

The new ELS – welcome to the mono tube ventilation of the future.





Brilliantly smart.
The new ELS.



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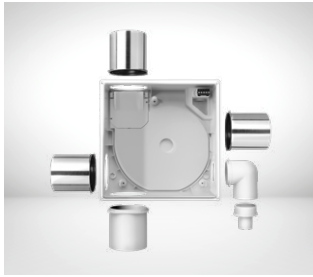
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SECONDS

to make it yours 

THE NEW ELS NFC



Specialist installers can now configure the ELS mono tube ventilation system completely **individually** via smartphone. This only takes **a few seconds** and even works **without power** while still in the packaging. This way, you're ready before the construction site work has even started.

SOUND AWARD-WORTHY?
IT IS!



With the latest technology – and still the same as ever.

With the new ELS NFC, much remains the same. Its benchmark values in terms of performance, pressure strength and extremely quiet operation remain at record-breaking levels. The easy installation of the ultra-flat housing works exactly as you know and appreciate.

What's new is that with ELS NFC, any flow rate required by standards can be configured, which reduces the range of types to just 5.



ELS NFC

With overrun & interval



ELS NFC F

With automatic humidity control



ELS NFC P

With presence function

NEW TO ELS:



ELS NFC CO2

With CO₂ sensor



ELS NFC VOC

With VOC sensor

HERE WE GO!

On the following pages, we'll show you how to easily adjust the ELS NFC to suit your needs using your smartphone. For an even clearer picture, download the App now and explore the possibilities for yourself.



WHAT IS NFC?

NFC or Near Field Communication allows your smartphone to communicate directly with other NFC-enabled devices. Pairing takes place automatically as soon as the devices are in close proximity to each other. A typical example is contactless payment.



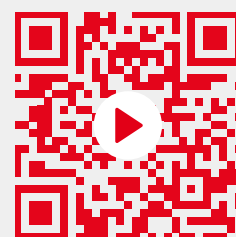
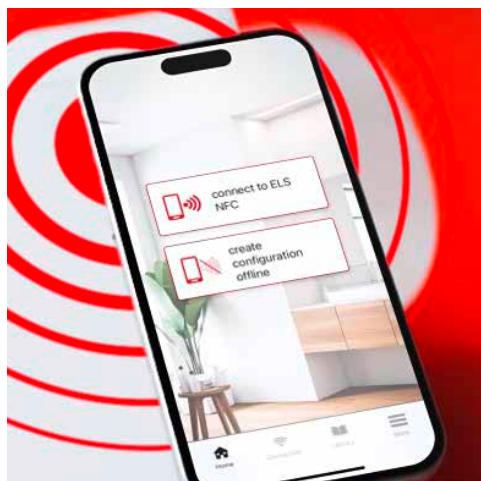
Appolutely simple.

The new Helios ELS App.

With ELS NFC, parameter configuration becomes a breeze. Thanks to flexible programming, the following applies: **One ELS for all levels.** You can adjust the flow rates in no time using your smartphone. It's even faster with the ELS library. Here you can save, share and endlessly reuse frequent settings.

Configuring multiple ELS units of the same type?

SET UP ONCE,
TRANSFER EASILY!



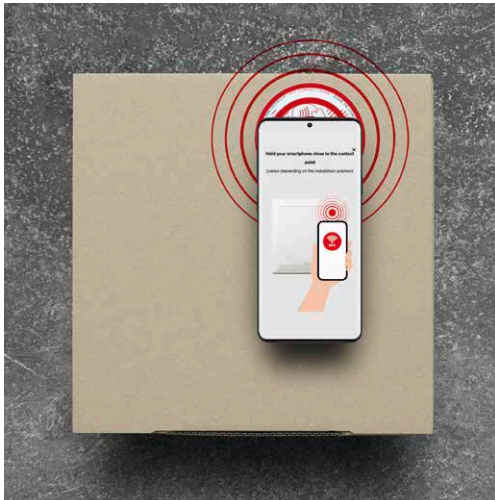
How quick and easy is it to fully configure ELS NFC?
We'll show you in this video.

UNPACK AND GET STARTED.

Customise the ELS mono tube ventilation system precisely to your needs – whenever and wherever you want. The ELS NFC does not even need to be unpacked and requires neither power nor the internet. Whether in the warehouse beforehand, directly on the construction site or after installation – simply hold your smartphone to it and everything is done in no time at all.



READY? EASY!



TAP TO CONNECT

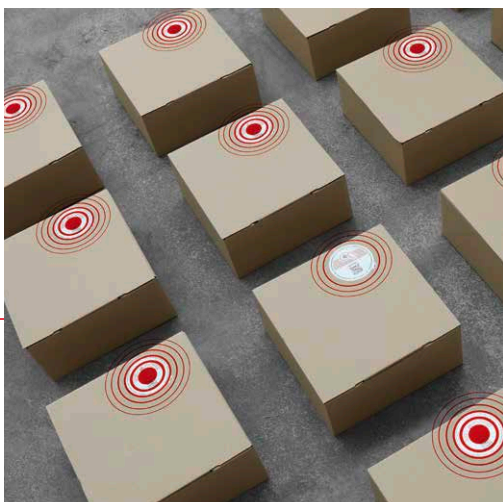
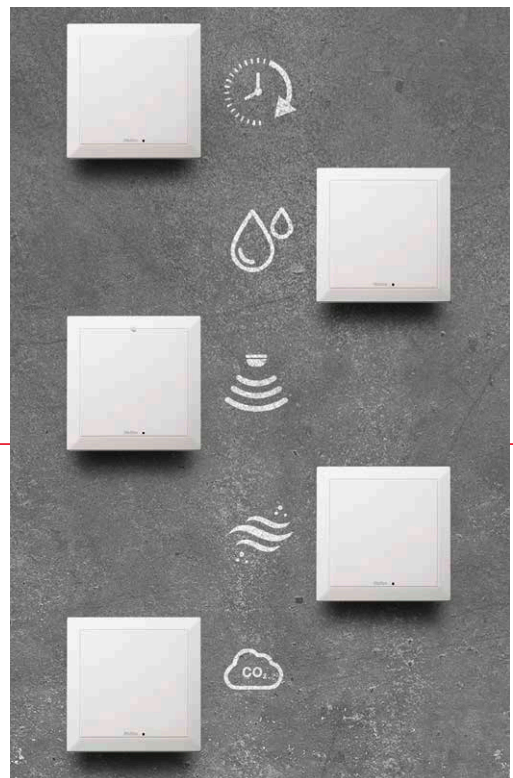
You have everything you need to set up your ELS NFC on your smartphone.

Let's get started: Whether on the installed unit or still in the box. With or without a power connection, and always without the need for internet. On the spot at the construction site or before loading into the installer's van.

MAKE IT YOURS

Customise ELS NFC to meet the requirements of your construction project.

The new motto: One ELS for every flow rate. Choose the right comfort option from just 5 types – configure everything else in record time with the new ELS App.



COPY & PASTE

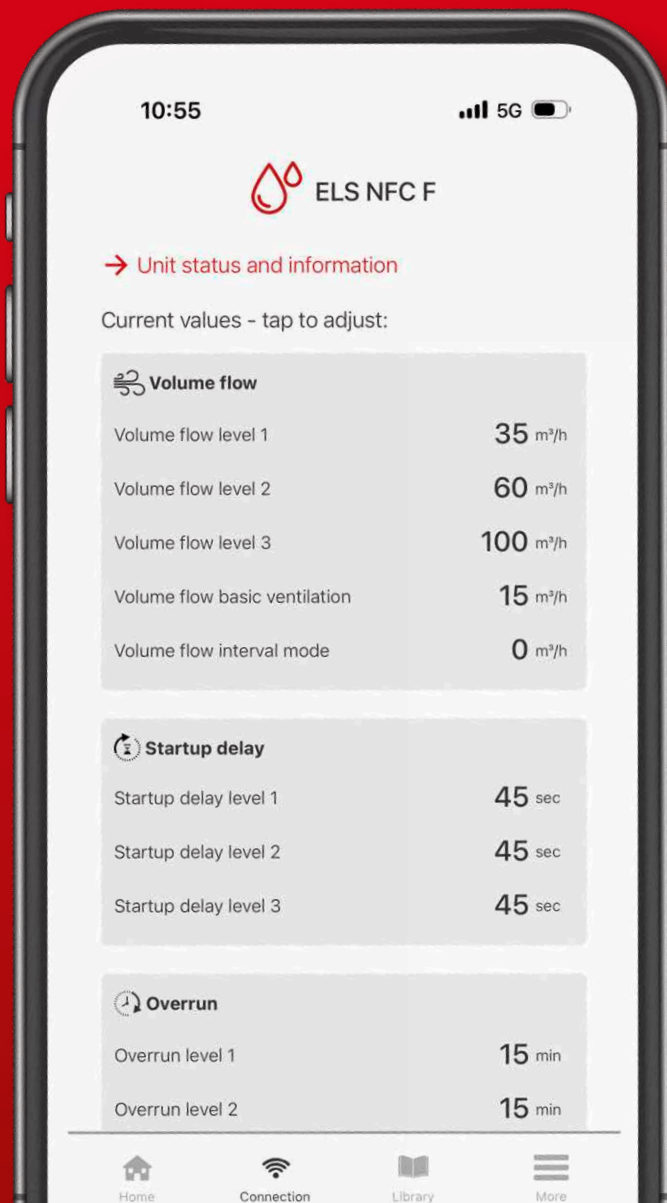
Our pro tip for even faster results.

Do you need identical settings on multiple ELS units of the same type? With a simple touch of your smartphone, you can copy the configuration of one unit and then easily transfer it to others. And of course you can also save it for later!

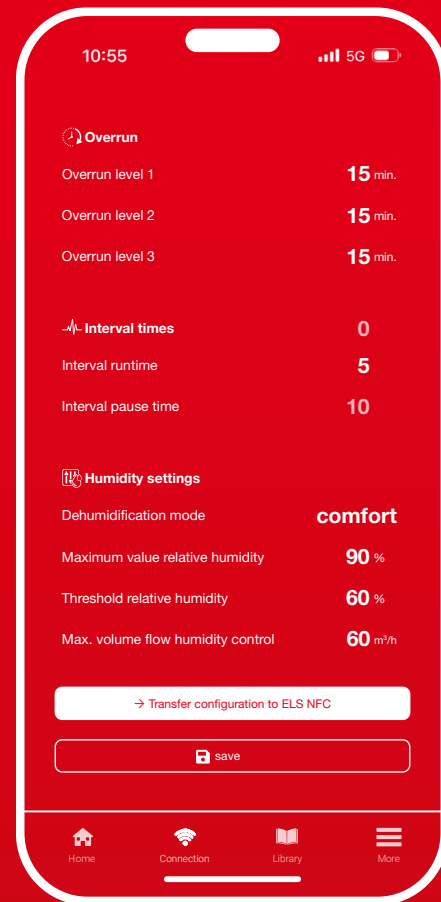
One tap – everything sorted.

With ELS NFC, configuration is as simple as a tap. Adjust flow rates quickly and easily using your smartphone – contactless and flexible. Save your settings in the ELS library, share them with others, or reuse them whenever needed.

Even better: With just one tap, you can effortlessly transfer saved configurations to multiple devices. Set it up once, apply it everywhere – it doesn't get any smarter!



SIMPLY CONTROL

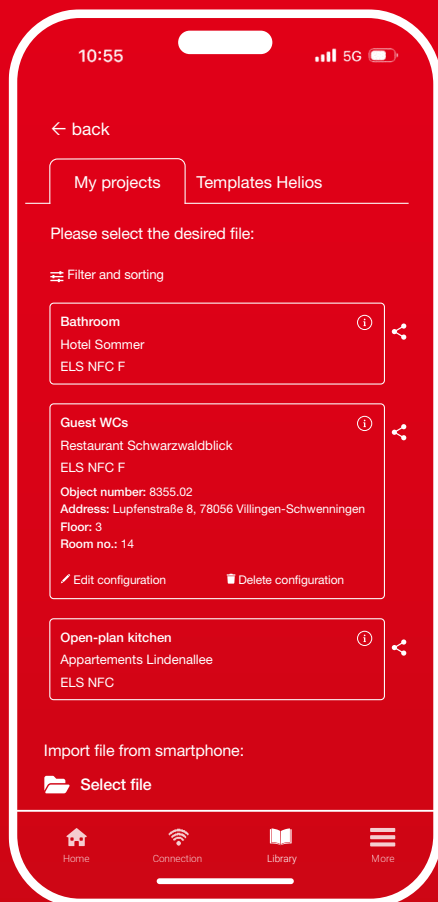


View all parameters at a glance and change them with a tap if needed. With just one touch, the adjusted parameters are updated on your ELS.

IT'S ALL ABOUT THE SETTINGS:

- Flow rates
- Startup delays
- Overrun times
- Intervals
- Sensor parameters

THE HALL OF FAME

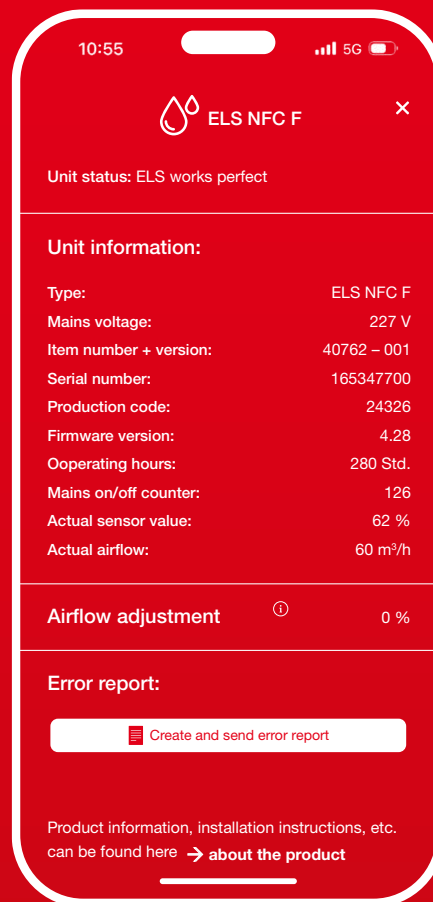


You can save, modify, share and transfer your frequently used configurations (as well as any others) to additional ELS units of the same type.

EVERYTHING IN ONE PLACE:

- Save your own parameter settings, including project-specific data
- Quick sharing function for easy collaboration on site
- Access and transfer factory settings for each ELS type at any time

SEE WHAT'S HAPPENING



The status overview provides all the details about your ELS. It also provides assistance if you encounter any issues with your device. Upon request, a fault description can be sent directly to Helios Service for swift resolution.

KEY INFO AT A GLANCE:

- Current operating status
- Useful unit information
- Practical flow rate adjustment
- Technical data and documents
- Contact Helios Support

without Best air at the push of a button.

The intelligence of ELS NFC.

Some problems solve themselves.

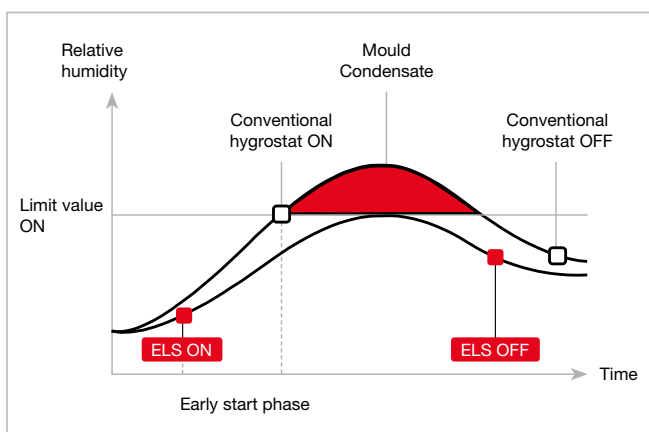
There are many reasons why indoor air quality may be insufficient. That's why ELS offers the right solution for almost every issue in its portfolio. One thing all solutions have in common: Barrier-free automatic operation ensures safe, demand-based, and user-independent ventilation with maximum energy efficiency. Or, to put it simply: ELS delivers optimal air at the push of a button – just without the button.



ELS NFC F with automatic humidity control.

Fast and intensive humidity reduction thanks to profile-dependent, stepless control.

