**Centralised ventilation unit WR 300**

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.

4 DN 160 duct connections with double lip seals. For directly connecting up tubular sound absorbers.

Summer cassette as accessory.

DIBT approval and PH certification

Connection to KNX systems possible.

Control unit

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

Filter change message.

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.

300-type fans can be easily swapped for 400-type fans.

Mounting instructions

Feet for installation.

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

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 at the bottom of the unit. Condensation drain (3/4" hose diameter) 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

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| Article: | WR 300 |
| Number of ventilation levels: | 4 |
| Air flow volume: | 80 m³/h - 300 m³/h |
| Volumetric flow constant: | yes |
| Speed controllable: | - |
| Type of voltage: | Alternating current |
| Rated voltage: | 230 V |
| Frequency: | 50 Hz/60 Hz |
| Power consumption: | 27 W - 125 W At 100 Pa counter pressure |
| Imax: | 2 A |
| Degree of protection: | IP 00 |
| DIBT approval: | yes |
| PHI certification: | yes |
| Installation site: | Cellar / Storage tank / Jamb wall / Utility room / Heating room |
| System type: | Centralised |
| Housing material: | Sheet steel, powder coated |
| Heat exchanger material: | Aluminium |
| Inner coating material: | Synthetic material |
| Colour: | pearl light grey |
| Weight: | 46,5 kg |
| Weight including packaging: | 54,465 kg |
| Filter class: | G4 / F7 |
| Connection diameter: | 160 mm |
| Connection diameter of condensation drain: | 3/4" hose connection |
| Width: | 786 mm |
| Height: | 825 mm |
| Depth: | 500 mm |
| Width with packaging: | 810 mm |
| Height with packaging: | 960 mm |
| Depth with packaging: | 520 mm |
| Degree of heat provision: | 90 % |
| Heat exchanger construction type: | Cross-counterflow |
| Bypass: | External |
| 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: | 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: | 41 dB(A) / 43 dB(A) / 45 dB(A) Spacing 1m, sound absorption 10 m² |
| Approval number: | Z-51.3-216 |
| Packing unit: | 1 piece |
| Range: | K |
| GTIN (EAN): | 4012799950783 |
| Article number: | 0095.0078 |

Manufacturer: MAICO

WR 300 Centralised ventilation unit