



Installation Instructions for the Radial Round Duct Fan Type RA 15-60

- Please pass on to User -

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About these Instructions

- Please read these instructions completely and carefully before commencing installation work. General safety instructions and the warning symbols with text explanations must be observed at all times
- On completion of installation work, these instructions are to be passed on to the User (tenant, owner, building management etc.)

Symbols used in these Instructions:



This symbol warns of a risk of injury



This symbol warns of risk of injury from electricity

Safety Instructions



Danger! All installation and assembly work on the fan unit must only be carried out when the power supply has been cut off!! The fan has protective insulation pursuant to Protection Class II, protective earth connection



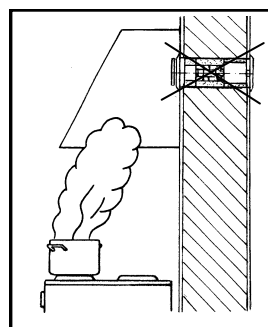
Caution! Electrical connection work must only be carried out by licenzed electrician or otherwise qualified professionals as per local regulations!



Caution! This unit must not be operated by children or persons (filter change/cleaning) who are not able to operate it safely due to their respective physical, sensoric or mental condition or on account of their inexperience or lack of know-how.



For fans operated within an exhaust air system, a functioning fresh air supply must always be ensured



Fan installation not admissible as range extraction hood

Technical Data; Disposal

Electrical Connection

Voltage supply: 12 VDC SELV

Power input:

