

## INSTALLATION GUIDE

### SINGLE-ROOM AIR HANDLING UNIT WITH HEAT RECOVERY MICRA 60



## INSTALLATION

### Tools required



Pencil



Drill  $\varnothing 8$  ( $\varnothing 5/16''$ ), 40 mm ( $1\ 9/16''$ )



Screwdriver



Dowel  $\varnothing 8$  ( $\varnothing 5/16''$ ), 40 mm ( $1\ 9/16''$ )  
2 pcs.



Screws 5 ( $1/5''$ ), 50 (2)  
2 pcs.

## MOUNTING

The unit is mounted with the master plate from the delivery set, fig. 1. Please prepare also two air ducts of required length or one of the mounting sets MICRA 60. The mounting set MICRA 60 is specially designed for

mounting of the unit at general construction stage. It includes two plastic air ducts, each  $19\ 13/16''$  long and two master plates for marking the holes on inner and outer wall sides.

### PAPER MASTER PLATE FOR HOLE MARKING [MM] (INCHES)

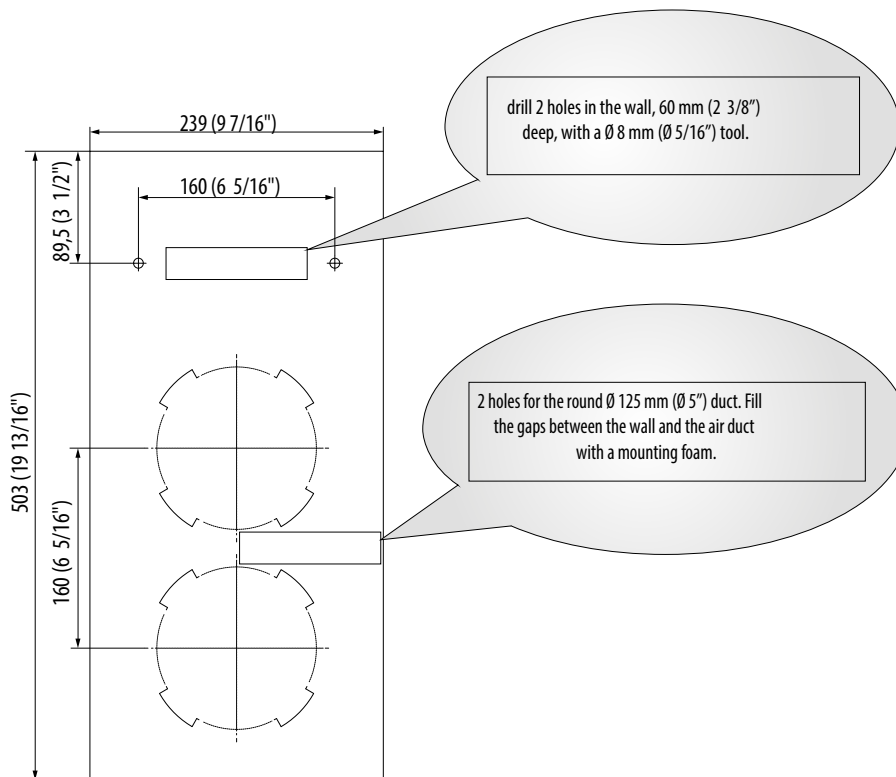
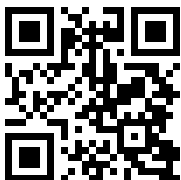
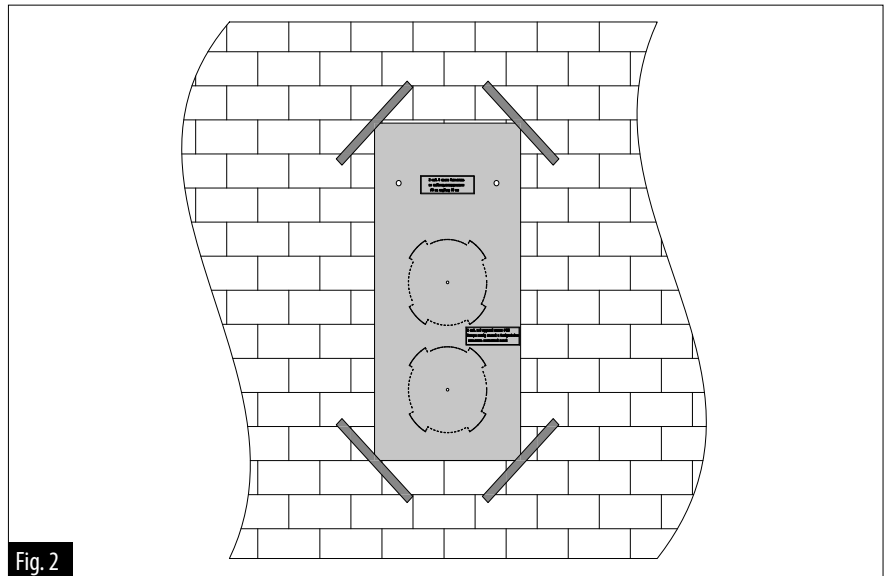


