

e⁹⁰: Description and functions

General information

This information is primarily intended for the user of the e⁹⁰. We assume that the units and any additional ventilation components have been installed and commissioned by a specialist.

We also assume that it is known which ventilation units or additional components have been installed and where and how they are connected.

The e⁹⁰ is an exhaust air unit with heat recovery which has been installed in the functional rooms such as the kitchen, bathroom and toilet of your apartment or house. These fans ensure that used and moisture-laden air is exchanged or removed. At the same time, they are particularly energy-efficient thanks to heat recovery.



The following versions refer to the e⁹⁰ with the universal control from LUNOS in conjunction with the series switch.

Operation and functions

Operation of the series switch

The fans are switched via a series switch, which is located in the exhaust air room in which the e⁹⁰ is installed.



By actuating the rocker switches a total of 4 levels can be selected.

If both rocker switches point downwards (see illustration) level 0 is active. This usually means that the fans run permanently on a very small level or are switched off (control setting).

If the left rocker switch is operated and the right rocker switch remains in the above-mentioned position, the fan runs at stage I. The fan is switched off when the left rocker switch is pressed and the right rocker switch remains in the above-mentioned position. If the right rocker switch is switched up and the left rocker switch remains down, stage II is active. If both rockers point upwards the III. stage is switched on.

Volume flow

The e⁹⁰ can either work 5, 10, 15, 20 m³/h in the heat recovery mode (both fans change the running direction approx. every 50 seconds) or 45 m³/h in the pure exhaust air mode. These values were calculated in the ventilation concept, questions can be answered by the installer, architect or planner.

We recommend to let the units run permanently on a lower level and to switch to the higher levels if necessary (the known airing several times a day). For the removal of peak loads, the windows should be ventilated in a supportive manner.

Summer ventilation function

This function is especially designed for the cooler night hours in midsummer. The reversing times are significantly increased (to approx. 1 hour), i.e. the heat recovery is bypassed, the cool outside air can enter the heated rooms and passively cool them.

To activate this function, the right rocker switch must be pressed twice within 3 seconds (fast switching back and forth). To deactivate this function, you can switch the right rocker switch back and forth at any time. After 8 hours this function is deactivated automatically and the normal reversing time (approx. 50 seconds) is restored.

Operation and functions

Humidity control

If this function is selected and level 0 is activated, the fan automatically exchanges the air in different volume levels.

This function is indicated by a flashing green LED at intervals of approx. 15 seconds at the switch.

Filter change

If a filter change is to be carried out, this is indicated by the LED on the switch lighting up continuously in red.

To do this, remove the cover of the inner screen, remove both filters and clean them in the dishwasher or with water and detergent. The dry filters can then be reinstalled and the cover of the inner panel re-engaged.

Our regenerable filters can easily be cleaned 4-5 times before they should be replaced. The pollen filters can only be cleaned with a vacuum cleaner or you can use new filters.

To reset the filter change indicator, quickly switch the left rocker switch back and forth within 2 seconds.

If you wish to clean the filter before the red LED lights up, you are of course welcome to do so. To restart the cleaning interval, the left rocker switch must be switched back and forth three times quickly within 3 seconds.

Maintenance

Please remove the ventilation units from the wall regularly (at the latest before and after the heating period) and wipe all surfaces with a damp cloth. You can use a vacuum cleaner to clean the heat exchanger and fan.

Shutting down the units

If the units are to be switched off for a longer period of time, close the inner covers and remove all filters.

In case of downtimes of more than 6 months, please have all units professionally serviced.