Low level (15 m³/h) 0.6 W

Medium level (30 m³/h) 1.3 W

High level (60 m³/h) 7.2 W

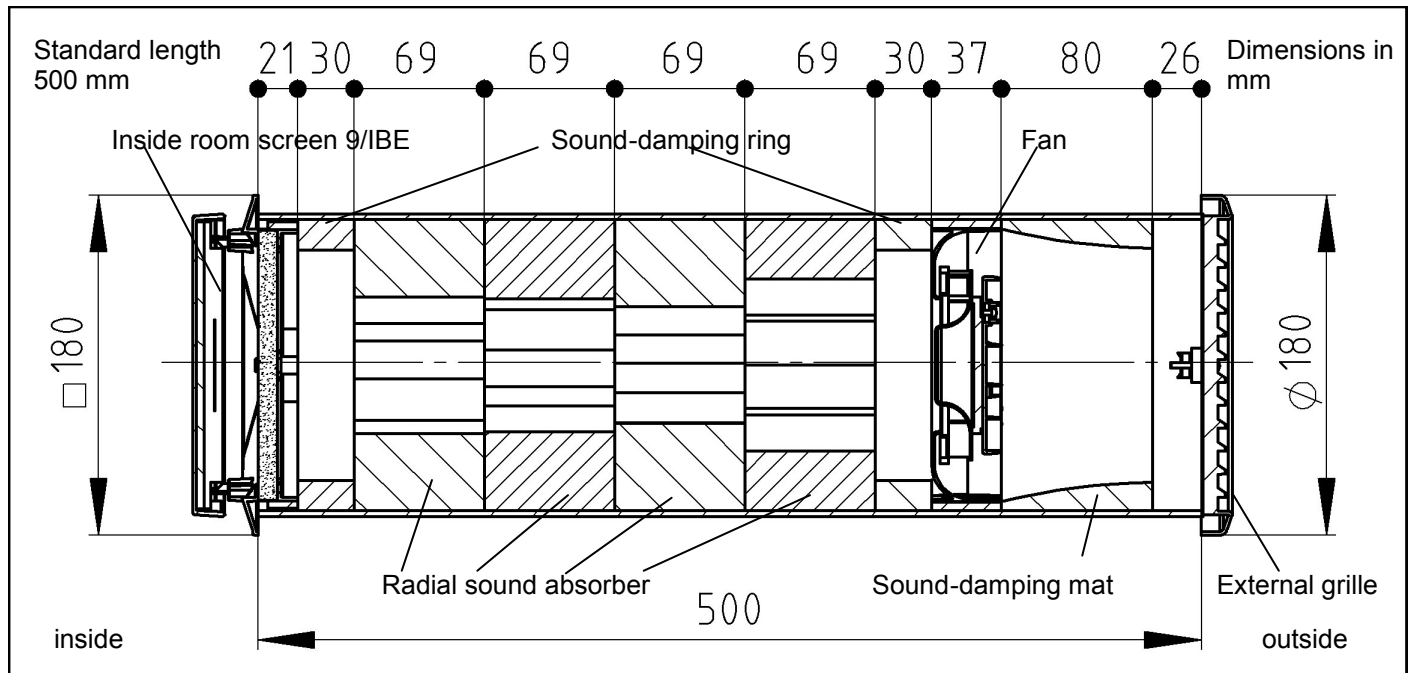
Protection Class: II

Protection Type: IP 20



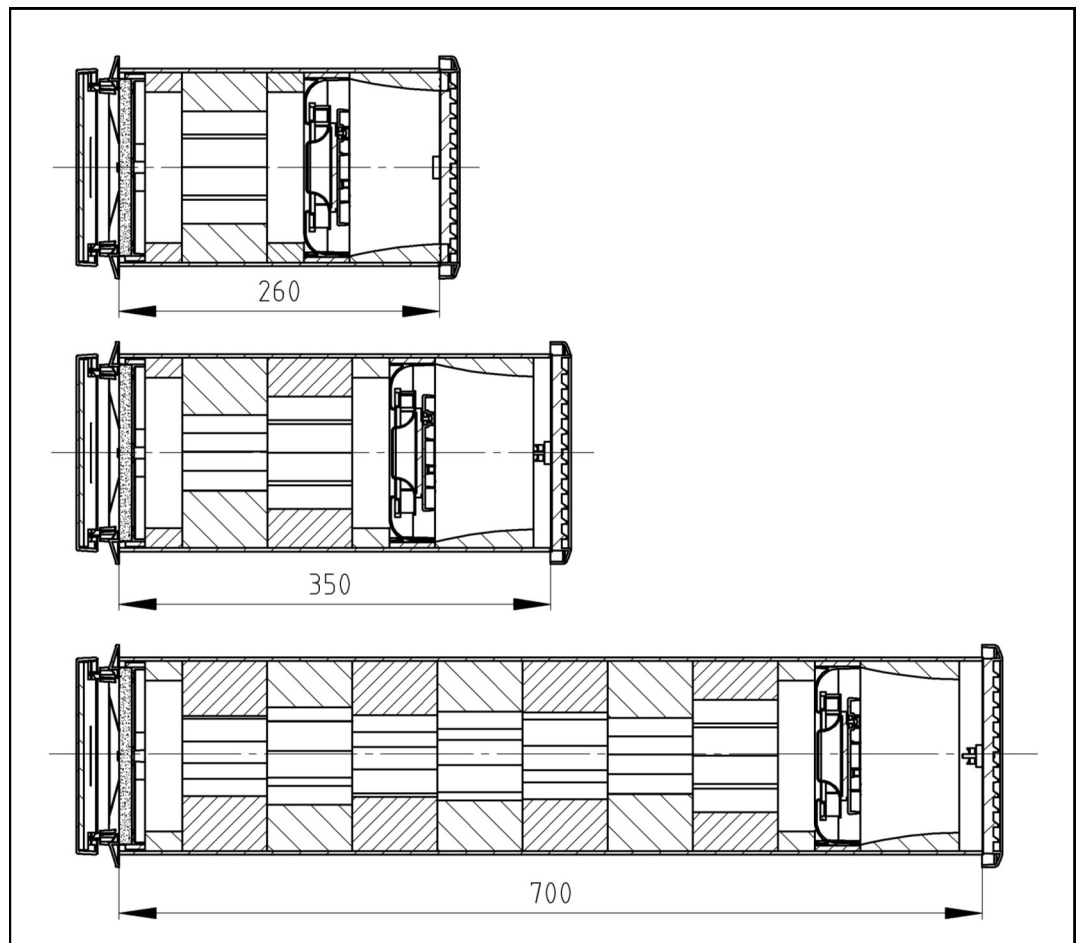
Dispose of the packaging appropriately. If you wish to dispose of the fan, it must be disposed in accordance with current local regulations.