- Ideal for shower and washrooms, thanks to configurable automatic humidity control.
- The early humidity detection system increases performance as soon as humidity begins to accumulate and responds continuously to varying levels of humidity increase.
 - Normal humidity increase: ELS starts at the defined threshold and remains in operation until the humidity is sufficiently reduced.
 - Rapid humidity increase: ELS starts before the threshold is reached and eliminates high humidity at an early stage.
- New option in the ELS App to choose between fast intensive mode and quiet comfort mode.

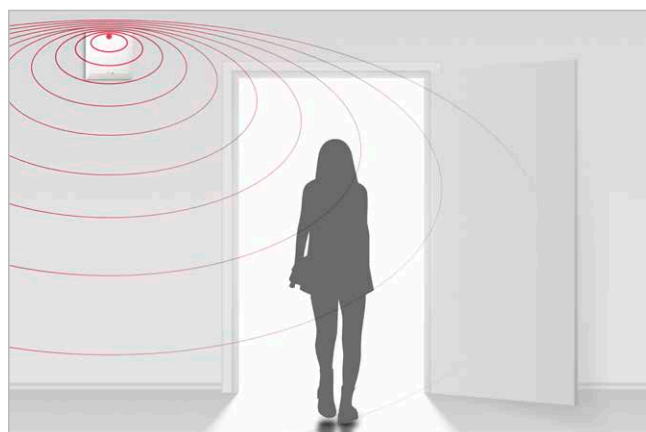


ELS NFC P with presence function.



The stepless presence function detects movement and automatically adjusts the ventilation operation to the room's usage – efficiently and based on demand.

- The switchless operation makes ELS NFC P the first choice for barrier-free use in toilets and sanitary rooms in care homes, hotels or offices.
- Via the app, you can define the overrun time (precisely adjustable from 0–90 minutes) and the maximum flow rate at which ELS should operate in presence-controlled automatic mode.



ELS with sensor operation. Stepless automatic operation based on room air quality.

ELS now offers brand new possibilities for automatic fan operation based on room air quality. When sensor operation is activated, the fan automatically switches on when the set limit value is reached and adjusts the flow rate continuously based on the measured values.

ELS NFC VOC

- Continuously measures the concentration of volatile organic compounds (VOC) in the room air and responds gradually to their increase.
- The ELS App allows you to define the maximum flow rate and critical VOC limit values.
- Unpleasant odours are eliminated as soon as they arise.

ELS NFC CO2

- Real-time measurement of CO₂ concentration in the room air activates the fan operation when the limit value, set via the App, is reached.
- The fan operates continuously and adjusts energy-efficiently to the conditions.
- Ideal for the easy implementation of ventilation according to the German standard DIN 1946-6.



+black.



Hit the **black mark.**

This will make your next bathroom project a guaranteed stand-out: With the +black design line, we showcase ELS in a whole new way. Perfect for dark bathrooms or black accents.



Order the new ELS NFC models now in a black finish for elegant accents in your bathroom. For all other ultraSilence ELS models, the black facade cover can be ordered as an accessory and can be easily retrofitted.

Also new: ELS 0–10 V.

The perfect choice for building management systems (BMS).



Finally, a device that does exactly what you tell it:

With the new ELS 0–10 V, we offer another modern way to control your mono tube ventilation system. The decision on whether, when, how long and at what intensity to ventilate lies with the central building management system (BMS), into which ELS is integrated easily and flexibly.

- **Universal** 0–10 V connection.
- Can be combined with external **sensors**.
- Integration into **existing building management systems**.
- High compatibility with different **control concepts**.

ELS 0–10 V only ventilates when it receives a corresponding signal from the building management system. Thanks to the universal 0–10 Volt connection, this is possible with almost any BMS system and requires no configuration effort on the fan side. Any number of fans can operate in coordination within a system and are controlled from a central point. The ELS 0–10 V mono tube ventilation system can also be operated with continuous adjustment and allows for a flow rate of 15 to 100 m³/h.



The first ELS specifically for building management systems



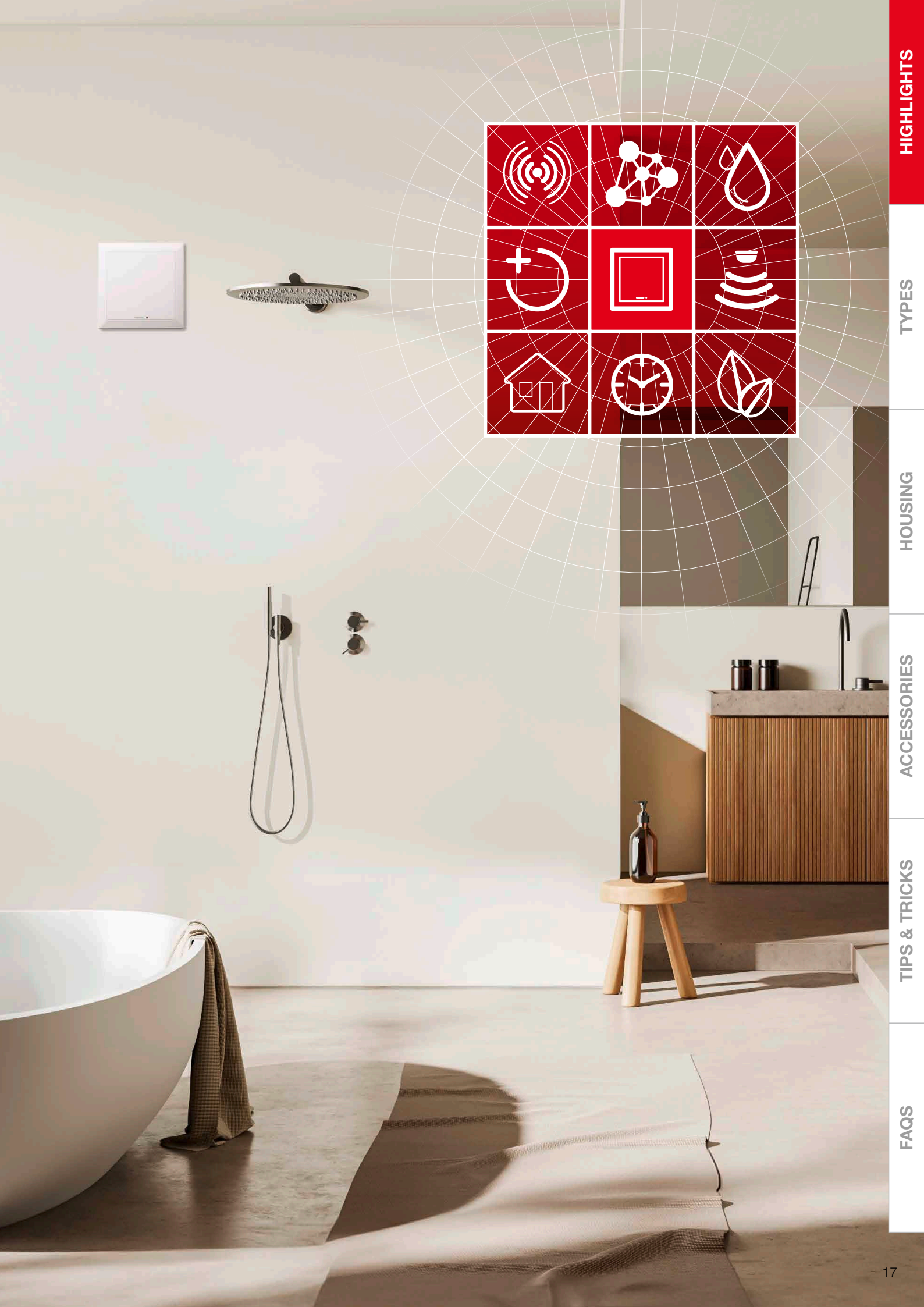
Operation with external sensors and potentiometers possible



Ideal for centralised fan operation control



Continuously variable control via 0 -10 V connection



HIGHLIGHTS

TYPES

HOUSING

ACCESSORIES

TIPS & TRICKS

FAQS

More is more – additional ELS highlights.

MADE IN GERMANY

Helios stands for the highest standards of quality and reliability. Our mono tube ventilation systems are entirely developed and manufactured in Germany – from motor winding to final assembly.

For ventilation solutions that stand out with their durability, energy efficiency and reliability.



SUSTAINABLE

To ensure your ventilation system operates flawlessly over the long term, regular filter cleaning is essential. All ELS units are equipped with a sustainable permanent filter that can be easily cleaned in the dishwasher. This not only conserves resources but also saves money – costly disposable filters are a thing of the past.



INSTALLATION



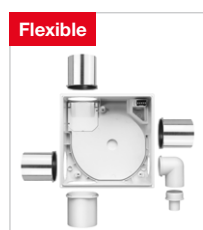
Fast

It doesn't get any easier – the electrical plug connection can be conveniently removed from the holder and connected. The cable entry and coupling connection are made during housing assembly.



Clever

The airtight check valve in the air outlet can be rotated in 90° increments. This allows for easy positioning of the housing with the outlet directed to the left, right, upwards, or backwards.



Flexible

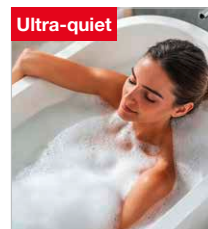
With the housing types ELS-GU and ELS-GUBA, we offer maximum flexibility for every requirement. Whether for single-room or two-room solutions, with connections on the left, right, bottom, or a WC connection – the choice is yours.

TECHNOLOGY



Compact

With its dimensions, ELS holds the record with an installation depth of just 89 mm.



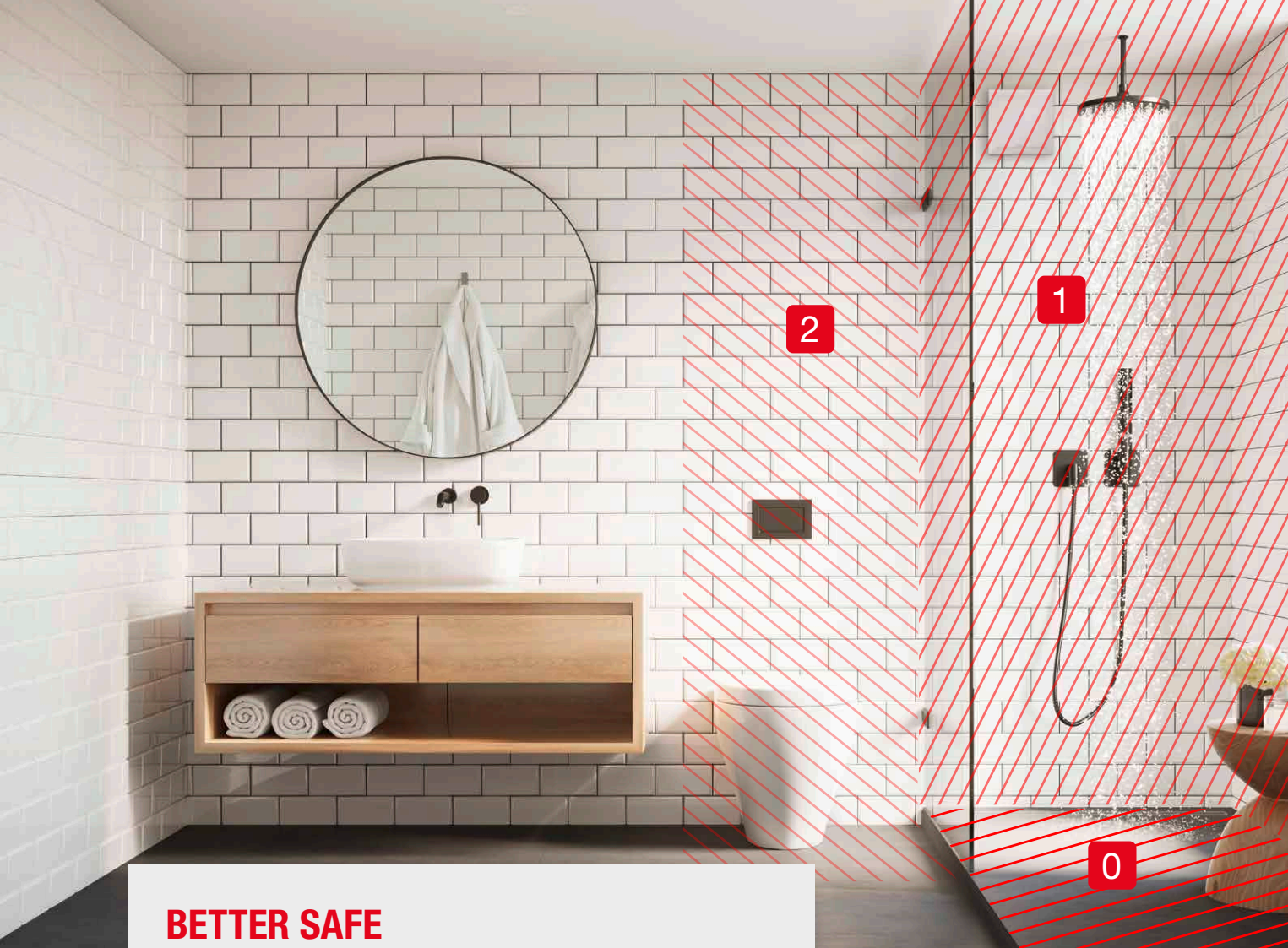
Ultra-quiet

35 dB(A) at $A = 60 \text{ m}^3/\text{h}^*$ is on the threshold of hearing and a value that no one can surpass.
*(LPA at $AL = 10 \text{ m}^2$)



Powerful

ELS generates real pressure: 260 Pa at $60 \text{ m}^3/\text{h}$. This enables the use of the smallest duct diameters and increases living space.



BETTER SAFE THAN SORRY

Helios mono tube ventilation systems are optimally protected against moisture and are perfectly suited for installation in **Zone 1** of wet rooms in accordance with the German standard DIN VDE 0100-701. Rely on proven safety!

In addition, the ELS range is approved by the German Institute for Building Technology (DIBt, Z-51.1-193) and carries recognised international certification marks. It meets all relevant standards and regulations. **Additionally, the following test certificates are available:**

- TÜV-certified performance curve.
- TÜV-certified leakage rate of the check valve.
- External manufacturing monitoring by TÜV Bayern-Sachsen, Germany.
- Testing of fire protection shut-off valve and housing by the Materials Testing Institute of the Institute for Building Materials, Structural Engineering and Fire Protection (IBMB), Braunschweig, Germany, Swiss Fire Protection Register Z 5491.



Note: ÖVE, SEV, ITB not valid for EC types.

Type overview:

Find the perfect ELS for you.



ELS NFC

The economical basic model for bathrooms and WCs.

Premium performance as standard! 3+2 ventilation levels, as well as turn-on delay, overrun and interval operation, each individually configurable. For reliable room ventilation - even in your absence.

Ideal for: Rooms with normal or lower frequency of use.



ELS NFC F

Like basic model, but with added automatic humidity control.

ELS with automatic humidity control is equipped with an effective system for early moisture detection. Intelligent algorithms detect the intensity of moisture increase, allowing the fan to respond early and continuously.

Ideal for: Rooms with high moisture levels.



ELS NFC P

Like basic model, but with added presence function.

ELS with presence detector is the convenient option for controlling ventilation based on room occupancy. Automatic adjustments ensure demand-based and standard-compliant ventilation.

Ideal for: Rooms with high usage intensity.



New Sensor



ELS NFC VOC

Like basic model, but with added VOC sensor.

This fan puts an end to odours. ELS with integrated VOC sensor detects odours from various sources and continuously adjusts the fan's output as required.

Ideal for: Rooms with increased odour levels.



New Sensor



ELS NFC CO2

Like basic model, but with added CO₂ sensor.

Thanks to variable CO₂ control, the ventilation intensity automatically adapts to the room air quality - ensuring optimal air conditions with low energy consumption.

Ideal for: The simple implementation of ventilation in accordance with DIN 1946-6.

→ **More details p. 22**

ELS AC

Proven millions of times – pre-configured at the factory.

The established ELS AC models come with everything that makes an excellent mono tube ventilation system. Highest pressure ratings and industry-leading acoustics are just as important as the award-winning design.

Choose from the wide range of ELS AC models that perfectly match your requirements:

- Types with 1, 2 or 3 performance levels.
- Air flows up to 100 m³/h.
- Wide range of functions, including types with barrier-free automatic operation.



