



HEAT RECOVERY

Trust in LUNOS

Fresh air for generations

LUNOS is a Berlin-based company and market leader for decentralised residential ventilation systems. The company was founded in 1959 and still has its headquarters in Berlin-Spandau. In 2019, LUNOS established a second location in Brandenburg. With a modern high-bay warehouse and new laboratories, the company has prepared itself for the future. LUNOS products are made in Germany and sold in over 36 countries worldwide. In Germany, the products are sold via the three-stage distribution channel.

LUNOS stands for more than a living climate

Air moves us - we move air. Because fresh air is important for people, as well as for houses and flats. The core competencies of LUNOS are decentralised controlled home ventilation with and without heat recovery as well as the development and manufacture of energy-efficient fans and outer wall air vents. In addition, LUNOS develops all associated components as well as many other products such as exhaust air fans and facade ventilation systems with concealed ventilation openings.

For decades LUNOS stood for highest quality, functionality and comfort. Ventilation systems, with or without heat recovery, improve the air quality in the house and save energy in everyday life at the same time.

Made in Germany



INFORMATION

On our homepage www.lunos.de/en you will find data sheets, user information and much more.



FOOTNOTES: MEASUREMENT METHODS AND STANDARDS

- 3) The specified values are achieved at 20°C, 1013hPa and 1.2kg/m³ ambient air density and (unless otherwise specified) are achievable between free blowing and 60 Pa disturbance pressure (according to DIN18017-3).
 - 4) When dimensioning the volume flows, please observe the pressure-volume flow characteristics provided by LUNOS and the specifications of the abZ (DIBt approval)
 - 5) Sound power level: The sound power level indicates how "loud" a unit is. The value is independent of the distance.
 - 6) Volume flow of the ALD-SV with an even arrangement of the sound insulation elements.
 - 7) Max. achievable WBG according to EN13141-8 at reference volume flow.
 - 8) At 70 % of the maximum volume flow, according to ErP Directive, EU Regulation 1254/2014.
 - 9) According to LÜA (test specification) of the DIBt and EN13141-8 max. achievable exhaust air volume flow free blowing at 20°C and 1013hPa ambient conditions as well as 1.2kg/m³ ambient air density.
 - a) According to LÜA (test specification) of the DIBt, see also certificate of usability (abZ), when using the wall installation housing 9/MRD as insulation, without 9/MRD 2% deduction.
 - b) According to LÜA (test specification) of the DIBt, max. achievable value.
 - c) According to EN 13141-8 at reference volume flow, see also certificate of usability (abZ) of the DIBt.
 - d) According to LÜA (test specification) of the DIBt and EN13141-7 max. achievable exhaust air volume flow free blowing at 20°C and 1013hPa ambient conditions as well as 1.2kg/m³ ambient air density.
 - e) According to EN 13141-7 at reference volume flow, see also certificate of usability (abZ) of the DIBt.
 - f) Determined by the Passive House Institute (PHI), see PHI certificate.
 - g) Sound pressure level at 1m distance, single-point measurement.
- All data are mathematically rounded.

Controlled home ventilation

System with heat recovery

02 SYSTEM WITH HEAT RECOVERY

With this particularly efficient system, all rooms in the residential unit are equipped with heat recovery units - exactly where they are needed. If you are interested in this type of ventilation, we recommend our proven e² series fans.

Series e² A A+

Axial outer wall ventilators with regenerative heat recovery for living rooms and bedrooms, can be combined with the facade element LUNOtherm.



Series e⁹⁰ A

Exhaust fan with heat recovery for functional rooms.



Ne^{xt} A

Radial outer wall ventilator with recuperative heat recovery for living rooms, bedrooms and functional rooms. Wall ducting via 160 mm round duct.



9/MRD

Wall-mounted housing to accommodate the 160 round duct. Already prefabricated with a gradient to the outside.



Series LUNOtherm

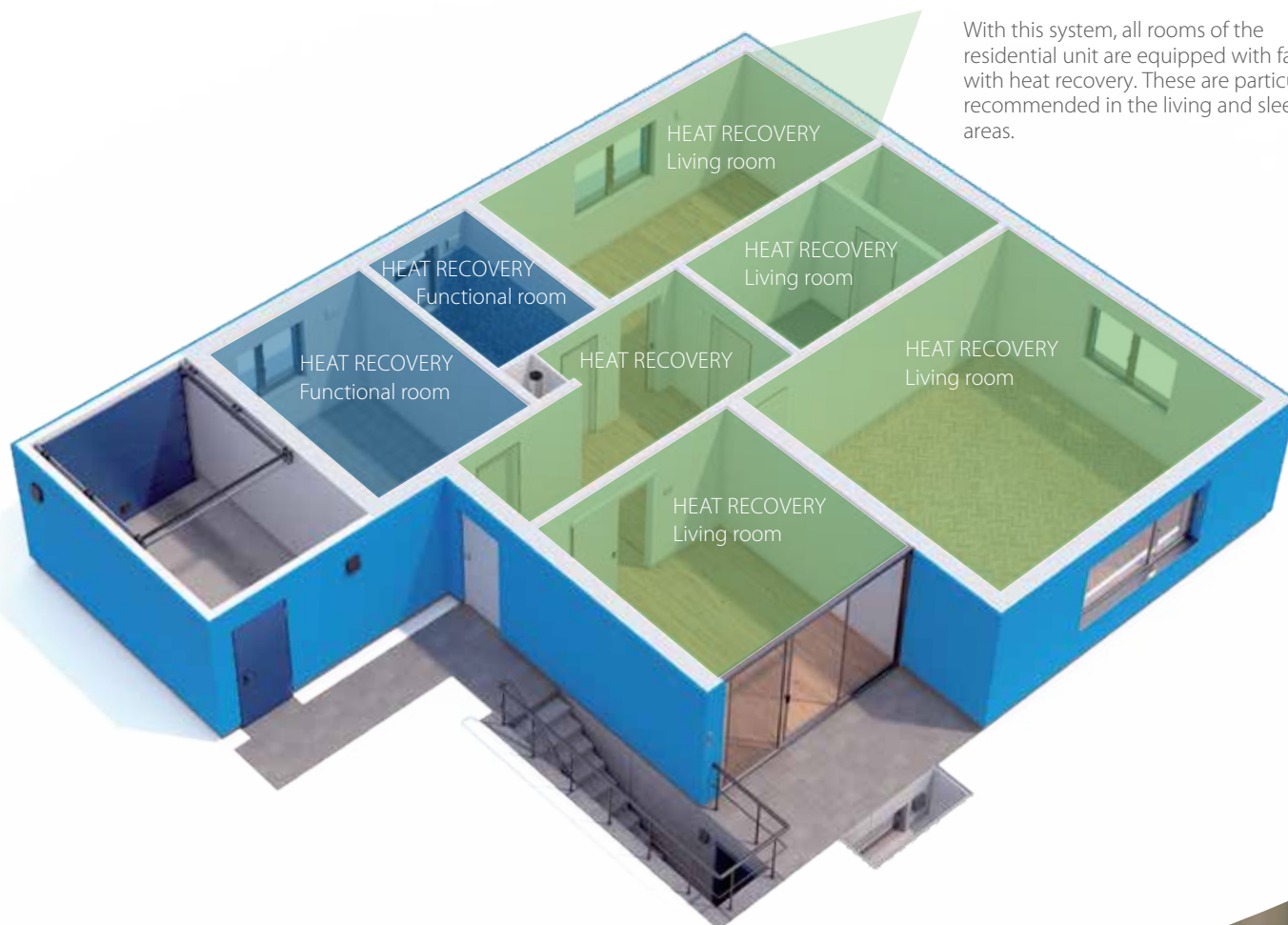
Facade element, without disturbing ventilation grille on the facade. Can be combined with all devices of the series e².





