







Central units with heat recovery for compact and spacesaving 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

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 FC fans with backward-curved impellers guarantee maximum energy efficiency. The special control technology enables constant volume control or constant pressure control.

Installation-friendly connection of intake, exhaust, extract and supply air through pipe or duct system NW 560 mm. The floorstanding 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. Onsite connection to drain pipe.

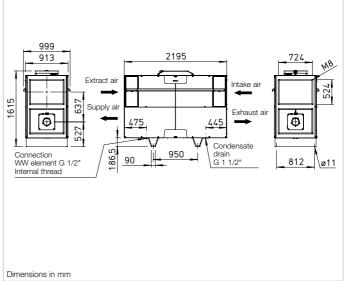
Air filter

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

Dimensions KWL EC 2600 S

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 userfriendly 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 WHSH 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

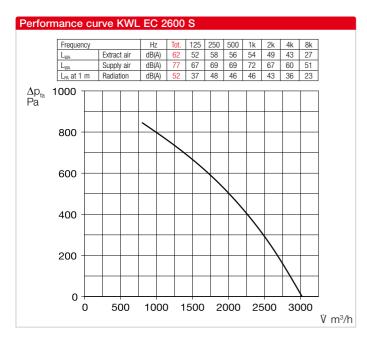
- 1 pc. ISO ePM₁₀ 50 % (M5) ELF-KWL 2600 S/5 VDI No.08308
- 1 pc. ISO ePM₁ 55% (F7) ELF-KWL 2600 S/7 VDI No.08325

■ 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
KWL peripherals	150 ff.
- Air distribution system	is 166 ff.
- Further overview	170 f.
Accessory details Ventilation grilles, ducts, fittings roof outlets	561 ff.
extract air elements	574 ff.





Included in delivery:

Surface comfort control element User-friendly control via self-explanatory graphic elements with clear text directly on the touchscreen. Control line (10 metres) included in delivery, other lengths available (ALB EC-SK, accessories). Dim. mm (WxHxD) 115x80x25



Control element with connection cable (10 m) included in the scope of delivery. Dim. mm (WxHxD) 115 x 80 x 25

Accessories for Type Pro WW Hydraulic unit

WHSH HE 24 V (0-10 V) No. 08318 Controls the water temperature of the PWW heating element using a three-way valve actuator 24 V (0-10 V) and thus the heat output transferred to the air. Delivered as a complete unit, incl. VL-/RL temperature display, circulating pump and flexible connection hoses.



Accessories for all types

Room sensor - Air quality AIR1/KWL-VOC 0-10V No. 20250 AIR1/KWL-CO2 0-10V No. 20251 AIR1/KWL-FTF 0-10V No. 20252 For measuring the CO₂, mixed gas (VOC) concentration or relative room air humidity. A maximum of one sensor can be connected. Dim. mm (W x H x D) 85 x 85 x 27

Room sensor - Temperature TFR-ALB/KWL For measuring the room temperature and controlling the ventilation unit according to the set value. Incl. 20 m control line. Maximum total of one sensor can be connected. Dim. mm (W x H x D) 80 x 80 x 25

Transition piece - Symmetrical KWL-ÜS 2600 S No. 08341 From unit flange to round duct systems.

Flexible connecting sleeve No. 01679 FM 560 For acoustic decoupling, incl. 2 pcs. hose clamps.

Duct shutter, motorised No. 02583 **RVM 560**

Prevents cold draughts when the unit is at a standstill. Automatic function through fan operation, with mounted spring return motor (outside of air flow). Installation in any position.



Base cover KWL-SB 2600 S No. 09318 Made of galvanised steel sheet.



Dimensions in mm



				L			
Technical data	KWL EC 2600 S			KWL EC 2600 S, with war	KWL EC 2600 S, with warm water post-heater		
For floor-standing installation	Type KWL EC 2600 S Pro		Ref. no. 08331	Type KWL EC 2600 S Pro WW		Ref. no. 08332	
Flow rate at level 1) Supply air/extract V m³/h approx.	3 2500	2 1800	1000	3 2500	2 1800	1000	
Noise dB(A) at 2100 m³/h and 275 Pa Supply air L _{WA} (sound power) Extract air L _{WA} (sound power) Radiation L _{PA} at 1 m	77 63 51	75 60 50	70 56 45	77 63 51	75 60 50	70 56 45	
Power consumption fans 2xW	674	393	204	674	393	204	
Standby power consumption	< 1 W			< 1 W			
Voltage/Frequency	3N~, 400 V, 50 Hz			3N∼ , 400 V, 50 Hz			
Rated current A - Ventilation	2.3 / 2.3 / 2.3			2.3 / 2.3 / 2.3			
Preheating	10.05 / 10.05 / 10.05			10.05 / 10.05 / 10.05			
– max. total	12.35 / 12.35 / 12.35			12.35 / 12.35 / 12.35			
Electric preheater kW	6.8			6.8			
Heat output/post-heating element kW	-			9.3 (at 60/40 °C) / 8.5 (at 50/40 °C) / 5.3 (at 40/30 °C)			
Summer bypass	automatic (adjustable), with heat exchanger cover			automatic (adjus	automatic (adjustable), with heat exchanger cover		
Wiring diagram no.	1370				1370		
Temperature operating range	−20 °C to +40 °C			−20 °C to +40 °C			
Installation temperature	+5 °C to + 40 °C			+5 °C to +40 °C			
Connection PWW heating element	-			IG 1/2"			
Weight approx. kg	490			500			

¹⁾ Values based on operating ranges defined according to PHI (Passive House Institute).