KWL® EcoVent Verso

Comfortable climate thanks to **decentralised ventilation with heat recovery.**

NOW AVAILABLE IN DN 160 mm

Helios

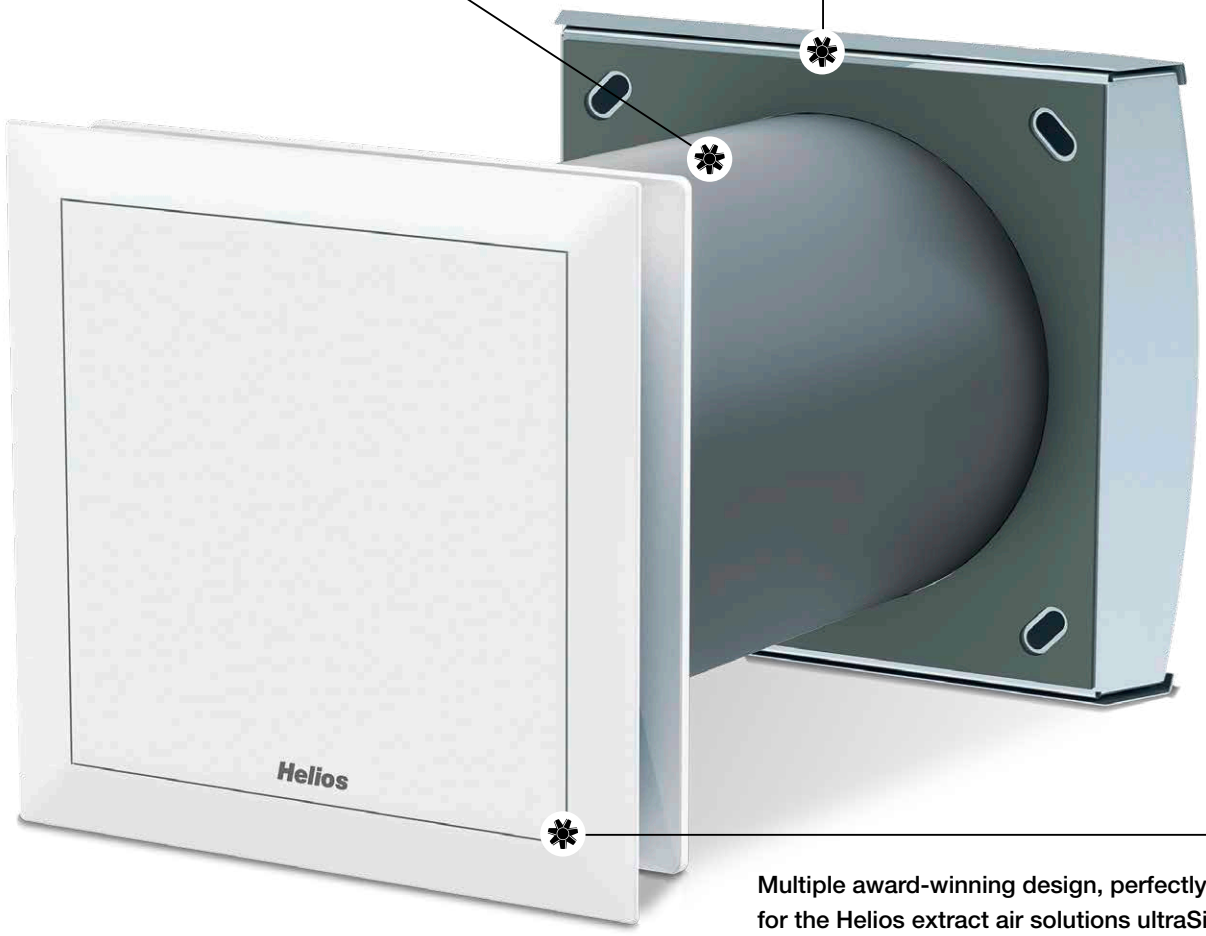
KWL®

EcoVent Verso.

Compact dimensions for external wall installation with minimum space requirements.

NEW

NOW available in DN 160 mm.



Multiple award-winning design, perfectly suitable for the Helios extract air solutions ultraSilence® ELS and MiniVent® M1.

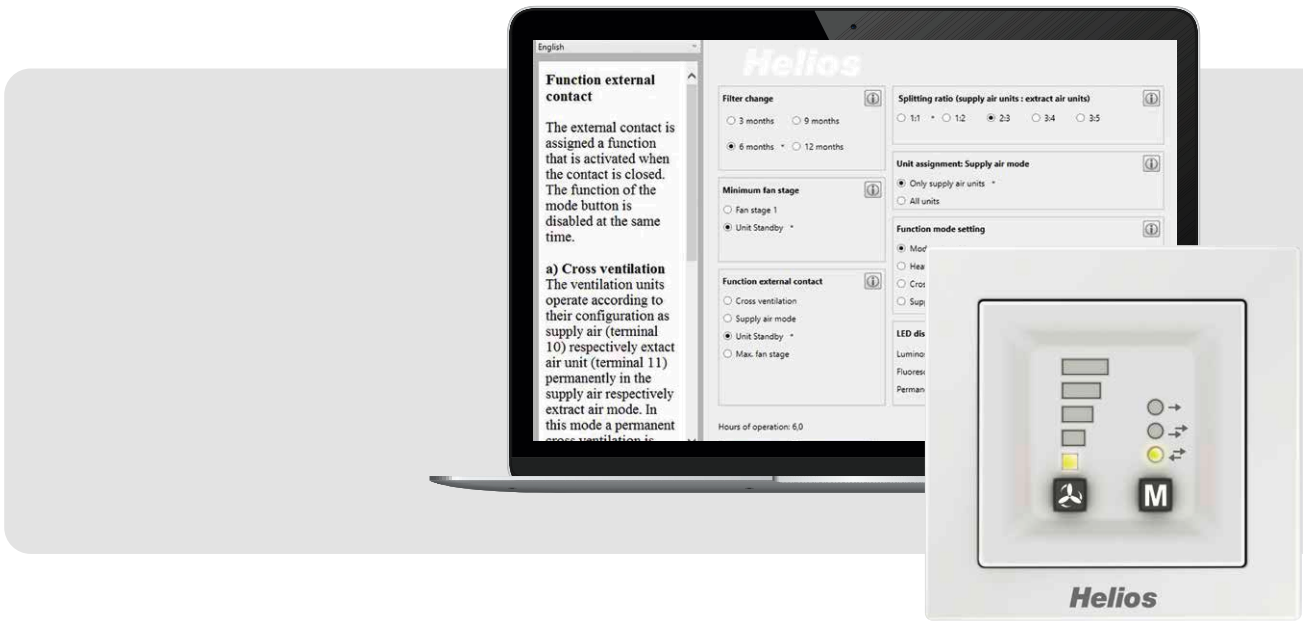
A+

KWL® EcoVent Verso provides energy efficiency class A+ with additional room sensor.

Lean back.
Take a deep breath.

Building envelopes in new and renovated buildings are becoming more and more tight due to increased energy requirements. The result: Natural air exchange can no longer take place in the rooms and the humid and used air is not discharged to the outside. In order to prevent moisture damage to the building structure (e.g. mould), the necessary air exchange must be continuous and user-independent.
Balanced domestic ventilation with heat recovery (KWL®) fully ensures ventilation pursuant to DIN 1946-6 and thus guarantees that not only the indoor environment, but also the energy balance sheet benefit from the ventilation technology measures. In this respect, a decentralised ventilation system with heat recovery offers major advantages, especially in renovation, as it is an economical and simple solution for single rooms. Several of the points described in the following sections should be considered within the framework of the planning for the optimal operation of the ventilation system.