02 SYSTEM WITH **HEAT RECOVERY**

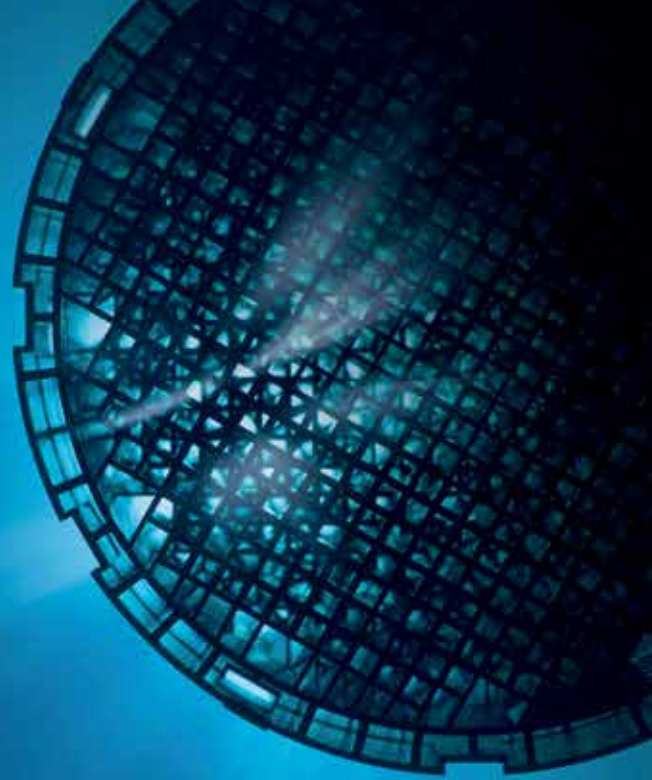
With this system, all rooms of the residential unit are equipped with fans with heat recovery. These are particularly recommended in the living and sleeping areas.



e² series

Flexible in any field

No fan has the decentralized ventilation with heat recovery so characterized like the e² from LUNOS.



e²60short

The e²60 for narrow outer walls from 200 mm wall thickness or increased sound insulation

