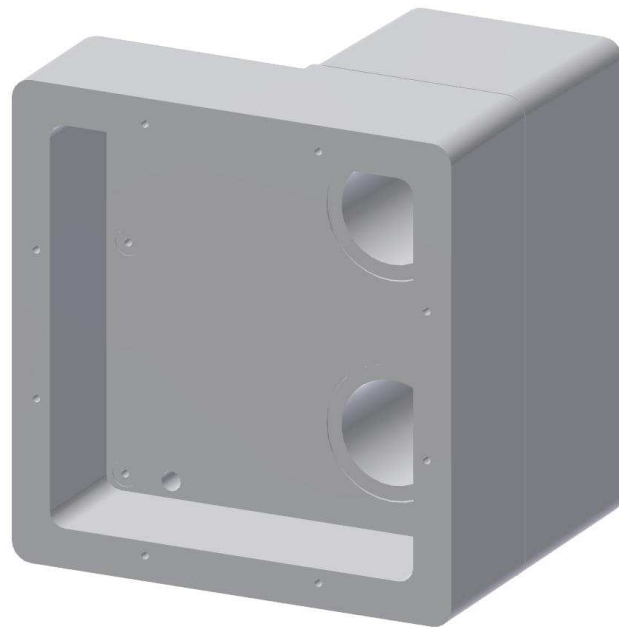


HOME VENTILATION WITH HEAT RECOVERY

M-WRG-M Mounting box for dry walls

For a flush-mount installation
of the ventilation units M-WRG-S und M-WRG-K



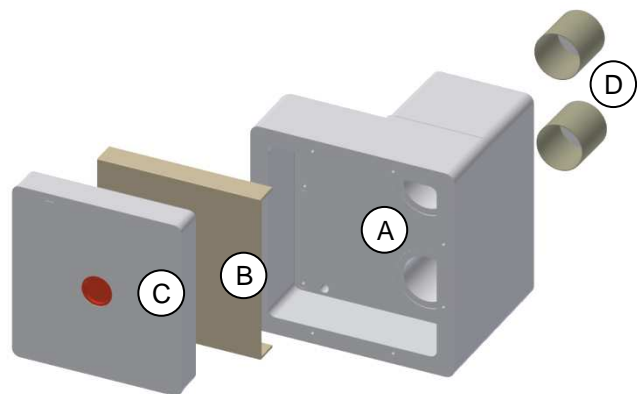
Important guidelines for the unit location: The unit has to be installed on the interior side of an exterior wall. The ideal conditions for air exchange and heat recovery are present when the top of the unit has a distance of ca. 300mm to the ceiling. (A minimum distance of 150mm is required). A lateral distance of minimum 50mm to adjacent objects or walls is also required. (Avoidance of ventilation malfunctions, difficulties to operate the unit and exchange the filters). The unit may not be covered, concealed or obstructed by any object, curtain or furniture. These conditions have to be regarded during the planning process.

Safety instructions:

- **Safety Warning: Build up of icicles:** The ventilation unit automatically discharges any condensate to the exterior. In case of exterior temperatures below 0°C, icicles may form at the façade covers. This is not a malfunction of the ventilation units. The installation site of the units has to be selected in such a way, that in case of breaking and falling icicles no persons or objects are damaged.
- **Safety Warning for installing the M-WRG ventilation unit in rooms with open fire places:** During the planning and installation process of the ventilation system, the fireplace safety regulations (i.e. FeuVo) and civil building codes have to be met! Additional safety equipment may have to be installed. Before operating the M-WRG ventilation unit, the installation has to be discussed and approved by the responsible official authorities and the chimney sweeper..
- **Installation in wet rooms:** In a wet room the unit may be installed only in the safety zone III, with a protective cap for the main switch (optional feature) in the safety zone II, according to DIN VDE 0100.

Delivery contents:

- 1 x Mounting box (A)
- 1 x Cardboard (B)
- 1 x Protective cover with red protective cap (C)
- 2 x Protective Plug (D)



Optional:

- Plaster fabric Part-Nr. 5060

1. Wall breakthrough

- In case of a newly constructed building, the architect or planner should mark a recess for the location of the wall breakthrough, on the floor plan. The wall break through should then be carried out during the construction of the walls.
- In case of installing the units into an existing wall ensure that there are no power lines or other conduits in that area before breaking through the wall
- If necessary install a lintel
- Construct the wall break through according to the Abb.1

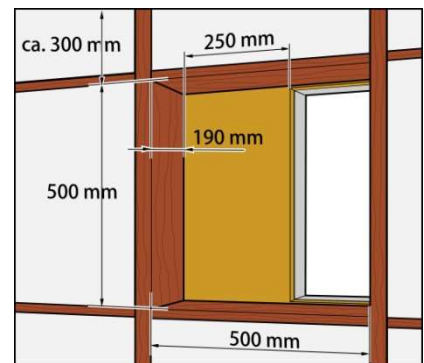


Abb. 1

2. Lay the connection cable

- Cut out a cable duct for the connection cable (1).
- Lay the connection cable according to Abb.2)
- Fixate the connection cable
- The excess length of the cable should be minimum 250mm

Connection cable: NYM 2 x 1.5 mm² or NYM 3 x 1.5 mm²

For the units M-WRG-S/Z-A, M-WRG-S/Z-EIB, M-WRG-S/Z-24 , M-WRG-S 485, M-WRG-S 485-TF and M-WRG-S 485-TFC an additional control wire (x) is required. (See Installation-manual for the units!).