Installation examples:



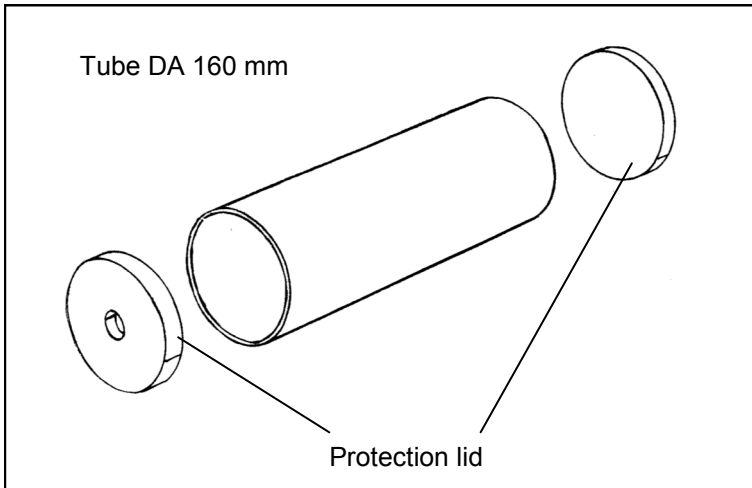
Other installation lengths:

Please observe the different number of radial sound absorbers to be used! The sequence of elements in the tube illustrated must be observed! The sound-damping mat is to be inserted with the thicker side towards the external grille! If required, shorten the sound-damping mat from the outside.