→ **More details p. 24**

ELS 0–10 V

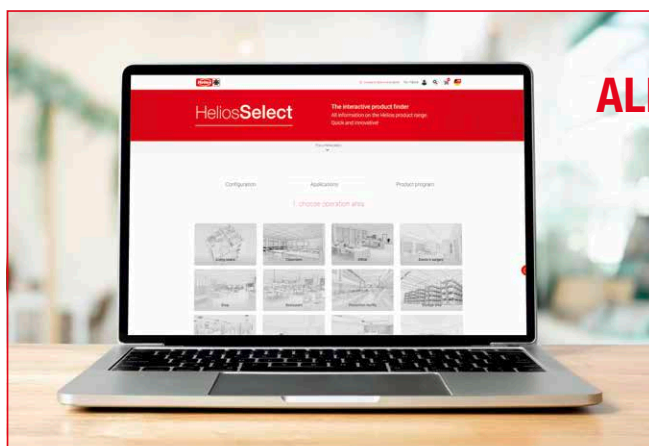
Perfect for integration into building management systems (BMS).

With the new ELS 0–10 V, we offer another modern way to control your mono tube ventilation system. The central building management system (BMS) takes control of the ventilation – including deciding if, when, for how long, and at what intensity ventilation will occur. The ELS can be easily and flexibly integrated into the BMS.

- Universal 0–10 V connection.
- Can be combined with external sensors.
- Integration into existing building management systems.
- High compatibility with different control concepts.



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ALL DETAILS ON HELIOSSELECT

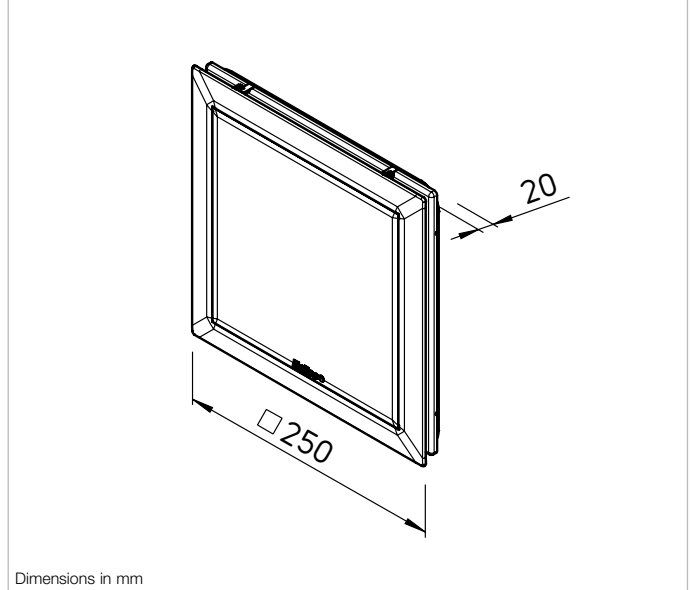
All information, technical data, performance curves, and accessories for your ELS unit, as well as various options for targeted configuration, can be found online:

www.HeliosSelect.de

ELS NFC and ELS NFC black



Dim. Inner panel ELS NFC and ELS NFC black



ELS NFC is the innovative mono tube ventilation system for the ventilation of sanitary rooms, bathrooms and WCs. Five models with features such as timer, presence detector, automatic humidity control, as well as CO₂ and VOC sensors meet a wide range of requirements. Thanks to NFC technology, flow rates, settings and parameters can be flexibly configured without power, either in the packaging or on-site after installation – intuitively via the Helios ELS App.

- operation. The startup delay and overrun time can be conveniently adjusted via the App.
- Suitable for use in Zone 1 of wet rooms according to the German standard DIN VDE 0100-701.
- Design inner facade available in white or black.
- Standard with optical filter cleaning indicator and dishwasher-safe permanent filter.
- Tool-free insertion mounting with simultaneous electrical contact closure for easy and quick installation.

for basic ventilation and interval operation, including startup delay and overrun – individually configurable.

■ ELS NFC F
With automatic humidity control

Like ELS NFC, but with automatic humidity control, configurable via the App. Intelligent algorithms detect the intensity of the humidity increase, allowing the fan to respond early and continuously.

■ ELS NFC P
With presence function

Like ELS NFC, but with a presence detector. It automatically adjusts the ventilation operation to the room usage, ensuring demand-based, regulation-compliant ventilation.

Parameters are adjustable via the App.

■ ELS NFC VOC
With VOC sensor

Like ELS NFC, but with an integrated VOC sensor, configurable via the app. It detects odours from various sources and adjusts the fan's performance demand-based and continuously.

■ ELS NFC CO₂
With CO₂ sensor

Like ELS NFC, but with an integrated CO₂ sensor, configurable via the app. It automatically adjusts the ventilation intensity to the air quality in the room – ensuring optimal air conditions with minimal energy consumption.

Description for all types

- The ELS NFC with EC technology offers 5 programmable ventilation stages, including optional basic ventilation and configurable interval

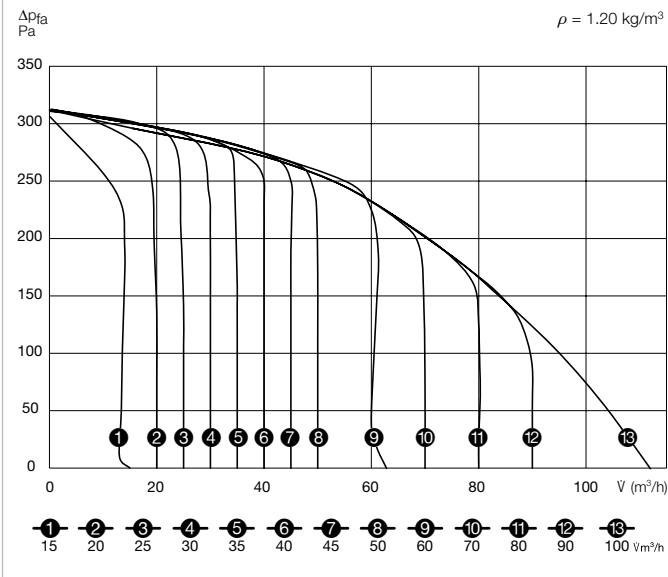
The models

- ELS NFC
With overrun & interval
Standard with 3 performance levels, plus 2 additional ventilation stages

Technical data	With overrun and interval operation			With automatic humidity control			With presence detector		With VOC sensor		With CO ₂ sensor		
	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.	
Inner panel white	ELS NFC	40761	ELS NFC F	40762	ELS NFC P	40763	ELS NFC VOC	40764	ELS NFC CO ₂	40765			
Inner panel black	ELS NFC black	40781	ELS NFC F black	40782	ELS NFC P black	40783	ELS NFC VOC black	40784	ELS NFC CO ₂ black	40785			
	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬
Configurable flow rates Level 1, 2 and 3 m ³ /h	15	20	25	30	35	40	45	50	60	70	80	90	100
Power consumption W	3.5	3.6	3.7	3.8	4.0	4.4	4.9	5.4	6.0	7.3	9.6	12.0	15.0
Nominal current (unregulated) A	0.022	0.023	0.024	0.026	0.028	0.033	0.036	0.039	0.045	0.056	0.070	0.090	0.110
Nominal speed	560	600	660	720	780	840	900	980	1080	1260	1440	1620	1800
Sound pressure dB(A)* (flush-m.)	21	23	24	25	26	28	30	32	35	39	42	44	47
Sound power L _{WA} dB(A) (flush-m.)	25	27	28	29	30	32	34	36	39	43	46	48	51
Configurable flow rates Basic ventilation m ³ /h	0 / 7,5 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 60 / 70 / 80 / 90 / 100												
Configurable flow rates Interval operation m ³ /h	0 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 60 / 70 / 80 / 90 / 100												
Startup delay	0–120 sec. (individually adjustable for each stage)												
Overrun	0–90 min. (individually adjustable for each stage)												
Interval times	0–24 hrs												
Voltage/Frequency	1~, 230 V, 50/60 Hz												
Connection DN mm	78												
Protection type	IPX5												
Electrical connection	NYM-0, 5 x 1.5 mm ²												
Connection - wiring diagram no.	1543												
Weight approx. kg	1.69												

* at AL = 10 m² equivalent absorption area

Performance curves ELS NFC and ELS NFC black



Ready? Easy!

ELS can be precisely tailored to individual requirements – anytime and anywhere. No need to unpack the unit or connect it to power or the internet: simply hold your smartphone near the unit, and everything is done in no time. The video demonstrates just how quick and easy it is.



Helios ELS APP

Flow rates, startup delay, overrun and interval times can be programmed in seconds using the App. Humidity and presence settings, as well as VOC and CO₂ parameters, can also be configured individually.



Everything at a glance

The App also features a time-saving ELS library, allowing frequently used settings to be saved, shared and quickly transferred to other devices. The status overview displays the current operating state, and if needed, Helios Support can be contacted directly.



Switching without rethinking

ELS NFC is fully backward compatible and fits into all available housing variants. No changes are required for accessories either. This is great news for those who are familiar with and appreciate the flexible capabilities of the universal housing ELS-GU.



For all types

Factory settings and adjustable values of ELS NFC, ELS NFC F, ELS NFC P, ELS NFC CO₂ and ELS NFC VOC

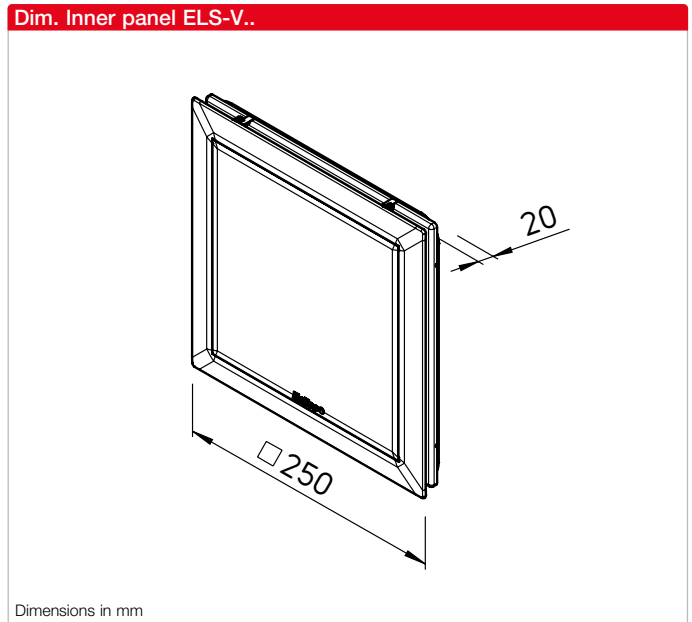
Flow rates	Adjustable: 15/20/25/30/35/40/45/50/60/70/80/90/100 m ³ /h and 7.5 m ³ /h as interval operation in 'basic ventilation' level
	Factory setting:
Flow rate Level 1	35 m ³ /h
Flow rate Level 2	60 m ³ /h
Flow rate Level 3	100 m ³ /h
Flow rate Basic ventilation	0 m ³ /h
Flow rate Interval operation	0 m ³ /h
Startup delay	Startup delay per level from 0 to 120 sec. adjustable in steps of 5
	Factory setting:
Startup delay Level 1	45 sec.
Startup delay Level 2	45 sec.
Startup delay Level 3	45 sec.
Overrun time	0 to 90 min. per level selectable to the minute
	Factory setting:
Overrun time Level 1	15 min.
Overrun time Level 2	15 min.
Overrun time Level 3	15 min.
Interval times	Interval runtime in minutes (steps of 5) and pause time per hour separately adjustable
	Factory setting:
Interval runtime	0 min.
Interval pause time	0 hrs

For sensors

Factory settings and adjustable sensor values

ELS NFC F with humidity control		
	Adjustable:	Factory setting:
Threshold value relative humidity	40 – 90 %	60 %
Maximum value relative humidity	40 – 90 %	90 %
Max. flow rate relative humidity	15 – 100 m ³ /h	60 m ³ /h
Mode	Comfort / Intensive	Comfort
ELS NFC P with presence detector		
	Adjustable:	Factory setting:
Overrun time P-sensor	0 – 90 min.	15 min.
Max. flow rate P-sensor	15 – 100 m ³ /h	60 m ³ /h
ELS NFC CO ₂ with CO ₂ sensor		
	Adjustable:	Factory setting:
Threshold value CO ₂	400 – 3000 ppm	800 ppm
Maximum value CO ₂	400 – 3000 ppm	1400 ppm
Max. flow rate CO ₂	15 – 100 m ³ /h	60 m ³ /h
ELS NFC VOC with VOC sensor		
	Adjustable:	Factory setting:
Threshold value VOC	100 – 450 VOC	100 VOC
Maximum value VOC	100 – 450 VOC	250 VOC
Max. flow rate VOC	15 – 100 m ³ /h	60 m ³ /h

Accessory details	Page
Housing	28 ff.
Accessories	38 ff.



Stronger. Quieter. More elegant. The classic ELS-V.. with AC technology still sets benchmarks and additionally impresses with a wide range of options for demand-based, barrier-free, and of course, regulation-compliant ventilation in bathrooms, WCs and other rooms.

- Standard with optical filter cleaning indicator and dishwasher-safe permanent filter.
- Double insulated, class II, IP X5.
- Maintenance-free, ball-bearing AC energy-saving motor (230 V~, 50 Hz).
- Tool-free insertion mounting with simultaneous electrical contact closure for easy and fast installation.



Description for all types

- Predefined flow rates with single, double or three-stage operation.
- Suitable for use in Zone 1 of wet rooms according to the German standard DIN VDE 0100-701.
- Standard inner facade in white, optional replacement panel in black available.

The models

- **ELS-V.. Base model**
Manual control via light switch. The required overrun time in windowless rooms must be ensured with a overrun switch (accessory).

- **ELS-VF.. With automatic humidity control**
ELS with automatic humidity control is equipped with a highly effective and advanced system for early humidity detection. Intelligent algorithms also detect the intensity of the humidity increase and respond faster than traditional systems. The overrun time and interval operation are fully automated.

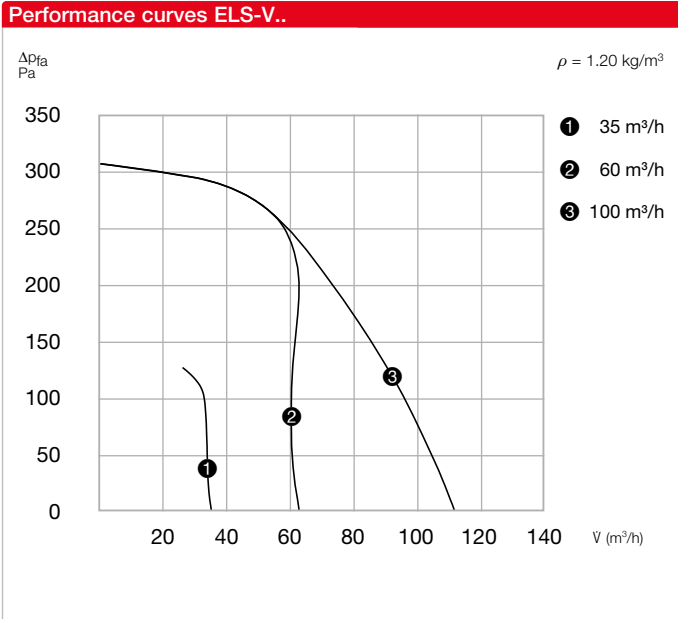
offers an economical and secure ventilation solution – even in the absence of occupants. Control is via an external switch, typically the light switch.

- **ELS-VN / VNC.. With overrun & interval**
ELS-VN with overrun is designed for bathrooms and WCs in residential units with normal usage frequency. For rooms with sporadic low usage, ELS-VNC with programmable overrun and interval operation

- **ELS-VP.. With presence function**
ELS with presence detector is the convenient option for setting the ventilation operation depending on the room's occupancy. It automatically ensures demand-based and regulation-compliant ventilation at all times. Ideal for barrier-free toilets and sanitary rooms used privately or commercially, such as in hotels, restaurants, offices, care homes and more. The overrun time is approximately 15 minutes.

