



Trust in LUNOS

FRESH AIR FOR GENERATIONS

Quality is what stands the test of time

LUNOS Lüftungstechnik GmbH für Raumluftsysteme is a Berlin-based company and market leader for decentralised residential ventilation systems. The company was founded in 1959 and is still based in Berlin-Spandau. In 2019 a second location was opened in Brandenburg. This created even more expansion opportunities for the company, which manufactures its products Made in Germany and sells them in over 36 countries worldwide. In Germany, the products are sold through the three-level distribution channel.

LUNOS stands for more than a living climate

The core competencies of LUNOS are decentralised controlled residential ventilation with and without heat recovery as well as the development and manufacture of energy-efficient fans and external wall diffusers. 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.

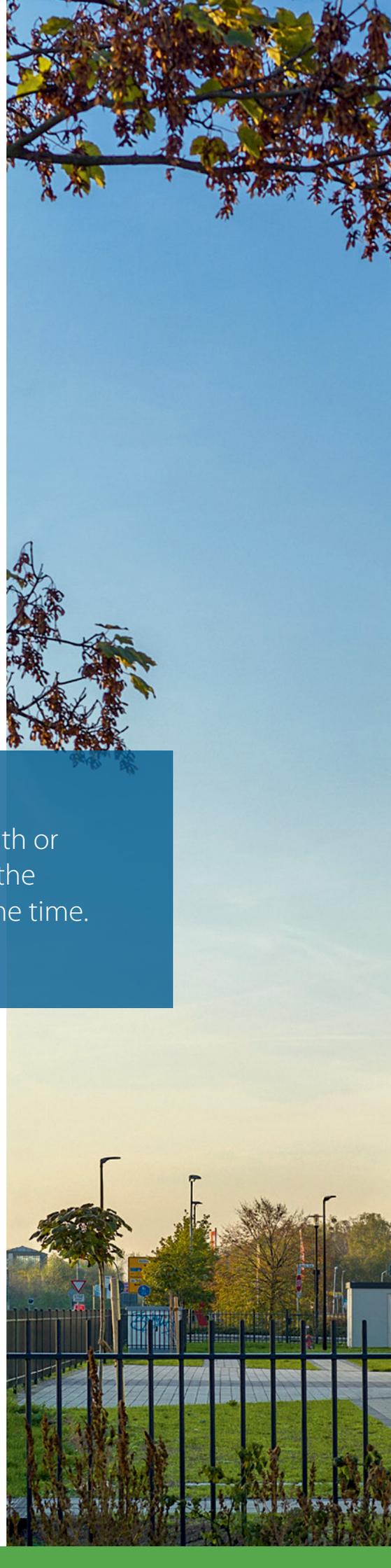
For decades LUNOS stood for highest quality, functionality and comfort. Ventilation systems, with or without heat recovery, improve the air quality in the house and save energy in everyday life at the same time.

Made in Germany



INFORMATION

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



SYSTEM WITH **HEAT RECOVERY**



Controlled home ventilation

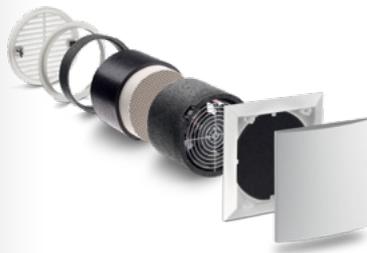
System with heat recovery

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 external wall ventilators with regenerative heat recovery for living rooms and bedrooms, can be combined with LUNOtherm.



e⁹⁰ A

Exhaust fan with heat recovery for functional rooms.



Ne^{xt} A

Radial external 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. H x W x D: 240 x 210 x 500 mm



LUNOtherm-S

Facade element, without disturbing ventilation grille on the facade.