e²short

The short one: for small outer walls from 200 mm wall thickness

e²

The classic: proven and efficient for use in living room and bedroom

e²60

The powerful one: constant pressure with a volume flow from 5 - 60 m³/h

new

LUNOS pbD-HEAT EXCHANGER

- 70 % less production energy
- 50 % weight saving
- 100 % recyclable

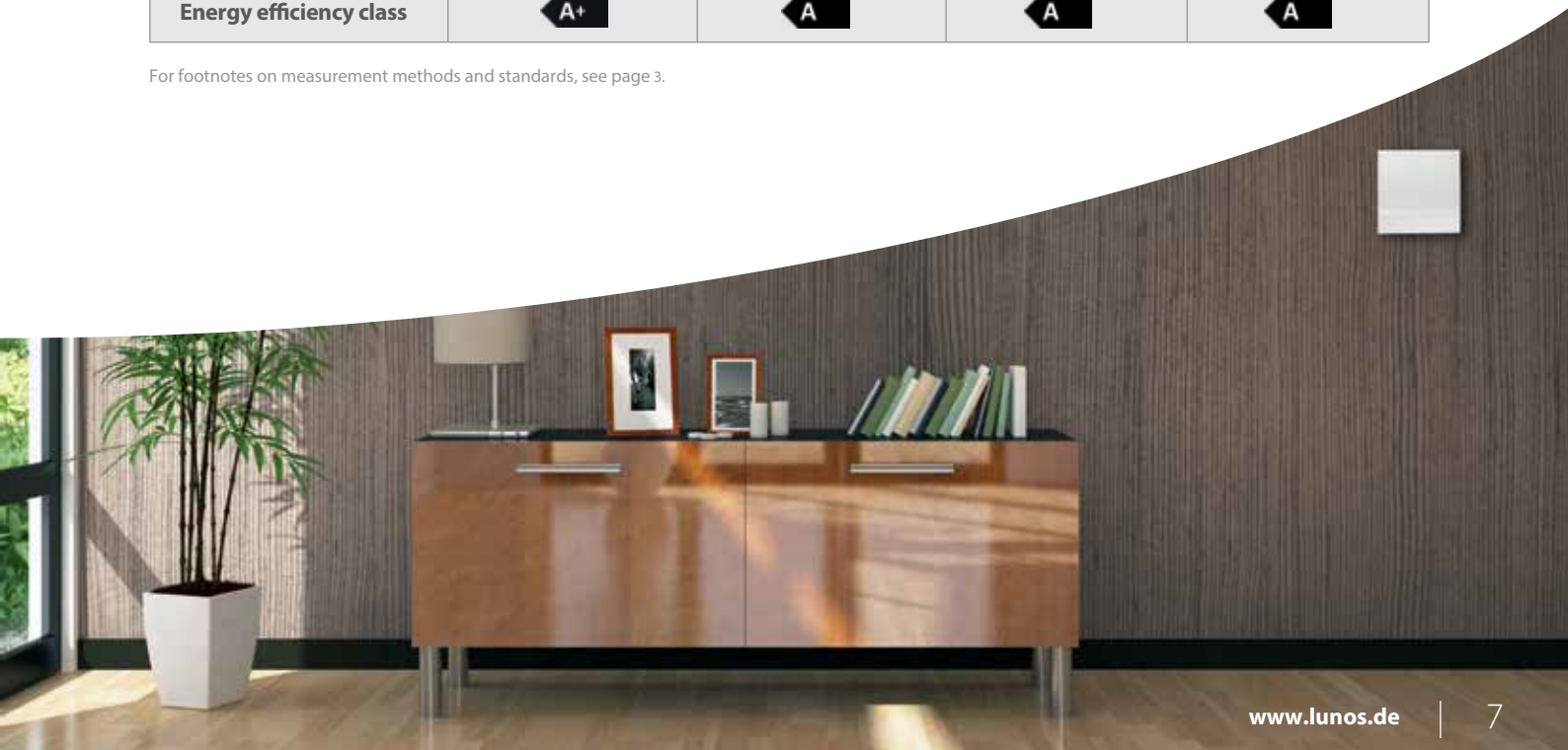
e² series

Technical data



Characteristics	e ² 60	e ² 60short	e ²	e ² short
Volume flow ⁹⁾	5 - 60 m ³ /h	5 - 60 m ³ /h	15 - 38 m ³ /h	15 - 38 m ³ /h
Heat supply level according to DIBt^{9) a)}, Approval number	85 - 96 % Z-51.3-455	89 % Z-51.3-479	90 % Z-51.3-450	86 % Z-51.3-450
Max. degree of heat supply ^{b)}	96 %	89 %	94 %	88 %
Heat supply level according to EN 13141-8 at reference volume flow	20 m ³ /h: 96 % 40 m ³ /h: 90 % 60 m ³ /h: 85 %	40 m ³ /h: 83 % 60 m ³ /h: 80 %	20 m ³ /h: 93 % 38 m ³ /h: 91 %	20 m ³ /h: 85 % 38 m ³ /h: 80 %
Max. standard sound level difference D_{n,e,w} ³⁾	67 dB	67 dB	54 dB	54 dB
Sound power level L_W ³⁾	from 18 dB(A)	from 18 dB(A)	from 29 dB(A)	from 28 dB(A)
Power consumption ^{3) 9)}	0,4 - 3,3 W	0,4 - 3,3 W	0,7 - 4 W	0,6 - 3,9 W
Minimum installation length	280 mm (lower on request)	200 mm	280 mm	200 mm
Dimensions	Plug-in unit Ø 154 x 243 mm	Plug-in unit Ø 154 x 160 mm	Plug-in unit Ø 154 x 243 mm	Plug-in unit Ø 154 x 168 mm
Compatibility	All 160 systems incl. LUNOtherm and outer hoods as external finish	All 160 systems incl. LUNOtherm and outer hoods as external finish	All 160 systems incl. LUNOtherm and outer hoods as external finish	All 160 systems incl. LUNOtherm and outer hoods as external finish
Energy efficiency class	A+	A	A	A

For footnotes on measurement methods and standards, see page 3.



e²60

[esquaresixty]

e²60short

[esquaresixtyshort]

Ready for the demands of the future.

Thanks to its very low power consumption and intelligent motor control, the e²60 is extremely energy efficient and easily achieves energy efficiency class A+.



new

LUNOS pbD- HEAT EXCHANGER

- 70 % less production energy
- 50 % weight saving
- 100 % recyclable

e²60 and e²60short

The reference units in their class



With classified wind pressure stability and high volume flows, the e²60 is a reference device in its class.

The consequent improvement of the ec-technology and the wing aerodynamics ensures particularly low noise emissions. The fact that the e²60 achieves the high heat supply level of 96 % is largely due to the patented air diffuser and the polymer-based rotary angle heat exchanger (pbD-heat exchanger), which ensure a particularly even flow. The innovative design of the heat exchanger with its optimised

flow geometry and homogeneous surface inflow plays a large part in this. e²60 is the first axial fan to achieve a constant volume flow at high back pressures. This outstanding feature of external motor control ensures that the e²60 is the first unit of its type to meet the requirements of pressure class S1 according to DIN 13141-8. This makes it easy to use in areas with high wind pressures, such as on the coast or at

high altitudes. A further advantage of the e²60 is its high volume flow bandwidth. With the smaller heat exchanger of the e²60short, the range of application is extended to slim outer walls with a wall thickness of 200 mm or more or for rooms with higher sound protection requirements.

Can be combined with inner screens of the 160 series



Standard
Inner screen



Comfort inner screen
(plastic design)



Comfort inner screen
(glass design)



Wireless screen with
integrated control system



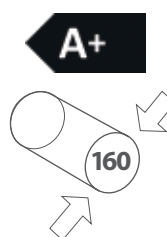
Sound insulation
Inner screen



Hygiene inner screen
(glass design)



Hygiene inner screen
(plastic design)



F7*-FILTER

Special pollen and fine dust filters that simply leave annoying particles outside. F7*-filters included with the hygiene inner screens.



*Equivalent to 55% according to ISO 16890 ePM1.



e⁹⁰ series

3 x heat recovery for exhaust rooms

With or without wireless control
for bathrooms, WCs and kitchens

e⁹⁰60-RF **new**

Supply and exhaust air in one unit
with the new heat exchanger and
newly developed, innovative ec
motors. Equipped with LUNOS
wireless control as standard

e⁹⁰ & e⁹⁰-RF **new**

The reference in functional room
ventilation with the new LUNOS
heat exchanger, now also available
as a wireless version e⁹⁰-RF



new

LUNOS pbD-HEAT EXCHANGER

- 70 % less production energy
- 50 % weight saving
- 100 % recyclable

e⁹⁰ series

The smallest, lightest and most efficient fans with supply and exhaust air in just one unit

In one e⁹⁰, two fans provide simultaneous air supply and exhaust. Therefore, operation in pairs is not necessary.

The new e⁹⁰ series provides fresh air in functional room ventilation. Proven for over 10 years, the e⁹⁰ is equipped with the latest achievements of the LUNOS development department. All three fans in the e⁹⁰ series are equipped with the new pbD heat exchanger, making them even more sustainable while maintaining the same energy efficiency. The new ec motors of the e⁹⁰60-RF not only

make the fan quieter and more efficient, but also increase the exhaust air flow rate to 60 m³/h. The e⁹⁰-RF and e⁹⁰60-RF can be operated particularly conveniently with a wirelessly connected Smart Comfort control unit. With the EnOcean wireless module UNI-EO fitted, control is easily possible via the RC-EO remote control or via app.

Outer hood

The e⁹⁰ can be combined with the universal hood or the two-channel outer hood* on the façade.

