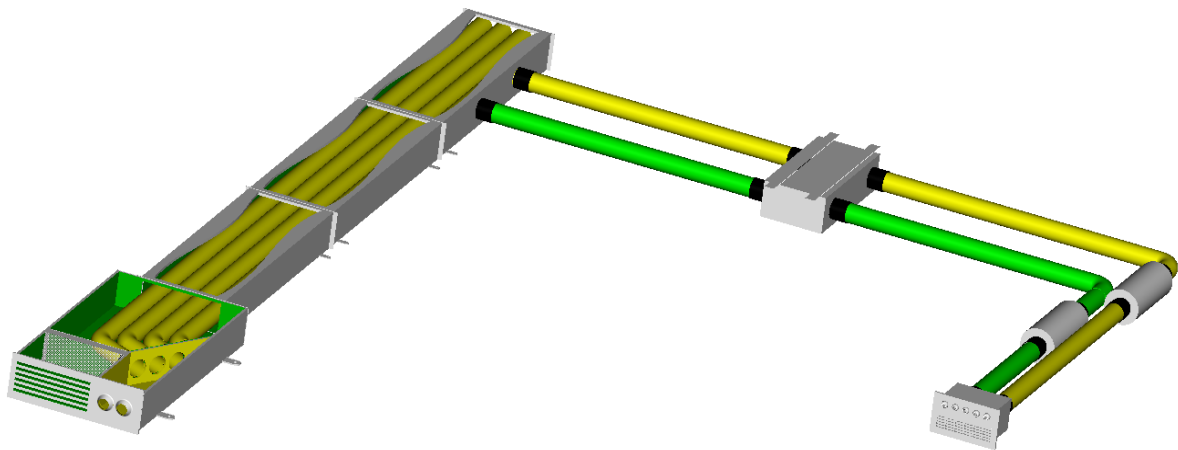


Installation and maintenance

WRL



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WRL

Installation and maintenance

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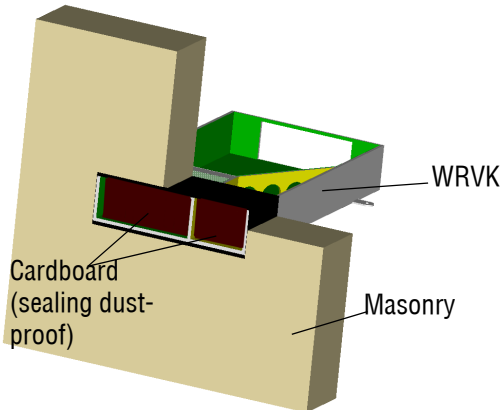
WRL

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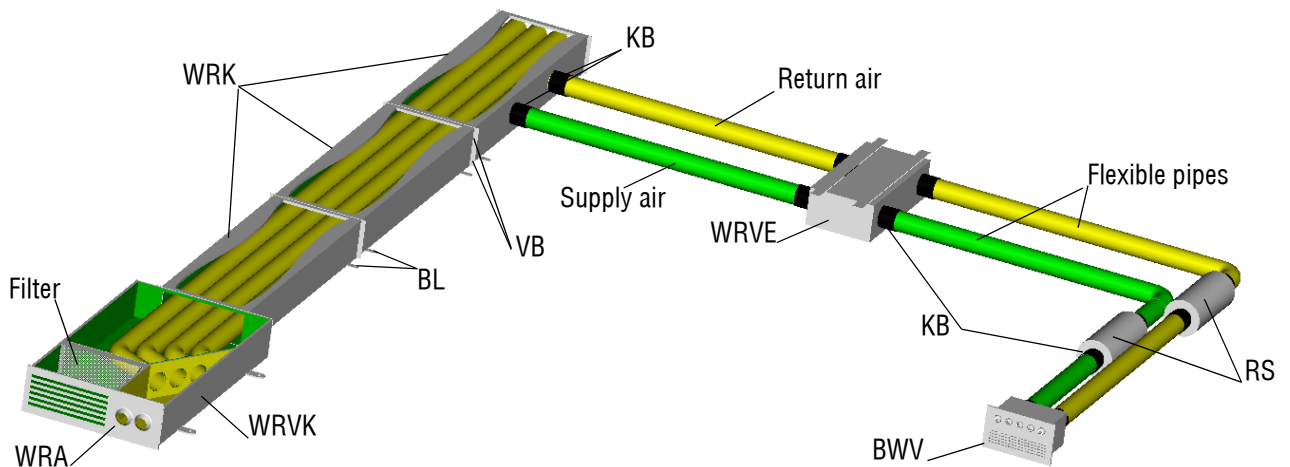
Storage

