

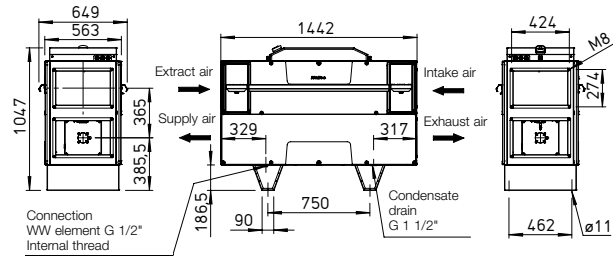
KWL EC 800 S



KWL EC 800 S with base cover (accessories)



Dimensions KWL EC 800 S



Dimensions in mm



Central units with heat recovery for compact and space-saving floor installation (floor standing).

With a wide range of residential, commercial and industrial applications.

Independently certified hygiene properties and energy efficiency according to VDI 6022 and the passive house standard. Unit construction and unit components fulfil the general hygiene requirements according to VDI 6022. Optionally available with integrated warm water heating element.

■ Casing

Double-walled, made of galvanised steel sheet, with 30 mm heat and sound insulation on all sides. Inspection openings for filter replacement fastened to both side panels with screws. Both side walls can be completely dismantled for free access to all components. The unit is suitable for floor installation (standing) indoors. Vibration dampers can be underlaid (on-site) to prevent the direct transmission of vibrations and structure-borne noise to building parts.

■ Heat exchanger

Large cross counterflow heat exchanger made of aluminium with heat recovery efficiency of up to 90 %. Dismantling possible in just a few simple steps.

■ Fans

Two low-noise high-performance EC fans with backward-curved impellers guarantee maximum energy efficiency. The special control technology enables constant volume control or constant pressure control.

■ Ducts

Installation-friendly connection of intake, exhaust, extract and supply air through pipe or duct system NW 250 mm. The floor-standing unit can be rotated 180° for installation so that intake air and exhaust air as well as extract air and supply air connections can be on the left or right sides.

■ Condensate connection

The unit contains a stainless steel condensate tray with a condensate drain below. Ball siphon included in delivery. On-site connection to drain pipe.

■ Air filter

Standard equipment: Clean intake air supply via ISO ePM₁ 55% filter (F7). The heat exchanger requires a ISO ePM₁₀ 50% filter (M5) on the extract air side. All filters are pressure-controlled and exchangeable in just a few simple steps.

■ Summer operation

Standard equipment with automatic bypass function for maximum comfort.

■ Heat exchanger anti-icing protection

An electric preheating element heats the intake air at very low outdoor temperatures. Thus, it prevents the heat exchanger from icing up and guarantees its safe functioning and optimal heat recovery during the entire heating period.

■ Power control

- The comfort control element with graphic display and user-friendly menu navigation, which is included in the delivery, enables the following functions:
- Control directly via touchscreen.
 - Freely definable operating points within the entire range of the performance curve.
 - Selection between constant volume control or constant pressure control.
 - Demand-oriented ventilation using CO₂, VOC (mixed gas) or humidity sensor.
 - Building control system via ModBus (RS 485, TCP/IP).
 - Initial commissioning (automatic determination of the system performance curve).
 - Control of external shutters.
 - Connection of a fire alarm contact.
 - Weekly or daily programme.
 - Pressure monitoring of filter contamination.
 - Indication of necessary filter replacement, operating status, error messages.
 - Different access levels.

■ Electrical connection

Easily accessible terminal box on top of the casing. The isolator/main switch can be controlled from below the unit for maintenance work and it can be locked with a padlock to prevent unauthorised access.

■ Post-heating

Type KWL EC Pro WW

The integrated warm water heating element guarantees the convenient and energy-efficient post-heating of supply air. The setpoint temperature is simply set in the control element. The hydraulic unit (Type WSH HE 24 V (0-10 V), accessories) is recommended for controlling the warm water heat exchanger.

■ Reference

The ventilation unit design according to VDI 6022 requires the use of VDI 6022-compliant air filters. The use of original replacement air filters is therefore mandatory.

■ Replacement air filter

- 1 pc. ISO ePM₁₀ 50% filter ELF-KWL 800 S/5 VDI No. 08256
- 1 pc. ISO ePM₁ 55% filter ELF-KWL 800 S/7 VDI No. 08257

■ Control lines

- ALB EC-SK 20 20m** No. 06816
 - ALB EC-SK 40 40m** No. 06817
- 8-pin AWG24 twisted pair cable for the control element.

■ Other accessories Page

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Accessory details

Ventilation grilles, ducts, fittings	
roof outlets	561 ff.
extract air elements	574 ff.