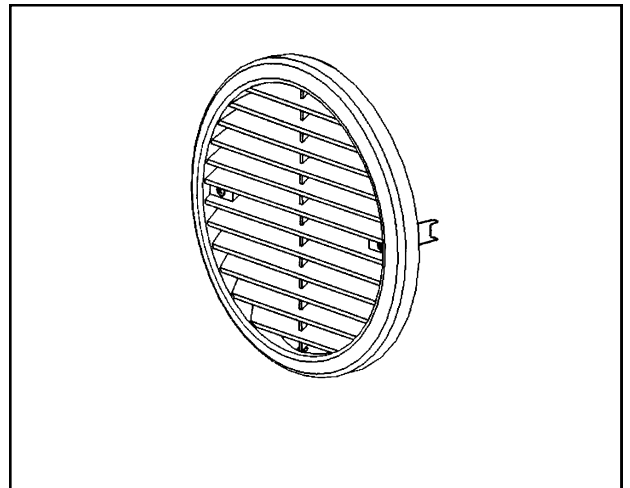


Delivery Units

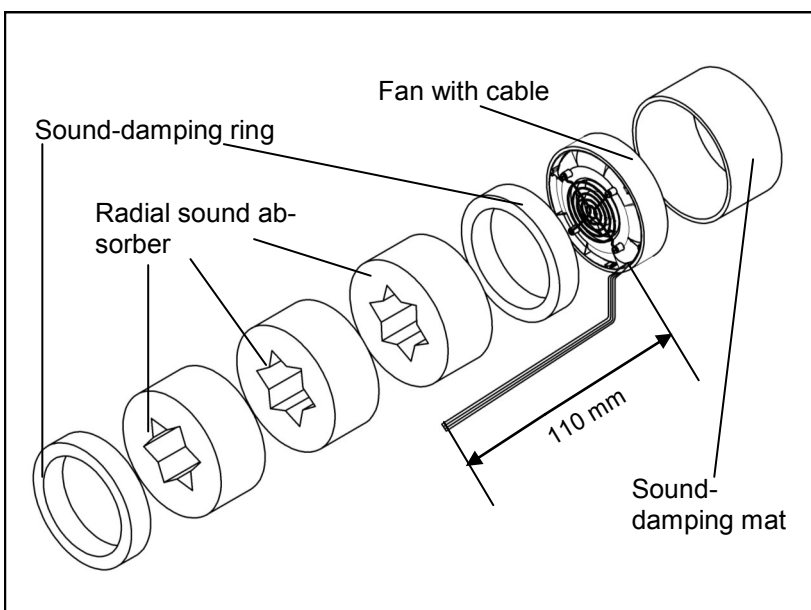
Mounting tube



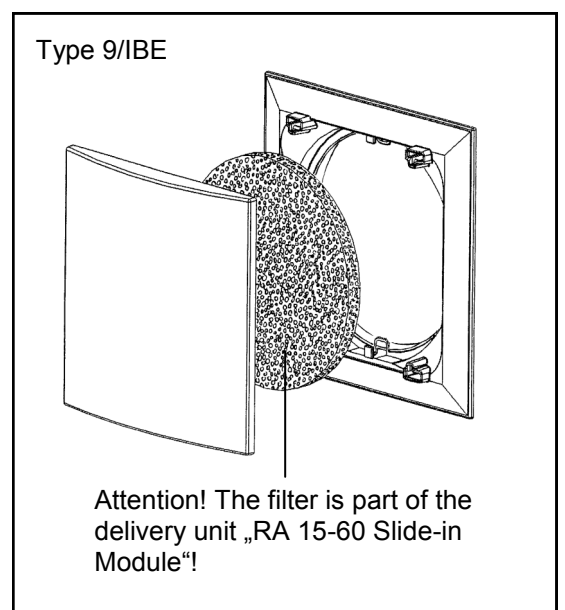
External grille



RA 15-60 Slide-in module



Inside screen

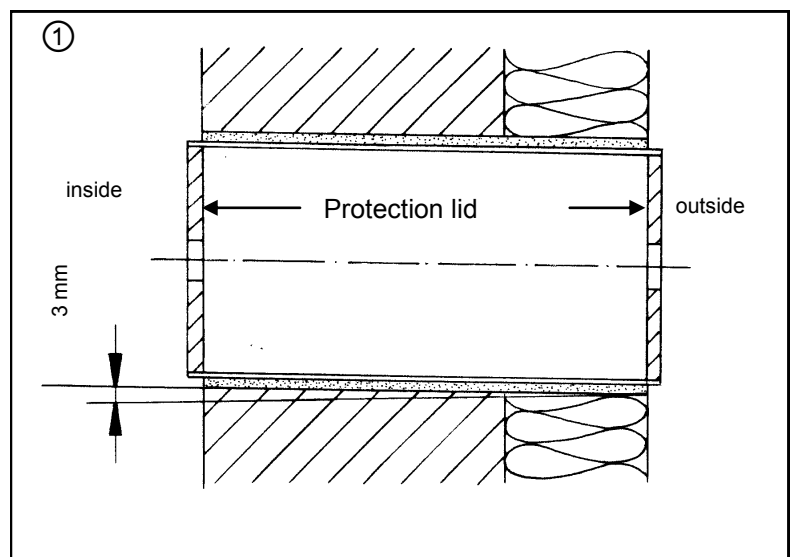


Check that the delivery is complete and in as new condition!

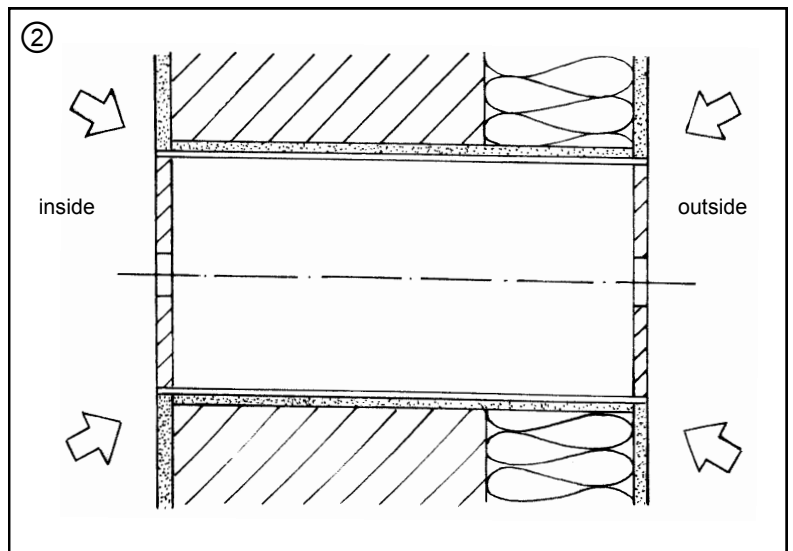
Assembly—Mounting tube

Provide holes in the wall for the mounting tube (e.g. via core drilling, core bit $\varnothing 162$ mm). If required, shorten the tube to the installation length required (min. 243 mm). Ensure that the tube projects on both sides to allow for grille installation. Tube to be flush with the plaster or siding on exterior.