Universal hood white



Universal hood anthracite



Two-channel outer hood white



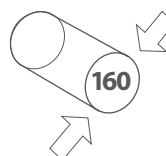
Two-channel outer hood anthracite



e⁹⁰60-RF



e⁹⁰ & e⁹⁰-RF



TECHNICAL DATA e⁹⁰(-RF)/ e⁹⁰60-RF

Volume flow⁹⁾

5 - 20 m³/h (heat recovery), 45/ 60 m³/h (exhaust)

Max. degree of heat supply⁶⁾

92 %

Heat supply level⁷⁾

91 %

Max. standard sound level difference D_{n,e,w}³⁾

46 dB

Sound power level L_W^{3) 5)}

from 28 dB(A)

Power consumption^{3) 9)}

1 - 4,9 W

Supply voltage

12 V DC SELV

Core drilling

Ø 162 mm

Minimum installation length

300 mm

Dimensions

Screen 237 x 217 mm

Plug-in unit

Ø 154 x 300 mm

Protection class

IP22

new

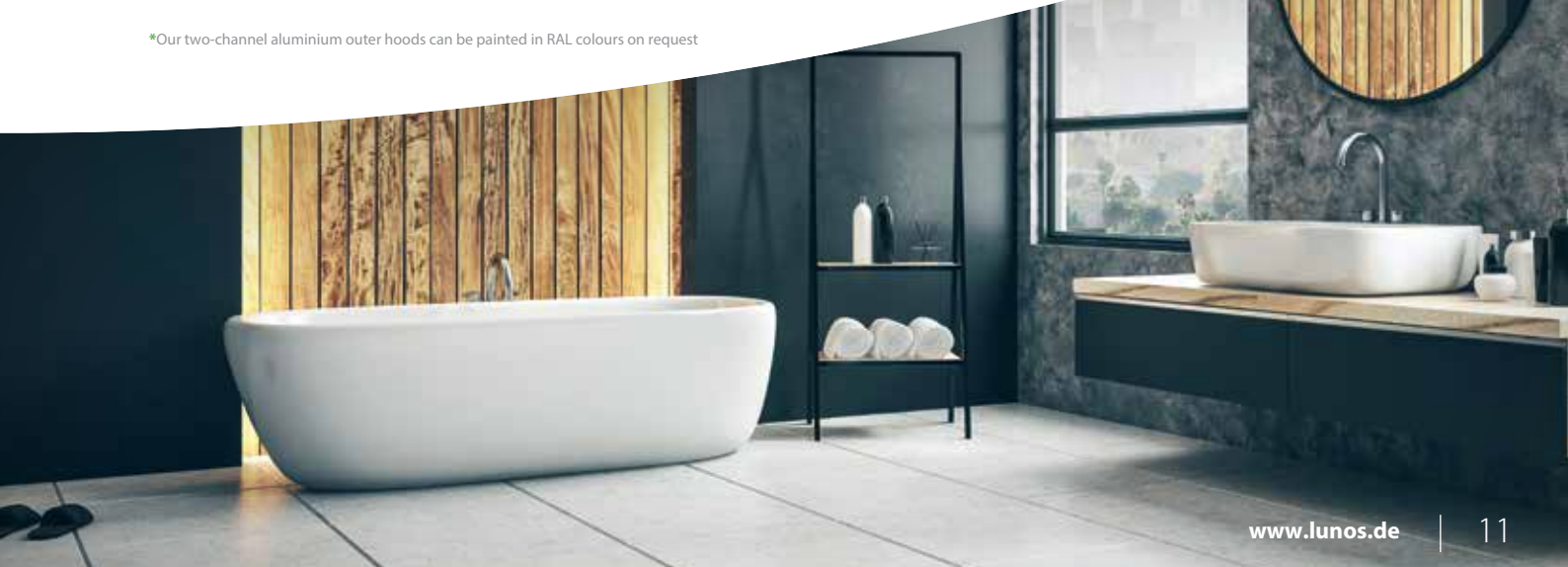
e⁹⁰60-RF ec-Motor



e⁹⁰

For footnotes on measurement methods and standards, see page 3.

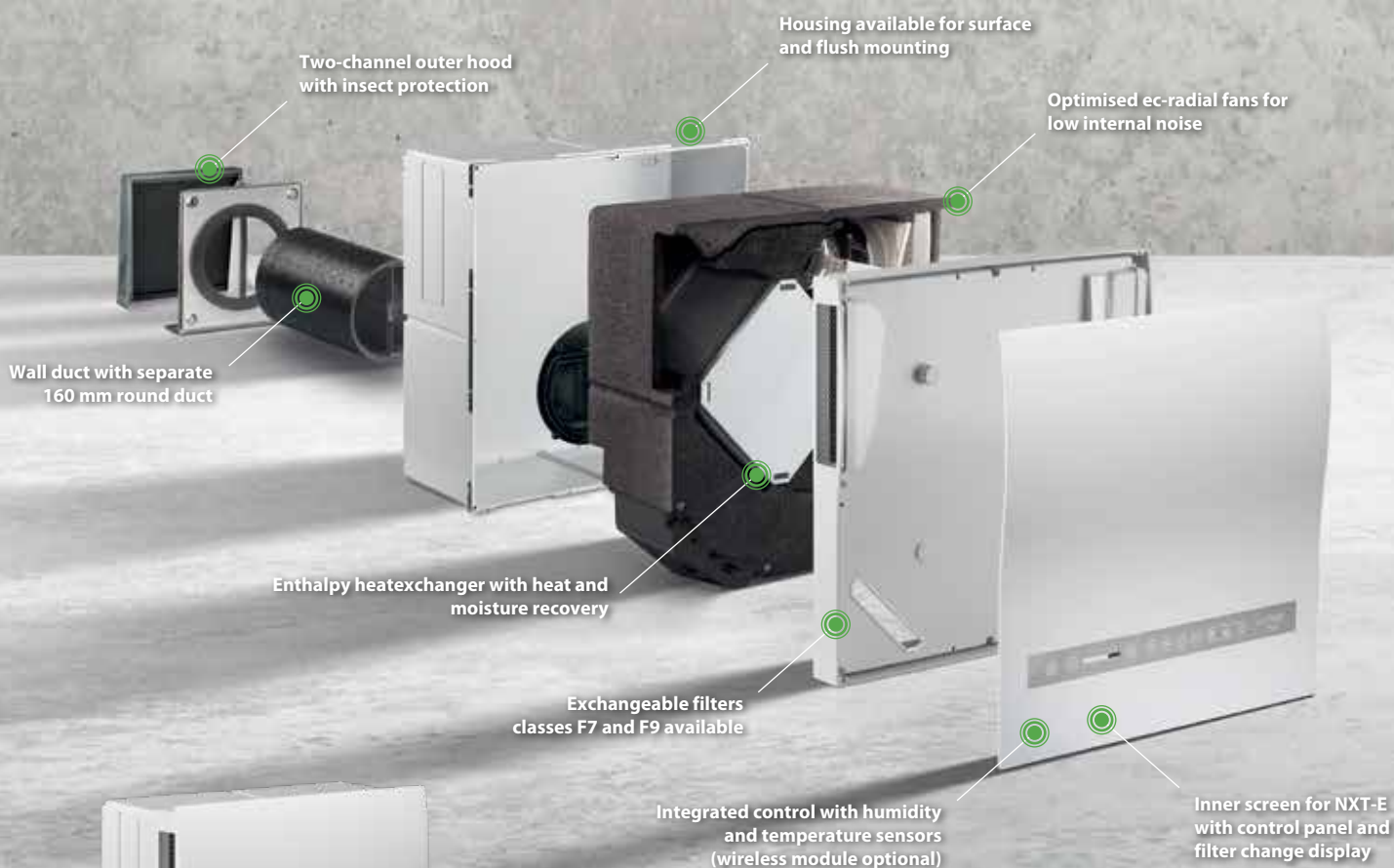
*Our two-channel aluminium outer hoods can be painted in RAL colours on request



