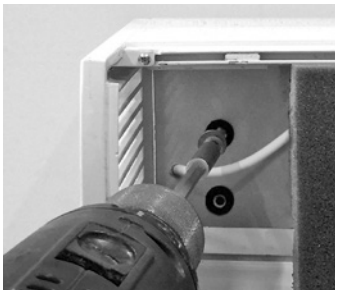


7. Insert the insulation tube in drilled hole.



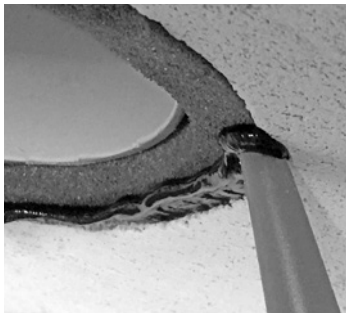
8. Route the power cable through the gland on the back side by removing the insulating foam and insert the cable into the gland.





9. Screw MIKrovent on the wall.

10. Take out filter box and exchange filters.



11. Seal outside cracks between insulating tube and wall with polyurethane sealant.

12. Install the exterior grill.

INSTALLING MIKROVENT: TOOLS AND INSTALLATION MATERIAL

13. Connect the power cord to the power network and test the operation of MIKrovent and remote control in all its modes of operation.

Outside facade wall with visible intake and exhaust grill vents.

Inside room with installed MIKrovent.

Installing MIKrovent directly on a wall:

Preparing MIKrovent air inflow and outflow holes on the expansion panel of the window frame.

Preparing the inside air inflow and outflow holes on the expansion panel.

Vertical

Tools
- Battery-powered power drill and screwdriver with flat and Phillips screw bits.
- Battery-powered power drill
- Electrical power drill
- Ø 8 mm drill for plastic, wood and aluminium
- Ø 8 mm drill for concrete
- Ø 80 mm bit for plastic, wood and aluminium
- Drill for concrete – Ø 80 mm bit (MIK inventory)
- Silicone and putty gun
- Polyurethane foam gun

Installation material
- 4 screws for concrete - Ø4.2-6mm, min. lenght 60mm
- 4 plastic expansion inserts Ø8mm, min. lenght 40mm
- 4 washers, wide, M6 (6.4/18mm)
- 2 Ø 125 mm PVC vents
- Neutral silicone
- Polyurethane foam
- Ø 75 mm changeling pipe PP HK
- Remote control
- MIKrovent filters G4 and F7 with carbon layer
- 2 batches of insulation foam

Operating modes

The device has 4 operating modes:

1. **Manual (M) -**
   this is the default mode. Manually you can set the inlet and outlet flow rate so the intensity of operation depends on the needs of the user.
2. **AUTO (A) -**
   When operating in automatic mode the ventilation is regulated automatically by temperature and humidity sensors.
3. **OUT (O) -**
   In this mode only the intensity and amount of the outgoing air can be set. Use this mode to quickly equalize the air (and temperature) conditions in the ventilated room with the conditions in the surrounding rooms. The device remains in this mode until the user switches to another mode.
4. **IN (I) -**
   In this mode you set the quantity of the fresh incoming air. By increasing only the outer fan speed you can prevent the air and also the odor from surrounding rooms to enter the ventilated room. It also provides savings by using fresh outside air to cool down the rooms during summer nights. The device remains in this mode until the user switches to another mode.

Remote control

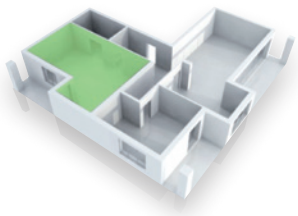
MIKrovent specifications

Ventilation system	MIKrovent® 100
Air flow in m^3/h	**10–30**
AC/DC voltage in V	230/12
Required power in W	4-21
Heat recovery (η1) up to in %	up to 87
Room sound level with 8dB noise reduction*	25-35

*Depends on result of preliminary measurement. Data is based on measurements in higher temperature condition (t1=41°C, tok=24°C). The data is gathered as an input source and includes transformer and control. We reserve the right to alter technical specifications at any time.