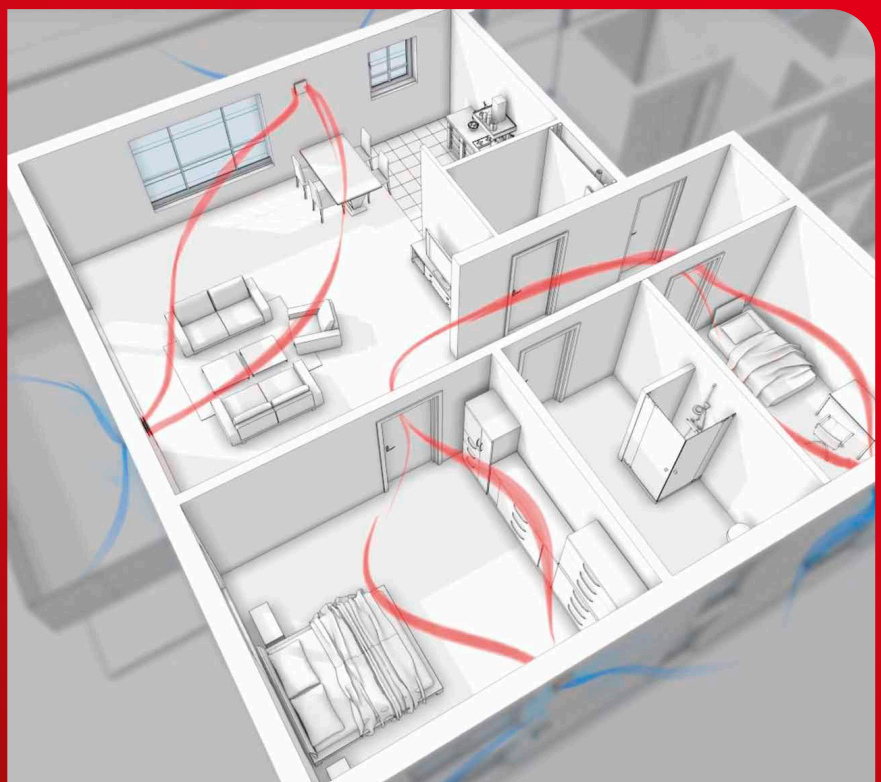
The ventilation solution for single rooms: EcoVent Verso from Helios.
With regard to decentralised ventilation, the focus is on two main points: On the one hand, high efficiency is a prerequisite for the economical operation of the units and, on the other hand, the individual ventilation units must form a complete system in perfect coordination with each other. The Helios EcoVent Verso unit is among the best in its class in both categories. Thanks to the preconfigured order sets and the quick and simple installation, the EcoVent Verso provides an economical solution for the ventilation of single rooms. The perfect combination of ceramic heat accumulator, flow straighteners and EC fan make the EcoVent Verso exceptionally efficient and quiet. A minimum of two alternating units form a functioning ventilation system, whereby multiple EcoVent Verso units are installed depending on the air requirement of the residential unit. The intelligent control unit enables the optimal adjustment of individual volume flows – even with an odd number of devices. Furthermore, it is possible for the first time to implement combi-ventilation in combination with extract air solutions, such as **Helios ultraSilence® ELS or MiniVent® M1**.
Commissioning is also especially simple: **Thanks to the clever software, the settings can be configured directly via a PC or laptop – quick and uncomplicated.** Thus, there is only one thing for the residents to do: Relax, lean back and take a deep breath!



An efficient ventilation system – **in a flash.**

▶ PLAY NOW

Visit our Youtube-Channel to discover all solutions that EcoVent Verso offers you.



Helios KWL® EcoVent Verso – Perfection, in a flash.

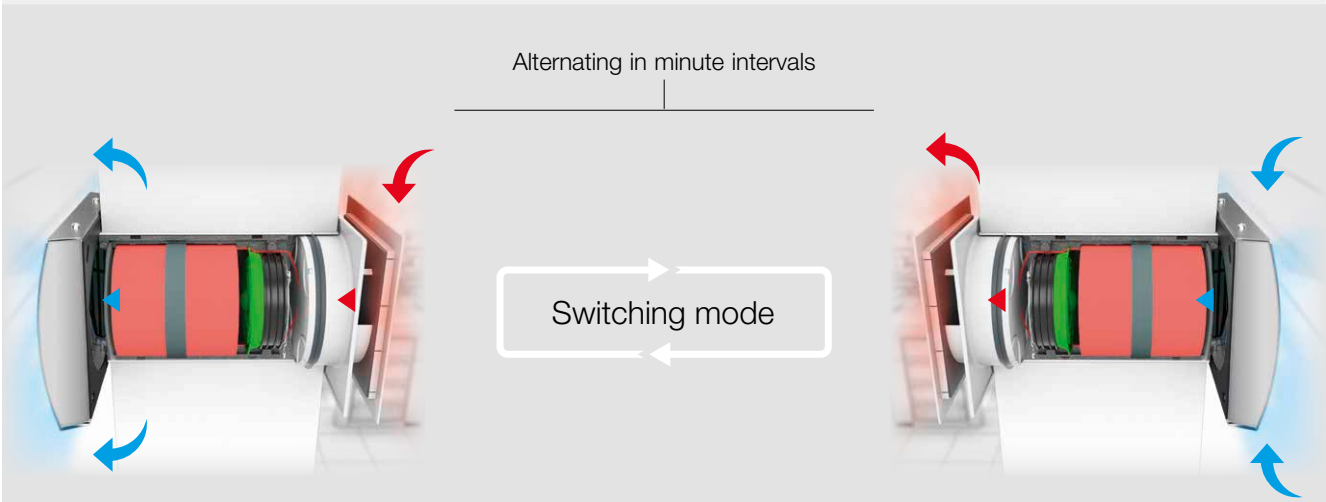
The EcoVent Verso opens up completely new possibilities for the economical ventilation of single rooms. The EcoVent Verso is particularly useful if there is limited space available due to its compact dimensions, whether it is used in new construction or renovation, for single-family houses or apartment buildings.

The heat recovery is regenerative with the help of a ceramic heat accumulator. During extract air operation, this absorbs and stores the heat from the indoor air in a ceramic accumulator, so that the heat can be transferred to the incoming outside air during the subsequent supply air phase. The ceramic accumulator is particularly dirt-repellent due to the smooth surface and it ensures constant hygienic operation in connection with the protection grille and the integrated filter. For the sake of balanced ventilation, one functional unit consists of a minimum of two units, which operate in their operating modes (supply air/extract air) in alternating phases. Furthermore, the total number of ventilation units depends on the air requirement of the apartment. In this respect, the volume flows of the individual units are perfectly coordinated with each other by means of the central control unit.

Your benefits:

- Compact dimensions for external wall installation with minimum space requirements.
- Economical EC fans for maximum energy efficiency.
- Heat recovery efficiency of up to 88 %.
- Convenient control, can be connected to extract air systems for combined ventilation.
- Simple commissioning by connecting the controller to the PC or laptop.
- Multiple award-winning design, perfectly suitable for the Helios extract air solutions ultraSilence® ELS and MiniVent® M1.

