**Centralised ventilation unit WR 600**

Features

Special energy savings due to DC motors with EC technology.

With automatic volumetric flow regulation for constant air quantities.

Sheet steel, powder coated housing.

Colour pearl light grey.

Inner coating of heat resistant plastic material (EPP), non-hygroscopic.

Simple filter change is possible without tools.

2 x G4 filter, 1 x F7 filter.

2 DN 250 duct connections with double lip seals each. For directly connecting up tubular sound absorbers.

DIBT approval and PH certification.

Connection to KNX systems possible.

Control unit

RLS 1 WR control unit is included in the scope of delivery as standard.

Filter change warning displayed on the control unit.

Set the 4 ventilation levels using buttons.

Fault display.

Other control units can be connected in parallel.

Heat exchanger

Cross-counterflow plate heat exchanger made of aluminium.

The heat exchanger can be removed easily once the front plate has been unscrewed.

The heat exchanger can be easily cleaned using water.

Frost protection

Guaranteed frost protection ensures that the heat exchanger does not freeze.

The frost protection feature switches the supply air fan off when the outgoing air temperature is too low and automatically back on again.

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

Energy-efficient fans

2 centrifugal DC fans, curved to the front. In the supply or exhaust air.

4 ventilation levels:

I = Interval / vacation operation for humidity protection

1 = Reduced ventilation

2 = Nominal ventilation

3 = Intensive / party operation

The air volume is linearly adjustable.

Mounting instructions

Feet for installation.

Ensure access to condensation connection on side.

Housing covers can be unscrewed.

Provide sound absorbers on the inlet and outlet sides.

Electrical connection

Ready for service.

Prepared for connection of sensors.

Potential-free contact e.g. for operating display.

Central inclusion in KNX/EIB bus possible.

Condensation drain

Condensation is drained out from the side of the unit. Condensation drain (3/4" hose connection) to connect up to a siphon.

Stable foamed-in condensation tank.

Plus function (summer operation)

In eco mode, only the exhaust fan runs, so around 50 % less power is used. Possible with RLS D1 WR digital control.

Technical data

|  |  |
| --- | --- |
| Article: | WR 600 |
| Number of ventilation levels: | 4 |
| Air flow volume: | 150 m³/h - 620 m³/h |
| Volumetric flow constant: | yes |
| Speed controllable: | - |
| SEC average: | -30,9 kWh/(m²\*a) |
| Energy efficiency class: | B |
| Type of voltage: | Alternating current |
| Rated voltage: | 230 V |
| Frequency: | 50 Hz/60 Hz |
| SPI value in accordance with DIN EN 13141-7 (A7): | 0,31 Wh/m³ |
| Power consumption: | 56 W - 303 W At 100 Pa counter pressure |
| Imax: | 3 A |
| Degree of protection: | IP 00 |
| DIBT approval: | yes |
| PHI certification: | No |
| Installation site: | Cellar / Storage tank / Jamb wall / Utility room / Heating room / Loft |
| Installation position: | horizontal |
| System type: | Centralised |
| Housing material: | Sheet steel, powder coated |
| Heat exchanger material: | Aluminium |
| Inner coating material: | Synthetic material |
| Colour: | pearl light grey |
| Weight: | 89 kg |
| Weight including packaging: | 106,5 kg |
| Filter class: | G4 / F7 |
| Connection diameter: | 250 mm |
| Connection diameter of condensation drain: | 3/4" hose connection |
| Width: | 1.115 mm |
| Height: | 1.200 mm |
| Depth: | 505 mm |
| Width with packaging: | 1.160 mm |
| Height with packaging: | 1.390 mm |
| Depth with packaging: | 590 mm |
| Airstream temperature at IMax: | 50 °C |
| Max. degree of heat provision in accordance with DIN EN 13141-7 (A7): | 89 % |
| Heat exchanger construction type: | Cross-counterflow |
| Bypass: | No |
| Frost protection: | External |
| Enthalpy heat exchanger: | No |
| Antifreeze circuit: | yes |
| Summer circuit: | Exhaust air with RLS D1 WR |
| Filter monitoring: | with time control |
| Humidity control: | optional with HY 5, HY 5 I, HY 10 AP, HY 10 UP |
| CO2regulation (optional): | SKD |
| Air quality control (optional): | EAQ 10/2 |
| KNX connection (optional): | to be supplied by the customer |
| MODBUS interface: | No |
| Control unit included in scope of delivery.: | RLS 1 WR |
| Control unit (optional): | RLS D1 WR |
| Wireless switch on/off (optional): | XE 1, XS 1 |
| EnOcean wireless integration (optional): | No |
| Mobile control: | No |
| Housing emission sound pressure level: | 43 dB(A) / 46 dB(A) / 50 dB(A) Spacing 1m, sound absorption 10 m² |
| Approval number: | Z-51.3-234 |
| Packing unit: | 1 piece |
| Range: | K |
| GTIN (EAN): | 4012799950806 |
| Article number: | 0095.0080 |

Manufacturer: MAICO

WR 600 Centralised ventilation unit