KWL 360 W



Dimensions KWL 360 W







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Compact unit with heat recovery for

X the central supply IFIED ONENT and extract ventilation of residential buildings and apartments. Perfectly prepared for modern communication and operation with the new Helios easyControls 3.0 control system incl. integrated network connection.

Equipped with EC fans for low energy consumption and highly efficient plastic or enthalpy heat exchangers for additional moisture recovery.

Casing

Universal casing concept: Intake air and exhaust air side left/right, with integrated sound insulation. Made of galvanised sheet steel with sound and heat insulation, powder-coated in white. The intake air and exhaust air connection can be on the left or right side. Maintenance-friendly access to all unit components through removable front panel. Delivery condition: Intake air and exhaust air side on the right.

Heat exchanger

- Large cross counterflow heat exchanger made of plastic, heat recovery efficiency up to 90 %.
- □ Type "ET" is equipped with highly efficient enthalpy heat exchanger for additional moisture recovery.

Fans

Two low-noise high-performance centrifugal fans with energy-saving EC motors ensure the air supply and extraction.

Ducts

Installation-friendly connection of intake, exhaust, extract and supply air through ducts with NW 160 mm using duct connectors (RVBD 160 K, accessories).

Controls 3.0

EC

Condensate connection Condensate drain at the bottom: ball siphon included in delivery.

On-site connection to drain pipe.

Air filter

Clean outdoor air supply via ISO Coarse 65% (G4) filter and 2nd filter stage via optional ISO ePM₁ 50% (F7) or activated carbon filter. Extract air side equipped with an ISO Coarse 65% (G4) filter in front of the heat exchanger. Easy filter maintenance without opening the unit.

Summer operation

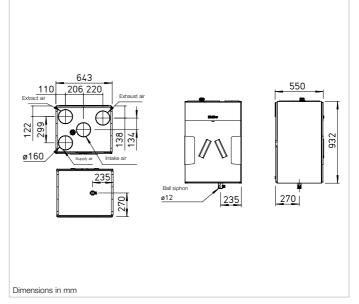
Equipped with automatic bypass function and heat exchanger cover as standard.

Heat exchanger anti-icing protection

The standard frost monitoring system automatically controls the supply air flow volume and the optionally installed electrical preheater (KWL-EVH 360/470 W, accessories).

Control system

EasyControls 3.0 is the new, modern control system for all KWL compact units from Helios. The standard LAN interface allows the simple integration of the KWL unit in a network and the integration in Helios Cloud. The unit is optionally controlled via an external control element, on PC/laptop, tablet and Smartphone via the integrated web browser or on the move via the Cloud. See page 104 for func-



tionality. Helios easyControls 3.0 is prepared for:

- □ The control elements KWL-BE ECO and KWL-BE Touch (optional accessories)
- The humidity sensor integrated as standard and other optionally available external air quality sensors (KWL-CO2, -FTF, -VOC, accessories) enable automatic, demand-controlled ventilation.
- Connection to building control system via integrated Modbus interface or optional KNX module (KWL-KNX Connect, accessories).

Electrical connection

Fixed connection via a mains connection cable 3 x 1.5 mm², approx. 2 m with wire end ferrules.

Accessories – Functional description (see right for details

KWL 360 W can be individually expanded with the following accessories

Control element ECO

- Three ventilation profiles selectable via slide switch.
- Control voltage can be measured directly on the control element
- Weekly timer (WSUP / WSUP-S, no. 09990 / 09577, accessories) can also be added to implement a further operating level, e.g. night mode.
- LED for visual indication of operating statuses, e.g. filter replacement and faults.

Control element Touch

Touch control element with graphic display and user-friendly menu navigation:

- Commissioning assistant.
- Selection of four ventilation profiles

- Adjustment of an individual weekly programme.
- Adjustment of parameters for room sensors.
- Indication of e.g. filter replacement, operating statuses and error messages.
- Different access authorisations and child lock.
- Other functions (see operating instructions).

C KNX/EIB module

For connecting the ventilation unit to the building control system via the KNX Connect module.

Room sensors

Room sensors, which measure the mixed gas, CO2 concentration or relative room air humidity, are available for automatic operation and optimal air exchange.