- **A minimum of two units form a ventilation unit (with heat recovery).**



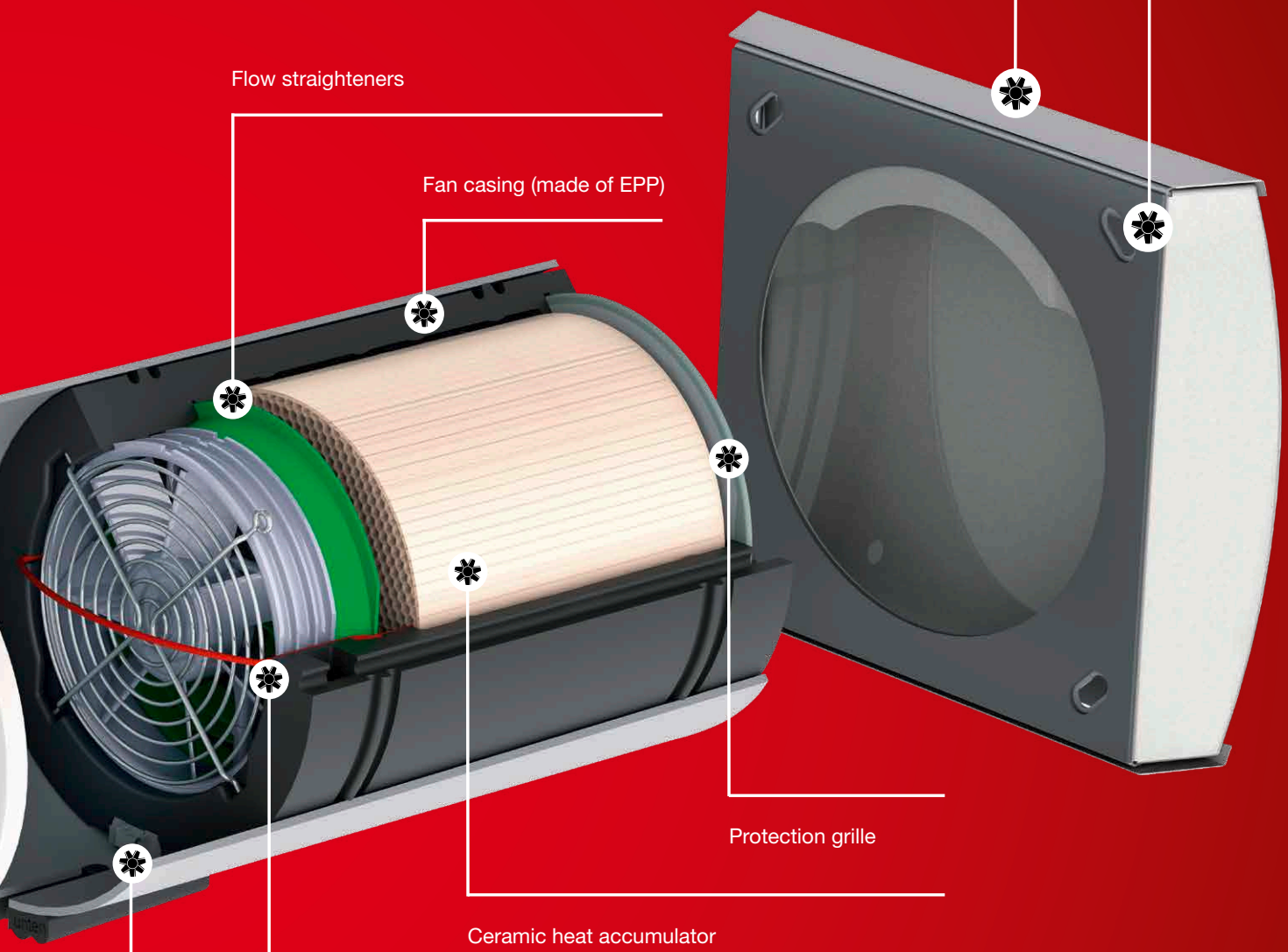
Extract air
During the extract air phase, the ceramic accumulator absorbs and stores the heat from the room air (storage charging).

Supply air
During the supply air phase, the fresh outside air absorbs the heat from the ceramic accumulator and this pre-heated air flows into the room.

Best features.
Award-winning design.

Your benefits:

- Economical and quiet EC axial fan.
- Elegant and timeless design.
- Ventilation-optimised internal panel.
- Easy, tool-free installation.
- Highly efficient flow straighteners for high heat recovery and quiet operation.
- Integrated sound insulation.
- ISO Coarse 50 % air filter, easily accessible and can be exchanged without tools.


Sealing
Stainless steel external panel
Flow straighteners
Fan casing (made of EPP)
Protection grille
Ceramic heat accumulator
Protection grille with fan unit
Wall installation sleeve

Control and configuration.
Clever und easy.

Clear display of the ventilation stages and operating mode via the LED display.

Filter change display
The end of the filter change interval is indicated by a flash code.

NEW:

- **Password protection**
- **Sleep mode**
- **Party mode**
- **Extract air mode**

Button Operating mode for:

- **Supply- or exhaust air mode**
- **Cross-ventilation mode (non-reversing mode)**
- **Reversing mode with heat recovery**

+

M 2 sec. **Sleep mode**
Sleep mode deactivates the unit for a pre-defined period (15 – 180 min.).

Button ventilation stages:

Five stages + OFF

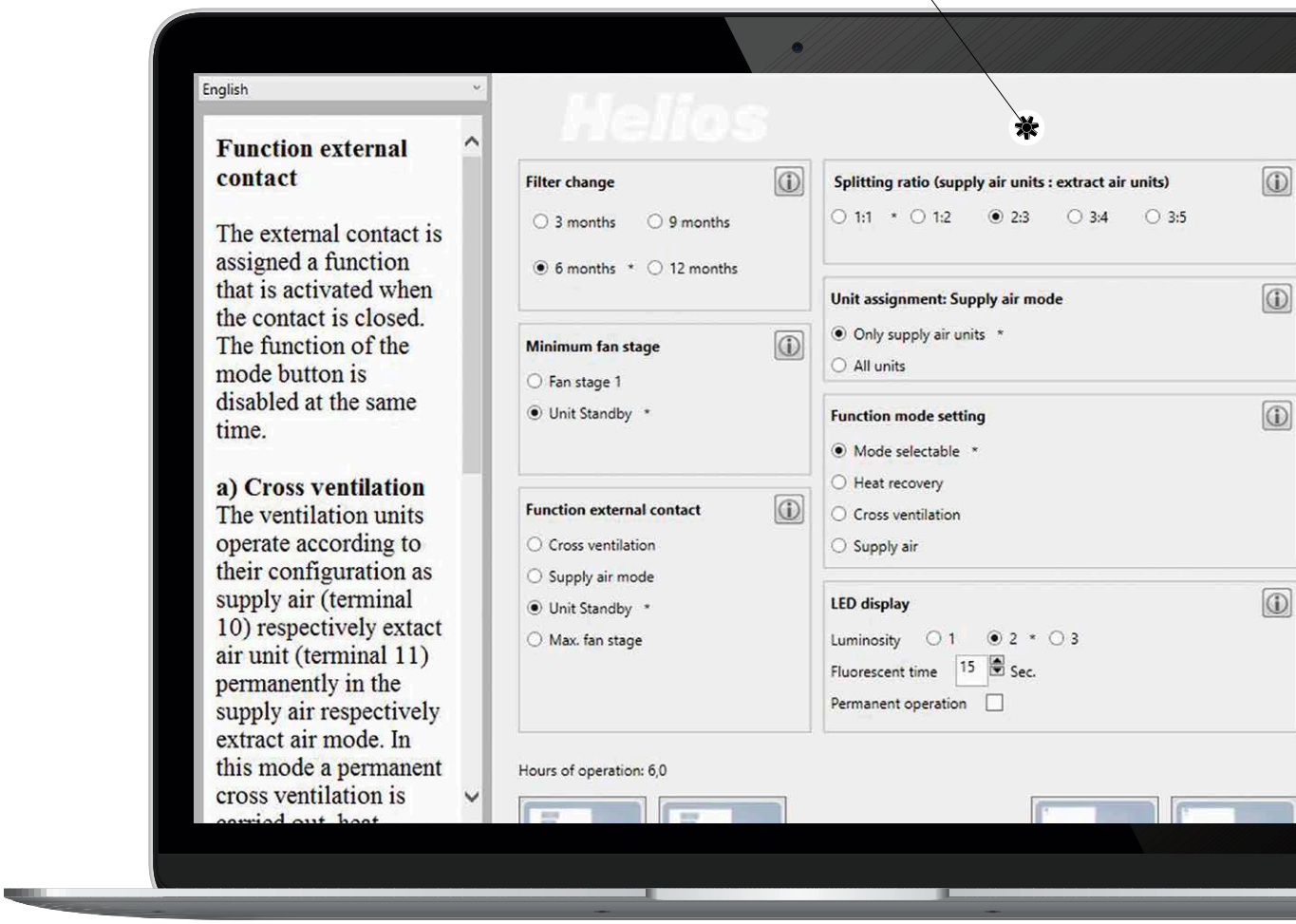
+

2 sec. **Pulse ventilation / Party mode**
This mode allows ventilation in stage 5 for a pre-defined period (15 – 180 min.).

Your benefits:

- EcoVent Verso is controlled intuitively via the LED controller.
- Can be used to control up to eight units at the same time.
- The buttons are used to select the five ventilation stages.
- Easy, tool-free installation.
- External contact:
  Activation of pre-set functions (e.g. supply air mode) via button or extension module.

Uneven numbers of units per utilisation unit are also possible with Helios EcoVent Verso.



Thanks to the software “HELIOS EcoVent Verso”, the controlled can be connected to a PC or laptop via the USB port. As an alternative to configuring the unit using the two buttons on the controller, the control unit can be accessed easily and conveniently in this way.