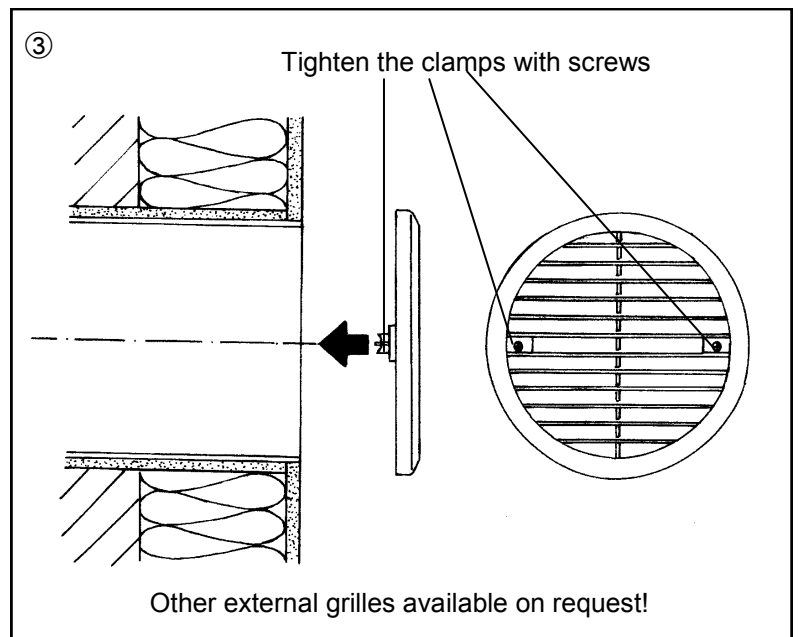
Insert the tube and airseal it with ROFLEX 150 gaskets or other means.



Apply the inside and outside finish/plaster.
 If mounting the exterior grille - remove the protective cover beforehand.





Remove the plaster protective cover outside.
 Mount the external grille using the integrated clamps (tighten the screws).



Installation—Motor Unit and electrical Connection

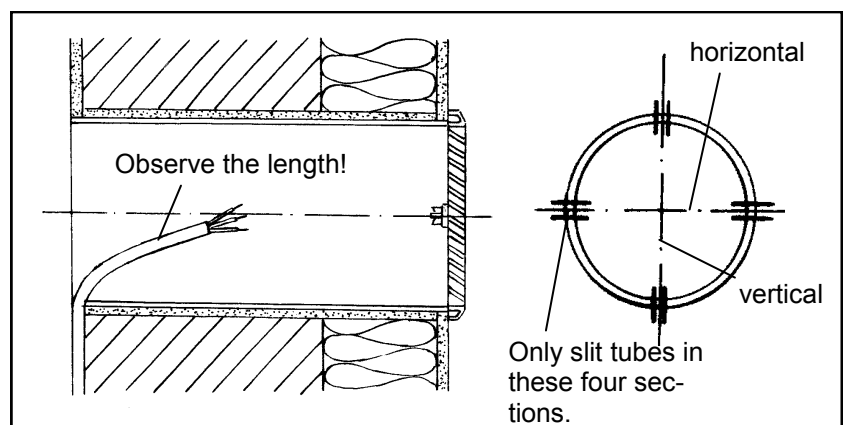
Safety Instructions:

-  Caution! Installation work must only be carried out when the power supply has been de-energized!
 Make sure all connection lines are de-energized before connecting the fan to the power supply! (Separation from power supply with at least 1/4"/3mm contact opening or an all-pole separating fuse).
 Each electric circuit linked to this ventilation system must be fitted with arc fault circuit interrupter (AFCI)

-  Electrical connections must only be carried out by licensed electricians

Additional installations and electrical components in this ventilation system are not permitted

Slice a 3/4" (2cm) cut in the tube.
 Only cut the tube vertically or horizontally.
 Install the appropriate length of power cable into the tube. Make sure the power cable is long enough, depending on the respective length of the mounting tube, to reach the connector of the motor!