Type	Ref. no.	Area of application	Flow rate in m³/h	Connection DN mm	Power consumption in Watt	Sound pressure level dB(A)*		Sound power level L _{WA} dB(A)		Weight approx. kg
						Flush-mounted	Surface-mount.	Flush-mounted	Surface-mount.	
ELS Standard										
ELS-V 60	08131	Bathroom or WC	60	78	18	35	39	39	43	1.69
ELS-V 60/35	08133	Bathroom or WC	60/35	78	18/9	35/26	39/30	39/30	43/34	1.69
ELS-V 100	08132	Bathroom+WC, kitchen	100	78	29	47	51	51	55	1.69
ELS-V 100/60/35	08136	Bathroom+WC, kitchen	100/60/35	78	29/18/9	47/35/26	51/39/30	51/39/30	55/43/34	1.69
ELS with automatic humidity control										
ELS-VF 60	08161	Bathroom or WC	60	78	18	35	39	39	43	1.69
ELS-VF 60/35	08163	Bathroom or WC	60/35	78	18/9	35/26	39/30	39/30	43/34	1.69
ELS-VF 100/60/35	08166	Bathroom+WC, kitchen	100/60/35	78	29/18/9	47/35/26	51/39/30	51/39/30	55/43/34	1.69
ELS with overrun / ELS with adjustable overrun										
ELS-VN 60	08137	Bathroom or WC	60	78	18	35	39	39	43	1.69
ELS-VN 60/35	08139	Bathroom or WC	60/35	78	18/9	35/26	39/30	39/30	43/34	1.69
ELS-VN 100	08138	Bathroom+WC, kitchen	100	78	29	47	51	51	55	1.69
ELS-VN 100/60	08141	Bathroom+WC, kitchen	100/60	78	29/18	47/35	51/39	51/39	55/43	1.69
ELS-VNC 60	08143	Bathroom or WC	60	78	18	35	39	39	43	1.69
ELS-VNC 100	08144	Bathroom+WC, kitchen	100	78	29	47	51	51	55	1.69
ELS with presence detector										
ELS-VP 60	08149	Bathroom or WC	60	78	18	35	39	39	43	1.69
ELS-VP 100	08150	Bathroom+WC, kitchen	100	78	29	47	51	51	55	1.69

* at AL = 10 m² equivalent absorption area ** for deactivating the automatic function (type ELS-VF..) or the interval function (type ELS-VNC)



One Fan. One Word.
 With 15 types, the ELS-V.. portfolio offers fully pre-configured models for all essential applications. Simple, clear, and unchangeable



Accessory details	Page
Housing	28 ff.
Accessories	38 ff.

Factory settings and adjustable values

ELS-VN.. with overrun		
	Adjustable:	Factory setting:
Startup delay	–	45 sec.
Overrun	6, 15 and 21 min.	15 min.
ELS-VNC.. with adjustable overrun		
	Adjustable:	Factory setting:
Startup delay	0 and 45 sec.	45 sec.
Overrun	6, 10, 15 and 21 min.	15 min.
Interval	4, 8, 12 and 24 hrs	4 hrs
ELS-VF.. with automatic humidity control		
	Adjustable:	Factory setting:
Startup delay	0 and 45 sec.	45 sec.
Overrun	6, 10, 15 and 21 min.	15 min.
ELS-VP.. with presence detector		
	Adjustable:	Factory setting:
Overrun	–	15 min.

Back in black
 A new look for ELS-V.. – even if it's already installed. With +black, the ELS facade is now optionally available in a sleek black finish. Whether you order it right away or upgrade later is entirely up to you.



Barrier-free ventilation
 With ELS-V.., advanced solutions for demand-based automatic operation are readily available. Choose the option that best suits your project.



Proven millions of times
 Whether in terms of craftsmanship, technology or functionality – with ELS-V.., you are choosing durable, construction-tested premium quality. The same applies to the compatible housings, which can be installed in record time thanks to numerous clever details and well-designed accessories.



Universal genius
 The flush-mounted housing ELS-GU is the perfect complement to the ELS-V.. fan units. Compact and highly versatile, it is ideal for single- and two-room ventilation or for WC connection above the flush pipe.

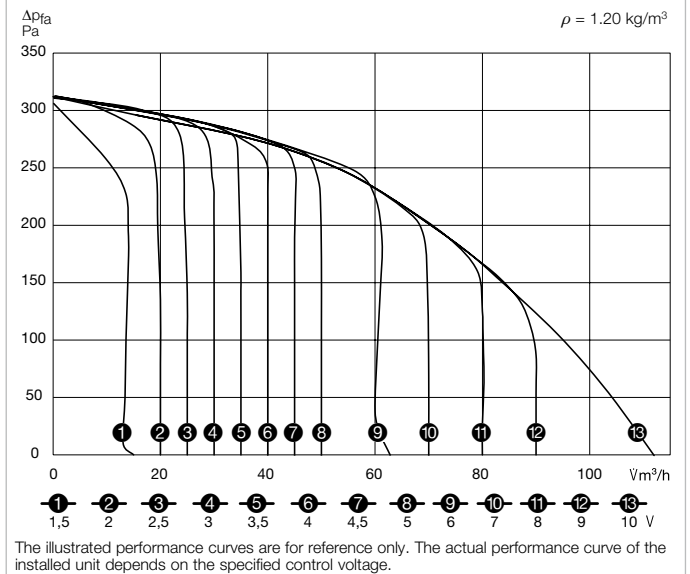


Electrical connection	Connection - wiring diagram no.	Accessories: DSEL 2 no. 01306 Speed and operating switch, 2-speed	Accessories: DSEL 3 no. 01611 Speed and operating switch, 3-speed
NYM-O, 2x1.5mm ²	869		
NYM-O, 3x1.5mm ²	871	•	
NYM-O, 2x1.5mm ²	870		
NYM-O, 4x1.5mm ²	874	•	•
NYM-O, 3x1.5mm ² (4x1.5mm ² *)	881		
NYM-O, 4x1.5mm ² (5x1.5mm ² *)	883	•	
NYM-O, 5x1.5mm ²	886	•	•
NYM-O, 3x1.5mm ²	875		
NYM-O, 4x1.5mm ²	877	•	
NYM-O, 3x1.5mm ²	876		
NYM-O, 4x1.5mm ²	879	•	
NYM-O, 3x1.5mm ² (4x1.5mm ² *)	881		
NYM-O, 3x1.5mm ² (4x1.5mm ² *)	882		
NYM-O, 2x1.5mm ²	887		
NYM-O, 2x1.5mm ²	887		

ELS 0–10 V



Performance curves ELS 0–10 V



The ELS 0–10 V fan unit offers a modern and flexible control option via a 0–10 V input. This enables demand-based and automated ventilation control through a central building management system (BMS) – from activation and runtime to the desired intensity. With its seamless integration into building management systems, ELS 0–10 V is the ideal solution for use in hotels, care facilities and commercial properties.

■ Description / Delivery

- Ideal for integration with a building management system (BMS) or control via adjustable sensors with a 0–10 V output.
- High pressure performance ensures a constant flow rate while maintaining exceptionally quiet operation.
- Suitable for use in Zone 1 of wet rooms according to the German standard DIN VDE 0100-701.
- Standard white inner facade, with an optional black cover available.
- Equipped with an optical filter cleaning indicator and a dishwasher-safe permanent filter.
- Double insulated, class II, IPX5.
- Energy-saving EC motor (230 V~, 50/60 Hz).
- Tool-free insertion mounting with simultaneous electrical contact closure for easy and fast installation.

■ Performance control

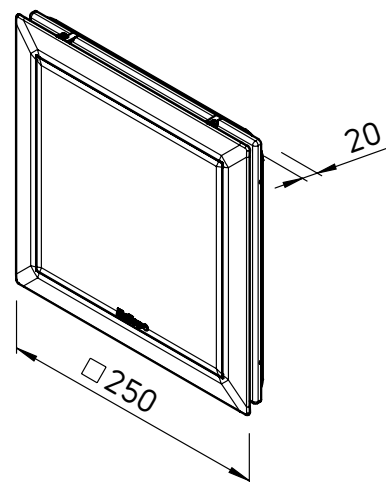
- The flow rate of the ELS 0–10 V fan unit can be continuously adjusted within a range of 15 – 100 m^3/h via a 0–10 V control signal.
- Additionally, control via external potentiometers (e.g., Helios PU/PA) is possible. The required control voltage is provided directly by the motor electronics. The fan also transmits a status signal (On/Off) via an 'Open Collector' transistor output, ensuring easy feedback to higher-level systems.

■ Housing

- Suitable for universal installation in all ELS flush-mounted and surface-mounted housings.

■ Accessory details	Page
Housing	28 ff.
Accessories	38 ff.

Dim. Inner panel ELS 0–10 V



Dimensions in mm

Type	ELS 0–10 V
Ref. no.	40766
Poti supply in V / mA	10 V / 10 mA
Control / Setpoint input in V / A (load)	0–10 V / 0.1 mA
Operating status indication	Open Collector fan On / Off
Voltage/Frequency	1~, 230 V, 50/60 Hz
Connection DN mm	78
Protection type	IP X5
Electrical connection	NYM-0, 6x1.5 mm ²
Weight approx. kg	1.69
Connection to potentiometer according to SS	1544
Connection BMS according to SS	1545
Connection to PU/PA according to SS	1538

EC Wiring diagram ELS NFC..

Type	ELS NFC*
Wiring diag. no.	1543
Electrical supply line mm ²	5 x 1.5

Funktionsbelegung siehe Anleitung
see instructions for function assignment
Affectation des fonctions, voir instructions

* The wiring diagram is valid for all ELS types with NFC technology.

0-10V Wiring diagram ELS 0-10 V

Type	ELS 0-10 V**
Ref. no.	40766
Wiring diag. no.	1544
Electrical supply line mm ²	6 x 1.5

bauseits zu stellen
to be provided on site
à fournir sur place

** Further wiring diagrams can be found in the installation and operating instructions.

AC Wiring diagrams ELS-V..

ELS-V.. Standard

Type	ELS-V 60
Ref. no.	08131
Wiring diag. no.	869
Electrical supply line mm ²	2 x 1.5

2 60 m³/h

Type	ELS-V 100/60/35
Ref. no.	08136
Wiring diag. no.	874
Electrical supply line mm ²	4 x 1.5

a) Reverse voltage! See manual

3 100 m³/h
2 60 m³/h
1 35 m³/h

Type	ELS-V 100
Ref. no.	08132
Wiring diag. no.	870
Electrical supply line mm ²	2 x 1.5

3 100 m³/h

Type	ELS-V 60/35
Ref. no.	08133
Wiring diag. no.	871
Electrical supply line mm ²	3 x 1.5

a) Reverse voltage! See manual

2 60 m³/h
1 35 m³/h

ELS-VP.. with presence detector

Type	ELS-VP 60
Ref. no.	08149
Wiring diag. no.	887
Electrical supply line mm ²	2 x 1.5

d) room lighting

P =
PC =

Type	ELS-VP 100
Ref. no.	08150
Wiring diag. no.	887
Electrical supply line mm ²	2 x 1.5

P =
PC =

ELS-VN(C).. with overrun and adjustable overrun

Type	ELS-VN 60
Ref. no.	08137
Wiring diag. no.	875
Electrical supply line mm ²	3 x 1.5

2 60 m³/h

Type	ELS-VN 60/35
Ref. no.	08139
Wiring diag. no.	877
Electrical supply line mm ²	4 x 1.5

a) Reverse voltage! See manual

2 60 m³/h
1 35 m³/h

Type	ELS-VN 100
Ref. no.	08138
Wiring diag. no.	876
Electrical supply line mm ²	3 x 1.5

3 100 m³/h

ELS-VF.. with automatic humidity control

Type	ELS-VF 60
Ref. no.	08161
Wiring diag. no.	881
Electrical supply line mm ²	3 x 1.5 4 x 1.5*

b) ON manually
c) deactivate automatic

2 60 m³/h

Type	ELS-VF 60/35
Ref. no.	08163
Wiring diag. no.	883
Electrical supply line mm ²	4 x 1.5 5 x 1.5*

a) Reverse voltage! See manual
b) ON manually
c) deactivate automatic

2 60 m³/h
1 35 m³/h

Type	ELS-VF 100/60/35
Ref. no.	08166
Wiring diag. no.	886
Electrical supply line mm ²	5 x 1.5

a) Reverse voltage! See manual
b) ON manually

3 100 m³/h
2 60 m³/h
1 35 m³/h

Type	ELS-VN 100/60
Ref. no.	08141
Wiring diag. no.	879
Electrical supply line mm ²	4 x 1.5

a) Reverse voltage! See manual

3 100 m³/h
2 60 m³/h

Type	ELS-VNC 60
Ref. no.	08143
Wiring diag. no.	881
Electrical supply line mm ²	3 x 1.5 4 x 1.5*

b) ON manually
c) deactivate automatic

2 60 m³/h

Type	ELS-VNC 100
Ref. no.	08144
Wiring diag. no.	882
Electrical supply line mm ²	3 x 1.5 4 x 1.5*

b) ON manually
c) deactivate automatic

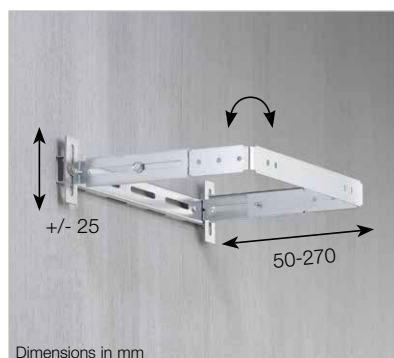
3 100 m³/h

* for deactivating the automatic / interval function

As clever as the entire system: **The housing assembly.**

ELS-MB

For integration into pre-wall systems, the ELS-MB mounting bracket provides the ideal connection between ELS and the system components of the pre-wall system providers. The ELS-MB is easily attached using hexagon-head or square-head screws to the anti-rotation grooves on the rear housing of the ELS.

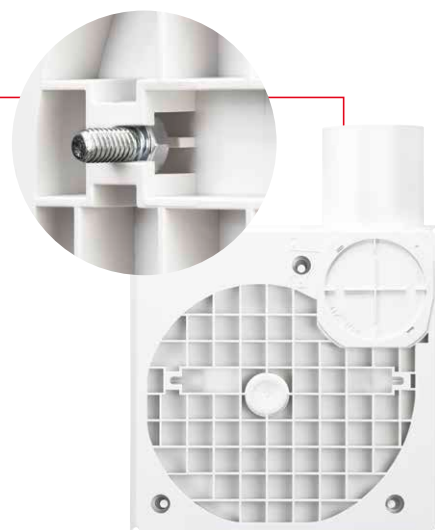


ELS-MHU

With regard to installation in shafts and suspended ceilings, the universal mounting bracket ELS-MHU provides the necessary flexibility. Practical for flush-mounted housing installation in installation shafts, primarily for housings with fire protection encasement. For mounting the housing to the ceiling or wall.

CLEVER PLUG-IN FIXING FOR MOUNTING SCREWS

All flush-mounted housings can be correctly positioned in a few minutes as it is adjustable in height, depth and perpendicular. Anti-rotation grooves for hexagon-head or square-head screws are recessed on the back of housing types ELS-GU and -GUBA. They form the fixing points for the mounting bracket; alternatively, there are two predetermined breaking points for firm screwing to on-site elements.



Tailored to the construction progress: Thanks to sophisticated mounting features and the clever pre-wall adapter ELS-VA, installation in common pre-wall systems becomes a quick and easy task. Everything in one go: If desired, the complete installation of ELS can also be carried out during the final installation phase. The entire installation is completed with just a few simple steps.

PREPARATION



1 The extract air duct and power connection are placed at the later installation position of the ELS unit.



2 The pre-wall cutout is precisely and easily made for installation using the markings on the ELS housing.

INSTALLATION VARIANT: IN CONSTRUCTION



3 The practical pre-wall adapter ELS-VA is now installed. The extract air duct and power supply are connected to the ELS housing. Then, the housing is simply slid into place. The included plaster cover protects against contamination.



4 The desired wall finishing is applied.



5 During the final work in the room, the fan unit is simply slid into place and clicks into position audibly.



6 With just a few steps, the facade cover can be mounted, and the included permanent filter can be inserted.



7 ELS is now ready for operation.

INSTALLATION VARIANT: BEFORE FINAL ACCEPTANCE



3 The desired wall finishing is applied.



4 The flush-mounted housing can now be easily connected to the power supply with the pre-assembled pre-wall adapter and fan unit. It is then slid into the finished wall.