Fig. 1



**Unit mounting sequence:**

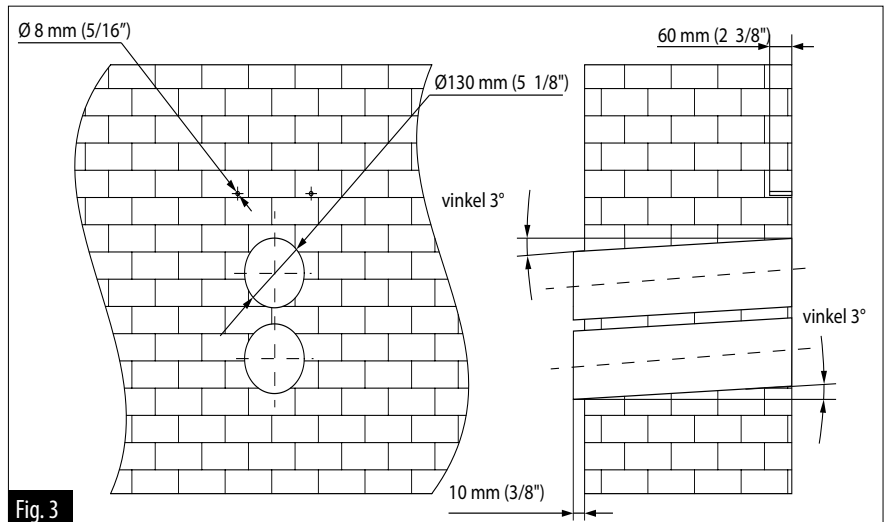
1. Fix the master plate from the delivery set on the wall with a sealing tape on required level, fig. 2.



**Fig. 2**

2. Use the master plate to mark two  $\varnothing 130$  (5 1/8") mm holes for the air ducts and two  $\varnothing 8$  (5/16") mm holes for the dowels.

3. Remove the master plate and drill through holes for the air ducts and the 60 mm (2 3/8") deep holes for the dowels. Drill the holes for the air ducts sloped down by 2-3°. Then insert the dowels (included into delivery set) into respective holes.

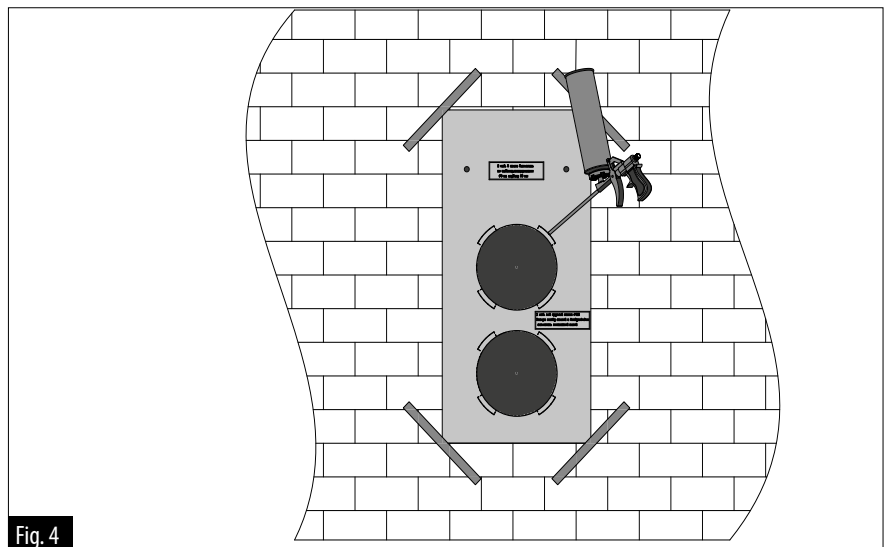


**Fig. 3**

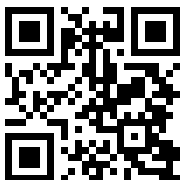
4. Remove the perforated holes for the air ducts from the master plate. Re-install it with a sealing tape. If you use either MICRA 60 set, fix the master plate from the mounting set on outer wall side to align the air ducts with respect to each other. Fix this master plate somewhat lower to ensure the minimum required slope by 3° to outside.