MIKrovent®

25m²



1 MIKrovent® unit is suitable for ventilation of rooms up to 25 m².

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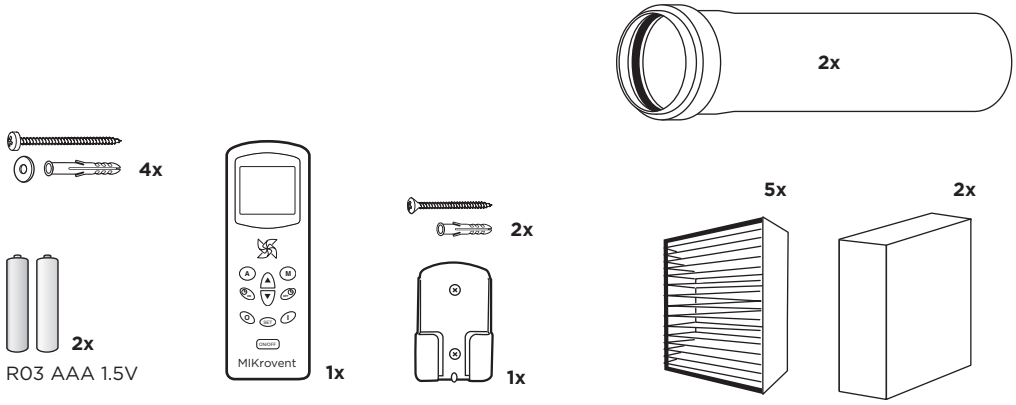
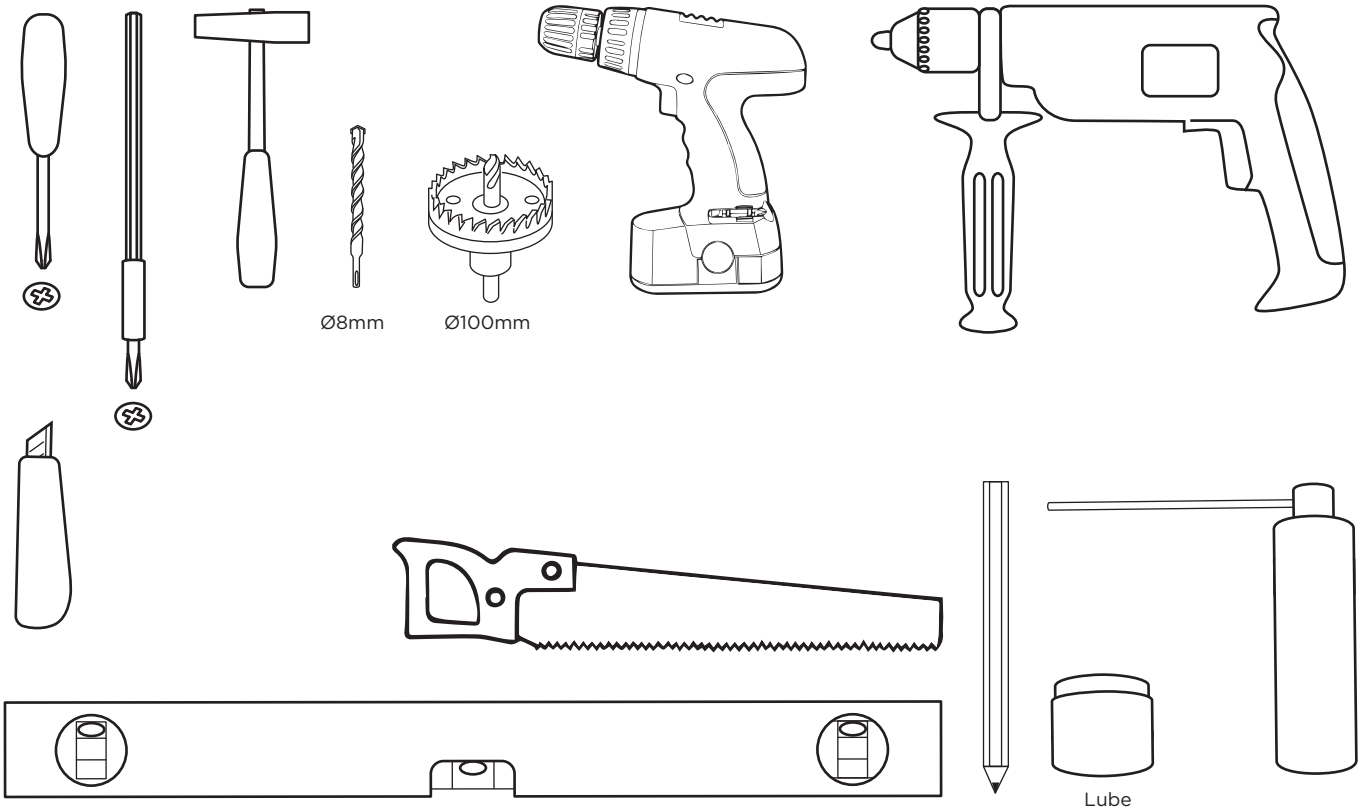
MIKrovent montage manual