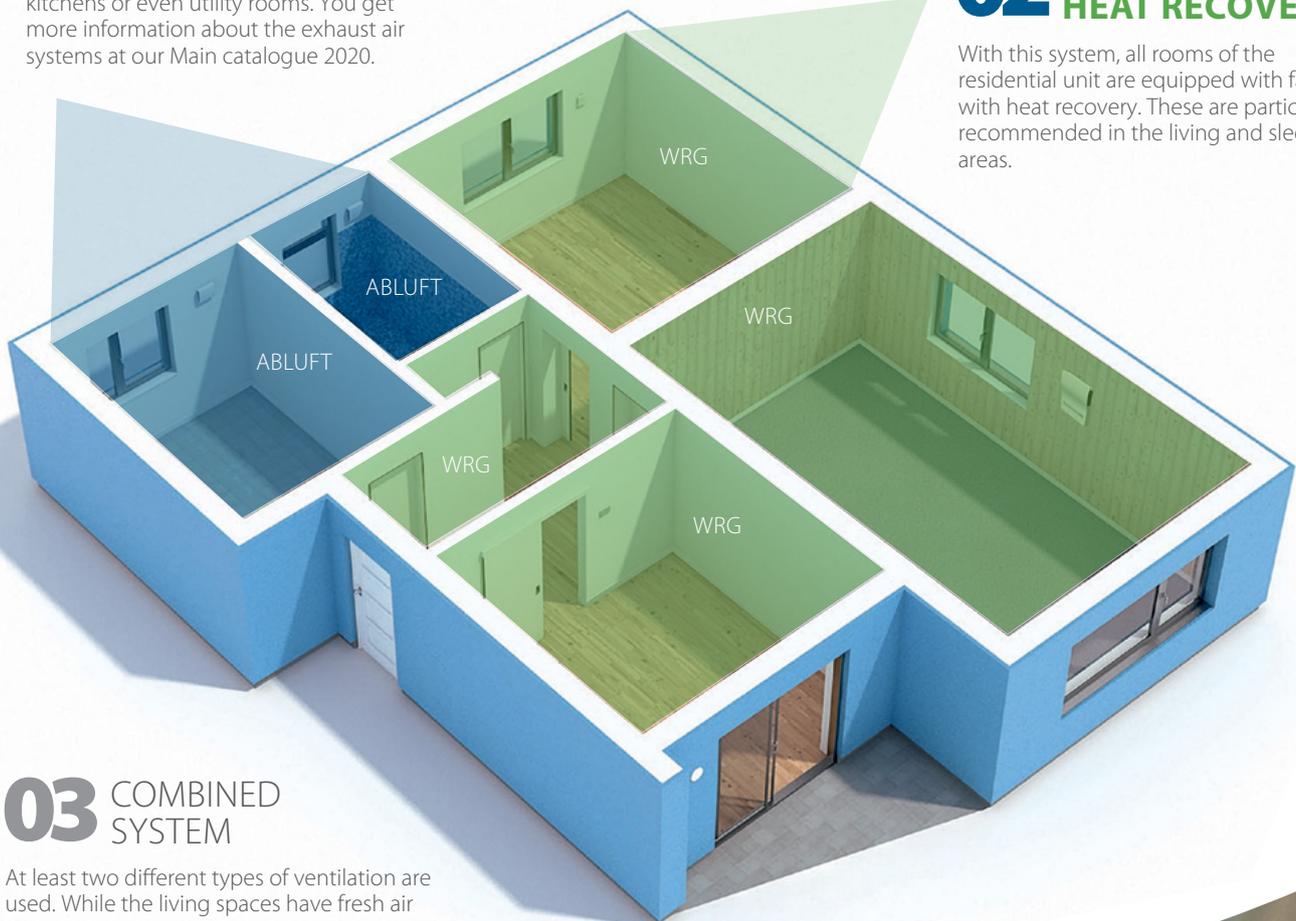


01 EXHAUST SYSTEM

Exhaust air systems are very well suited for functional rooms such as bathrooms, kitchens or even utility rooms. You get more information about the exhaust air systems at our Main catalogue 2020.

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.



03 COMBINED SYSTEM

At least two different types of ventilation are used. While the living spaces have fresh air without heat loss thanks to heat recovery units, exhaust air rooms such as the bathroom or kitchen can be ventilated cost-effectively.

