

## AKE 100

### Product description

- The MAICO AKE ventilation system for needs-based dehumidification of cellar rooms extracts air and ventilates automatically and reliably: As soon as there is humidity in the cellar, it is conveyed to the outside. The cellar remains dry even in periods of high air humidity in the summer because no condensation can settle on the cold cellar walls or penetrate the masonry. The integrated intelligent controller protects the building substance from humidity.

### Mode of operation

- The controller permanently compares the absolute outside humidity with the absolute inside humidity. As soon as the absolute outside humidity falls below the absolute inside humidity, the fan of the AKE is automatically activated and a dehumidification period begins. Ventilation and air extraction takes place roughly every ten minutes. Then the fan is switched off for a further ten minutes so that the moist room air can mix with the dry air brought in from outside. After the waiting period, the climate comparison is repeated.
- If the absolute humidity of the outside air is found to be greater than that inside the room, air is not exchanged. This prevents moist air from flowing in. The fan is only switched on again once the climate conditions make dehumidification possible.
- The AKE switches the fan on and off automatically and in a manner optimised to demand. When off, the fan can be switched on manually with a button or switch and manual ventilation therefore takes place. Manual operation is ended by again pressing the button or automatically after 20 minutes. If an external switch is connected, manual ventilation is switched on or off in accordance with the switch setting. An automatic switch-off of the manual operating mode does not exist in this case. The fan cannot be switched off manually using the button when in the automatic operating mode.