

TECHNICAL DATA 1000 M3E



KUBEN 1000 M3E

- * *Extremely low sound level because of the low internal pressure loss, good aerodynamic and technical developed sound insulation.*
- * *High efficiency heat recovery > 80%.*
- * *Very compact unit designed to be placed directly in the room.*
- * *Easy and quick installation.*
- * *Turnkey with built-in control. Just connect to the power supply.*
- * *Integrated control for your different needs (CO₂) and monitor and control over the internet (the cloud).*
- * *Many choices of extra equipment and accessories.*

OPTIONAL EQUIPMENT

Several different control options, eg exhaust air temperature control.

Extra heating 1 kW, water afterheating, 7,8 kW, 55/40°C.

Duct connection at the roof instead of low impulse. Type MK.

External alarm panel. A- and B-alarm

Presence detector for start or higher fan speed.

Built-in exhaust air grille above the ventilation unit.

Duct kit. Complete kit with insulated ducts, bendable pipes and components for a complete installation.

Exhaust air silencers and supply air silencers.

Units and accessories in any color.

Volume of air:

Normal speed

954 m³/h (265 l/s) 60 Pa

Forced flow

1260 m³/h (350 l/s) 60 Pa

Additional heat:

Preheating

1 kW

After heating

3 kW

Water heating

7,8 kW, 55/40°C

Electric data:

Electric preheating

400V, 3-phase 10 A

Water heating

230 V, 1-phase, 10 A

Supply air fan

EC 680 W, 230 V, 4,0 A

Exhaust air fan

EC 680 W, 230 V, 4,0 A

Heat recovery:

Counter flow heat exchanger

Recovery > 80%

Sound levels:

30 dB(A) at max 954 m³/h (60 Pa)

35 dB(A) at max 1260 m³/h (60 Pa)

Duct connection:

Spiro duct Ø 250 on extract

air and outdoor air connection

1 pc Ø160 supply air on each side of the unit.

1 pc Ø160 exhaust air on each side of the unit.

Color:

White powder coating.

Dimensions:

Unit

Height

2621 mm incl base

Width

1300 mm

Depth

837 mm incl door

Door

(removable at delivery)

Depth

78 mm

Unit

without door

Depth

760 mm

Base

Height

90 mm

STANDARD EQUIPMENT

Energy efficient EC type fans.

Counter current heat exchanger.

Thermal efficiency >80%. Completely sealed with no transference between supply air and extract air.

Filter F7/M6. Pocket filter with very good filter economy.

Additional electric afterheating or water afterheating.

Built-in electrical- and regulation central. Prepared for "the cloud".

Automatic defrosting function.

Individual stepless speed regulation. Supply air temperature regulation or exhaust air temperature regulation.

Automatic bypass function.

Several time channels with automatic summer time function.

Built-in CO₂-sensor for stepless air flow control.

Loose touch display for wall mounting.

Color graphics.

Programmable alarm list.

ADDITIONAL HEAT

Preheating battery 1 kW & afterheating battery 3 kW.

Temperature control with triac unit.

Over heating protection for the electric battery.

Supply air temperature control. Several alternative available.

Water afterheating (optional): Efficiency 7,8 kW, 55/40°C.

Temperature control with electric heat controller.

Built-in antifreeze control. PI-regulation.

DUCT CONNECTION, DIMENSIONS



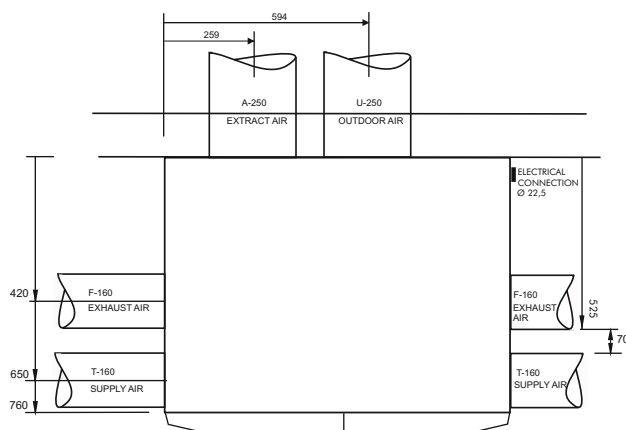
CONNECTION OPTIONS

Kuben 1000 M3E has as standard extract air- and outdoor air-connection on the back of the unit, as shown. When needed the inlet and the outlet can be moved to the roof with ducts (Ø250).

The exhaust air evacuates at the top of the unit but can also be duct connected with standard inlet on each side of the unit with dimension Ø160 (or bigger dimensions as an option).

The supply air is supplied to the room through the low impulse grille in the lower part of the unit. If required, the supply air can be distributed to other premises from the standard connections high up on each side of the unit with dimension Ø160 (or bigger dimensions as an option).

DUCT CONNECTION SEEN FROM ABOVE



ALTERNATIVE UNIT HEIGHTS

At lower ceiling heights there is an option to get the unit in lower height by ordering a lower base.

The Cube Ventilation reserves the right to freely alter technical information without prior notice.

FUNCTION

Kuben 1000 M3E is designed to almost totally soundless ventilate a bigger room, a class room, a conference room or similar.

The unit which is very energy efficient, with counter flow heat exchanger with high efficiency and EC-fans, is placed most convenient directly against the outer wall. Two holes are made in the outer wall for outdoor air and extract air.

The supply air with a slightly lower temperature is supplied in the lower part of the unit and the air "flows" across the floor and reaches far into the room.

The exhaust air is sucked in on the top of the unit but can also be connected with two ducts (Ø160). This is to be able to ventilate a toilet, a galley or similar rooms.

Also the supply air can be connected with two ducts (Ø160) in the upper part of the unit and thereby you can ventilate a smaller room nearby.

DIMENSIONS