The living area ventilation component WRL must be stored in a dry and dust-free place. Make sure that the open connections of the living area ventilation component WRL are sealed dust-proof up to the connection to the duct system. Before connecting it to the duct system, the installer must remove the cover (dust-proof sealed cardboard). After installation of the living area ventilation component WRL and of the remaining components is complete, the intake and exit openings must be sealed dust-proof with the cardboard, in order to prevent dust or dirt from entering the living area ventilation system during the further construction stage.

WRVK sealed with cardboard after installation:



List of components of the living area ventilation system



Meanings

WRA = Outer grille for supply air and return air
 WRVK = Distribution box with plaster frame
 WRK = Ventilation duct with integrated heat recovery
 Return air = Marked in yellow
 Supply air = Marked in green
 BL = Fixing lugs
 VB = Connection screws

WRVE = Supply air and return air ventilator unit
 BWV = Supply and return air grille unit with plaster frame
 RS = Duct silencer
 Filter = Integrated filter in WRVK
 Flexible pipes = Flexible pipes
 KB = Adhesive tape

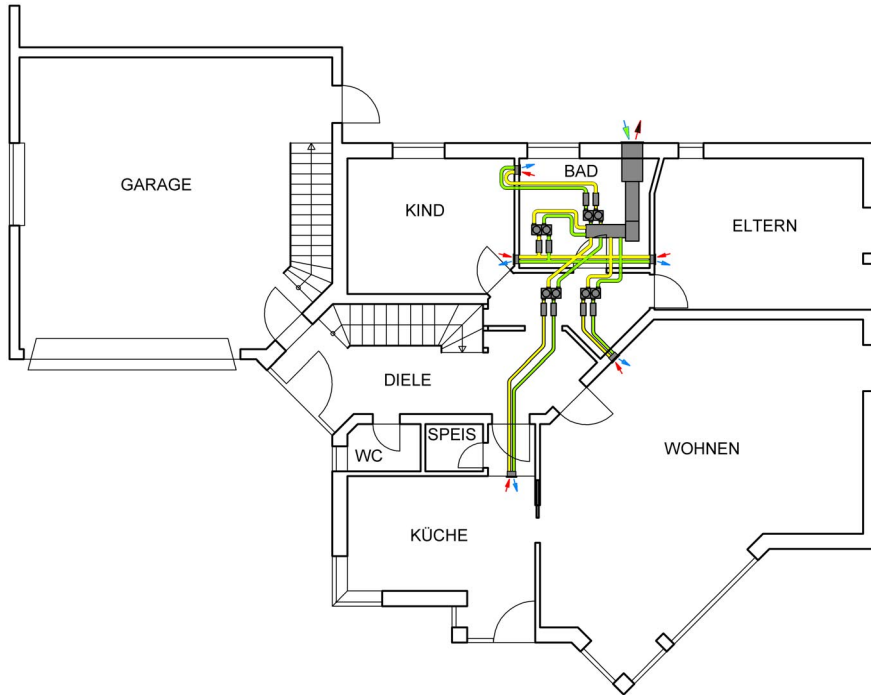
WRL

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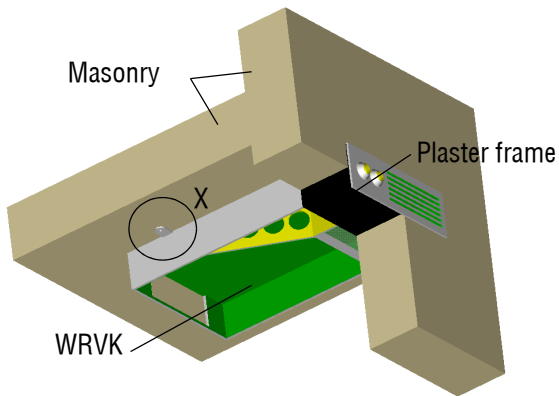
Mounting

The living area ventilation components WRL must be mounted at the intended locations in accordance with the planning documents. The planning documents are enclosed with the delivery.