Ne^{xt}t

Heat recovery unit

The Ne^{xt}t is not only suitable for home ventilation, but also for use in kindergartens, schools, offices, hotels and medical practices. The Ne^{xt}t also delivers the best results in areas where extraordinary wind loads prevail or high sound insulation is required.



Ne^{xt}t NXT with 9/NXT-IB for external regulation by wireless or control

Ne^{xt}

Decentralized heat recovery unit

**Low noise level and maximum passive soundprotection**

The Ne^{xt} is extremely energy-efficient thanks to its very low power consumption: the ec technology with high efficiency enables low power consumption. The integrated controller ensures perfect interaction between the various components. Equipped with humidity-temperature sensors, the automatic control system ensures efficient ventilation with moisture protection even in the standard version. Optionally, the Ne^{xt} can be equipped with the EnOcean FM-EO wireless module for control and communication with other LUNOS components and for SmartHome integration. The heart of the Ne^{xt} is the plug-in unit with heat exchanger, which is equipped with innovative membrane technology and achieves a heat recovery rate of up to 96 %. In addition, the

mode of operation of the heat exchanger ensures that it is largely ice-free and provides comfort in the interior due to the additional re-humidification.

Ne^{xt} NXT-E

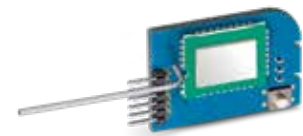
Equipped with an integrated control element in the inner screen, the NXT-E can be operated directly on the unit.

Ne^{xt} NXT

The NXT differs from the NXT-E only in its control capability. The required external regulation can be taken over by all 12 V controls from LUNOS.

OPTIONAL FM-EO

EnOcean wireless module for bidirectional wireless transmission.

**OPTIONAL F9**-Filter**

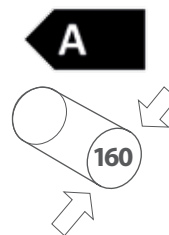
For the highest demands of hygiene. Already equipped with **F7*-Filters** as standard.





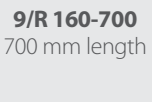




*Equivalent to 55% according to ISO 16890 ePM1.
**Equivalent to 80% according to ISO 16890 ePM1.

OPTIONAL**Electrical flap closure**

It opens or closes the panel feedthrough automatically when the unit is switched on or off



The modular system for the perfect fan

PLUG-IN UNIT	HOUSING	ROUND DUCTS + ADAPTERS *	INNER SCREEN	OUTER CLOSURE		
 NXT-E Plug-in unit	 3/NXT Installation housing Flush mounted	 9/R 160-500 500 mm length  9/R 160-700 700 mm length	 9/NXT-IBF with foil keypad suitable for plug-in unit NXT-E	 1/KWE Universal hood or  1/HWE-2 Two-channel outer hood		
or	+	or	+	and	+	or
 NXT Plug-in unit	 3/NXT + 3/NXT-AP Installation housing Surface-mounted set	 2/AD 160 Adapter*	 9/NXT-IB without foil keypad suitable for plug-in unit NXT	 1/KAZ Universal hood or  1/HAZ-2 Two-channel outer hood		

*From 30 cm an adapter is required for each 10 cm or part thereof of the round duct.