5. Inset the air ducts into the master plate holes and seal those with a mounting foam through the provided openings in the master plate, fig. 4. Install the air ducts sloped down by 2-3° outside to ensure the condensate drainage.

6. After the mounting foam hardening (see the solidification time in the product specification) remove the master plates. At the inner wall cut the protruding parts of the air ducts to be flush with the wall. On outer wall side, the air ducts must protrude by 10 mm (3/8") to prevent condensate dropping on the wall.



**Fig. 4**



### 7. Unit installation sequence:

- Open the front panel and remove the heat exchanger.
- Connect the unit spigots to the plastic air ducts.
- Fix the unit to wall with the screws 5,0x50 from the delivery set by inserting those to the Ø 8 mm (5/16") holes.
- Install the heat exchanger and close the front panel.
- Install the NB MICRA 60 outer ventilation hood outer of the building to prevent ingress of large foreign objects into the air ducts, fig. 5.

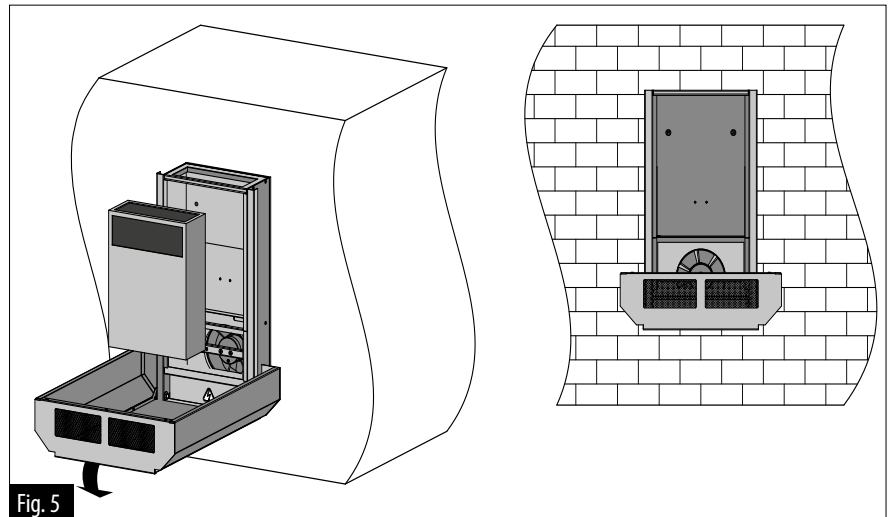


Fig. 5

Attention! The round plastic air ducts and the outer ventilation hood are not included into the delivery set and are available on separate order. You may use other ventilation grilles and hoods of the matching size.

Install the ventilation hood MICRA 60 on the outer side of the building to prevent ingress of foreign objects into the air ducts, fig. 7.