5 The pre-wall adapter is screwed directly onto the wall, ensuring maximum stability.



6 Finally, the facade cover is mounted using the ELS-AGR spacer frame, and the permanent filter is inserted.



7 ELS is now ready for operation.

One housing. All possibilities.

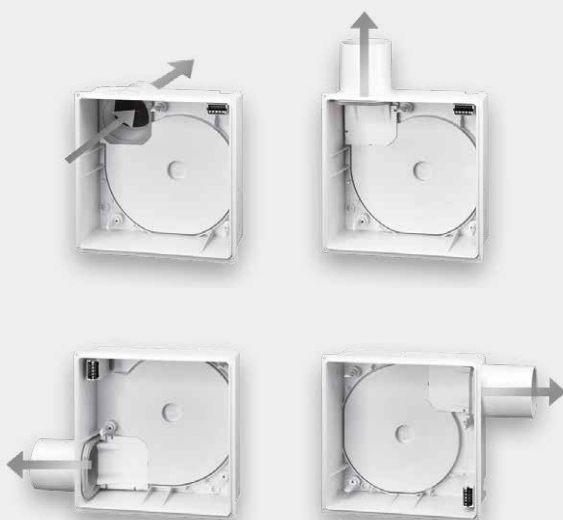
The flush-mounted housing **ELS-GU** is not only pleasantly compact but also incredibly flexible in its application. Whether used for single-room or two-room ventilation, or for WC connection above the drainage pipe – the ELS-GU fits perfectly in any situation. Installation is possible in walls, shafts, pre-walls, or ceilings, with the air outlet optionally positioned at the rear or on top. The housing can also be rotated 90° to the left or right – easily and without tools.

There is only one housing type for every installation method and ventilation requirement. This is not only practical on the construction site but also highly economical for inventory management.

Good to know: Even when fire protection is a consideration, you don't have to sacrifice flexibility. The **ELS-GUBA**, the smart flush-mounted housing with an integrated fire protection shut-off device, offers exactly the same possibilities.

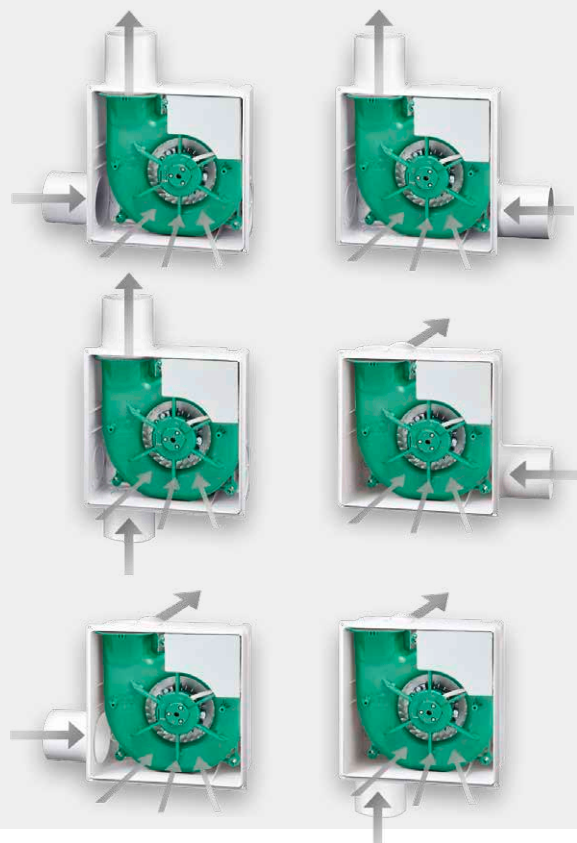
1. SINGLE-ROOM VENTILATION

Air intake via front facade.



2. TWO-ROOM VENTILATION

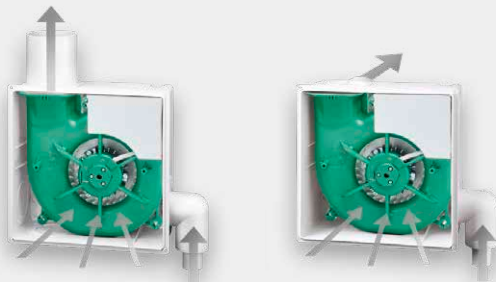
Two-room ventilation with outlet to the top or back.






3. WC CONNECTION

WC connection via the flush pipe, air outlet to the top or back.



JUST AS CLEVER: 

SURFACE-MOUNTED HOUSING

ELS-GAP and ELS-GAPB with fire protection shut-off device can be mounted by rotating the air outlet 360°, allowing the air outlet to be positioned at the top left, top right, bottom left, or bottom right.

MULTITALENT

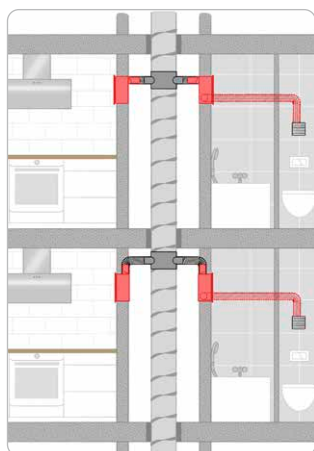
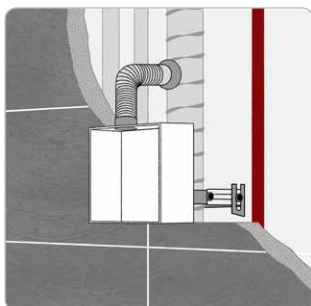


The perfect housing solution for all requirements.

Adapted to the installation location and fire protection requirements, the perfect housing solution is always at the ready. Determine the applicable installation situation using the illustrations and select the corresponding housing in the quick overview. All relevant housing details can be found on the following pages.

A INSIDE F90 SHAFT

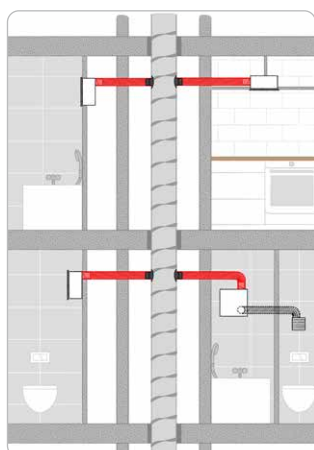
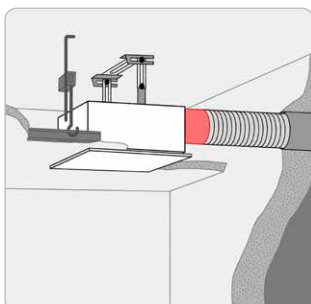
Steel flex or steel pipe only to secondary room connection.



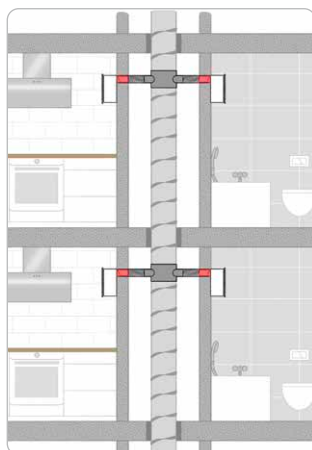
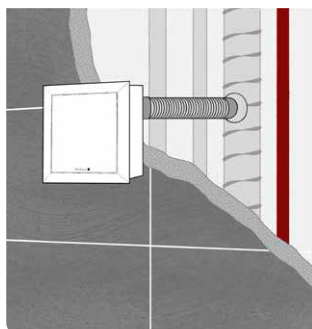
Installation, outlet	Type	Ref. no.
Single room ventilation of bathroom, WC or open-plan kitchens		
Flush-mounted, lateral outlet	ELS-GUB	08112
Flush-mounted, rear outlet	ELS-GUBR	08113
Surface-mounted, rear outlet	–	–
Surface-mounted, lateral outlet	–	–
Two room ventilation of bathroom and WC		
Flush-mounted, lateral outlet	ELS-GUBZL left	08115
	ELS-GUBZR right	08117
Flush-mounted, rear outlet	ELS-GUBRZL left	08116
	ELS-GUBRZR right	08118

B OUTSIDE F90 SHAFT

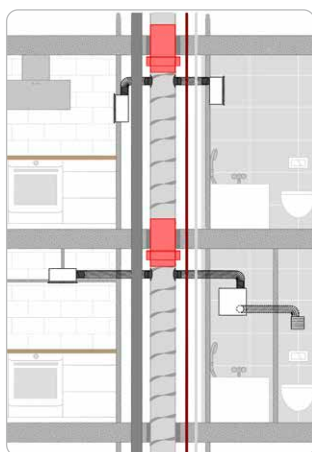
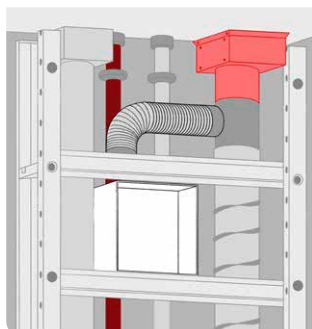
Steel flex or steel pipe to riser pipe.



Installation, outlet	Type	Ref. no.
Single room ventilation of bathroom, WC or open-plan kitchens		
Flush-mounted, lateral outlet	ELS-GUBA	08114
Flush-mounted, rear outlet	ELS-GUBA	08114
	+ accessory ELS-ARS	08185
Surface-mounted, rear outlet	ELS-GAPB	08128
Surface-mounted, lateral outlet	ELS-GUBA	08114
	+ accessory ELS-APASA	07328
Two room ventilation of bathroom and WC		
Flush-mounted, lateral outlet	ELS-GUBA	08114
	ELS-ZS	08186
Flush-mounted, rear outlet	ELS-GUBA	08114
	+ accessory ELS-ARS	08185
	+ accessory ELS-ZS	08186

C ON F90 SHAFT

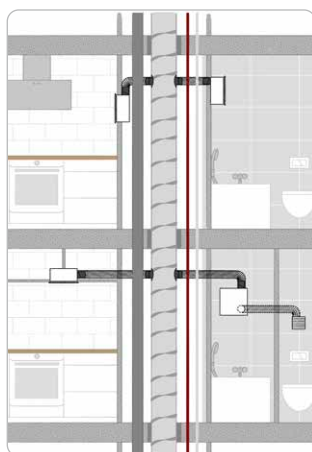
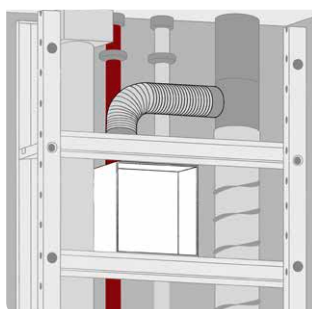
Installation, outlet	Type	Ref. no.
Single room ventilation of bathroom, WC or open-plan kitchens		
Flush-mounted, lateral outlet	–	–
Flush-mounted, rear outlet	–	–
Surface-mounted, rear outlet	ELS-GAPB	08128
Surface-mounted, lateral outlet	–	–
Two room ventilation of bathroom and WC		
Flush-mounted, lateral outlet	–	–
Flush-mounted, rear outlet	–	–

D WITH CEILING BARRIER

Installation, outlet	Type	Ref. no.
Single room ventilation of bathroom, WC or open-plan kitchens		
Flush-mounted, lateral outlet	ELS-GU	08111
Flush-mounted, rear outlet	ELS-GU + accessory ELS-ARS	08111 08185
Surface-mounted, rear outlet	ELS-GAP	08127
Surface-mounted, lateral outlet	ELS-GU + accessory ELS-APASA	08111 07328
Two room ventilation of bathroom and WC		
Flush-mounted, lateral outlet	ELS-GU + accessory ELS-ZS	08111 08186
Flush-mounted, rear outlet	ELS-GU + accessory ELS-ARS + accessory ELS-ZS	08111 08185 08186

E WITHOUT FIRE PROTECTION

For up to 2 full floors.



Installation, outlet	Type	Ref. no.
Single room ventilation of bathroom, WC or open-plan kitchens		
Flush-mounted, lateral outlet	ELS-GU	08111
Flush-mounted, rear outlet	ELS-GU + accessory ELS-ARS	08111 08185
Surface-mounted, rear outlet	ELS-GAP	08127
Surface-mounted, lateral outlet	ELS-GU + accessory ELS-APASA	08111 07328
Two room ventilation of bathroom and WC		
Flush-mounted, lateral outlet	ELS-GU + accessory ELS-ZS	08111 08186
Flush-mounted, rear outlet	ELS-GU + accessory ELS-ARS + accessory ELS-ZS	08111 08185 08186

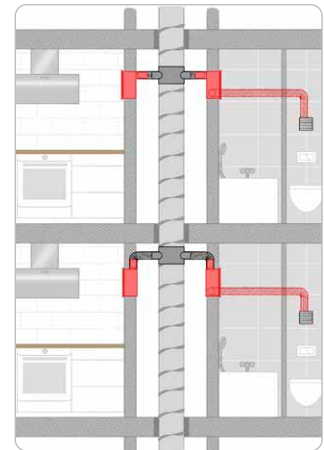
■ Information on fire protection in multi-storey buildings

With regard to the planning and execution of ventilation systems, the State fire protection requirements must be complied with. Buildings with more than two full floors are normally subject to such requirements. In order to prevent the transmission of fire to other fire sections, the illustrated solutions are available according to the structural conditions for the installation of mono tube ventilation systems.


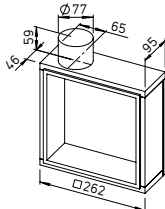

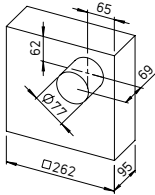
A Flush-mounted installations in wall, ceiling and fire-resistant shaft (F90) or L90 ventilation ducts.

Connection of up to 3 housings per floor possible on more than 20 full floors. The second room connection must be carried out with steel flex pipe connection.


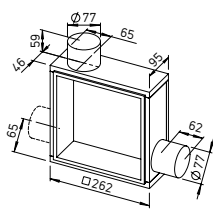

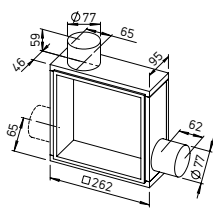

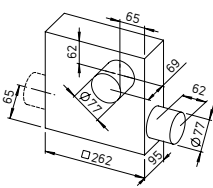
- Flush-mounted housing with fire protection encasement K90
- Metal outlet connections with automatic non-return valve and shut-off upon triggering of fusible link
- Removable plug connector for electrical connection
- Replaceable hinged plaster cover
- Connection DN 80 mm
- General technical approval, Z-51.1-193




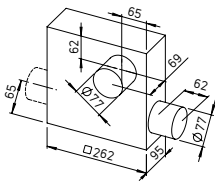
■ Single room ventilation of bathroom, WC or open-plan kitchens

		Type	ELS-GUB
		Ref. no.	08112
		Installation	Flush-mounted
		Outlet	lateral, to top, can be turned to left or right
		Type	ELS-GUBR
		Ref. no.	08113
		Installation	Flush-mounted
		Outlet	rear, freely rotatable by 90°

■ Two room ventilation of bathroom and WC

		Type	ELS-GUBZL
		Ref. no.	08115
		Installation	Flush-mounted
		Outlet	lateral, to top, can be turned to left or right
		Two room connection	left
		Type	ELS-GUBZR
		Ref. no.	08117
		Installation	Flush-mounted
		Outlet	lateral, to top, can be turned to left or right
		Two room connection	right
		Type	ELS-GUBRZL
		Ref. no.	08116
		Installation	Flush-mounted
		Outlet	rear, freely rotatable by 90°
		Two room connection	left

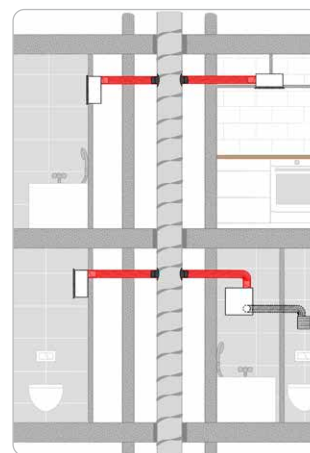
Two room ventilation of bathroom and WC

		Type	ELS-GUBRZR
		Ref. no.	08118
		Installation	Flush-mounted
		Outlet	rear, freely rotatable by 90°
		Two room connection	right

B Flush or surface-mounted installations in wall or ceiling outside of fire-resistant shafts (F90) or L90 ventilation ducts.


