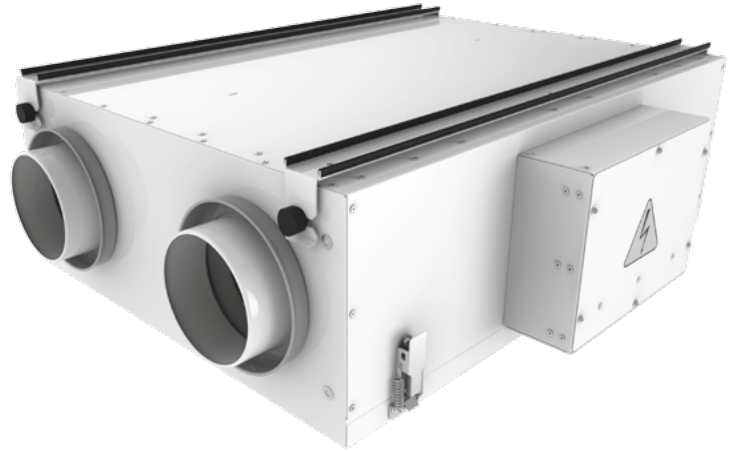


**INSTALLATION GUIDE**
**Air handling unit**

ERV D 80	ERV EC D 80
HRV D 120	HRV EC D 120
ERV D 120	ERV EC D 120
HRV D 150	HRV EC D 150
ERV D 150	ERV EC D 150
ERV DR 80	ERV EC DR 80
HRV DR 120	HRV EC DR 120
ERV DR 120	ERV EC DR 120
HRV DR 150	HRV EC DR 150
ERV DR 150	ERV EC DR 150


**INSTALLATION**
**Tools required**

**Pencil**

**Drill**

**Screwdriver**

**Dowel 6 pcs**

**Screws 6 pcs**

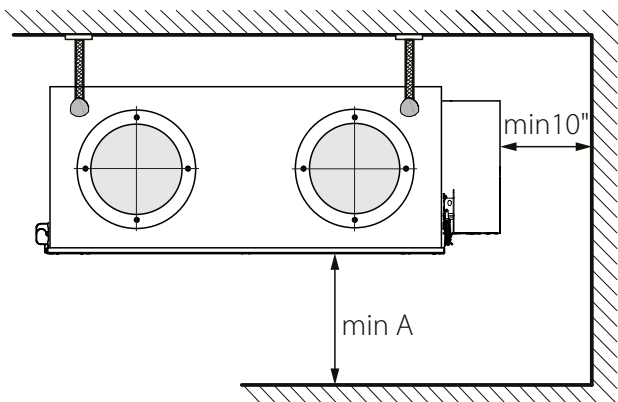
The units are designed for ceiling or wall mounting.

While installing the unit ensure convenient access for subsequent maintenance and repair.

Keep the recommended minimum distances to the walls for all mounting variants as shown below.

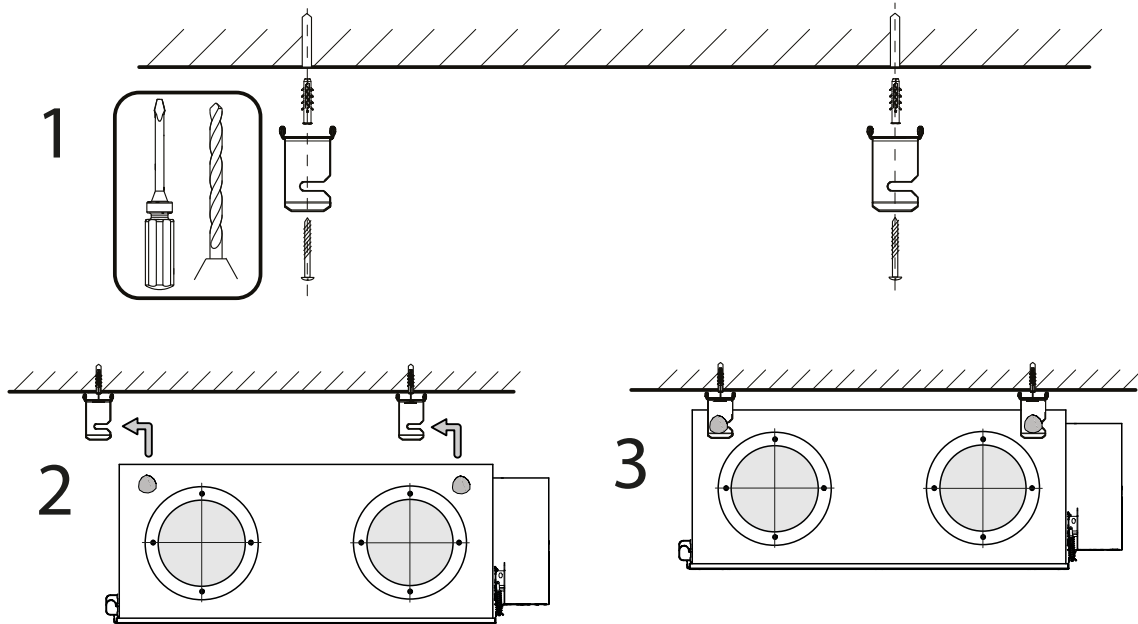
The fasteners are not included in the delivery set and must be purchased separately. While selecting appropriate fasteners consider the material of the mounting surface as well as the weight of the unit, refer to technical data. Fasteners selection and unit mounting should be done by service technicians.