Thus, the commissioning and the entry of necessary values (e.g. filter change intervals or minimum ventilation stage) can be completed in a short space of time. All possible setting options can be changed quickly using the user interface and user-friendly support is provided with the corresponding help texts. The set configuration can be saved directly on the PC or laptop and re-programmed into the control unit if required. The installation cost in a larger property is thereby reduced to a minimum. If lots of the same ventilation systems are used, the configuration is just set once for a residential unit and can then be transferred to several controllers or apartments as required.


Aufteilungsverhältnis (Anzahl Zuluftgeräte:Abluftgeräte)
1:1 * 1:2 2:3 3:4 3:5
Gerätezuordnung - Zuluftbetrieb
Nur Zuluft-Geräte (Klemme 7) *
Alle Geräte
Funktion Betriebsarteinstellung
Betriebsart beliebig *
Wärmerückgewinnung aktiv
Querlüftung aktiv
Zuluft aktiv
Mindestlüfterstufe
Lüfterstufe 1
Gerät standby *
LED-Anzeige
Leuchtstärke: 1 2 3
Leuchtdauer: 15 Sec.
Dauerbetrieb
Funktion Externer Kontakt
Querlüftung
Zuluftbetrieb
Gerät Standby *
Max. Lüfterstufe
9 Monate
12 Monate
Werkseinstellung
Beenden

Ideally planned.
DIN or COMBI.

Ventilation solution DIN:

Decentralised single room ventilation systems are also subject to the requirements of DIN 1946-6. The updated standard provides more clarity as to which ventilation concepts are feasible and how they should be planned. With regard to Ventilation solution DIN, it is assumed that the entire facility has a decentralised ventilation system with heat recovery. The volume flow must therefore be designed on the basis of nominal ventilation for the entire facility.

This means that in addition to the supply air rooms, the extract air volume flows required in the extract air rooms must also be ensured. Two EcoVent Verso ensure the necessary air exchange in wet rooms (kitchen, bathroom, WC). Individual comfort is ensured with intelligent regulation and control options. In this way, you can achieve the best energy efficiency values with the DIN ventilation solution.

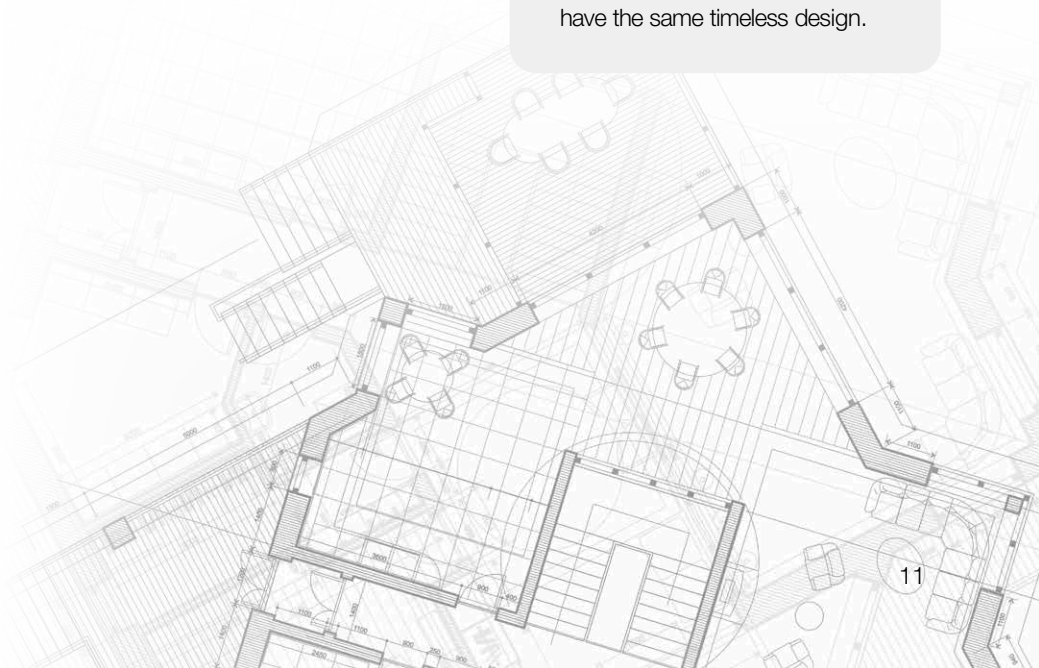
At a glance:
- DIN-compliant design according to nominal volume flow pursuant to DIN 1946-6.
- Ventilation with heat recovery in all rooms in the residential unit.
- Optimal ventilation and energy efficiency of single room ventilation systems.
- Individual regulation of single rooms is possible.

Ventilation solution COMBI:

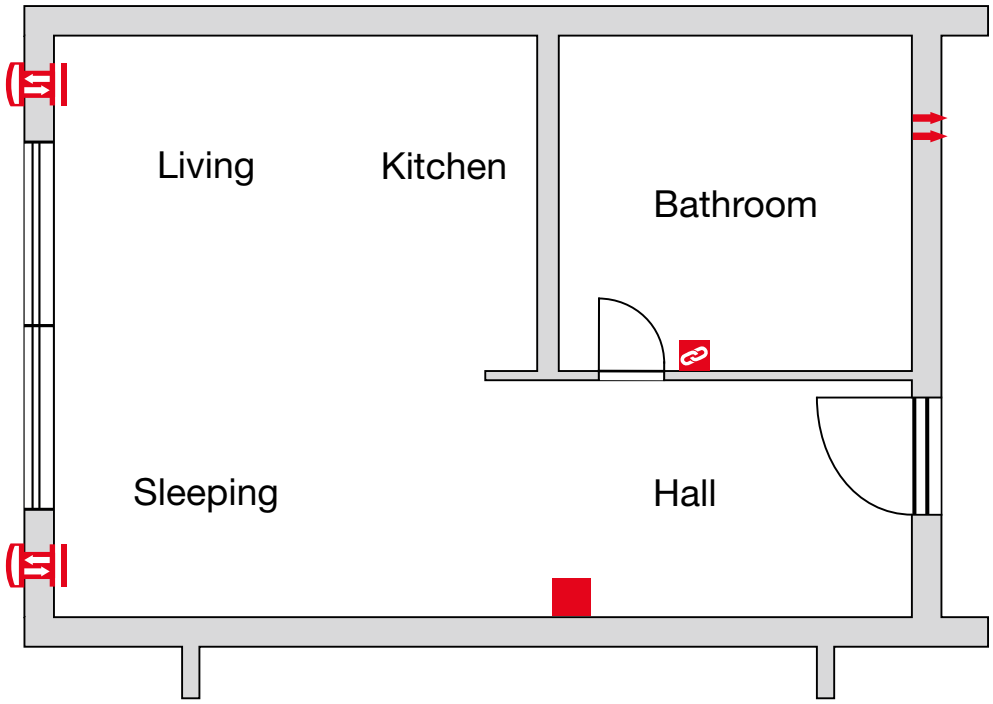
With regard to Combined ventilation, the EC 45 units are replaced by extract air fans in extract air rooms. In practice, this solution is frequently used for facilities with internal bathrooms.
The extract air system is normally implemented as a demand-based system. The KWL EC 45-160 units still ensure the ventilation with heat recovery in the supply air rooms. If an extract air fan is activated, the KWL EC 45-160 units circulate the air flow without heat recovery. If the extract air fan switches off again, the units will switch back to heat recovery mode. The extension module KWL 45 EM ensures the coupling of the system.

At a glance:
- Coupling with a Helios extract air system (ultraSilence® ELS or MiniVent® M1).
- Ventilation of internal rooms/bathrooms according to DIN 18017-3.
- Combination through extension module KWL 45 EM.
- Internal panels for KWL EC 45-160, MiniVent® M1 and ultraSilence® ELS have the same timeless design.

Quick and easy dimensioning with:
www.KWLeasyPlan.de



System example:
1 room apartment.