e² series

Flexible in any field

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

e²

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

e²short

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

e²60

The solution for the requirements of the future



e² series

Technical data



| Characteristics | e ² 60 | e ² | e ² short |
|---|---|---|---|
| Volume flow | 5 - 60 m ³ /h | 15 - 38 m ³ /h | 15 - 38 m ³ /h |
| Max. degree of heat supply | 96 % | 96 % | 85 % |
| Heat supply level according to EN 13141-8 | 0 - 40: 88 % 0 - 60: 83 % | 85 % | 75 % |
| Max. standard sound level difference D_{n,e,w} | 54 dB | 54 dB | 54 dB |
| Sound power level L_W | from 18 dB(A) | from 29 dB(A) | from 28 dB(A) |
| Power consumption | 0,4 - 3,3 W | 0,7 - 4 W | 0,6 - 3,9 W |
| Minimum installation length | 280 mm (lower on request) | 280 mm | 200 mm |
| Dimensions | Plug-in module Ø 154 x 243 mm | Plug-in module Ø 154 x 243 mm | Plug-in module Ø 154 x 168 mm |
| Compatibility | All 160 systems incl. LUNOtherm and external hoods as external finish | All 160 systems incl. LUNOtherm and external hoods as external finish | All 160 systems incl. LUNOtherm and external hoods as external finish |
| Energy efficiency class | A+ | A | A |



e²60 [esquaredsixty]

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+.



Highly efficient heat accumulator with a degree of heat provision of 88 %

Patented air diffuser for optimal inflow

Noise-optimised fan unit with pressure-constant ec-motor

Inner screen with washable G3 filter



e²60

The solution for the demands of the future

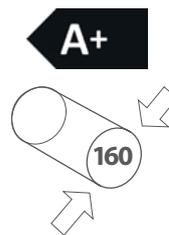
With classified wind pressure stability and high volume flows, the e²60 is a reference device in its class.

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 provision level of 88 % is largely due to the newly developed and patented air diffuser, which ensures a particularly even flow through the heat exchanger.

The 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.

Can be combined with inner screens of the 160 series



F7-FILTER

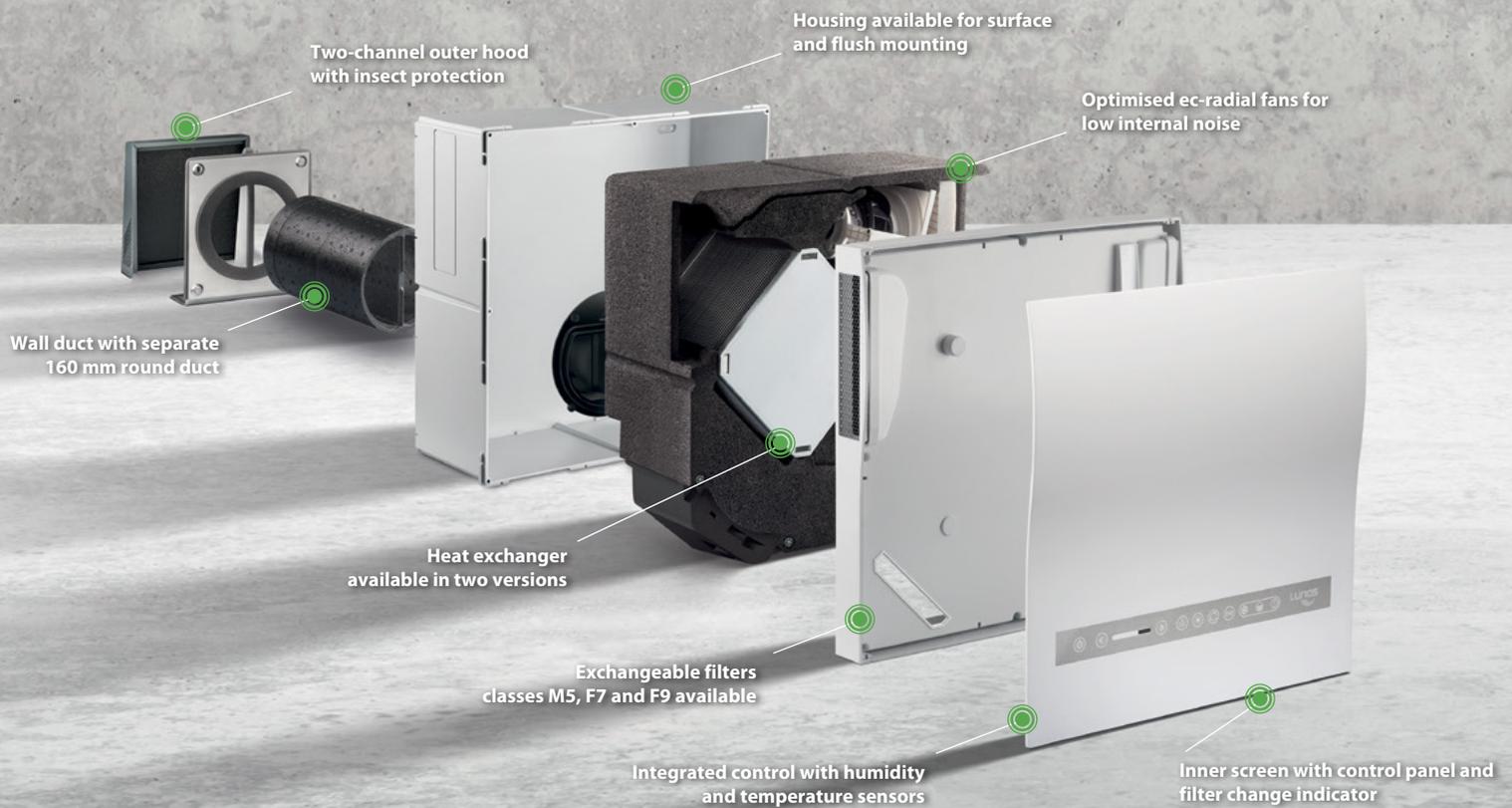
Special pollen and fine dust filters that simply leave annoying particles outside. Included with IBG-H and IBK-H.