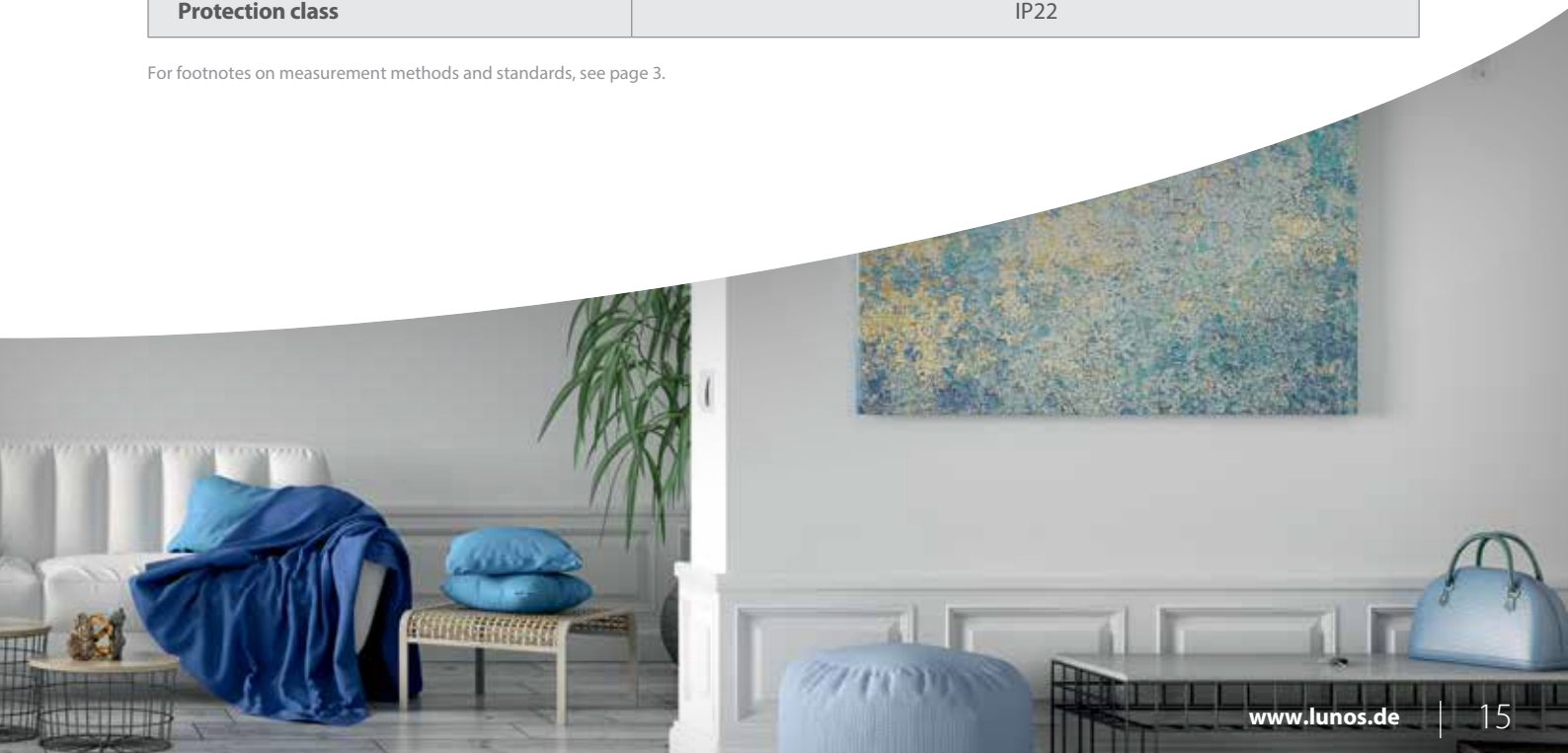
Ne^{xx}t

Technical data



Characteristics	NXT-E and NXT
Volume flow ³⁾	15 - 110 m ³ /h
Max. degree of heat supply ⁷⁾	96 %
Heat supply level according to EN 13141-8 at reference volume flow	25 m ³ /h: 96 % 50 m ³ /h: 89 % 75 m ³ /h: 84 %
Max. standard sound level difference D _{n,e,w} ³⁾	49 dB
Sound power level L _W ³⁾	from 20 dB(A)
Power consumption ^{3) 8)}	22 W
Supply voltage	200-240 V 50/60 Hz (115 V 60 Hz on request)
Core drilling	162 mm
Minimum installation length	Surface-mounted: 110 mm, flush-mounted: 280 mm
Depth for wall mounting	172 mm Housing + 105 mm Flap closure in wall ducting
Dimensions of the device	480 mm x 480 mm x 170 mm
Size inner screen	510 mm x 510 mm x 66 mm
Size outer hood	235 mm x 205 mm x 72 mm
Energy efficiency class	A
Protection class	IP22

For footnotes on measurement methods and standards, see page 3.



Inner wall air vent ILD

Active cross-flow element for installation in interior walls



Compatibility

ILD can be combined with all exhaust air systems, ALD, the e² and e⁹⁰ series, as well as, Ne^{xt} and LUNOMAT. Synchronized conveying directions and volume flows can be created or independently controllable (ILD) systems can be set up.



ILD Inner wall air vent

Ventilation for previously out-of-reach rooms

Easy ventilation of adjoining rooms in combination with ILD and the existing ventilation control or via a separate control for ILD

The active cross-flow element ILD is set up with the inner screens of the 160 series. It can also be equipped with sound absorbers. The application area of the ILD are interior rooms that must be ventilated via another room. If there is no outer wall available in a living space, then one or more ILDs can be used to create a coupling with other rooms supplied by fresh air and thus

establish an active air connection. For example an e² ventilation system can be installed in a bedroom (=primary room) and an adjacent interior side room (=secondary room) can be ventilated by an ILD. The ILD is the ideal supplementary ventilator for cascaded ventilation in a living space.

Can be combined with inner screens of the 160 series.



Standard inner screen



Comfort inner screen
(plastic design)



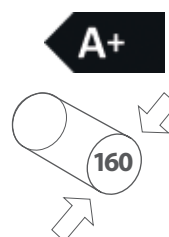
Comfort inner screen
(glass design)



Sound insulation
Inner screen



Wireless screen with
integrated control system



TECHNICAL DATA

Volume flow ³⁾
26 - 40 m³/h

Sound power level L_W ^{3) 5)}
from 33 dB(A)

Power consumption ³⁾
0,7 - 1,5 W

Supply voltage
12 V DC SELV

Core drilling
Ø 162 mm

Minimum installation length
100 mm

Dimensions
Plug-in unit Ø 154 x 60 mm

Cascaded ventilation

The term cascaded ventilation is used to describe the interconnection of living spaces that cannot be ventilated independently of each other. The directly ventilated room (with an installed ventilation system) is called primary room and the cascaded ventilated room (without a directly installed ventilation system) is called secondary room. For example, the bedroom with e² is the primary room and the adjacent dressing room is the secondary room. Only rooms of the same or similar type of use should be connected. Air flows from the primary to the secondary room and should therefore not come from bathrooms, toilets, kitchens or utility rooms to prevent odour transfer. For example, bedrooms can easily be cascaded with children's rooms, and living rooms can be cascaded with work rooms or storage rooms.

For footnotes on measurement methods and standards, see page 3.

ILD

LUNOMAT

Central home ventilation unit

Fresh air supply of the living areas,
by pressure-resistant and highly efficient
ec radial motors for volume flows
up to 125 m³/h.



LUNOMAT

The first central home ventilation unit from LUNOS



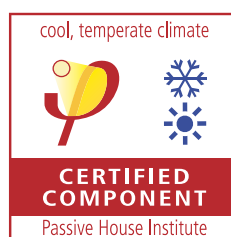
Highly efficient enthalpy heat exchanger with a heat supply efficiency of up to 95 %

With a highly efficient enthalpy heat exchanger and a heat supply level of up to 95%, the LUNOMAT is the performance professional for the supply of fresh air to living spaces. Thanks to exchangeable filters of the class F7, the LUNOMAT can be adapted to the most diverse requirements. The pressure-resistant and highly efficient ec radial motors are also suitable for volume flows of up to 125 m³/h at 100 Pa and ensure optimum air distribution via an appropriate duct network. In short: The LUNOMAT is the all-round talent from LUNOS for central home ventilation. The LUNOMAT can be operated by all LUNOS control systems:

TAC, Smart Comfort, universal control and gesture control. Of course, it is also possible to receive commands from the common smart home controls or homee via optional wireless modules.

OPTIONAL **F7*-Filter**

Exchangeable filters of class F7* available



*Equivalent to 55% according to ISO 16890 ePM1.