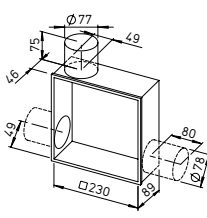
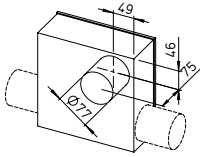

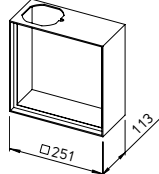

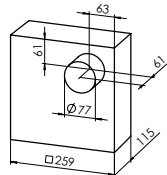
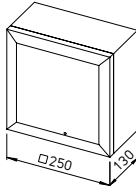
Connection of up to 3 housings per floor possible on more than 20 floors. Steel flex pipe connection to riser pipe.

- Plastic housing with fire protection element K90
- Metal outlet connections with automatic non-return valve and shut-off upon triggering of fusible link
- Made of plastic (white), in fire class B 2
- Replaceable hinged plaster cover
- Connection DN 80 mm
- General technical approval, Z-51.1-193



Single room ventilation of bathroom, WC or open-plan kitchens

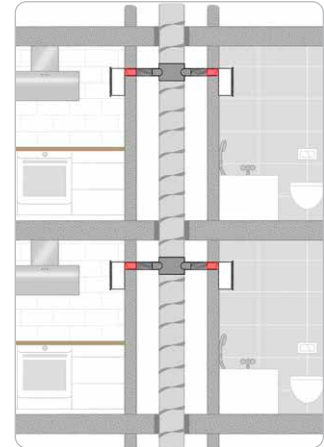
Also for second room ventilation of bathroom and WC using accessory set*

			Type	ELS-GUBA
			Ref. no.	08114
			Installation	Flush-mounted
			Outlet	lateral, to top, can be turned to left or right
			Outlet optional	rear, freely rotatable by 90° ELS-ARS, ref. no. 08185
			*Two room ventilation optional left or right	using ELS-ZS, Ref. no. 08186
			Type	ELS-APASA (+ ELS-GUBA)**
			Ref. no.	07328
			Installation	Surface-mounted
			Outlet	lateral, to top, can be turned to left or right
			**ELS-GUBA (Ref. no. 08114) is not included in the scope of delivery.	
			Type	ELS-GAPB
			Ref. no.	08128
			Installation	Surface-mounted
			Outlet	rear, freely rotatable by 90°
		ELS surface-mounted unit		

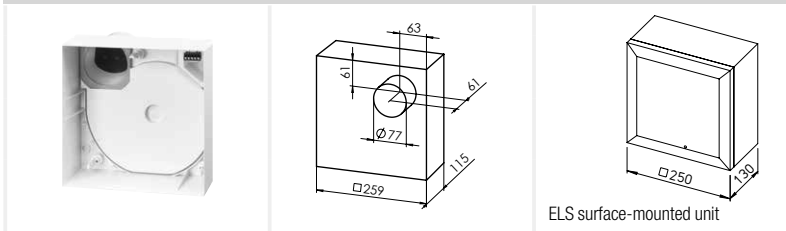
C Surface-mounted installation in wall or ceiling on walls of fire-resistant shafts (F90) or ventilation ducts (L90).

Connection of up to 3 housings per floor possible on more than 20 floors.

- Surface mounting housing with fire protection element K90
- Metal outlet connections with automatic non-return valve and shut-off upon triggering of fusible link
- Plug connector for electrical connection
- Made of plastic (white), in fire class B 2
- Connection Ø air outlet DN 80 mm
- General technical approval, Z-51.1-193



■ Single room ventilation of bathroom, WC or open-plan kitchens



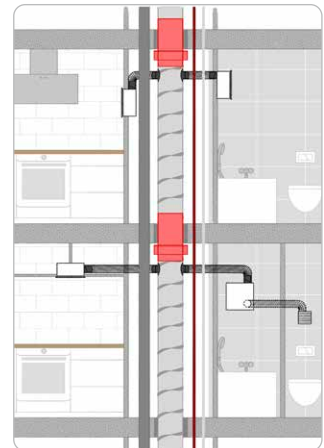
ELS surface-mounted unit

Type	ELS-GAPB
Ref. no.	08128
Installation	Surface-mounted
Outlet	rear, freely rotatable by 90°

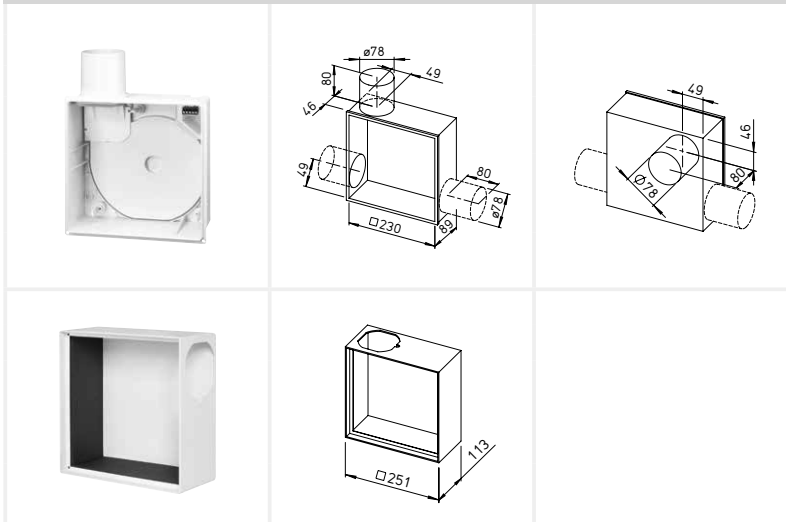
D Flush or surface-mounted installation in wall, ceiling or in installation shaft with fire protection solution ELS-D ceiling barrier.

Connection of up to 3 housings per floor possible. For more than 20 floors when using fire protection ceiling barrier in the riser pipe.

- Applicable housings: Universal housing without fire protection ELS-GU for flush-mounting or ELS-GAP or ELS-APASA in connection with ELS-GU for surface-mounting
- Housing without fire protection, with airtight non-return valve
- Removable plug connector for electrical connection
- Made of plastic (white), in fire class B 2
- Connection DN 80 mm
- General technical approval, Z-51.1-193


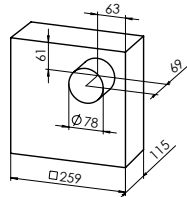
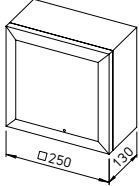


■ Flush or surface-mounted installation. Single room ventilation of bathroom, WC or open-plan kitchens
Also for second room ventilation of bathroom and WC using accessory set*



Type	ELS-GU
Ref. no.	08111
Installation	Flush-mounted
Outlet	lateral, to top, can be turned to left or right
Outlet optional	rear, freely rotatable by 90° ELS-ARS, ref. no. 08185
*Two room ventilation optional left or right using ELS-ZS, Ref. no. 08186	
Type	ELS-APASA (+ ELS-GU)**
Ref. no.	07328
Installation	Surface-mounted
Outlet	lateral, to top, can be turned to left or right
**ELS-GU (Ref. no. 08111) is not included in the scope of delivery.	

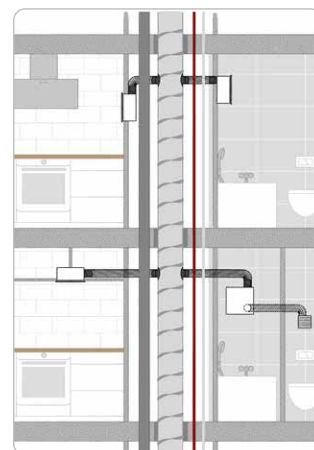
■ Surface-mounting. Single room ventilation of bathroom, WC or open-plan kitchens

			Type	ELS-GAP
		ELS surface-mounted unit	Ref. no.	08127
			Installation	Surface-mounted
			Outlet	rear, freely rotatable by 90°

■ Flush or surface-mounted installations in wall, ceiling or in installation shaft without fire protection.


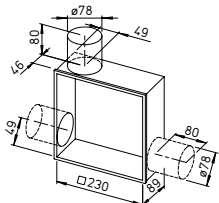
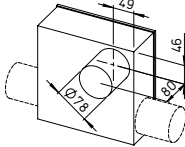
Connection of up to 3 housings per floor possible. For connection to shared riser pipe of up to two full floors.

- Applicable housings: Universal housing without fire protection ELS-GU for flush-mounting or ELS-GAP or ELS-APASA in connection with ELS-GU for surface-mounting
- Housing without fire protection, with airtight non-return valve
- Removable plug connector for electrical connection
- Made of plastic (white), in fire class B 2
- Connection DN 80 mm
- General technical approval, Z-51.1-193


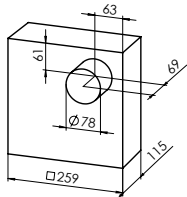
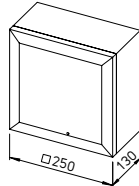

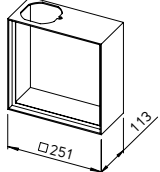


■ Flush-mounting. Single room ventilation of bathroom, WC or open-plan kitchens

Also for second room ventilation of bathroom and WC using accessory set*

			Type	ELS-GU
			Ref. no.	08111
			Installation	Flush-mounted
			Outlet	lateral, to top, can be turned to left or right
			Outlet optional	rear, freely rotatable by 90° ELS-ARS, ref. no. 08185
			*Two room ventilation optional left or right	using ELS-ZS, Ref. no. 08186

■ Surface-mounting. Single room ventilation of bathroom, WC or open-plan kitchens

			Type	ELS-GAP
		ELS surface-mounted unit	Ref. no.	08127
			Installation	Surface-mounted
			Outlet	rear, freely rotatable by 90°
			Type	ELS-APASA (+ ELS-GU)**
			Ref. no.	07328
			Installation	Surface-mounted
			Outlet	lateral, to top, can be turned to left or right
			**ELS-GU (Ref. no. 08111) is not included in the scope of delivery.	

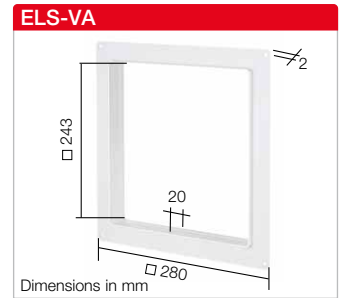
Adaptation kit Rear outlet

ELS-ARS Ref. no. 08185
The air outlet connections can be placed on the back of the unit for the flush-mounted housings ELS-GU and -GUBA without fire protection encasement. The ARS diverter must simply be mounted on the outlet side in the fan for the correct air flow.



Pre-wall adapter

ELS-VA Ref. no. 08189
Allows the front-side insertion and mounting of flush-mounted ELS housings in pre-walls. The adapter is screwed to the housing and its frame with Spax screws or pre-wall screws.



Second room kit

ELS-ZS Ref. no. 08186
Extract air unit for flush-mounted installation for connection to all housings for second room connection ELS-GU. Award-winning design facade in alpine white, with closed front and all-round air inflow. Integrated, easily accessible air filter. Includes second room connectors for fan housings ELS-GU and -GUBA.



WC connection kit

ELS-WCS Ref. no. 08191
Kit for connecting WC extraction in combination with the room ventilation; for housing types ELS-GU, -GUBA. The fan housing and cistern pipe are connected with commercially available HT pipes. Scope of delivery: Connecting panel, 90° angle, 2 stepped connectors Ø 40 and 30 mm.



Surface-mounted adapter with side inlet

ELS-APASA Ref. no. 07328
Made of steel sheet in alpine white. Insulated adapter with side inlet for surface mounted installation. Compatible with housing types ELS-GU and ELS-GUBA.



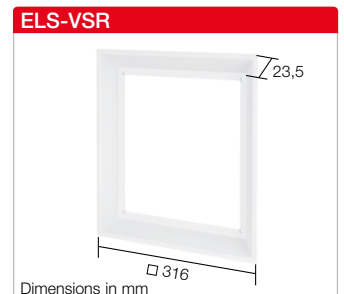
Second room connectors

ELS-ZAS Ref. no. 08184
Connectors for housing types ELS-GU and -GUBA. For the connection of second room extraction on site. NW 75/80 mm.



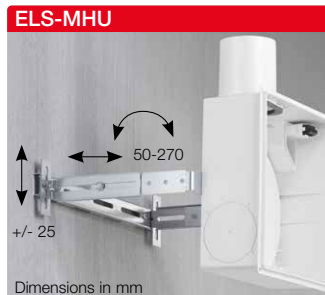
Sunken frame

ELS-VSR Ref. no. 07322
Made of steel sheet in alpine white. Allows flush-mounted wall and ceiling installation of inner facade. Suitable for ELS-GU and ELS-GUBA.



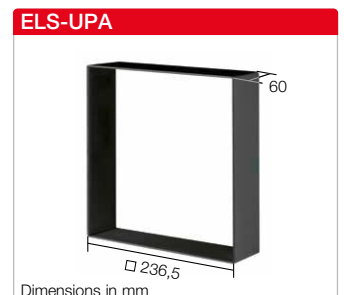
Universal mounting bracket

ELS-MHU Ref. no. 08187
Practical for flush-mounted housing installation in installation shafts, primarily for housings with fire protection encasement. For mounting the housing to the ceiling or wall. Adjustable in height, depth and perpendicular; fits with all flush-mounted housing types.



Flush-mounted spacer frame

ELS-UPA Ref. no. 07332
Used when ELS-GU and ELS-GUBA are installed too deep. This closes the gap (max. 50 mm) between the housing and panelling.



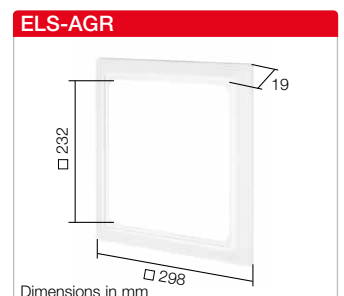
Mounting bracket

ELS-MB Ref. no. 08188
For mounting flush-mounted housings in pre-wall systems in connection with elements from the pre-wall supplier. The mounting bracket is easily mounted to the back of the ELS housing using hexagon-head and square-head screws in the anti-rotation grooves.



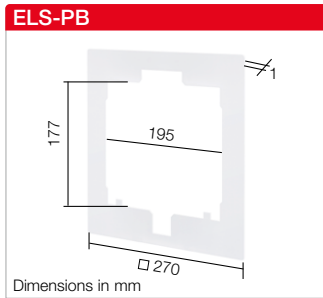
Space frame

ELS-AGR Ref. no. 08193
Covers up to 15 mm of protruding flush-mounted housing, which has not been installed flush with the plaster or tiles. The spacer frame is simply fixed between the wall/ceiling and ELS inner facade.



Plaster cover

ELS-PB Ref. no. 08194
For covering gaps in case of housing cut-outs which have been uncleanly plastered, tiled or if they are too large, which cannot be completely covered by the ELS inner facade.
The plaster cover is simply fixed between the wall/ceiling and ELS inner facade.


Spare air filter made of renewable synthetic fibre

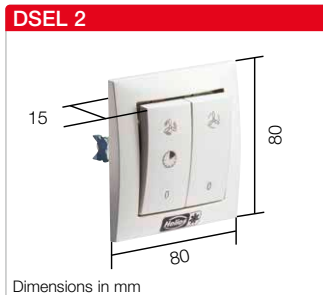
ELF-ELS Ref. no. 08190
Permanent filter for fan units, suitable for cleaning in dishwasher. Class ISO Coarse 50% (G3).
Unit = 2 pcs.



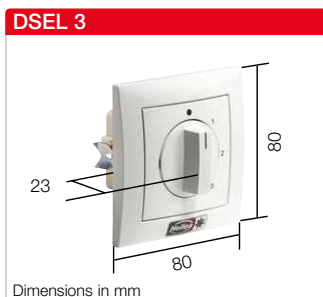
ELF-DLV 100 Ref. no. 03042
For second room intake unit ELS-ZS. Class ISO Coarse 30% (G2).
Unit = 5 pcs.