Ne^{xx}t

Heat recovery unit

The Ne^{xx}t is suitable for use in kindergartens, schools, offices, hotels and medical practices as well as in the home. The Ne^{xx}t also delivers the best results in areas or heights where extraordinary wind loads prevail and in areas where high sound insulation is required.



Ne^{xx}t

Decentralized heat recovery unit

**Low noise level and maximum passive soundproofing**

The Ne^{xx}t 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^{xx}t can be equipped with the FM-EO radio module for control and communication with other LUNOS components and for SmartHome integration.

The heart of the Ne^{xx}t is the plug-in unit with heat exchanger, which is available in two versions:

Ne^{xx}t-E

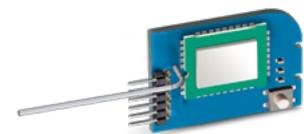
The enthalpy heat exchanger achieves a heat recovery rate of up to 83 %. In addition, the mode of operation of the heat exchanger ensures that it is largely ice-free and provides comfort in the interior even with cold outside air.

Ne^{xx}t-K

The cost-efficient version with cross-flow heat exchanger achieves a heat recovery rate of up to 80 %.

OPTIONAL FM-EO

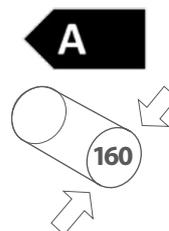
Wireless module for bidirectional wireless transmission

**OPTIONAL F7- and F9-Filter**

For highest demands on hygiene

**OPTIONAL****Electrical flap closure**

Electrical flap closure 9/KVEN-2 for Ne^{xx}t based on the 160 round duct. It opens or closes the panel feed-through automatically when the unit is switched on or off.

**Recommendation**

As an extension of the range of functions and for the use of logging functions, LUNOS recommends the use of the newly developed diagnostic software.