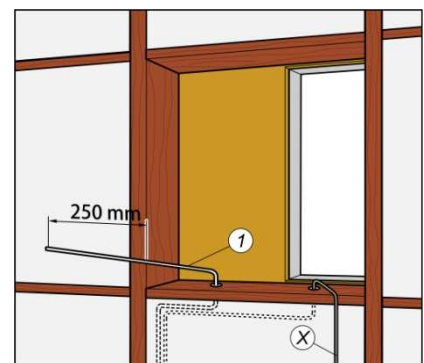


Abb. 2



3. Install mounting box

- Remove protective cover (4) and cardboard (3)
- Pull the power cable (1) and if necessary the control wire (X) through the mounting box (2)
- Insert the mounting box (2) into the recess (5)
- Insert the power cable (1) and if necessary the control wire (X) into the installation space for the unit (2). (Abb. 3)

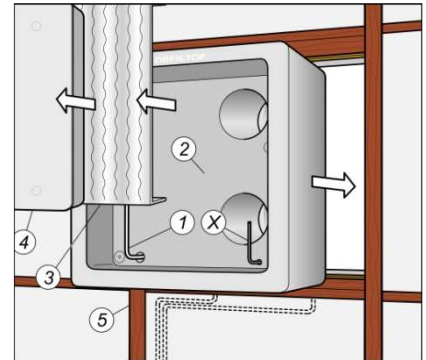


Abb. 3

4. Insert cardboard insertion and cleaning protection cover

- Insert the cardboard (6) and the protective cover (7) into the mounting box

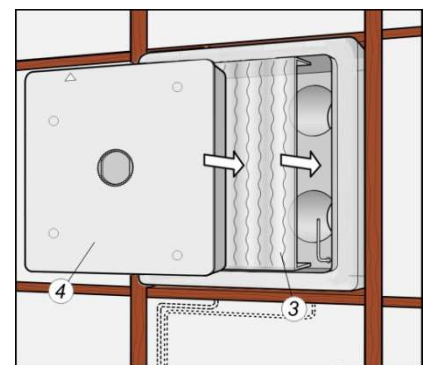


Abb. 4

5. Fixate the mounting box

- Fixate the mounting box with wedges (10).
- With a level (11) straighten the mounting box and ensure the front is flush mounted to the wall.
- The ventilation pipes inside the mounting box already have a slope of 2° to drain any potential condensate.
- **Caution!** The mounting box has to be inserted thoroughly. A leveling of the mounting box or ventilation unit is not possible afterwards!
- Fill in the gaps in between the mounting box and the recess with expanding foam (12) or other suitable isolation materials (Abb. 5)

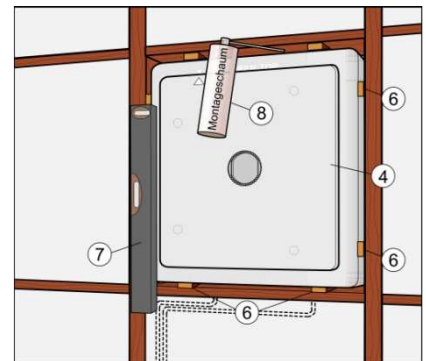


Abb. 4

6. Cover the mounting box with a plasterboard

- Remove the protective cover (4)
- Affix a plasterboard or sheetrock over the mounting box and cut out the opening for the mounting box

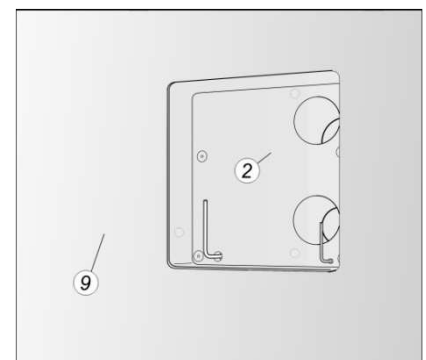


Abb. 6

7. Align the mounting box at the outside

- If the wall thickness is less than 365 mm, cut the mounting box (2) to length, until it is flush mounted to the exterior wall. Walls thicker than 365mm, will be compensated by the pipes. (Abb. 7)

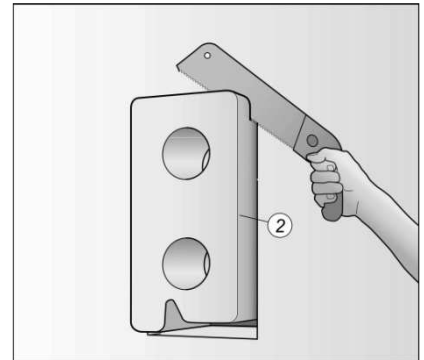


Abb. 7

8. Plastering of mounting box on the exterior

- Insert the Protective Plug (14) from the outside into the mounting box with an excess length, to ensure that the holes for the ventilation pipes will be kept free from any plaster and have the correct diameter
- Attach the plaster fabric (13) over the mounting box and the wall (if necessary also onto the facade insulation)
- **Caution!** This procedure is necessary to later avoid cracks in the plaster.
- Finish the external plastering. (Abb. 8)

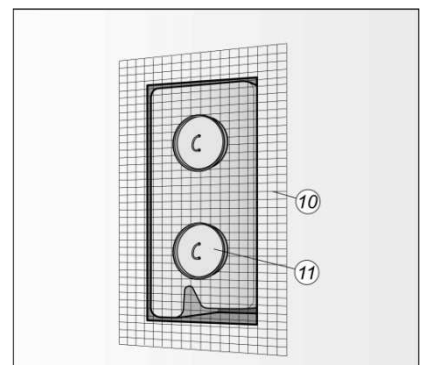


Abb. 8

9. Installation of the ventilation unit

The installation of the ventilation unit into the mounting box is described in the installation manual M-WRG-S/K (Part.- Nr. 5300-10-01).