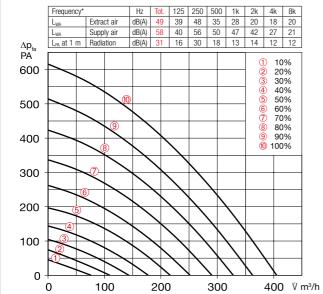
Post-heating

Helios easyControls 3.0 can be used with an electric post-heating element (EHR with KWL-LTK, accessories). The autonomous operation of the warm water heating element can be controlled via an air temperature control (WHS HE, accessories) independently from Helios easy-Controls 3.0.

References	Page
Helios easyControls 3.0	
The innovative KWL control concept	104 f.
control contropt	1041.
Moisture recovery	
through enthalpy heat	
exchangers	103



Performance curves KWL 360 W



*Sound information relate to Vref. according to ERP data sheet.

Slide switch control elementKWL BE ECORef. no. 20246Three-step slide switch including
operation indicator, for flush-moun-
ted installation. Function see left.Dim. mm (W x H x D) 80 x 80 x 37Casing for surface installation
KWL APGRef. no. 04270Dim. mm (W x H x D) 83 x 83 x 41

Touch control element KWL BE Touch bl

(black) Ref. no. 20244 KWL BE Touch wh

(white)Ref. no. 20245With graphic display, for flush-
mounted installation. Function see
left. Connection of up to 6 pcs.
possible (additional power supply
unit may be required). Can be in-
tegrated in common switch ranges
with the dimensions mm (W x H x D)
 $55 \times 55 \times 35$, Dim. with frame mm
(W x H x D) 88 x 88 x 35

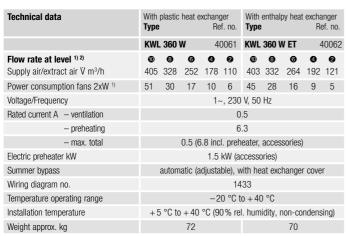
Casing for surface installationKWL APG Touch blNo. 40178KWL APG Touch whNo. 40177Dim mm (W x H x D) 85 x 85 x 25

Control line cable

 KWL-SL eC 5m
 Ref. no. 40179

 KWL-SL eC 10m
 Ref. no. 40180

Control line cables in 5 or 10 meters, suitable for KWL-BE ECO / Touch as well as room sensor.



1) At 0 Pa, performance levels adjustable. 2) Volume reduction by approx. 10% when using pollen filter.

KNX/EIB module

KWL-KNX Connect No. 20253 For integrating the ventilation unit in a KNX system. For switch cabinet installation (1 space unit required).

Room sensors

KWL-CO2 eCRef. no. 20248KWL-FTF eCRef. no. 20249KWL-VOC eCRef. no. 20247For measuring the CO2, mixed gas(VOC) concentration or relativeroom air humidity. Please note themaximum number of sensors,additional power supply unit maybe required.Dim. mm (W x H x D) 98 x 98 x 33

Electric preheater

KWL-EVH 360/470 W No. 07360 Electrical preheater for simple, plugin unit installation. For preheating the intake air at very low outdoor temperatures (heat exchanger anti-icing protection). Mandatory for passive houses. Output: 1500 W.

Extension module

KWL-EM eC Ref. no. 40155 For controlling external post-heating elements.

Dim. mm (WxHxD) 210x210x100

Motion detector

BWM Ref. no. 08323 Motion detector for detecting the presence of persons in the room. Surface-mounted wall installation (cable entry at top or bottom) or installation in flush-mounted box Ø 55 mm (cable entry at back).

Electric post-heating element

For additional supply air heating. EHR-R 2.4/160 Ref. no. 09435 Rectangular duct temp. sensor KWL-LTK eC (1 pc. req.) No. 40156

Warm water post-heating element

For additional supply air heating. WHR 160 Ref. no. 09481 Rectangular duct temp. sensor KWL-LTK eC (2 pc. req.) No. 40156 Hydraulic unit

WHSH HE 24 V (0-10 V)No. 08318 Alternative:

Air temperature control WHST 300 T38 Ref. no. 08817

Replacement air filters

- 2 pcs. ISO Coarse 65 % (G4)

ELF-KWL 360/470/7 No. 07375

- 1 pc. Activated carbon filter

ELF-KWL 360/470 AK No. 08129

ELF-KWL 360/470/4/4 No. 073

- 1 pc. ISO ePM₁ 50% (F7)









Circular duct connector Connector with seal for unit connection to circular duct system with Ø 160 mm. RVBD 160 K No. 03415

Reference

Enthalpy heat exchanger (accessories) for retrofitting: KWL-ET 360/470 No. 07354

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