Example of planning documents



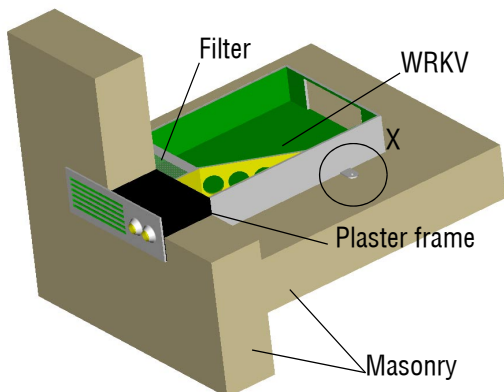
Step 1: WRVK ceiling mounting



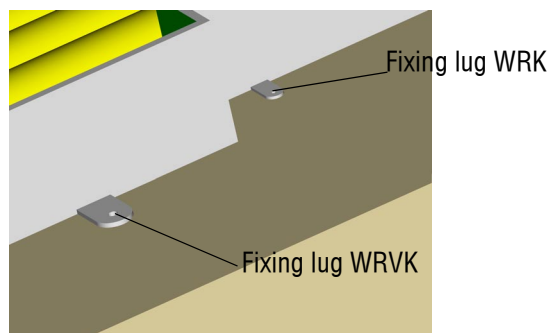
For mounting the distribution box WRVK, first the plaster frame must be fastened in the on-site wall opening using suitable aids (mortar, foam). Once the plaster frame has been mounted, the WRVK can be inserted in the plaster frame and fastened there by doweling the fixing lugs to the ceiling or floor using the on-site screws.

Make sure that the filter is fitted such that it is readily accessible for maintenance!

WRVK floor mounting



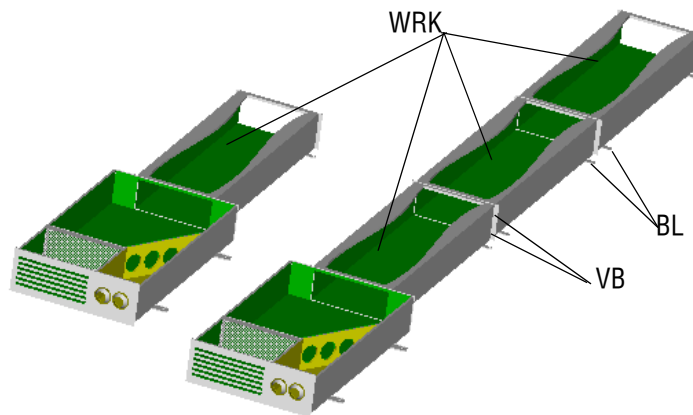
Detail X:



WRL

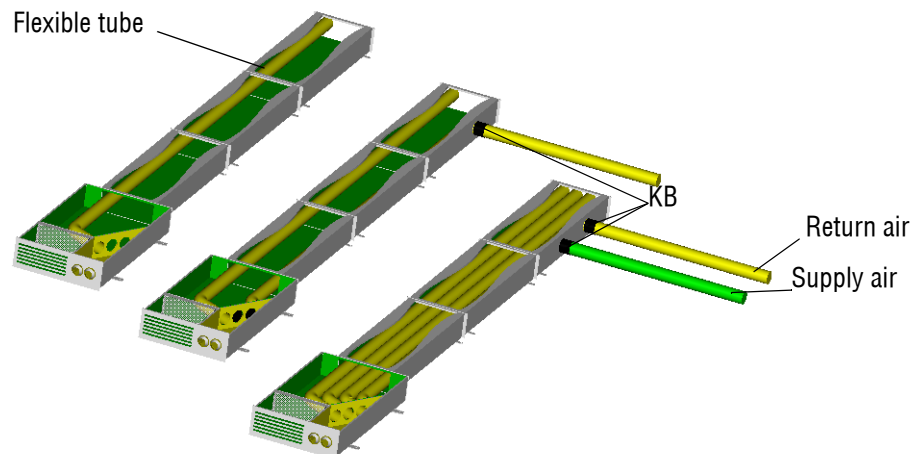
Installation and Maintenance

Step 2:



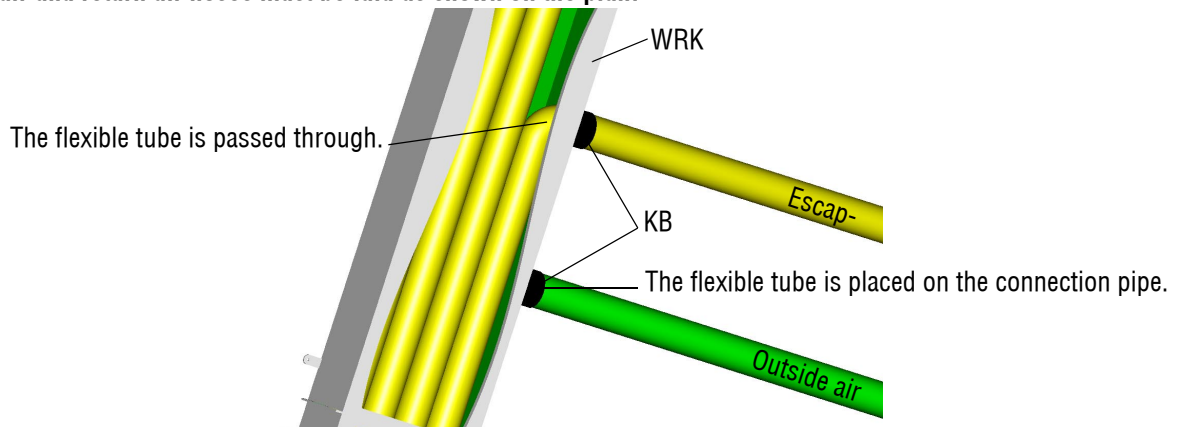
The WRKs must be positioned as shown on the layout plan and connected using the enclosed connection screws (VB). The screw joint material is enclosed with the delivery (M6x15 screws and nut). Now the fixing lugs (BL) must be fastened to the ceiling or floor using suitable on-site screws.

Step 3:



Mounting the supply air and return air flexible hoses

The supply air and return air hoses must be laid as shown on the plan!

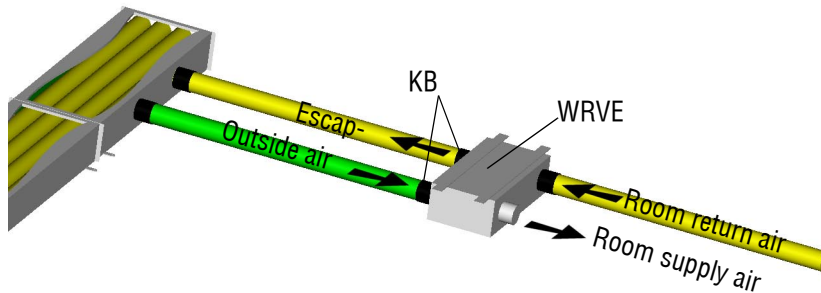


The supply air hoses must be slipped onto the connection pieces of the WRK and sealed airtight using the enclosed adhesive tape (-KB). The return air flexible hoses are passed through the connection pieces of the WRK and slipped onto the connection pieces of the WRVK. The flexible hose lead-through at the WRK and the connection pieces at the WRVK also have to be sealed airtight.