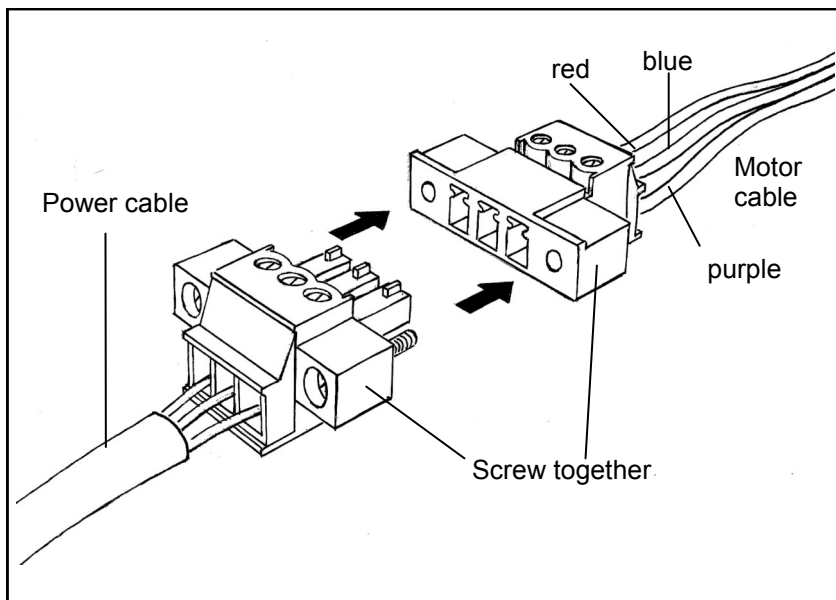
Cover and insulate the connection cable accordingly.

The motor is operated at 12 V DC and setting of the air volume flow levels is made via the control line (purple). The motor can also be operated via Comfort Control TAC:

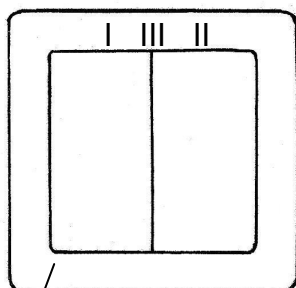
Installation instructions with wiring diagrams are enclosed for all circuits!

Mount the power cable to the connector. After plugging the connector together, secure the connection by fastening screws

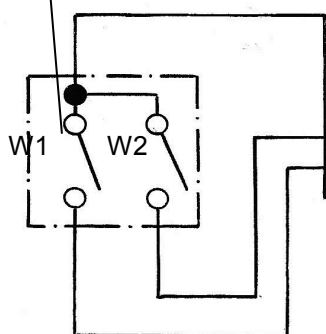
The connection diagrams below are examples, further connection possibilities are available upon request.