To mount the unit to the ceiling use belts rigidly fixed to a horizontal surface or threaded rods and expansion anchors.

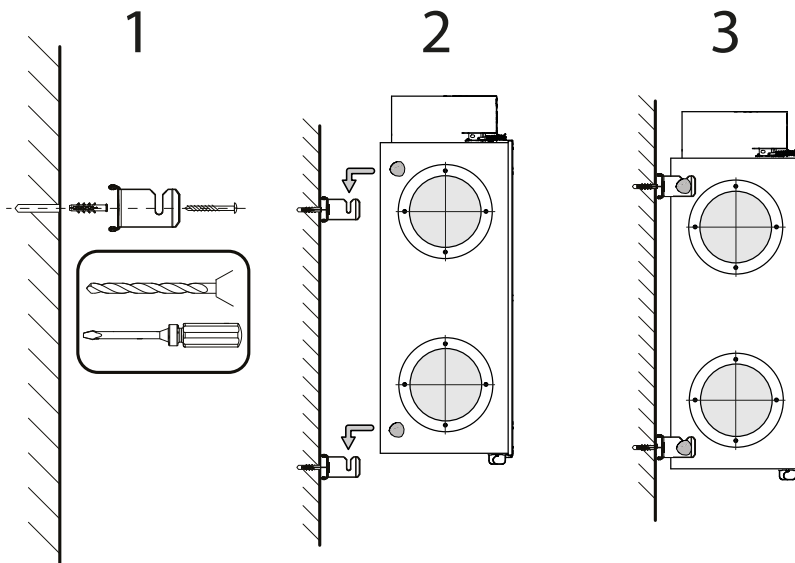


The belts, threaded rods and expansion anchors are not included in the delivery set.

### Suspended mounting



### Wall mounting



To attain the best performance of the unit and to minimize turbulence-induced air pressure losses while mounting connect a straight air duct section on both sides of the unit.

Minimum straight air duct length:



- equal to 1 air duct diameter on intake side
- equal to 3 air duct diameters on outlet side

If the air ducts are not connected or the connected air ducts are too short, protect the unit parts from ingress of foreign objects by covering the spigots with a protecting grille or other protecting device with mesh width not more than 12.5 mm to prevent uncontrollable access to the fans.

Prior to commissioning of the unit make sure it contains no objects.

### Condensate drainage

The HRV units must be connected to a condensate drain system. The ERV units are equipped with enthalpy recovery cores with no condensate buildup and require no condensate drain system.

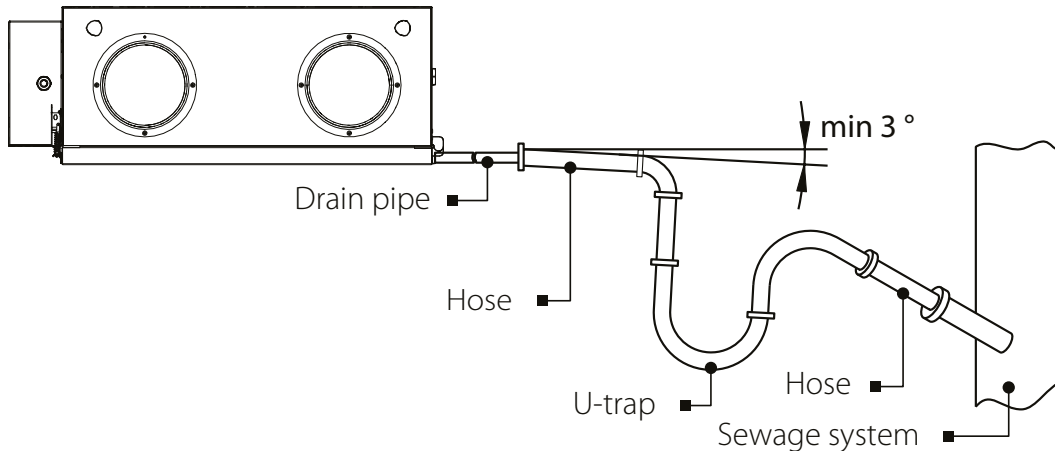
The drain pan in the heat recovery unit has a drain pipe to remove condensate outside of the unit.