Key:

Unit
KWL EC 45-160

Control set
KWL 45 STS-UP

Extract air fan
ELS EC / MiniVent M1

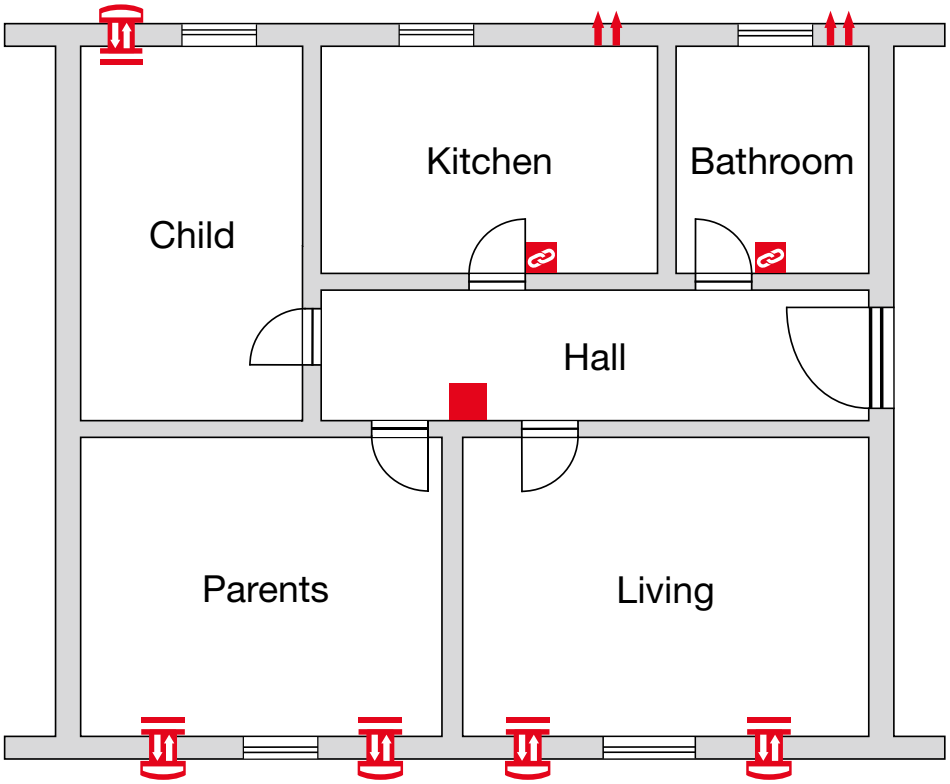
Extension module
KWL 45 EM

Bill of quantities system example 1 room apartment:

Ref. no.	Type	Description	Solution: COMBI 1 [1]	Solution: COMBI 2 [2]
		Living- and bedroom:		
09361	KWL EC 45-160	Unit	2 pcs.	2 pcs.
09319	KWL 45-160 WH	Wall installation sleeve	2 pcs.	2 pcs.
09321	KWL 45-160 FB-E	Facade panel	2 pcs.	2 pcs.
03006	KWL 45 STS-UP	Control set	1 pc.	1 pc.
03012	KWL 45 EM	Extension module	1 pc.	2 pcs.
		Kitchen:		
06408	ELS EC 60 F	Extract air fan	–	1 pc.
08111	ELS-GU	Flush casing for ELS-V 60	–	1 pc.
		Bathroom:		
06408	ELS EC 60 F	Extract air fan	1 pc.	1 pc.
08111	ELS-GU	Flush casing for ELS-V 60	1 pc.	1 pc.

[1] Combined ventilation example 1: Extract air in bathroom. [2] Combined ventilation example 2: Extract air in kitchen and bathroom.

System example:
3 room apartment.



Key:

Unit
KWL EC 45-160

Control set
KWL 45 STS-UP

Extract air fan
ELS EC / MiniVent M1

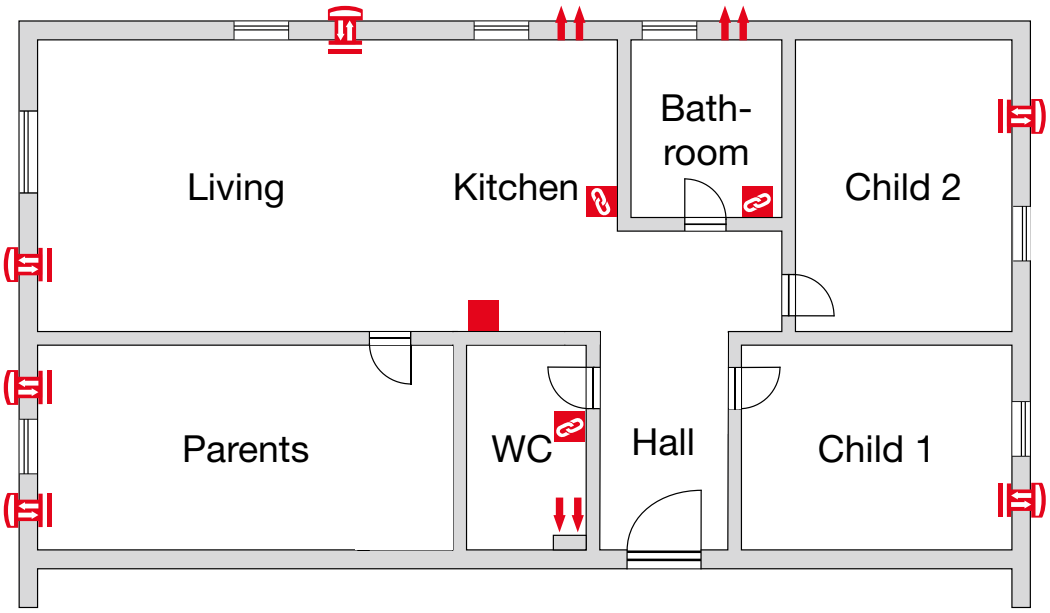
Extension module
KWL 45 EM

Bill of quantities system example 3 room apartment:

Ref. no.	Type	Description	Solution: COMBI	Solution: DIN*
		Living-, bed- and children's room:		
09361	KWL EC 45-160	Unit	5 pcs.	5 pcs.
09319	KWL 45-160 WH	Wall installation sleeve	5 pcs.	5 pcs.
09321	KWL 45-160 FB-E	Facade panel	5 pcs.	5 pcs.
03006	KWL 45 STS-UP	Control set	1 pc.	1 pc.
03012	KWL 45 EM	Extension module	2 pcs.	–
		Kitchen:		
09361	KWL EC 45-160	Unit	–	2 pcs.
09319	KWL 45-160 WH	Wall installation sleeve	–	2 pcs.
09321	KWL 45-160 FB-E	Facade panel	–	2 pcs.
03006	KWL 45 STS-UP	Control set	–	1 pc.
06175	M1 / 100 F	Extract air fan	1 pc.	–
00717	WES 100	Wall mounting kit for M1	1 pc.	–
		Bathroom:		
09361	KWL EC 45-160	Unit	–	2 pcs.
09319	KWL 45-160 WH	Wall installation sleeve	–	2 pcs.
09321	KWL 45-160 FB-E	Facade panel	–	2 pcs.
03006	KWL 45 STS-UP	Control set	–	1 pc.
06175	M1 / 100 F	Extract air fan	1 pc.	–
00717	WES 100	Wall mounting kit for M1	1 pc.	–

* The flow rate specifications are based on the nominal ventilation (DIN 1946-6) for the DIN variants.

System example:
4 room apartment.