Circuit Diagram

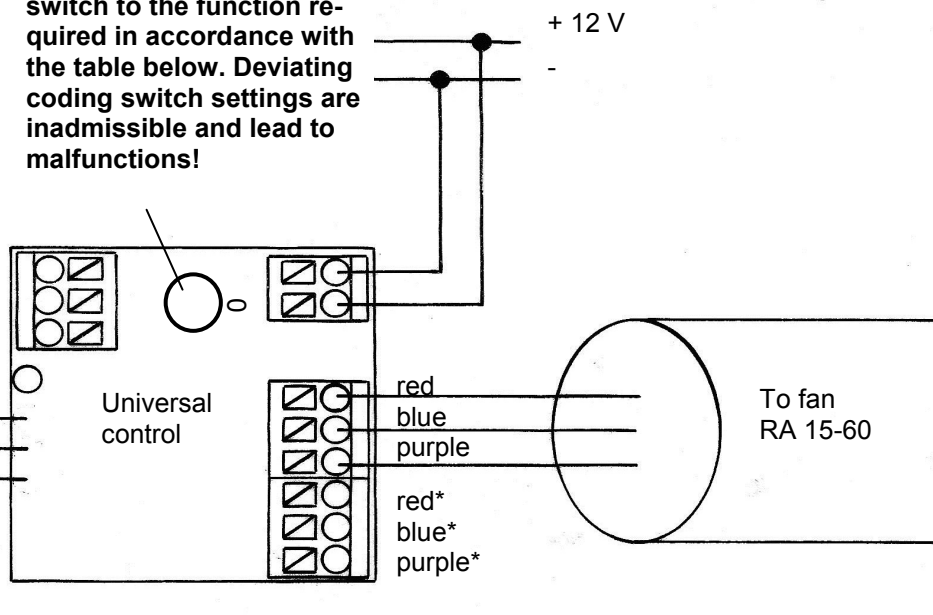


Series switch
View from front



* Connection option for second RA 15-60. When connecting two RA 15-60, ensure radial distribution, do not connect the blue (-) line for both motors via one common line!

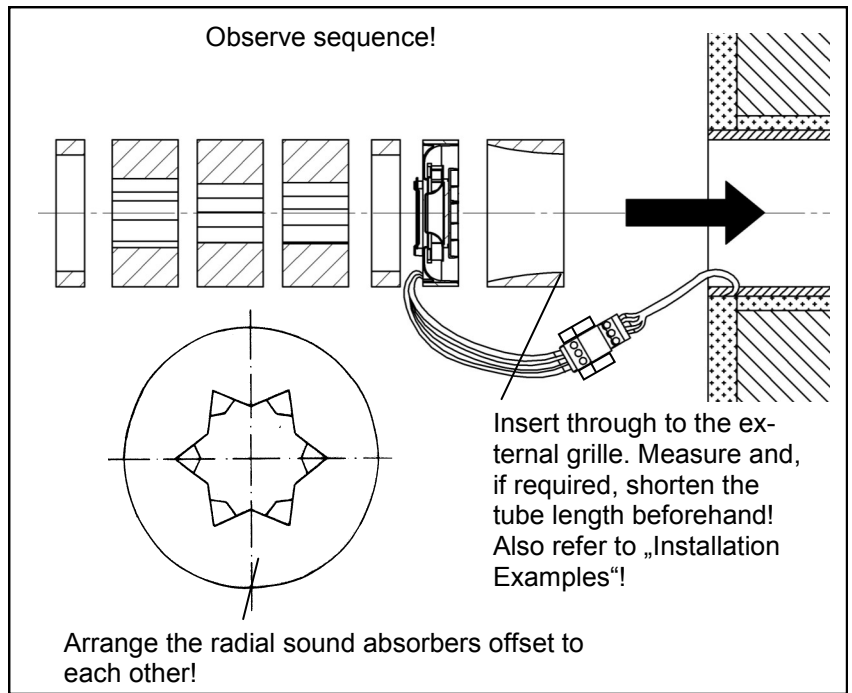
Important! Set the coding switch to the function required in accordance with the table below. Deviating coding switch settings are inadmissible and lead to malfunctions!



