**Centralised ventilation unit WS 250**

Features

Automatic constant volumetric flow regulation for equal air quantities.

Special energy savings due to the DC motor.

Galvanised plate housing, RAL 9010 plastic powder coated surface, sandwich construction, with integrated heat insulation.

Colour pure white, similar to RAL 9010

Integrated filter system with coarse filter (G4) and dust filter (F7) fitted in the outside air, coarse filter (G4) fitted in the exhaust air. Filter change is possible without tools.

Electronic filter monitoring with filter change warning displayed on the control unit.

4 DN 160 duct connections with rubber lip seals on top of the unit. For directly connecting up tubular sound absorbers.

Air distribution bypass / heat exchanger = 70 % / 30 %.

Control unit included in scope of delivery.

DIBT approval and PH certification

Connection to KNX systems possible.

Control unit

Included in the scope of delivery for WS 250.

Switching the ventilation levels, timer, day and week program, filter change display and fault messages.

The control unit is connected to the centralised unit using a shielded 5-core cable. It has a maximum length of 100 m.

Dimensions of control unit:

Width: 150 mm

Height: 80 mm

Depth: 32 mm

Heat exchanger

Counterflow heat exchanger made of synthetic material (PS).

The heat exchanger can be easily removed and cleaned with water.

Frost protection

Integrated defroster heating component (1500 W) for trouble-free and frost-free operation.

Recommendation: Combine units with heat recovery with a brine earth heat exchanger.

Energy-efficient fans

2 centrifugal DC fans, one fan each for supply air and exhaust air. Adjustable in 5 m3/h steps from 100 m3/h up to 250 m3/h.

3 ventilation levels:

1 = Reduced ventilation

2 = Nominal ventilation

3 = Intensive ventilation

Factory setting: 100 / 150 / 200 m3/h

Mounting instructions

Mounting on the wall or a pedestal is required to ensure access to the condensation connection.

For installation or wall fitting using a bracket: In cellars, attics and engineering rooms.

The front plate can be unscrewed.

Decouple the housing with impact sound plates for sound insulation.

Condensation drain

Condensation is drained out at the bottom of the unit using a hose (DN 1/2") connected to a siphon.

Technical data

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| Article: | WS 250 |
| Number of ventilation levels: | 3 |
| Air flow volume: | 100 m³/h - 250 m³/h |
| Volumetric flow constant: | yes |
| Speed controllable: |  -  |
| SEC average: | -32,4 kWh/(m²\*a) |
| Energy efficiency class: | B |
| Type of voltage: | Alternating current |
| Rated voltage: | 230 V |
| Frequency: | 50 Hz/60 Hz |
| Power consumption: | 30 W - 95 W At 100 Pa counter pressure |
| Imax: | 6,9 A With active frost protection heating |
| Degree of protection: | IP 00 |
| Electrical plug-type connection: | Earthing contact |
| DIBT approval: | yes |
| PHI certification: | yes |
| Installation site: | Cellar / Storage tank / Jamb wall / Utility room / Heating room |
| System type: | Centralised |
| Heat exchanger material: | Synthetic material |
| Colour: | Pure white, similar to RAL 9010 |
| Weight: | 79 kg |
| Weight including packaging: | 87,5 kg |
| Filter class: | G4 / F7 / G4 / F7 |
| Connection diameter: | 160 mm |
| Connection diameter of condensation drain: | 1/2" hose connection |
| Width: | 759 mm |
| Height: | 854 mm |
| Depth: | 531 mm |
| Width with packaging: | 780 mm |
| Height with packaging: | 985 mm |
| Depth with packaging: | 550 mm |
| Airstream temperature at IMax: | 50 °C |
| Degree of heat provision: | 92 % |
| Heat exchanger construction type: | Cross-counterflow |
| Bypass: | automatic |
| Frost protection: | integrated |
| Enthalpy heat exchanger: | optional (WSET 250) |
| Antifreeze circuit: | yes |
| Summer circuit: | Exhaust air |
| Filter monitoring: | pressure controlled |
| Humidity control: | optional with HY 5, HY 5 I, HY 10 AP, HY 10 UP |
| CO2regulation: | SKD + relay (supplied by the customer) |
| Air quality control (optional): | EAQ 10/1 |
| KNX connection (optional): | to be supplied by the customer |
| MODBUS interface: | No |
| Control unit included in scope of delivery.: | yes |
| Control unit (optional): | No |
| Wireless switch on/off (optional): | XE 1, XS 1 |
| EnOcean wireless integration (optional): | No |
| Mobile control: | No |
| Housing emission sound pressure level: | 36 dB(A) Spacing 1m, sound absorption 10 m² |
| Approval number: | Z-51.3-104 |
| Packing unit: | 1 piece |
| Range: | K |
| GTIN (EAN): | 4012799950509 |
| Article number: | 0095.0050 |

Manufacturer: MAICO

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