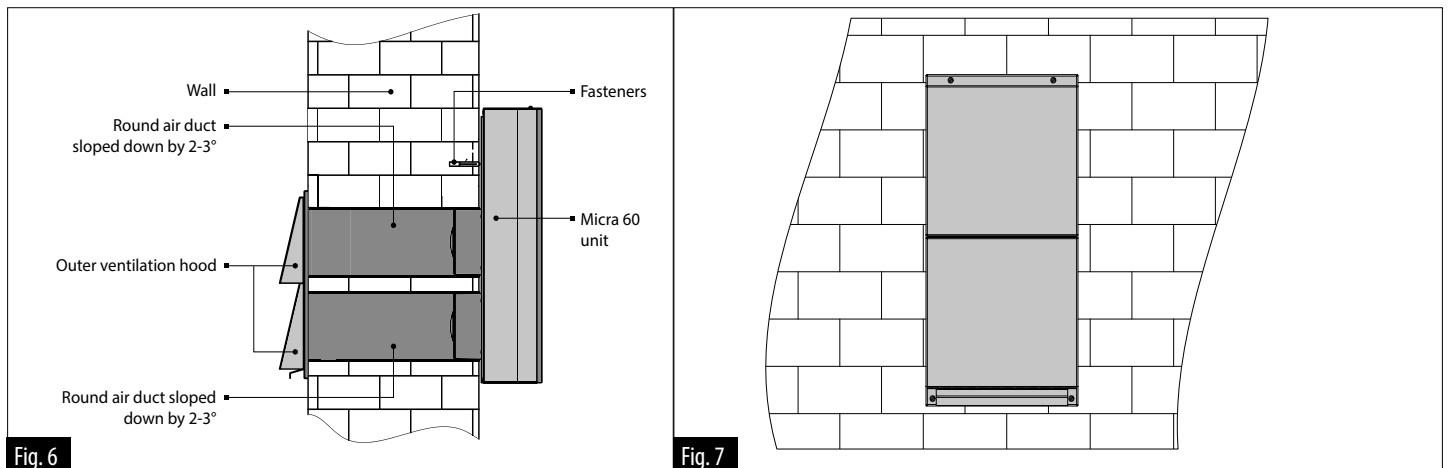


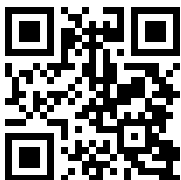
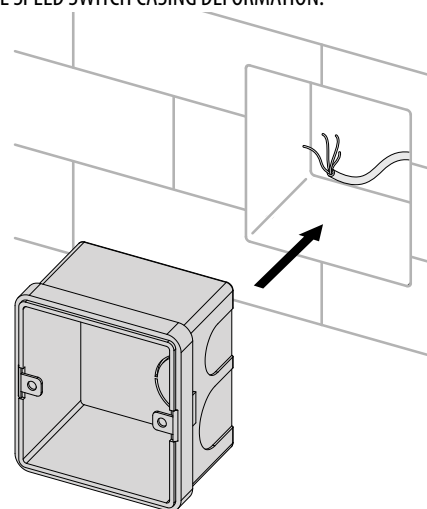
Fig. 6

Fig. 7

### SPEED SWITCH MOUNTING

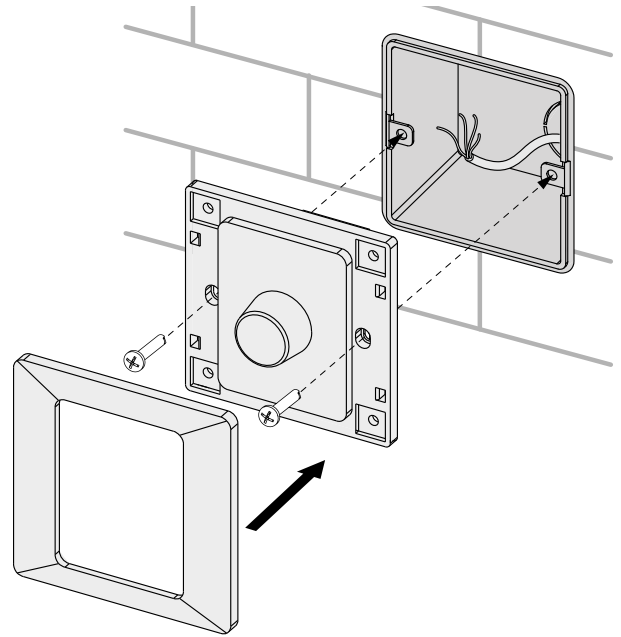
MAKE SURE THAT SPEED SWITCH IS NOT DAMAGED. DO NOT OPERATE A DAMAGED SPEED SWITCH! DO NOT INSTALL THE SPEED SWITCH ON AN UNEVEN SURFACE! DO NOT APPLY EXCESSIVE FORCES WHILE TIGHTENING THE SCREWS TO AVOID THE SPEED SWITCH CASING DEFORMATION.

- Route all the required cables and wires to the speed switch installation place.
- Insert the junction box from the delivery set inside the wall.



### P3-1-300 mechanical speed switch mounting:

- Connect the executive element according to the wiring diagram and insert it into junction box.
- Fasten the executive element with two screws from the delivery set.
- Cover the executive element of the speed switch with a decorative panel and press the latches to fix the panel.



### CONNECTION TO POWER MAINS

DISCONNECT THE UNIT FROM POWER MAINS PRIOR TO ANY ELECTRIC INSTALLATION OPERATIONS.  
 CONNECT THE UNIT TO A CORRECT INSTALLED SOCKET WITH A GROUNDED TERMINAL.  
 ANY INTERNAL CONNECTION MODIFICATIONS ARE NOT ALLOWED AND RESULT IN WARRANTY LOSS.

- The unit is rated for connection to single-phase ac 1~100-240 V/ 50-60 Hz power mains.
- The control unit is installed under the unit protecting panel.
- The unit is connected to the control unit via a 3 m long four-wire cable from the delivery set.

### WIRING DIAGRAM FOR THE UNIT WITH P3-1-300 MECHANICAL SPEED SWITCH