Key:

Unit
KWL EC 45-160

Control set
KWL 45 STS-UP

Extract air fan
ELS EC / MiniVent M1

Extension module
KWL 45 EM

Bill of quantities system example 4 room apartment:

Ref. no.	Type	Description	Solution: COMBI	Solution: DIN[1)]
		Living-, bed- and children's room:		
09361	KWL EC 45-160	Unit	6 pcs.	6 pcs.
09319	KWL 45-160 WH	Wall installation sleeve	6 pcs.	6 pcs.
09321	KWL 45-160 FB-E	Facade panel	6 pcs.	6 pcs.
03006	KWL 45 STS-UP	Control set	1 pc.	1 pc.
03008	KWL 45 SNU	Switching power supply (flush)	1 pc.	1 pc.
03012	KWL 45 EM	Extension module	3 pcs.	–
		Kitchen:		
09361	KWL EC 45-160	Unit	–	2 pcs.
09319	KWL 45-160 WH	Wall installation sleeve	–	2 pcs.
09321	KWL 45-160 FB-E	Facade panel	–	2 pcs.
03006	KWL 45 STS-UP	Control set	–	1 pc.
06175	M1 / 100 F	Extract air fan	1 pc.	–
00717	WES 100	Wall mounting kit for M1	1 pc.	–
		Bathroom:		
09361	KWL EC 45-160	Unit	–	2 pcs.
09319	KWL 45-160 WH	Wall installation sleeve	–	2 pcs.
09321	KWL 45-160 FB-E	Facade panel	–	2 pcs.
03006	KWL 45 STS-UP	Control set	–	1 pc.
06175	M1 / 100 F	Extract air fan	1 pc.	–
00717	WES 100	Wall mounting kit for M1	1 pc.	–
		WC:		
09361	KWL EC 45-160	Unit	–	2 pcs.
09319	KWL 45-160 WH	Wall installation sleeve	–	2 pcs.
09321	KWL 45-160 FB-E	Facade panel	–	2 pcs.
03006	KWL 45 STS-UP	Control set	–	1 pc.
08131	ELS EC 60 NC	Extract air fan	1 pc.	–
08111	ELS-GU	Flush casing for ELS-V 60	1 pc.	–

[1)] The flow rate specifications are based on the nominal ventilation (DIN 1946-6) for the DIN variants

Premium-class extract air fans.
MiniVent® M1 and ultraSilence® ELS.

For the first time, the operation of an extract air system (Helios ultraSilence® ELS or MiniVent® M1) can be intelligently combined with the EcoVent Verso thanks to combined ventilation. The extension module KWL 45 EM allows the combination of the two systems.

MiniVent® M1

The small room fans MiniVent® M1 are known for the highest pressure performance, lowest noise levels and maximum energy efficiency. Two performance levels, jet water protection IP X5 and high-quality long-life ball bearings are standard equipment features with clear added value. Equipped with Helios ultraSilence® technology, MiniVent® operates almost silently and consumes around a third less energy than conventional small room fans.

The minimalist premium design stands out in any room with understated elegance. MiniVent® M1 is available with turn-off delay mode and interval mode or barrier-free automatic functions, such as the presence detector or humidity control function. This responds to the rate of humidity increase with intelligent electronics and effectively prevents mould formation.

ultraSilence® ELS

The wonderfully quiet ELS mono tube ventilation systems are controlled as required and they extract stale air from kitchens, bathrooms and WCs via a central main pipeline to which more than 20 floors or more than 40 individual units can be connected. ELS is thus optimally protected against humidity: Installation in wet room zone 1 according to DIN VDE 0100-701 is possible without difficulty. In addition to standard ELS types and ELS with (adjustable) turn-off delay, the variants with motion sensor and automatic humidity control offer maximum comfort and completely barrier-free, automatic operation. From simple installation and maintenance and intelligent electronics through to the various test marks and approvals – Helios ELS meets all practical requirements and every request for comfort and maximum performance.

Further information on the individual types:
www.HeliosSelect.de

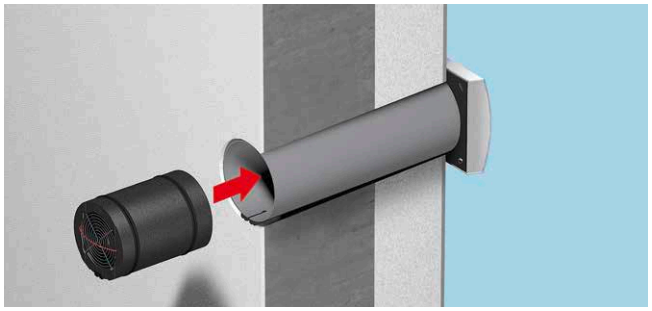
Mounted, in a flash.
Installation in the facade.

Depending on the fan unit, wall openings must be created, e.g. by means of core drilling, and the electrical wiring must be prepared for the installation of the EcoVent Verso. The fan unit can then be installed quickly and easily in three steps:

Step 1

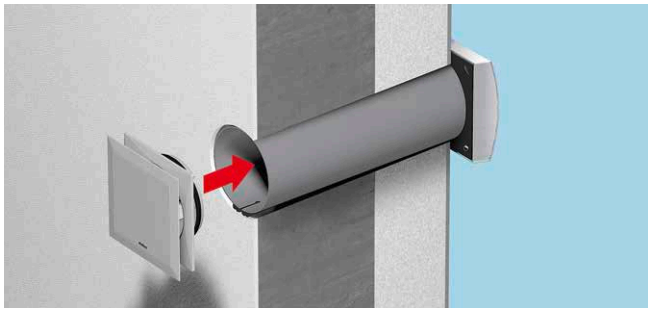
Install wall sleeve and external panel.
Once the wall installation sleeve has been fixed in the core hole, the external panel can be mounted to the finished facade.

Step 2



Insert unit and connect it electrically.
Once the construction or renovation measures are complete, the unit can be inserted in the wall sleeve and connected electrically. The fan unit is integrated in EPP half shells, which ensure the thermal insulation of the external wall.

Step 3

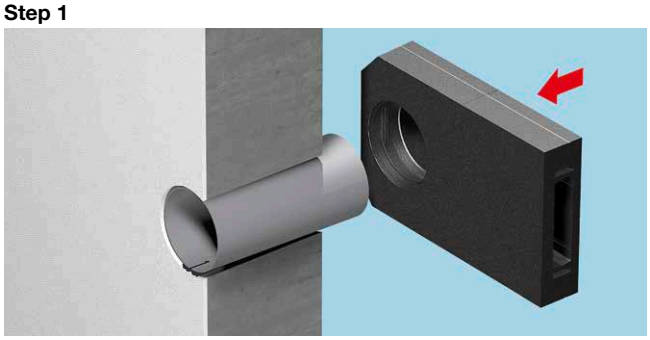


Attach internal panel. Finished.
Once the fan unit has been installed, the internal panel with integrated filter can be attached. This can be performed effortlessly without any tools using the practical connector.

Invisible, in a flash.
Installation in the window soffit.

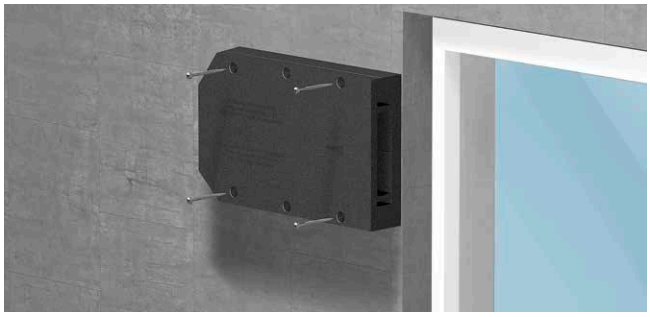
The air inside a thermal insulation system is directed 90° in the window soffit with the newly developed soffit element made from highly insulating EPP. Apart from the grille, no parts are visible on the external facade.

Step 1



Install wall sleeve and soffit channel.
Once the wall installation sleeve has been fixed in the core hole, the soffit channel can be installed on the outside.

Step 2



Attach soffit channel.
The soffit channel can be installed flexibly on the right or left, without conversion or additional costs. Furthermore, the EPP element can be shortened as required using a saw or hot wire. The soffit channel is attached to the wall sleeve and mounted to the facade with the provided stainless steel screws.

Step 3

Integrate soffit channel in the facade insulation.
The integrated condensate drain allows horizontal mounting. This saves time and simplifies the adjustment of the surrounding insulation boards. Thermal bridges are avoided.
The element must always be overinsulated. It is not suitable for insulation thicknesses ≤10 cm and must not be installed in this case.

Step 4

Plaster facade and mount wall grille.
Once the wall has been plastered, the protruding plaster frame can be removed and the wall grille can be screwed on. Once the construction or renovation measures are complete, the unit can be inserted and connected electrically. The internal panel can then be attached.

Your order. **Just-in-time.**

Step I: Construction phase

Installation in the facade

Wall installation sleeve

Wall installation sleeve Length 500 mm

KWL 45-160 WH	Ref. no. 09319

Diameter 160 mm made of plastic (length 500 mm). Includes 2 plaster covers for inside and outside, for protection against contamination in the installation phase. EPP wedge for attaching the wall sleeve with gradient for safe condensate drainage.

