**installation kit Duo AO-SE**

Features

Installation kit for decentralised ventilation unit with heat recovery, comprising ventilation unit with internal cover, highly-efficient enthalpy cross-counterflow heat exchanger, EC centrifugal fans in outside air and outgoing air, humidity monitoring (Duo A-SE/Duo Z-SE installation kit), air quality sensor (Duo A-SE/Duo Z-SE installation kit) and 2 x ISO Coarse 45 % (G3) filter.

For use in individual rooms or small residential units.

With the two unit variants, both simple surface mounting with ventilation of one room (Duo A-SE/Duo AO-SE installation kit) and inconspicuous flush mounting with the option of aerating or ventilating a second room (Duo Z-SE/Duo ZO-SE installation kit) are possible.

Housing made from sound-absorbing EPP with sheet metal cladding, powder-coated.

Colour: white, similar to RAL 9010.

Visually appealing housing cover.

Operating unit directly on control unit.

3 ventilation levels.

The volumetric flows do not require adjustment.

Eco mode.

Duo A-SE/Duo Z-SE: Demand-driven ventilation using humidity sensor or air quality sensor (VOC).

Whisper program for reduced noise levels.

With 2 integrated ISO Coarse 45 % (G3) filters, optional ISO ePM2,5 ≥ 50 % (M6) filter.

Filter change is possible without tools.

No condensate drain required.

Accessories needed:

Duo A-SR shell installation kit for Duo A-SE installation kit

Duo Z-SR shell installation kit for Duo Z-SE installation kit

Duo KWS E combi-wall connections (colour: coated stainless steel) or Duo KWS W (colour: white powder coated, similar to RAL 9010)

Heat exchanger

Enthalpy heat exchanger in cross-counterflow design.

High temperature and humidity transfer.

Control unit

Operating unit directly on unit.

3 manual air levels.

3 manual air levels in whisper mode.

ECO exhaust air / ECO supply air.

Duo A-SE/Duo Z-SE: Demand-driven volumetric flow setting using humidity or air quality measurements (VOC).

Activation and deactivation function.

Filter change display.

Error message.

Frost protection

Prevents the heat exchanger from freezing up at low temperatures.

Reduce the supply air volumetric flow when there is a risk of icing over.

Energy-efficient fans

EC fan technology with very small electric power consumption.

5.7 W in level 2 (30 m³/h) for the entire unit.

Mounting information

Mounting involves 5 simple steps:

Draw on the core drill holes and unit attachment points using a drilling template

Produce the core drill holes, Ø140 mm

Fetch the shell installation kit

Affix the installation kit

Affix the combination wall connection

The wall sleeves of the shell installation kit are protected from contamination by plaster protective covers.

The covers are easy to take off.

Pipes do not have to be laid for the Duo A variant.

The system requires no adjustment.

Electrical connection

When delivered, the unit is assembled and ready for service.

Cold appliance plug (Duo A-SE and AO-SE) and/or permanent wiring (Duo Z-SE and ZO-SE) are used for electrical connection.

Condensation drain

Thanks to the integrated enthalpy heat exchanger, a condensate drain is not needed.

Technical data

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| Article: | Duo AO-SE |
| Number of ventilation levels: | 3 |
| Air flow volume: | 20 m³/h / 30 m³/h / 60 m³/h with Duo A-SR shell installation kit |
| SEC average: | -32,22 kWh/(m²\*a) |
| Energy efficiency class: | B |
| Type of voltage: | Alternating current |
| Rated voltage: | 230 V |
| Frequency: | 50 Hz/60 Hz |
| Maximum power consumption: | 4,2 W / 5,7 W / 16,6 W |
| Stand-by power consumption: | 1.5 W |
| Imax: | 0,2 A |
| Degree of protection: | IP 00 |
| Electrical plug-type connection: | Terminal / plug |
| Installation site: | Outside wall |
| Type of installation: | Surface-mounted |
| System type: | Decentralised |
| Housing material: | Sheet steel, powder coated |
| Heat exchanger material: | Synthetic material |
| Inner coating material: | Plastic EPP |
| Colour: | White, similar to RAL 9010 |
| Weight: | 21 kg |
| Weight including packaging: | 22 kg |
| Type of filter: | Outside and exhaust air filter |
| Filter class: | G3 (optional M6) |
| Connection diameter: | 90 mm |
| Width with packaging: | 575 mm |
| Height with packaging: | 975 mm |
| Depth with packaging: | 310 mm |
| Airstream temperature at IMax: | -15 °C up to 60 °C |
| Ambient temperature: | 10 °C up to 40 °C |
| Max. degree of heat provision in accordance with DIN EN 13141-7 (A7): | 91,4 % |
| Heat exchanger construction type: | Enthalpy cross-counterflow |
| Permissible humidity in installation room: | 70 % |
| Antifreeze circuit: | yes |
| Filter monitoring: | with time control |
| Sound pressure level: | 30 dB(A) / 33 dB(A) / 42 dB(A) Distance 1 m, free-field conditions |
| Rated max. element normal difference in noise level Dn,w: | 43 dB measured with combination wall socket, 52 dB measured with soffit element |
| Rated sound reduction index Rw,R: | 18 dB measured with combination wall socket, 27 dB measured with soffit element |
| Packing unit: | 2 x G3 |
| Range: | K |
| GTIN (EAN): | 4012799955603 |
| Article number: | 0095.0560 |

Manufacturer: MAICO

Duo AO-SE installation kit