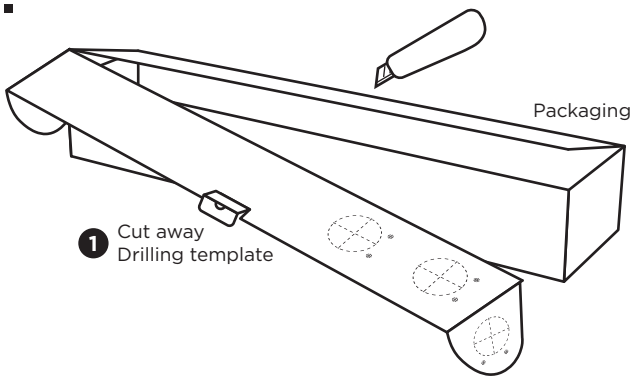
1. Accessories in the box

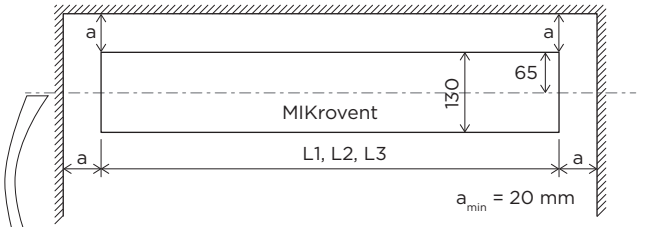


2. Tools needed



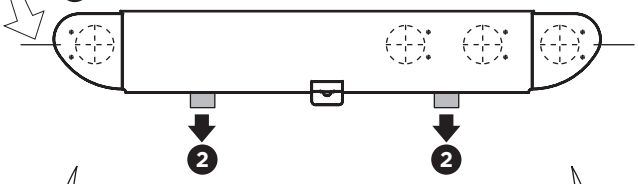
1.





1 Draw horizontal or vertical line at right position

2 Level and glue by pulling out sticker protection paper



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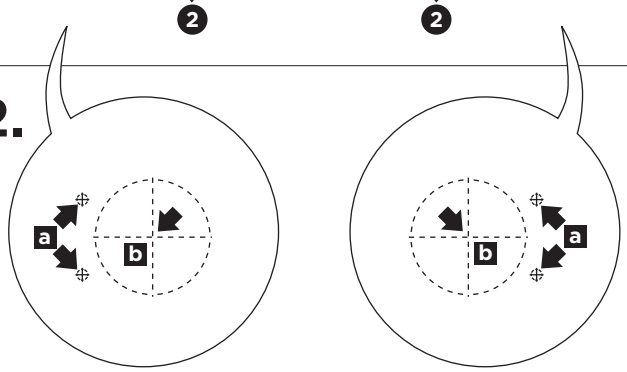
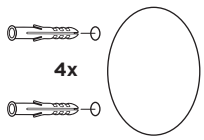
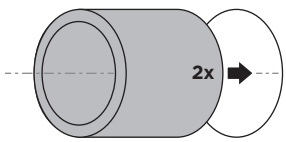