Wall installation sleeve Length 800 mm

KWL 45-160 WH-L	Ref. no. 09320

Facade panel (stainless)

Facade panel

KWL 45-160 FB-E	Ref. no. 09321

Stainless steel panel for external wall.

Facade panel with coating

KWL 45-160 FB-B	Ref. no. 09322

Facade panel with additional coating for use in environments with heavy air pollution or high salt concentration in the air (near the coast).

Facade panel with white coating

KWL 45-160 FB-W	Ref. no. 09323

Facade panel with white coating.

Deep Facade panel (stainless)

Spacer facade panel

KWL 45-160 FBT-E	Ref. no. 09324

For installation of KWL EC 45-160 in outside wall with thickness of 250 – 300 mm. Bonded seal included.

Spacer facade panel with coating

KWL 45-160 FBT-B	Ref. no. 09326

Spacer facade panel with additional coating for use in environments with heavy air pollution or high salt concentration in the air (near the coast).

Spacer facade panel with white coating

KWL 45-160 FBT-W	Ref. no. 09340

Spacer facade panel with white coating.

Installation in the window soffit

Installation package soffit*

Installation package soffit*

KWL 45-160 LE-RP	Ref. no. 08160

Consists of plastic wall installation sleeve 500 mm and EPP soffit channel (fire protection class B1). Includes 2 plaster covers for inside and outside, for protection against contamination in the installation phase. EPP wedge for attaching the wall sleeve with gradient for safe condensate drainage.

* The element must always be overinsulated. It is not suitable for insulation thicknesses ≤ 10 cm and must not be installed in this case.

Wall grille

Wall grille

KWL 45 LG	Ref. no. 04167

Stainless steel wall grille with integrated condensate drain. Includes bonded seal.

Wall grille with coating

KWL 45 LG-B	Ref. no. 04168

Wall grille with additional coating for use in environments with heavy air pollution or high salt concentration in the air (near the coast).

Wall grille with white coating

KWL 45 LG-W	Ref. no. 04169

Wall grille with white coating.

Step II: Installation phase

For installation in the facade and window soffit

Unit

Unit

KWL EC 45-160	Ref. no. 09361

Consists of design internal panel with filter, ceramic heat exchanger, flow straighteners, external protection grille, EC axial fan with protection grille, removal tool (cord) and EPP half shell base frame.

Efficiency class

A+ KWL EC 45-160 with additional room sensor

A KWL EC 45-160

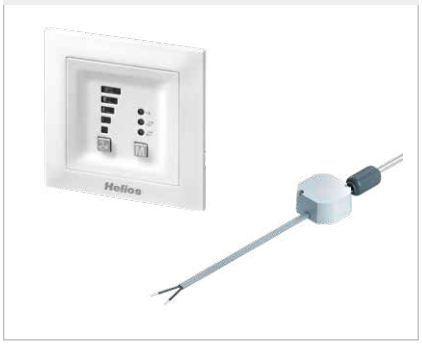
Control set HS

Control set HS (DIN rail)

KWL 45 STS-HS	Ref. no. 03007

Consists of control element KWL 45 BEU and switching power supply KWL 45 SNH for DIN rails (2 TE). Enables the connection of up to 4 units. In case of more than 4 units, an additional KWL 45 SNH is required. Max. 8 units per control element possible.

Control set UP



Control set UP (flush)

KWL 45 STS-UP	Ref. no. 03006

Consists of control element KWL 45 BEU and switching power supply KWL 45 SNU for installation in flush-mounted box. Enables the connection of up to 6 units. In case of more than 6 units, an additional KWL 45 SNU is required. Max. 8 units per control element possible.

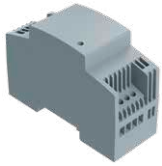
Casing for surface-mounting installation

KWL-APG	Ref. no. 04270

Additional accessories.
For all requirements.

We deliver individual components – so you can have individual products at your disposal in a timely manner.

Switching power supply (DIN-rail)



Switching power supply (DIN-rail)

KWL 45 SNH	Ref. no. 03001

To extend the control set KWL 45 STS-HS from 4 to 8 units. Input: 230 V AC, 50/60 Hz, Output: 12 V DC / 1.5 A for installation in the distributing box (2 TE). Output voltage to SELV protection class III. Electrical safety according to DIN EN 60335-1. Meets EMC requirements according to directive 2014/30/EU.

Room sensor

Room sensor with internal scale

HY 3	Ref. no. 01359

For connection to the external contact of the control element. Attention: Parallel use with the KWL-EM is not possible. With internal scale.
Dim.: 76×76×34 mm (H×W×D)

Room sensor with internal scale

HY 3 SI	Ref. no. 01360

For connection to the external contact of the control element. Attention: Parallel use with the KWL-EM is not possible.
Dim.: 76×76×34 mm (H×W×D)

Sound insulation element soffit

For use in wall sleeve

KWL 45 SEL	Ref. no. 04170

For use in soffit channel (max. 3 pcs. in unshortened channel). Material: Thermoset melamine foam, stainless steel. Fire protection class: B1. Improves sound insulation against external noise by 2 dB (Dn,e,w). Dimensions: 94 x 180 x 32 mm (W x H x D).

Switching power supply (flush)

Switching power supply (flush)

KWL 45 SNU	Ref. no. 03008

To extend the control set KWL 45 STS-UP from 6 to 8 units.Input: 230V AC, 50/60 Hz, Output: 12V DC / 1.9 A Output voltage to SELV protection class III. Electrical safety according to DIN EN 60335-1. Tested according to EMV 2014/30/EU.

Insect screen

For installation kit soffit KWL 45-160 LE-RP

KWL 45 ISL	Ref. no. 03004

For installation kit soffit (KWL 45-160 LE-RP), suitable for retrofitting. Material: stainless steel. Dimensions: 48 x 203 x 4 mm (W x H x D).

Sound insulation element

For use in wall sleeve

KWL 45-160 SE	Ref. no. 09362

For use in wall sleeve (max. 4 pcs. at 500 mm). Material: Thermoset melamine foam. Fire protection class: B1. Improves sound insulation against against external noise by 2 dB (Dn,e,w).
Dimensions: Ø 156 mm; Depth: 50 mm.

Extension module

For combined operation with extract air fans

KWL 45 EM	Ref. no. 03012

For the combined operation of an extract air system, e.g. according to DIN 18017, T3 with KWL EC 45-160 (combi-ventilation) to use the potential-free contact.

Wall stone

Wall stone length 365 mm

KWL 45-160 WS	Ref. no. 09302

Brickwork installation tool made of EPS, fire protection class B1. Replaces otherwise necessary core drilling.

Wall stone length 490 mm

KWL 45-160 WS-L	Ref. no. 09306

Replacement air filter

Replacement air filter

ELF-KWL 45-160/3/3	Ref. no. 09366

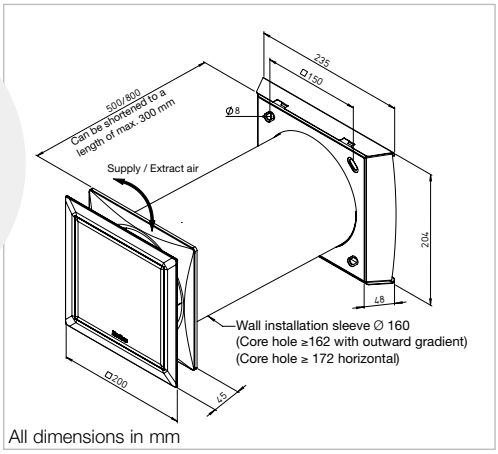
Consists of 2 pcs. ISO Coarse 50% air filter.

EcoVent Verso.
Technical data.

DIBt approval available.

KWL EC 45-160
Variant with external facade

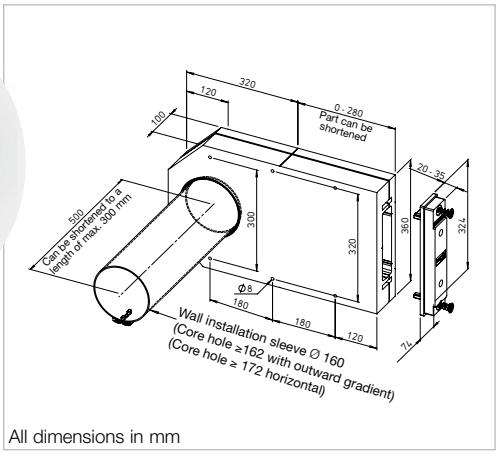
- For renovations and new builds.
- Minimal space requirement due to compact dimensions.
- For wall thicknesses to 800 mm.
- Robust stainless steel external panel in elegant design.
- Internal panel fits extract air fans M1 and ELS and KWL 45 soffit element.