TECHNICAL DATA

Volume flow^{d)}

40 - 125 m³/h at 100 Pa

Max. degree of heat supply^{b)}

95 %

Heat supply level^{c)}

75 m³/h: 92 %
100 m³/h: 87 %
125 m³/h: 85 %

Heat supply level according to PHI^{f)}

83 %

Device sound^{g)}

at 100 m³/h, 100 Pa
45 dB(A)

Specific

Power consumption (SPI)

at 50 Pa^{3)e)}
0,3 W/(m³/h)

Max. power consumption at 125 m³/h, 100 Pa^{3)d)}

52 W

Mains voltage

100 - 240 V | 50/60 Hz

External and internal leakage

Class A1

Dimensions (H x W x D)

805 x 555 x 190 mm

Installation options

New construction and renovation
Ceiling and wall mounting
4 x DN 125 mm Outlets

LUNOMAT

For footnotes on measurement methods and standards, see page 3.

Controls

Whether with gesture or automated

LUNOS offers control systems that can be adapted exactly to the wishes and requirements.

5/UNI-FT & 5/UNI-RF

Can be controlled automatically, standard with humidity/temperature control and time delay module, also available as wireless version

Gesture control

Contactless controllable with 60 RGB LEDs and many standby display options

Wireless screen

With integrated wireless control and wireless operation, housed in a sleek design screen



Smart Comfort & Smart Comfort wireless

Especially easy to operate: one touch of a button is enough, also available as wireless version

TAC

The all-rounder from LUNOS can be configured for the most diverse ventilation scenarios



Gesture Control

Universal controllers and devices of the Ne^{xt} and/or Silvento ec series can be connected to the two outputs of the Gesture control.

More than with other ventilation systems, decentralised ventilation is about effectiveness and the sensible addition of the various fans in the system. For the optimal implementation of energy-efficient ventilation, control systems are required that network the ventilation system in a meaningful way while ensuring easy operation.

LUNOS provides different types of control: the Universal Control, the Touch Air Comfort, the Smart Comfort and the Gesture Control.

The universal control as well as the Smart Comfort are also available as **LUNOS wireless** variants **5/UNI-RF** and **5/SC-RF** with integrated wireless module. Just like the wireless screen, they can be easily coupled with each other via the LUNOS wireless protocol and also have a slot for the **UNI-EO wireless module**. This makes it possible to control the connected fans via home automation systems or homee.

Wireless screen with 5/UNI-RF

The complete technology under one hood



The wireless screen combines elegant design for the living room with the control technology of the universal control. The built-in 5/UNI-RF with humidity and temperature sensors has an integrated wireless module that allows communication with other 5/UNI-RF controls and wireless screens without additional wiring. In automatic mode (heat recovery mode), the outdoor temperature and outdoor humidity are included in the intelligent control of e² series units and the volume flows are adjusted according to the differences in humidity between inside and outside. Other LUNOS wireless products or smart home controls with UNI-EO wireless module UNI-EO can be connected.

Functions

- » Including power supply unit for direct connection to 230 V, 50/60 Hz.
- » Built-in 5/UNI-RF with integrated LUNOS wireless module for connection with further 5/UNI-RF controls and wireless screens
- » EnOcean wireless module UNI-EO can be connected for smart home connection, app control, etc.
- » Automatic humidity control with humidity and temperature sensors
- » Manual control via pushbutton on the screen (four-stage) or optional connection of external switches possible
- » Integrated delay time and interval operation
- » 0 - 10 V input for connection to the TAC or to the home automation system

Optional device combinations

All 12-volt fans* of the LUNOS 160 series can be controlled with the wireless screen 9/IBF-RF



*except e⁹⁰ series

Wireless technology



The LUNOS wireless system •

- The secure wireless system for your home
- Smart Comfort 5/SC-RF, Universal control 5/UNI-RF, wireless screen 9/IBE-RF as well as ego-RF and ego60-RF can operate with the LUNOS wireless system

The LUNOS wireless system is an independent system that transmits bidirectionally at 868 MHz. Our wireless controls and wireless screens are equipped with LUNOS wireless modules and can be connected to the homee Smart Home central unit or to other Smart Home systems via an EnOcean UNI-EO module.

Smart Home extension via EnOcean plug-in module: •

- Only one EnOcean module is required to control your ventilation system while travelling - simply plug the appropriate module into the master and connect it to homee
- All LUNOS wireless products can be used as masters

Our LUNOS wireless system – simply make Smart Home ready

The LUNOS wireless system with bidirectional wireless technology - energy efficient and safe. An EnOcean module makes the LUNOS wireless system Smart Home-compatible.

The bidirectional wireless technology transmits reliable signals with very small amounts of energy. For the connection of the LUNOS wireless products (RF) with the Smart Home the equipment with an EnOcean module UNI-EO is sufficient. The transmitters with EnOcean technology can be operated partly without batteries and therefore with low maintenance. The necessary energy is generated by the piezoelectricity of switches or solar cells. In order to control the ventilation system via smartphone, tablet or computer, LUNOS recommends the use of the homee

Smart Home central unit, which already has a WLAN interface as standard and thus provides for the connection to the Internet. With the EnOcean expansion module from homee, the LUNOS wireless modules are integrated into the smart home control center. But the easy-to-use interface, available as an app for iOS and Android or as a WebApp, can be used to control more than just the ventilation: all smart home functions can be operated via this one application.



LUNOS wireless system

Our products for the safe control of your ventilation



Wireless controls 5/UNI-RF & 5/SC-RF

The wireless controls **5/UNI-RF** and **5/SC-RF** has all the functions of the proven 5/UNI-FT and 5/SC-FT. Thanks to the LUNOS wireless module integrated as standard, it enables communication with LUNOS wireless products. Communication with EnOcean products or smart home controls is possible via the EnOcean module UNI-EO without additional wiring.



Wireless screen 9/IBF-RF

The wireless screen combines elegant design for the living room with the control technology of the universal control. It is equipped as standard with the 5/UNI-RF with humidity and temperature sensor and an integrated wireless module and a power supply unit for direct connection to 230 V, 50/60 Hz and. Suitable for all devices of the e² series and RA 15-60.



Wireless screen from e⁹⁰-RF & e⁹⁰60-RF

In the e⁹⁰-RF and e⁹⁰60-RF fan versions, the elegant design screen of the e⁹⁰ covers the universal wireless control (5/UNI-RF) and a power supply unit. This means that both e⁹⁰s only require a 230 V, 50/60 Hz connection and can be controlled by wireless or regulate themselves automatically via the humidity and temperature sensors of the built-in universal control unit.