1 **a** **4x** Ø8mm
Depth 50mm

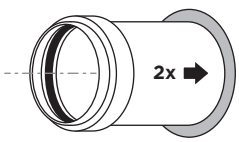
b **2x** Ø100mm
Drill through the wall

2 Insert

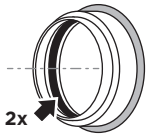




3 Ø100mm
Polyurethane insulation

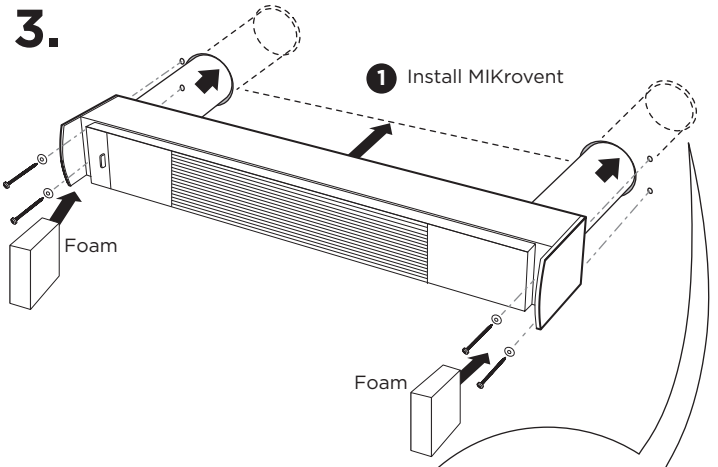


4 Ø75mm
changeling pipe PP HK

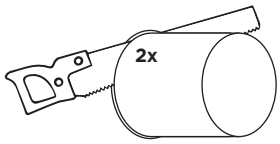


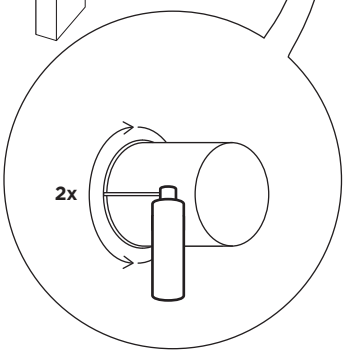
5 Lubricate seal

3.

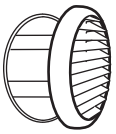


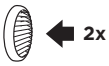
3 Cut any excess pipe outside



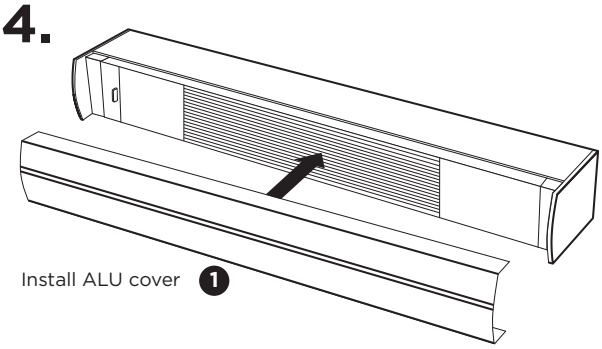


4 Install exterior grills

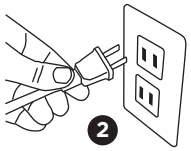




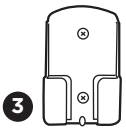
4.



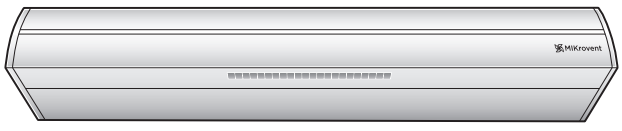
Install ALU cover 1



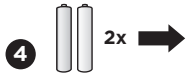
Connect the power supply



Install to the wall



5 Use MIKrovent



R03 AAA 1.5V

Install batteries