Speed and operating switch DSEL 2 Ref. no. 01306
Reversible or speed control and on-off rocker switch, can be used to change the speed of fans with two performance levels. Front made of white plastic.
For installation in 55 flush-mounted box. Protection type IP30, 230 V, 50/60 Hz, I max. 3 A inductive.



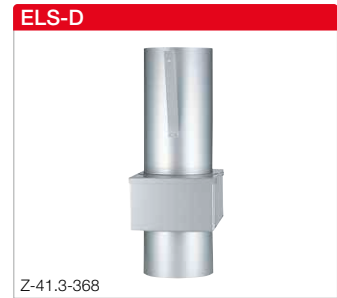
Speed and operating switch DSEL 3 Ref. no. 01611
Rotary switch with 0 position for controlling fans with 3 speeds. Room light cannot be switched in parallel. Front made of white plastic.
For installation in 55 flush-mounted box. Protection type IP30, 230 V, 50/60 Hz, I max., 3 A inductive.



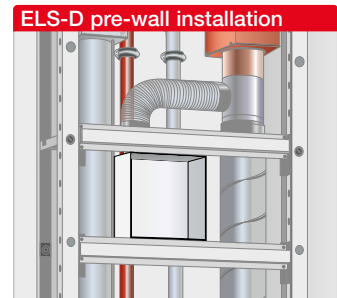
Speed potentiometer for ELS 0-10 V
With the functions On/Off, stepless speed control.
PU 10 Ref. no. 01734
For flush-mounted installation. Installation in standard flush-mounted box
Dim. mm W 80 x H 80 x D 21 protrus.
PA 10 Ref. no. 01735
For surface-mounted installation. Installation Surface-mounted installation
Dim. mm W 80 x H 80 x D 65



Fire protection ceiling barrier
When using this shut-off device, no fire resistance classification is required for any other components. The universally applicable housing types ELS-GU (flush-mounted) and -GAP (surface-mounted) can be connected. Branch and connection lines are implemented cost-effectively and installation-friendly in aluminium flexible tubing.



Type	Ref. no.	Riser pipe
ELS-D 100	00270	100 mm
ELS-D 125	00185	125 mm
ELS-D 140	00186	140 mm
ELS-D 160	00187	160 mm
ELS-D 180	00188	180 mm
ELS-D 200	00271	200 mm



Replacement facade panel
Facade panel including frame and inner facade in black. Filter and screws are not included.

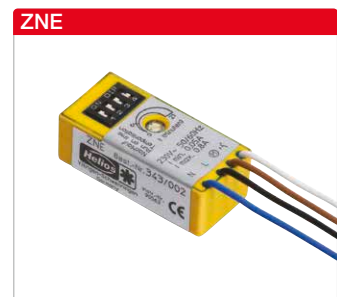
Type	Version	Ref. no.
ELS-FB black	For standard types and ELS 0-10 V	40774
ELS-FB-F black	For types with automatic humidity control	40775
ELS-FB-P black	For types with presence detector	40776



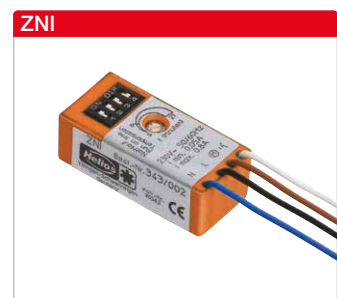
Electronic overrun timer for ELS V.. ZV Ref. no. 01279
Overrun timer with continuously variable times and permanent mode setting. Parallel switching of light and fan possible via on/off switch or button. Protection type IP20, 230 V, 50/60 Hz, I max. 2.1 A (ind.). DIN rail mounting in distribution box (35 mm).
Dim. in mm: W 18 x H 83 x D 67



Overrun timer for ELS V.. ZNE Ref. no. 00342
With continuously variable overrun times from 0 to 21 min. Startup delay (45 sec.), optional activation. Activation via on/off switch, e.g. together with light. Miniature construction with minimum dimensions. For installation in flush-mounted box behind switch. 230 V, I max. 0.8 A (ind.), I min. 0.05 A. IP40.



Overrun timer for ELS V.. ZNI Ref. no. 00343
Automatic ventilation in adjustable time intervals (4, 8, 12 or 24 hrs), provided there is no manual activation within the time phase. In case of manual activation (e.g. activation via light switch), there will be an overrun between 0 and 21 minutes, continuously variable. For installation in flush-mounted box behind switch. 230 V, I min. 0.05 A, I max 0.8 A (ind.). IP40.



Outside air inflow elements –
Installation in window frames

Outside air inflow element
30 m³/h
ALEF 30 Ref. no. 02100
Outside air inflow element
45 m³/h
ALEF 45 Ref. no. 02101
With flow rate control and limiter.



Outside air inflow elements –
Installation in window frames

Outside air inflow element
30 m³/h
ALEFS 30 Ref. no. 02102
Outside air inflow element
45 m³/h
ALEFS 45 Ref. no. 02103
With flow rate control and limiter.
With integrated sound insulation.



Outside air inflow element
5/45 m³/h
ALEF 5/45 Hygro No. 02056
Humidity-controlled, with flow rate
control and limiter.



Outside air inflow element
5/45 m³/h
ALEFS 5/45 Hygro No. 02057
Humidity-controlled, with flow rate
control and limiter. With integrated
sound insulation.



Overflow

Door ventilation grille white
LTGW Ref. no. 00246
Door ventilation grille brown
LTGB Ref. no. 00247
Discreet, sight-screening ventilation
grille made of durable plastic for
installation in in door panel.



Outside air inflow element –
Installation in wall openings

Automatic supply air element

Type	Ref. no.	Ø
ZLA 80	00214	Ø 80
ZLA 100	00215	Ø 100
ZLA 160	00216	Ø 160

Automatically temperature-controlled
including thermostat supply valve,
sound insulation and external grille.



Thermostat supply valve

Type	Ref. no.	Ø
ZTV 80	00078	80
ZTV 100	00073	100
ZTV 160	00074	160

For installation in existing ventilation
openings.



Outside air inflow element –
Installation in wall openings

Auto. supply air element Ø 100
ZLE 100 Ref. no. 00079
Manual controllable in four levels
including supply valve with draw-
cord, sound insulation and external
grille.



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ZLA 125

Always fits perfectly – the quiet automatic supply air element

The ZLA 125 automatic supply air elements ensure perfect distribution of supply air, which flows into the interior filtered (ISO Coarse 30%) and sound-insulated. The ZLA 125 consists of an inner panel, the installation kit and the facade panel, and fits all types of walls without requiring an electrical connection. It is available with two airflow constant options (22 m³/h and 30 m³/h) as well as one humidity-controlled option (6 – 45 m³/h) for the inner panel.

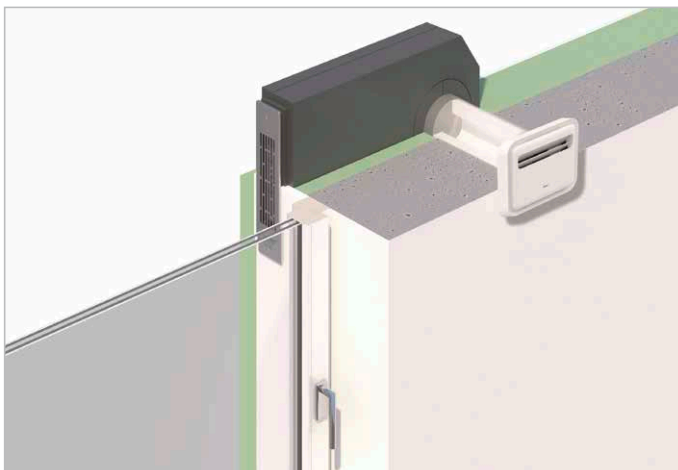


- High sound insulation due to built-in sound-proofing elements (up to 56 dB standard sound pressure level difference)
- Humidity-controlled (with ZLA 125 IB HY) or constant supply airflow (with ZLA 125 IB 22 + 30)
- Particularly installation-friendly with retractable plastic telescopic tube for wall thicknesses from 260 to 500 mm
- Completely operating cost-free

ZLA LE IN THE WINDOW SOFFIT

Practically invisible – the soffit element for ZLA

The soffit element ZLA LE diverts the supply air inside the thermal insulation system by 90° in the window soffit. The highlight: No components can be seen on the outer facade, apart from the grille in the window bar. ZLA LE can be used for duct diameters 100 and 125 mm and it can be individually configured: Select the wall grille that meets your requirements and the desired inner panel in addition to the installation kit.



- The perfect complement for the ZLA 100 and ZLA 125 automatic supply air elements
- Various expansion options for individual comfort: sound insulation up to 65 dB standard sound pressure level difference, insect protection and airflow stabilisation

FOR MORE INFORMATION, VISIT

HELIOSVENTILATOREN.DE/ZLA

ELS and KWL EcoVent Verso: Smart system solution for residential construction.

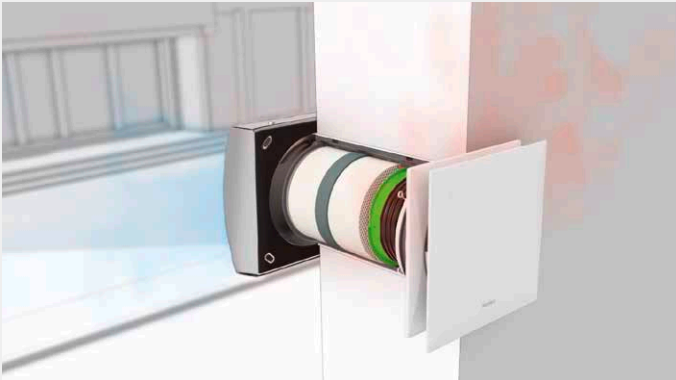
The dream team for **decentralised domestic ventilation with heat recovery**. KWL EcoVent Verso offers state-of-the-art residential ventilation with heat recovery – efficient, space-saving and flexible. Perfect for both new builds and renovations, it optimises indoor air quality while reducing energy consumption. Thanks to its reversible operation, the ceramic heat exchanger stores warmth from the exhaust air and transfers it to the incoming fresh air – ensuring pleasantly preheated rooms. The system operates in a synchronised cycle with at least two units and can be expanded based on air demand. The intelligent control system ensures precise flow rate coordination, even with an odd number of units.

Especially efficient: The combination with extract air fans, such as the ELS NFC. KWL EcoVent Verso can switch to pure supply air mode when connected to an extension module, activating as soon as the extract air fan is in operation. This eliminates the need for external air vents, as EcoVent Verso ensures the optimal amount of fresh air flows into the space.



▶ **PLAY VIDEO**





HIGHLIGHTS:

- Compact dimensions for external wall installation with minimal space requirements.
- Heat recovery efficiency of up to 88% (according to the latest DIBt test procedure).
- Convenient control, compatible with extract air systems for combined ventilation operation.
- Easy commissioning by connecting the control unit to a PC or laptop.
- Multiple award-winning design, perfectly matching Helios extract air solutions ELS and MiniVent M1.

System example: 1-room apartment



LEGEND



Unit
KWL EC 45-160



Control set
KWL 45 STS-UP



Extract air fan
ELS NFC



Extensions module
KWL 45 EM



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No ventilation without rules.

Domestic ventilation is neither arbitrary nor voluntary – there are clear rules and regulations. Two standards define the essential requirements in Germany: DIN 18017-3 and DIN 1946-6.

DIN 1946-6

The German Standard DIN 1946-6 applies to the ventilation of entire residential units (only for residential buildings) and ensures that a defined minimum air exchange – particularly for moisture protection – is permanently maintained, independent of user behaviour.

Areas of application:

- Apartments (including those in mixed-use buildings).
- Single- and multi-family homes.
- Applies exclusively to uniformly used units primarily serving residential purposes, including retirement and nursing homes.

DIN 18017-3

The German Standard DIN 18017-3 regulates the ventilation of interior rooms in residential units, hotels, and other buildings. It mandates mechanical ventilation to remove moisture and odours.

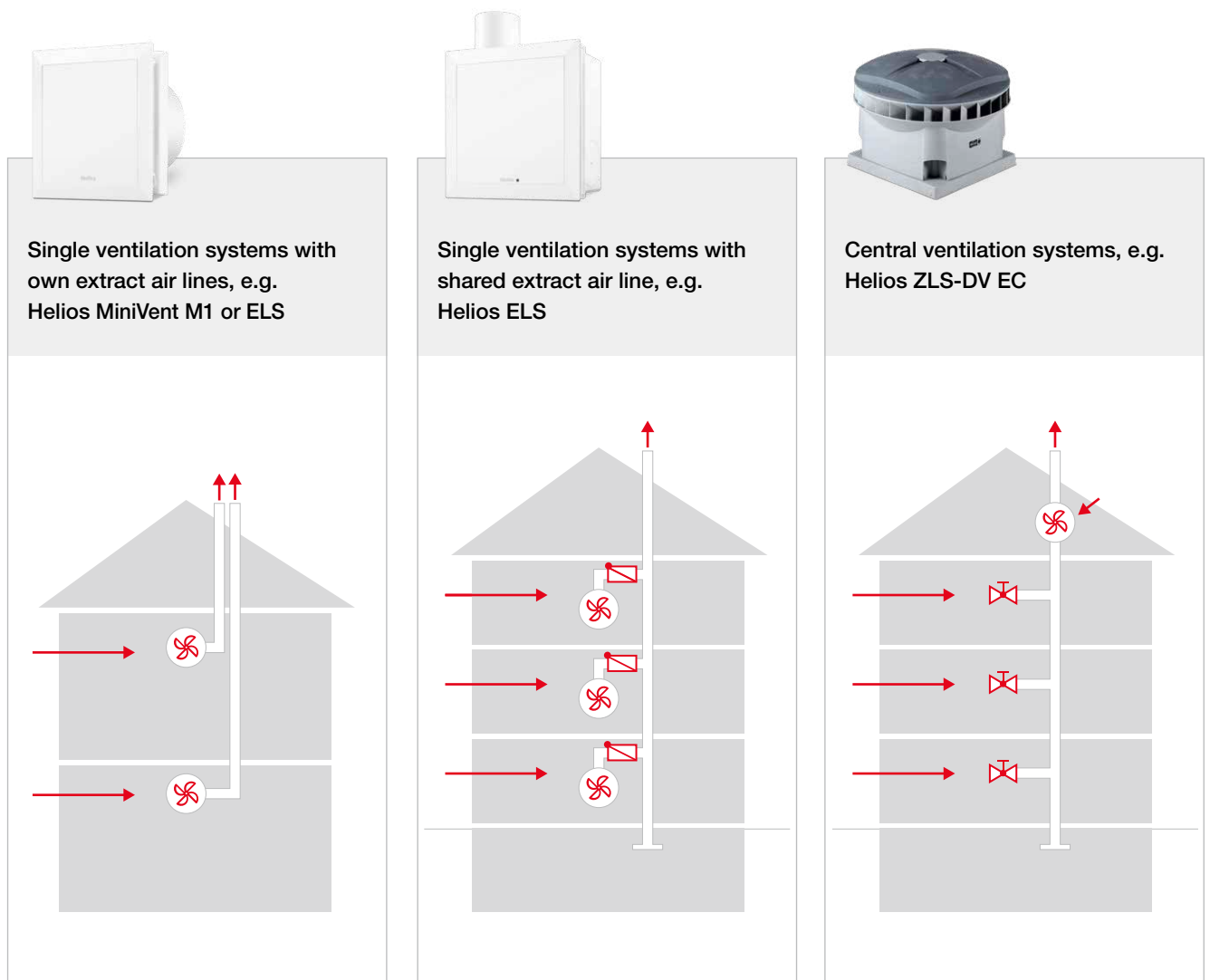
Areas of application:

- Internal bathrooms and toilets (without windows).
- Kitchens and kitchenettes (with windows), storage rooms, etc.
- Internal sanitary rooms and kitchenettes in multi-story office buildings.

↓ ↓ ↓

Tip: Plan your Helios ELS system in accordance with standards – conveniently, efficiently and safely with the practical online tool [KWLeasyPlan.de](https://www.kwleasyplan.de).

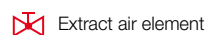
A DISTINCTION IS MADE BETWEEN THESE SYSTEMS:



- Often used in applications with up to two full floors.
- Without fire protection requirements.