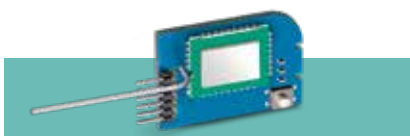
Smart Home wireless technology

EnOcean products for smart home connectivity



Wireless module UNI-EO

The UNI-EO wireless module is used for universal control and Smart Comfort and ensures constant communication with the coupled EnOcean wireless components and Smart Home. So it is possible for connected e² devices to actively deliver supply air when an exhaust fan transmits a switched demand ventilation by a wireless command.



Wireless module FM-EO

The FM-EO wireless module is compatible with all Silvento ec and Ne^xt models. The Silvento ec can also optimise the ventilation behaviour with the coupled outdoor sensor SFT-EO. In conjunction with e² fans on a universal control unit with UNI-EO module, sensor values can be exchanged and the ventilation operations of the systems can be coordinated.



Humidity Temperature Sensor SFT-EO

The external humidity temperature sensor SFT-EO can be installed almost anywhere and does not require any additional power supply. When SFT-EO is coupled as an indoor sensor to UNI-EO or FM-EO modules, the values of the wireless sensor are compared. Coupled as an outdoor sensor with UNI-EO, the intelligent control unit compares indoor and outdoor climate and adjusts ventilation accordingly.



Remote control RC-EO

The RC-EO remote control is battery-free, shock and splash-proof and is therefore suitable for all areas of everyday life. Coupled with the UNI-EO module or the FM-EO wireless module, all connected devices can be controlled by wireless command. Two channels are available for switching ventilation levels and special functions.



Flush-mounted module UPM-EO

The UPM-EO flush-mounted module is a transmitter and receiver for wireless signals. Connected to a simple push-button or series switch switching commands can be transmitted by wireless. This is how a simple fan, such as the AB 30/60, becomes wireless. Especially during renovation work, this allows the fan to be operated

manually at a later date without the need for complex cable laying.

Inner screens

160 series

Comfort inner screens

The direct sound impact on the resident is reduced - the result is a more pleasant living experience. The glass variants also impress with their elegant and modern design.



In plastic design

(H x W x D) 191 x 180 x 60 mm

Description: **9/IBK**



In plastic design

incl. F7* filter,
increased hygiene protection
(H x W x D) 191 x 180 x 77 mm
Description: **9/IBK-H**



In glass design

(H x W x D) 197 x 185 x 66 mm

Description: **9/IBG**



In glass design

incl. F7* filter,
increased hygiene protection
(H x W x D) 197 x 185 x 83 mm
Description: **9/IBG-H**

Standard inner screen

Simple screen with timeless elegance for universal use in the 160 series. (except e⁹⁰ series).



(H x W x D) 180 x 180 x 35 mm

Description: **9/IBE**

Wireless screen

Elegant design screen including wireless control and power supply for all* 12V devices of the 160 series (except e⁹⁰ series).

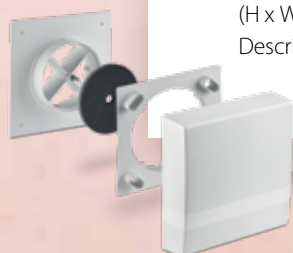


(H x W x D) 230 x 185 x 53 mm

Description: **9/IBF-RF**

Sound insulation inner screen

Increase of the standard sound level difference by up to 6 dB, reduction of the inherent noise, incl. washable filter class ISO Coarse ≥ 45%.



(H x W x D) 250 x 250 x 78 mm

Description: **9/IBS**

*Equivalent to 55% according to ISO 16890 ePM1.

Outer hoods & outer grilles

Soundproofed & round or square



160 single and two-channel system, soundproofed



Universal hood

Suitable for all devices of the 160 series and Ne^{xt}, recyclable plastic, (H x W x D) 235 x 213 x 74 mm, UV-resistant, for round ducts Ø 160 mm, insect protection, with sound insulation, to screw. Increase of the standard sound level difference by up to 6 dB.
Description: 1/KAZ anthracite
Description: 1/KWE white

Two-channel outer hood Aluminium*

(H x W x D) 235 x 205 x 72 mm for round ducts Ø 160 mm, insect protection, with sound insulation, to screw. Increase of the standard sound level difference by up to 6 dB.
Description: 1/HAZ-2 anthracite powder-coated
Description: 1/HWE-2 white powder-coated



Plastic grille Ø 180 mm

For round ducts Ø 160 mm with facade protection ring, UV-resistant
Claw fastening and insect protection,
Description: 1/BE 180 sanded
Description: 1/WE 180 white
Description: 1/AZ 180 anthracite

Metal grille Ø 175 mm

For round ducts Ø 125 - 160 mm, Insect protection, pluggable
Description: 1/RME 175 stainless steel
Designation: 1/RMK 175 copper

Metal grille □ 228 mm

For round ducts Ø 160 mm, Insect protection, pluggable
Description: 1/QME 228 Stainless steel
Designation: 1/QMK 228 copper

160 single-channel system, soundproofed



Outer hood aluminium* and stainless steel

(H x W x D) 235 x 205 x 72 mm for round ducts Ø 160 mm, insect screen, with sound insulation, to screw. Increase of the standard sound level difference by up to 6 dB.
Description: 1/HWE white powder-coated
Description: 1/HAZ anthracite powder-coated
Description: 1/HES stainless steel brushed

*Our aluminium outer hoods can be painted in RAL colours on request

Representatives

Germany



- Baden-Württemberg
- Bavaria
- Berlin, Brandenburg
- Franconia
- Hamburg, Schleswig-Holstein
- Hesse, Western Franconia, North Baden
- Lower Saxony, northern North Rhine-Westphalia
- Mecklenburg-Western Pomerania
- Rhineland-Palatinate, Saarland
- Saxony
- Saxony-Anhalt
- Southern North Rhine-Westphalia
- Thuringia

Representatives

International



- Australia
- Austria
- Bosnia and Herzegovina
- Canada
- Chile
- China
- Colombia
- Cyprus
- Czech Republic
- Denmark
- Great Britain
- Greece
- Iceland
- India
- Ireland
- Italy
- Latvia
- Lithuania
- Malta
- Mexico
- Netherlands
- New Zealand
- Norway
- Poland
- Portugal
- Switzerland
- Slovenia
- Slovakia
- South Korea
- Thailand
- USA

LUNOS Lüftungstechnik GmbH & Co. KG
für Raumlufthsysteme

Wilhelmstraße 31 · 13593 Berlin
PO Box 200454 · 13514 Berlin

Phone +49 30 362001-0
Fax +49 30 362001-89

Email info@lunos.de
Web www.lunos.de



WWW.LUNOS.DE