All dimensions in mm

KWL 45-160 LE-RP
Variant with window soffit

- Apart from the grille in the window bar, no visible parts on the facade.
- Flexible installation is possible on left or right of window without conversion.
- Easy integration in thermal insulation system due to installation without tools.
- Can be shortened as required with saw or hot wire.



All dimensions in mm

Technical data

Unit[1]	KWL EC 45-160[1]	Ref. no. 09361			
Air flow volume at speed level	❺	❹	❸	❷	❶
Supply/extract air V̇ m³/h	45	37	32	24	14
Sound pressure L_{PA} dB(A) in 3 m	34	29	27	21	14
Sound levels L_{WA}	52	47	45	39	32
Sound insulation $D_{n,e,w}$ dB[2]			wall 44 / soffit 47		
Power consumption W	4,5	3,4	2,8	2,1	1,6
Heat recovery efficiency[3]	up to 88 %				
Operating voltage Power supply unit	Input 230 V~, 50/60 Hz / Output 12 V ⎓				
Nominal current mA	42	32	27	21	17
El. supply line Power supply unit[4]	NYM-O 2 × 1,5 mm²				
El. supply line Power supply control[4]	NYM-O 2 × 1,5 mm²				
El. supply line to fan[5]	J-Y (ST) Y 3 × 0,8 mm²				
Connection according to writing diagram	1091 / 1093				
Temperature operation area	–12 °C up to + 40 °C				
Weight (unit + int. panel) approx. kg	2,8				

[1] The required installation sleeve and facade panel must be ordered separately. [2] Test bench value. [3] According to latest DIBt test procedure. [4] Use of NYM-J 3 × 1.5 mm² is permitted.
[5] Use of J-Y (ST) Y 2 × 2 × 0.8 mm is permitted.

KWL® easyPlan. Simple planning at the click of a mouse.

Design, bill of quantities and ventilation concept with KWLeasyPlan.

Complete KWL systems with Helios system components including bills of quantities for safe and simple planning. Proof of ventilation concept according to DIN 1946-6 is produced in just a few steps. KWLeasyPlan can be used as an online application directly in the browser without the need for installation. Your project results can be stored and processed ready for printing. Includes the storage and ready-to-print processing of your projects.

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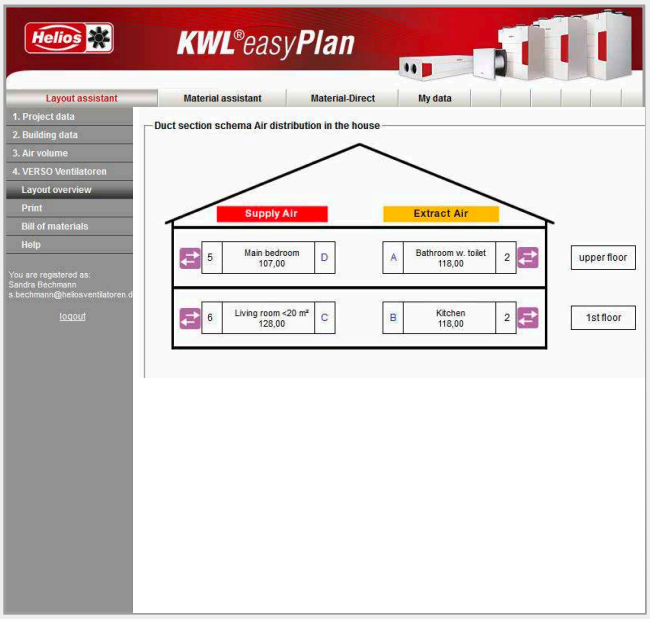
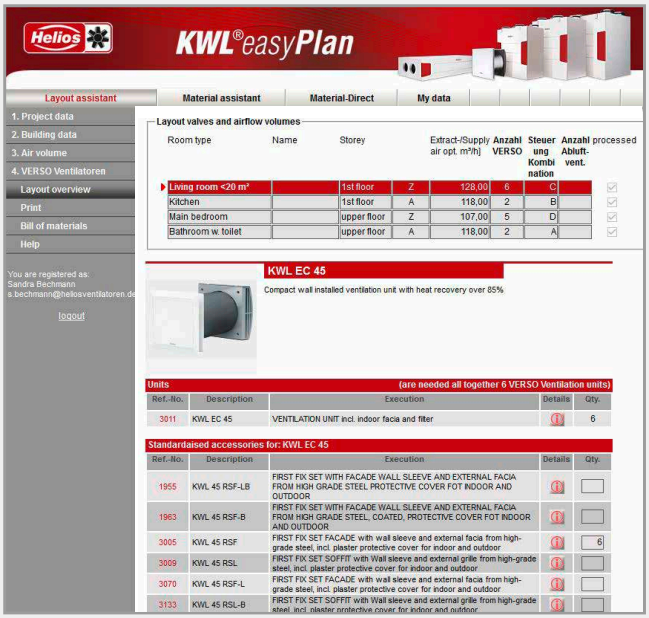


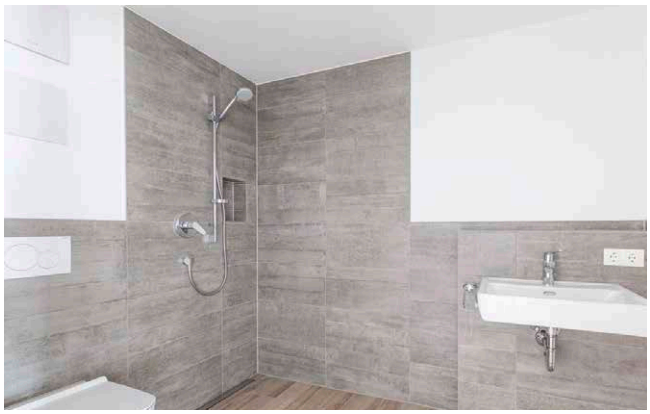


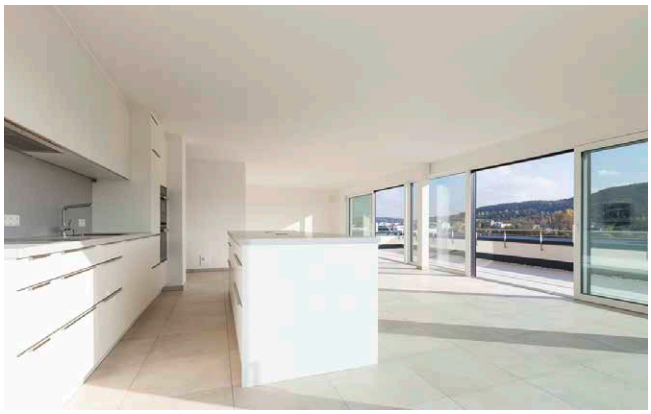
A practical example. KWL® EcoVent Verso in an apartment building.

New-build apartment building

- **Planed by:**
  WURTZ bauen + wohnen
- **Location:**
  Leonberg
- **Ventilation system:**
  KWL® EcoVent Verso combined with ultraSilence® ELS

"Adequate equipment and a high degree of individuality are the standard for us." says Philipp Wurtz, Managing Director of WURTZ bauen+wohnen GmbH. When planning the apartment building in Leonberg, the Low Energy Standard was particularly important for him and this resulted in optimal heating and interest cost savings. The decentralised EcoVent Verso ventilation units with their high heat recovery efficiency levels play a major part in this and also provide for an optimal feel-good atmosphere.





The combination that makes the difference.
EcoVent Verso units can be operated in combination with extract air systems (ultraSilence® ELS or MiniVent® M1) using the controls and an extension module.

The EcoVent Verso units in this apartment building ensure optimal air quality in the living rooms and bedrooms. An ultraSilence® ELS mono tube fan is installed in each internal extract air room, e.g. bathrooms and WCs.

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