WRL

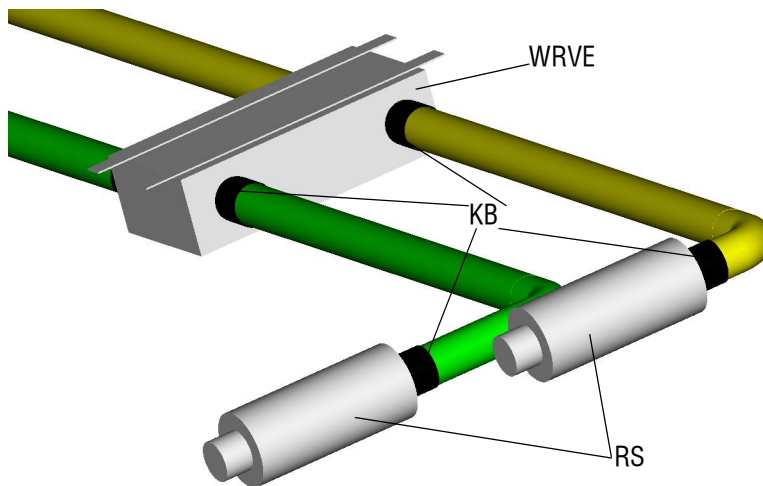
Installation and Maintenance

Step 4:



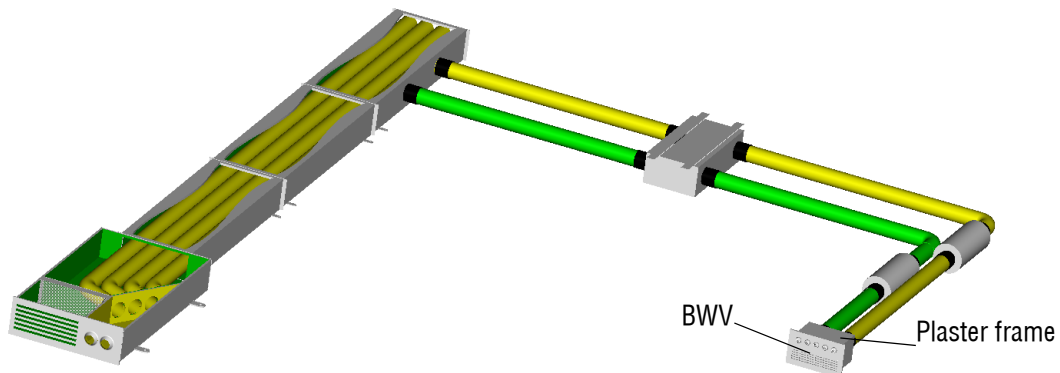
The supply air and return air hoses must be connected to the correct connection pieces of the WRVE. The connection pieces of the living area ventilation component WRL are marked accordingly. The electric installation at the WRVE must be carried out in accordance with the VDE Guidelines (VDE 100/EN or IEC standards).

Step 5:



Mount the duct silencers (-RS) as shown on the plan to the positions provided for them and seal them with adhesive tape.

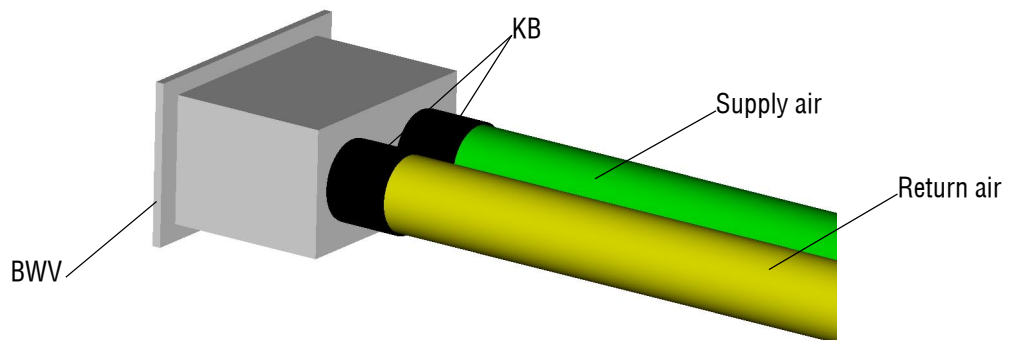
Step 6:



To mount the supply air and return air grille BWV, you first have to fasten the plaster in the on-site wall opening using suitable aids (mortar, foam). As soon as the plaster frame has been mounted, you can insert the BWV in the plaster frame and fasten it there.