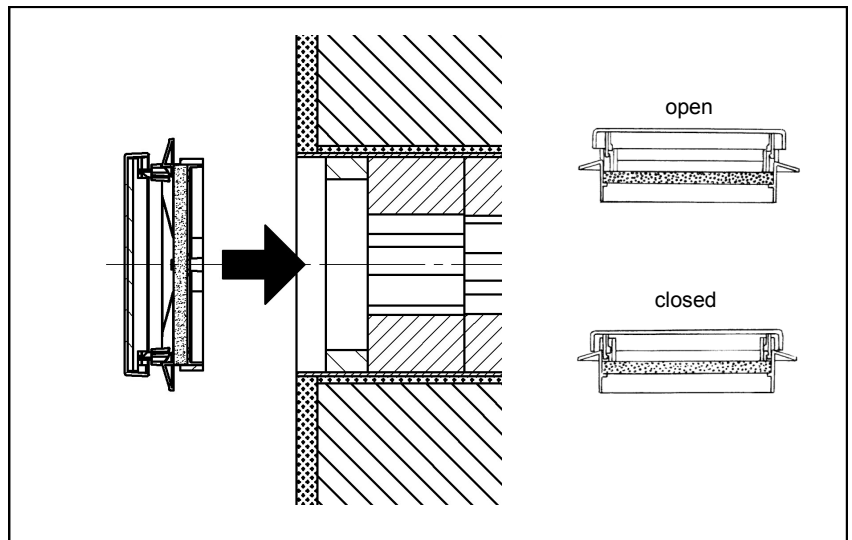
Coding Switch Settings

Coding switch setting	Functional Description	Programs and Air Volume Flows				Rockers W2
		Rocker 1 OFF	Rocker 1 ON	Rocker 1 OFF	Rocker 1 ON	
		Rocker 2 OFF	Rocker 2 OFF	Rocker 2 ON	Rocker 2 ON	
0	OFF, three-phase	OFF	15 m³/h	30 m³/h	45 m³/h	60 m³/h
1	OFF, three-phase	OFF	15 m³/h	30 m³/h	60 m³/h	
2	four-phase	15 m³/h	30 m³/h	45 m³/h	60 m³/h	

Insert the sound absorbers (if required, slit to provide improved positioning for the power connection cable) and the motor unit into the assembly tube.
 Position the power cable horizontally between the sound absorbers and the tube wall!



Insert the inside seal with filter and click in the inside screen in the open position! Finished!



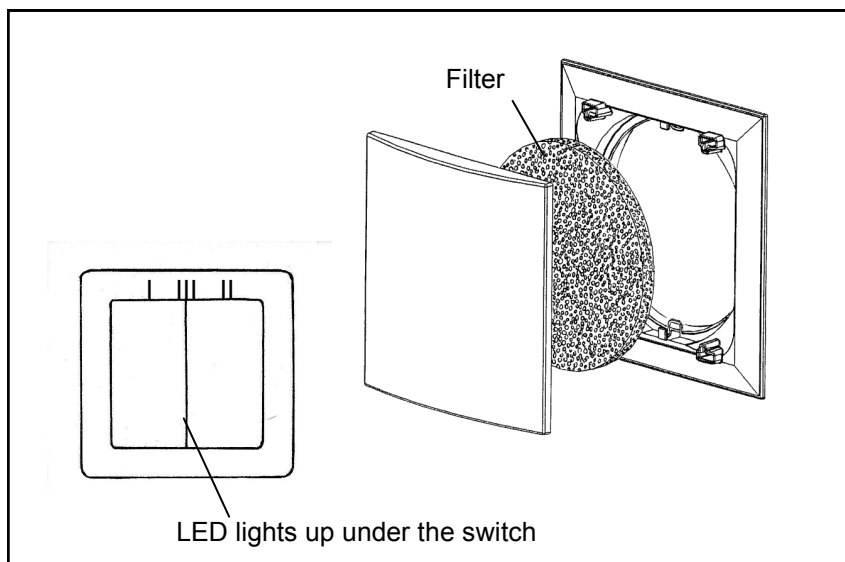
Filter Change

The filter change display under the switch lights up red continuously if the filter is dirty. Remove the inside room screen, remove the filter, insert a new or cleaned filter (cleaning of the filter can also be made e.g. in the dishwasher) and place on the inside screen.

To reset the filter change display, actuate the rocker switch I once within 3 s—the red light display goes out.

Ventilation openings must not be obstructed or covered.

When using the comfort control TAC, the filter change display is also realized via this control.



Please make a note of the filter changes carried out:

Filter change date	Estimated filter change	Filter type used

Cleaning



When required, wipe the inside room screen and the cover frame with a dry, soft cloth. Filter changes and cleaning must not be carried out by children and persons who are not able to execute such work safely due to their physical, sensoric or mental condition or on account of their inexperience or lack of know-how.

Additional/Spare Parts

Inside screen, compl. 9/IBE
Spare filter 9/FIB3R Triple pack

External grille:

Type 1/WE 180 white

Type 1/RE 180 reddish brown

Type 1/BE 180 sanded

External grille for plastering, on request

Order No.: 039 851

Order No.: 037 214

Order No.: 039 852

Order No.: 039 854

Order No.: 039 917



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