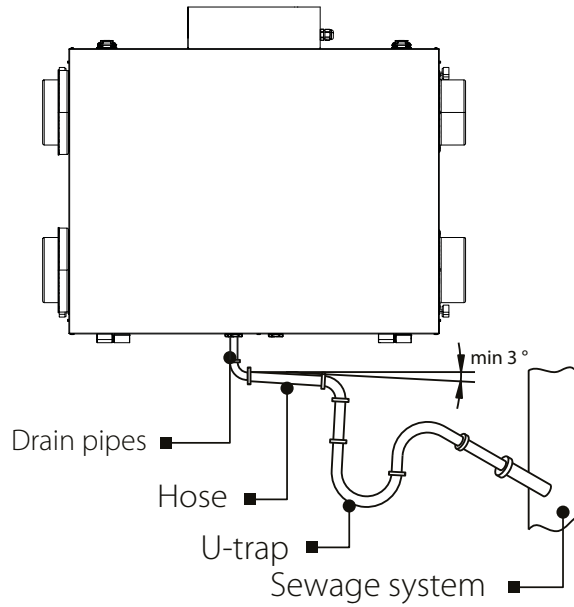
Connect the condensate pipe, the U-trap or a hydraulic lock of the other type (not included in the delivery) with the sewage system using metal, plastic or rubber hoses.

While laying the hoses provide the slope downwards min 3°. Prior to commissioning the unit make sure the water runs smoothly in the sewage system, otherwise accumulation of the water condensate may lead to the unit malfunction and water outflow. Fill up the U-trap with water before using it. When using other hydraulic lock systems read the installation instruction to prepare the condensate drain system for operation.

The condensate drain system is designed for use in premises with ambient temperature above 0 °C!

If the expected air temperatures are below 0 °C, the condensate drainage system must be equipped with heat insulation and pre-heating facilities.





The unit is rated for connection to 120 V/60 Hz power supply source.

The unit is supplied with a pre-wired power cable and an adapter. It is suitable for connection to any standard grounded outlet.

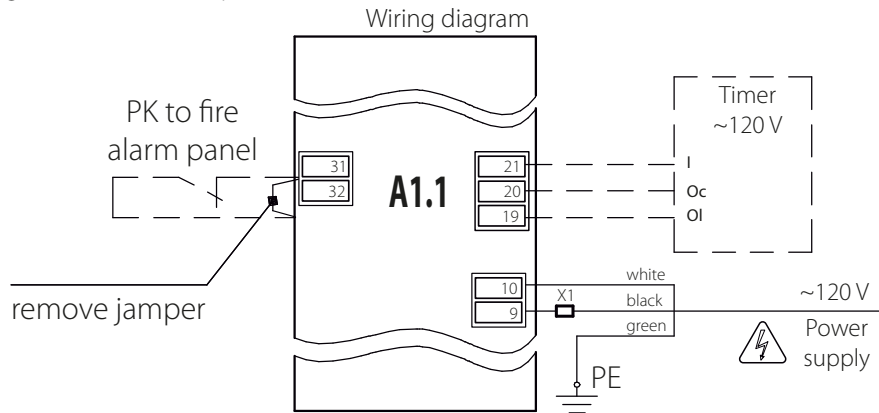
Connect the unit to power mains via an external automatic circuit breaker installed at the power input and integrated in the house cabling. Selection of the trip current for the circuit breaker must be based on the power mains technical parameters.

The circuit breaker installation place must provide quick access for emergency shut-down of the unit.

The overload protection is performed by two fuses. They are used for overload protection in case of an overload or a short circuit. To replace the fuse disconnect the ventilation unit from power supply, replace the fuse and check the ventilation unit as described in the Unit Control section.

Use the fuses with the stated current only.

In case of repeated melting of the cutout fuse please contact the Product Seller.



## CONNECTION OF EXTERNAL CONTROLS

The ventilation unit has facilities for connection of maximum 5 controls. If any control unit is activated, the ventilation unit goes to high-speed mode.

### Connectable controls:

#### 1. Remote control (thermostat).

Remote control (thermostat) functions:

- Unit on/off
- Speed selection
- Indoor temperature display
- Scheduled operation

#### 2. CO<sub>2</sub> sensor.

Recommended for use in office buildings and public premises. When carbon dioxide concentration exceeds the set point, the unit goes to the high speed mode.

#### 3. Humidistat.

The humidistat is used for indoor humidity control. When indoor humidity exceeds the set point, the unit goes to the high speed mode and runs with the high speed until the humidity level falls down below the set point. The humidity set point is adjustable.

#### 4. Timer.

A remote timer is recommended for polluted indoor air areas. In case of the timer activation, the unit goes to the high speed mode and runs for the set time.

#### 5. Switch.

A switch is recommended for the polluted indoor air areas. When the switch contacts are closed, the unit goes to the high speed mode. Open the switch contacts to return to the permanent low-speed mode.

All the listed above controls must be connected in compliance with the wiring diagram. Maximum five various controls can be parallel connected to the terminals 2 and 5.

#### 6. Fire alarm panel signal.

When the controller dry contacts no. 33 and no. 36 are closed, the unit has emergency shutdown. The contacts are jumped by the manufacturer. The jumper must be removed in case of use of the fire alarm.

All the controls listed above must be connected in compliance with the wiring diagram.