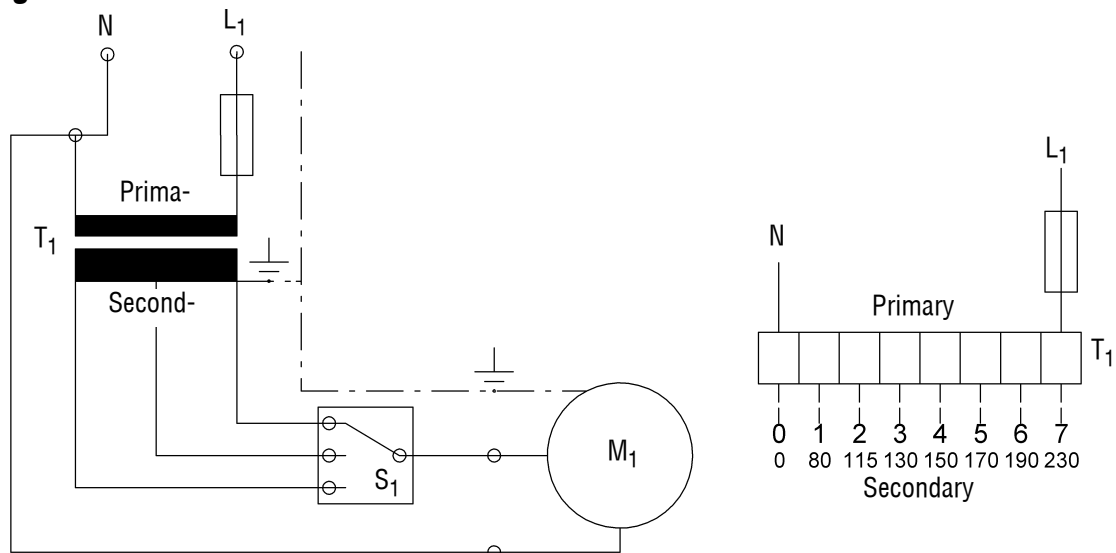
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This is followed by mounting the supply air and return air flexible hoses at the BWV using adhesive tape. When connecting the supply air and return air flexible hoses, make sure that the supply air is connected to the upper connection (nozzle row) and the return air to the lower connection (return air grille).

Circuit diagram for WRVE



T1 = Step transformer S1 = Three-contact switch M1 = Supply air/return air ventilator

The electrical installation must be carried out as shown on the circuit diagram.

Control unit

The living area ventilation component WRL is operated via a three-contact switch.

- Contact 0 = System off
- Contact 1 = Minimum volume
- Contact 2 = Maximum volume

WRL

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Startup:

Before startup, the system must be checked for correct installation and connections, ensuring in particular that all flexible hoses have been sealed airtight on the connection pieces and lead-throughs. The outer grille WRA and supply air and return air grilles of the BWV must not be mounted until construction is complete. Prior to that, the covers on the supply air and return air openings of the system must be removed.

Maintenance instructions

The filters must be checked at regular intervals and replaced when they are soiled. The filter maintenance intervals depend on the degree of pollution of the air throughput. It is recommended checking the filters every three months after installation. If no substantial soiling is detected in two consecutive maintenance checks, the maintenance interval can be increased to twice a year. The external air intake grille must be submitted to a visual inspection once a year and cleaned when required. When a fault occurs at the ventilator unit, suitable expert personnel must be commissioned with checking and cleaning it.

Installation and startup must take place according to the specifications, as any non-observance may result in damage to the living area ventilation component WRL or to the rooms in which the WRL has been installed.