- Usually used for more than two full floors.
- Realisation of different fire protection concepts.
- Planning and cost advantages due to the shared riser pipe.

- Central ventilation systems are divided into systems with central, whereby the flow rate can be adjusted in the individual residential units.
- Central extract air fan at the end of the shared riser pipe.



Ventilation and hygienic requirements.

EXTRACT AIR FLOW RATES

■ Planned minimum flow rates according to German standard DIN 18017-3

- Bathrooms, toilets, kitchens, and storage rooms can be designed for planned flow rates of **40 m³/h** or **60 m³/h**, depending on the design and mode of operation.
- For **WCs**, the planned flow rates can be **halved** under certain conditions.

The table displays example configurations of flow rate and runtime, which are compliant with German standard DIN 18017-3.

In accordance with DIN 18017-3, the flow rate may be reduced to 0 m³/h in times of low air requirement, provided the building complies with the heat insulation standard of the Heat Insulation Ordinance of 1995 or better.

Flow rate		without use			during use		
Planned in m ³ /h	Runtime in hrs	Reduced in m ³ /h	Runtime in hrs	Comment	Planned in m ³ /h	Overrun in min.	Comment
Bathroom and WC							
40	24	–	–		40	–	
40	min. 12	20	max. 12		40	–	
40	–	15	24	Can be continuously adjusted between 40 and 15 m ³ /h depending on humidity; continuous operation with sensor	40	–	
60	–	15	24	Continuous operation	60	–	
60	–	E.g. 30	12	Interval averaged over 24 hours = 15 m ³ /h. Max. interval 1 h (fan OFF)	60	–	
60	–	0	–	Presence sensor + overrun or without sensor with light switch + overrun	60	15	at 60 m ³ /h ± 1 m ³ /min. ± 15 min.
WC							
20	24	–	–		20	–	
20	min. 12	10	max. 12		20	–	
20	24	7,5	24	Continuous operation with sensor e.g. odour sensor	20	–	Sensor operation e.g. odour sensor
30	–	7,5	24	Continuous operation	30	–	
30	–	15	12	Interval averaged over 24 hours = 7,5 m ³ /h. Max. interval 1 h (fan OFF)			
30	–	0	–	Presence sensor + overrun	30	15	at 30 m ³ /h ± 0,5 m ³ /min. ± 15 min.

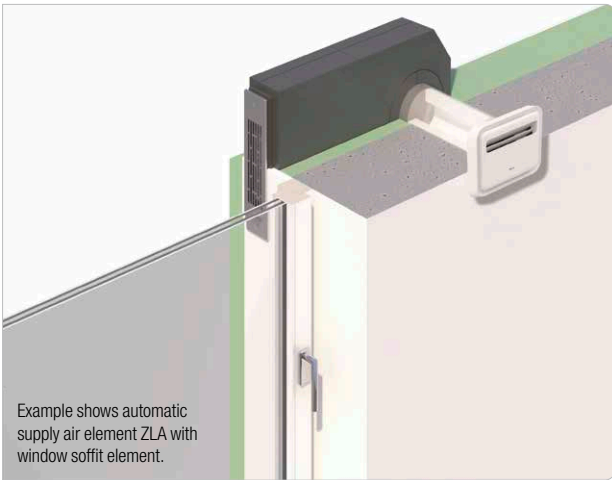
Room*	Total extract air flow rates in m ³ /h according to nominal ventilation
Utility room Basement room (e.g. hobby room) WC	20
Kitchen Kitchenette Bathroom with/without WC Shower room	40
Sauna or fitness room	40**

■ Total extract air flow rates according to nominal ventilation as per German standard DIN 1946-6

- In fan-assisted ventilation systems, the extract air flow rates must at least match the reduced or nominal ventilation values (as indicated on the left). A temporary reduction in ventilation for moisture protection is energy-efficient. The extract air flow rates should be determined based on room usage and the operating duration of the ventilation system.

* Other rooms, such as storage rooms, dressing rooms, or utility rooms, can also be included as extract air rooms in the ventilation concept, taking into account the planning conditions (anticipated moisture load).

** The flow rate can alternatively be determined based on the expected moisture load, considering building protection aspects.

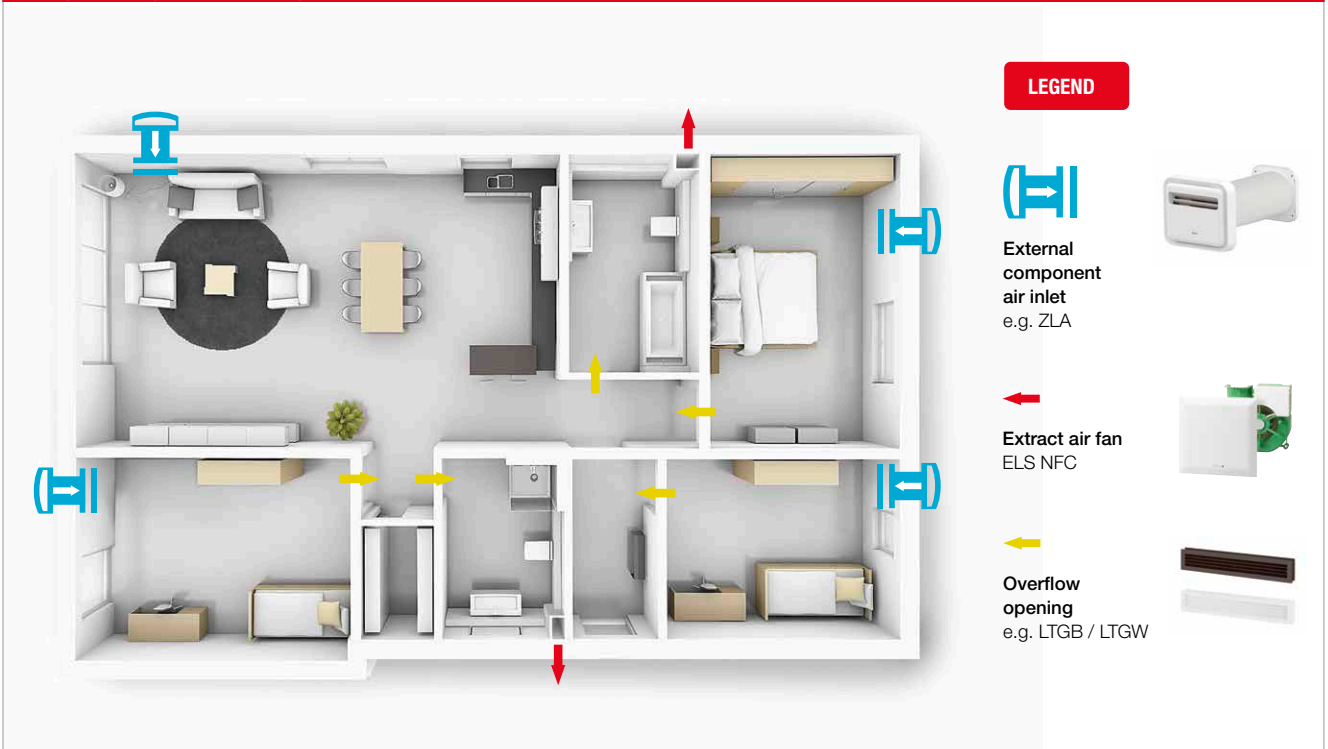


OUTSIDE AIR INTAKE

■ Intake of outside air (supply air flow).

For the extract air flow, an appropriate supply air intake must be ensured. Suitable outside air vents in living and recreation rooms, as well as overflow openings to sanitary rooms, meet these requirements. The airflow is calculated according to DIN 1946-6, considering infiltration influences. Non-closing overflow openings ensure the air flow to the extract air zones, with the number and size depending on their flow rate. Ventilation measures according to DIN 1946-6 must ensure the flow rates for moisture protection permanently and independently of the user.

Example floor plan: 4-room apartment



With regard to system design according to DIN 18017-3, the flow rate for moisture protection pursuant to DIN 1946-6 must always be ensured.

Solution: A fan with two performance levels individually ensures that the two standards are always taken into account according to specific requirements.



Your benefit: The mono tube ventilation systems ELS NFC cover every flow rate required by the standards DIN 1946-6 and DIN 18017-3. All models are equipped as standard with 3 performance levels, as well as 2 additional ventilation levels for basic ventilation and interval operation, including startup delay and overrun, and can be configured via the ELS App.



Tip: ELS NFC is also available with convenient automatic functions. Through presence detectors, automatic humidity control, as well as CO₂ and VOC sensors, demand-controlled ventilation according to DIN 18017-3 can be automatically activated without user intervention.

Easily determine the
riser pipe diameter.



40 m³/h Bathroom or WC

With a design flow rate of 40 m³/h per unit and simultaneous operation of all units.

A up to 5 m/s

One unit per floor	Two units per floor
Number of floors	Number of floors
40	24
38	19
31	15
24	12
19	9
15	7
12	6
9	5
7	4
6	3
3	1

Riser pipe diameter

B up to 7 m/s

One unit per floor	Two units per floor
Number of floors	Number of floors
—	33
—	26
40	21
32	17
27	13
21	10
17	8
14	7
10	5
8	4
5	2

Riser pipe diameter

C up to 11 m/s

One unit per floor	Two units per floor
Number of floors	Number of floors
—	40
—	32
—	26
40	21
33	17
27	13
21	10
16	8
13	6
8	4

Riser pipe diameter

A Increased comfort zone up to 5 m/s in riser pipe

with simultaneous operation of all units. The increase in noise level due to the constant flow rate control is very low up to this operating point.

B Comfort zone up to 7 m/s in riser pipe

with simultaneous operation of all units. The increase in noise level due to the constant flow rate control is in the comfort zone up to this operating point.

C Max. permitted design pressure up to 11 m/s in riser pipe

with simultaneous operation of all units. The main line dimensioning pursuant to building approval is allowed up to this operating point.

Note: Building law examination and compliance with building law requirements required.

If additional pipe components or roof penetrations are used, there may be deviations from the number of floors shown.

60 m³/h Bathroom or WC

With a design flow rate of 60 m³/h per unit and simultaneous operation of all units.

A up to 5 m/s

One unit per floor	Two units per floor
Number of floors	Number of floors
31	15
25	12
20	10
16	8
13	6
10	5
8	4
6	3
5	2
4	2
1	1

Riser pipe diameter

B up to 7 m/s

One unit per floor	Two units per floor
Number of floors	Number of floors
40	21
34	17
27	14
22	11
18	9
14	7
11	5
9	4
7	3
5	2
3	1

Riser pipe diameter

C up to 11 m/s

One unit per floor	Two units per floor
Number of floors	Number of floors
—	34
—	27
40	22
35	17
27	14
21	11
18	9
14	7
11	6
9	4
5	3

Riser pipe diameter

A Increased comfort zone up to 5 m/s in riser pipe

with simultaneous operation of all units. The increase in noise level due to the constant flow rate control is very low up to this operating point.

B Comfort zone up to 7 m/s in riser pipe

with simultaneous operation of all units. The increase in noise level due to the constant flow rate control is in the comfort zone up to this operating point.

C Max. permitted design pressure up to 11 m/s in riser pipe

with simultaneous operation of all units. The main line dimensioning pursuant to building approval is allowed up to this operating point.

Note: Building law examination and compliance with building law requirements required. If additional pipe components or roof penetrations are used, there may be deviations from the number of floors shown.

100 m³/h Bathroom or WC

With a design flow rate of 100 m³/h per unit and simultaneous operation of all units.
(Airflow e.g. kitchen = 100 m³/h. With two-room ventilation via 1 unit = Bathroom 60 m³/h, WC 40 m³/h)

A up to 5 m/s

One unit per floor	Two units per floor
Number of floors	Number of floors
18	9
15	7
11	6
9	4
7	3
6	3
5	2
3	2
3	2
2	1
1	1

Riser pipe diameter

B up to 7 m/s

One unit per floor	Two units per floor
Number of floors	Number of floors
25	12
20	10
16	8
13	6
10	5
8	4
6	3
5	2
4	2
3	1
2	1

Riser pipe diameter

C up to 11 m/s

One unit per floor	Two units per floor
Number of floors	Number of floors
29	17
24	14
20	11
16	9
13	8
10	6
8	5
6	4
5	3
4	2
2	1

Riser pipe diameter

A Increased comfort zone up to 5 m/s in riser pipe

with simultaneous operation of all units. The increase in noise level due to the constant flow rate control is very low up to this operating point.

B Comfort zone up to 7 m/s in riser pipe

with simultaneous operation of all units. The increase in noise level due to the constant flow rate control is in the comfort zone up to this operating point.

C Max. permitted design pressure up to 11 m/s in riser pipe

with simultaneous operation of all units. The main line dimensioning pursuant to building approval is allowed up to this operating point.

Note: Building law examination and compliance with building law requirements required.
If additional pipe components or roof penetrations are used, there may be deviations from the number of floors shown.

FAQS – your questions easily explained.



A | FREQUENTLY ASKED QUESTIONS ABOUT NFC TECHNOLOGY

A1 | Can I use ELS NFC if my smartphone does not support NFC?

Yes, ELS NFC can be used without an NFC-enabled smartphone. In this case, the unit operates with the pre-set factory settings. Adjustments can be made at any time. In principle, nearly all modern smartphones are equipped with an NFC interface.

A2 | How do I establish a connection?

Open the App and initiate the connection. Hold your smartphone close to the contact point of the ELS. The configuration data will then be loaded. Then remove the smartphone, make the desired changes, and hold the smartphone near the NFC point again to start the transfer.

A3 | Can ELS be controlled via the NFC interface?

The NFC interface is used solely for parameterising the ELS via the App. Important: The setting of the flow rates must be carried out by a qualified professional, as compliance with DIN standards is essential.

B | FREQUENTLY ASKED QUESTIONS ABOUT THE FAN UNITS

B1 | Can special settings be ordered pre-configured from the factory?

The programming is carried out by the customer via the ELS App and cannot be pre-ordered.

B2 | Is ELS NFC compatible with existing housing types?

Yes, ELS NFC fits all available housings.

B3 | Does the unit have an LED display for fault and operating statuses (even without NFC)?

Yes, more information can be found in the installation and operating instructions.



C | FREQUENTLY ASKED QUESTIONS ABOUT THE APP AND FUNCTIONALITY

C1 | How can I save and share configurations I have created?

Saved projects can be stored in the App library and, for example, shared via email with others. To read the saved data, the ELS App must be installed.

C2 | Is there a factory reset?

In the App library, under 'Helios Templates,' you will find the factory settings for each ELS NFC unit type. These settings can be transferred to a unit of the same type at any time via the App.

C3 | Can the set values of ELS-NFC be retrieved?

With each new connection, the current values are displayed, which can then be adjusted. However, changing the settings is only permitted by an authorised specialist.

C4 | Can I operate ELS NFC in single-stage, two-stage or three-stage mode?

Yes, the stage configuration is freely selectable.

C5 | What changes when setting the dehumidification mode to 'Comfort' and 'Intensive'?

There are two dehumidification modes available: Comfort and Intensive.

Comfort Mode: When the threshold value is exceeded, the flow rate is adjusted proportionally to the humidity level. This allows for energy-efficient and quiet dehumidification.

Intensive Mode: Once the threshold is exceeded, the fan switches directly to the maximum flow rate to quickly reduce humidity. The dehumidification mode can be set via the ELS App.

C6 | Does the lowest flow rate need to be set for Stage 1 and the highest for Stage 3?

No, the flow rate can be individually selected for each stage.

C7 | What configurable fan stages does ELS NFC have?

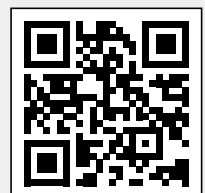
Each ELS NFC features three performance levels, a continuous ventilation stage, and an interval stage – all of which are individually configurable. Additionally, units with sensors offer demand-controlled automatic operation, which can also be set independently and individually.

C8 | Is continuous operation possible with ELS NFC with a sensor, and can this continuous operation be more precisely defined (e.g., min/max speed)?

Yes, this is possible through the settings of the following parameters: The humidity sensor controls the flow rate continuously based on the measured humidity level. The humidity control can be further refined by setting a threshold value, such as relative humidity.

EVEN MORE FAQS

Visit us online for more answers about ELS NFC that will assist you in getting to know and working with our new mono tube ventilation system.





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