Ne^{xx}t

The modular system for the perfect fan



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



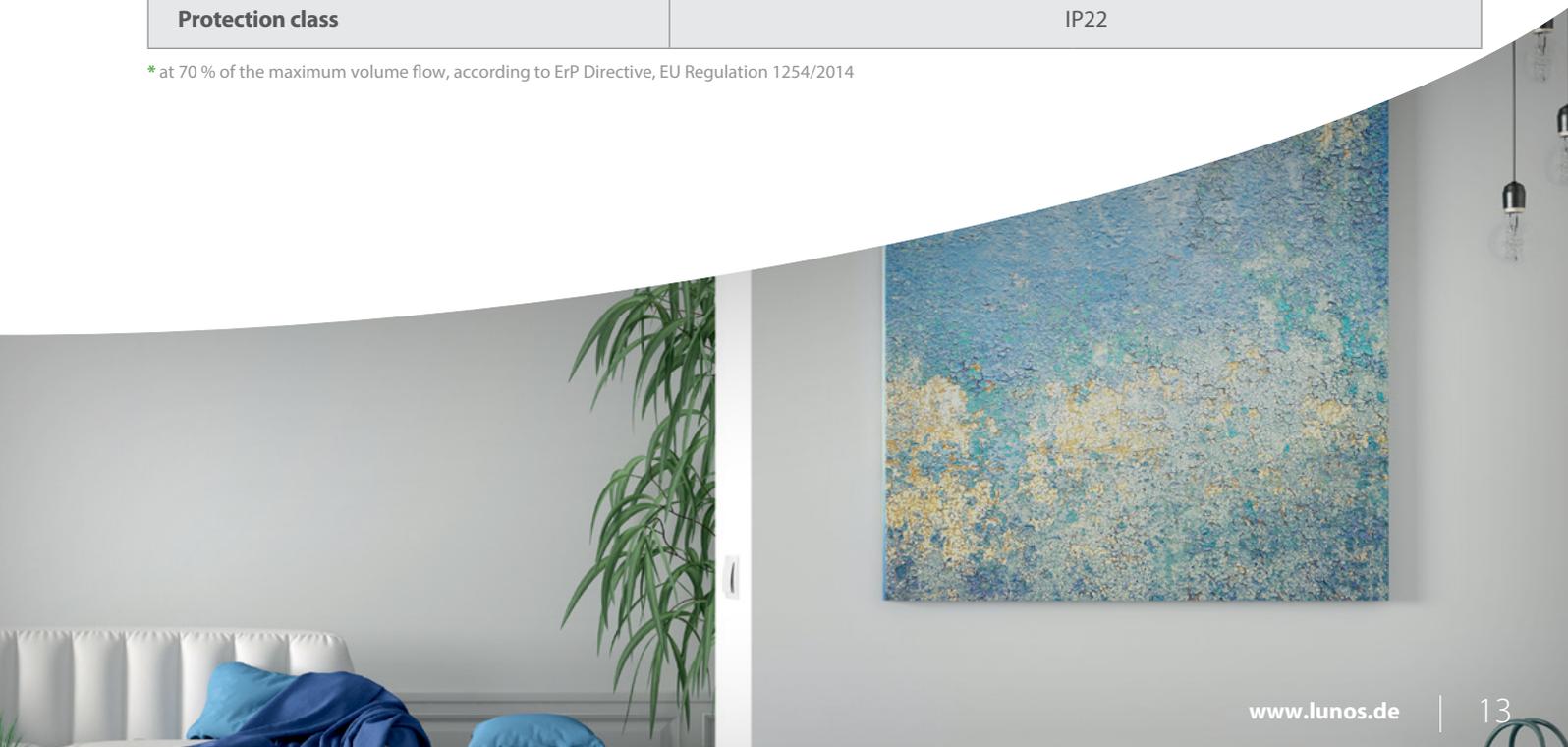
Ne^{xx}t

Technical data



| Characteristics | Ne ^{xx} t-E | Ne ^{xx} t-K |
|--|--|----------------------------|
| Volume flow | 15 - 110 m ³ /h | 15 - 110 m ³ /h |
| Max. degree of heat supply | 83 % | 80 % |
| Heat supply level according to EN 13141-8 | 73 % | 62 % |
| Max. standard sound level difference $D_{n,e,w}$ | 49 dB | |
| Sound power level L_W | from 20 dB(A) | |
| Power consumption* | 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 | |

* at 70 % of the maximum volume flow, according to ErP Directive, EU Regulation 1254/2014



Reversing technology for exhaust air rooms

For bathrooms, WCs and kitchens



e⁹⁰

Supply and exhaust air in one unit



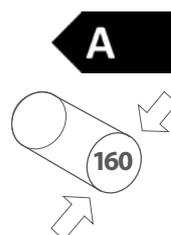
In one e⁹⁰, two fans provide simultaneous air supply and exhaust. Therefore, operation in pairs is not necessary.

The e⁹⁰ ensures optimum ventilation with heat recovery in bathrooms, WCs and kitchens. It combines supply and exhaust air by means of two small fans located inside the fan.

The e⁹⁰ is one of the world's smallest fans for domestic ventilation with heat recovery in the two-channel unit class.

Outer hood

The e⁹⁰ can be combined with the two-channel outer hood on the facade.

**TECHNICAL DATA****Volume flow**

5 - 20 m³/h (Heat recovery), 45 m³/h (Exhaust air)

Max. degree of heat supply

82 %

Heat supply level according to EN 13141-8

75 %

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

46 dB

Sound power level* L_W

from 28 dB(A)

Power consumption

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

Build-in device Ø 154 x 300 mm

Protection class

IP22

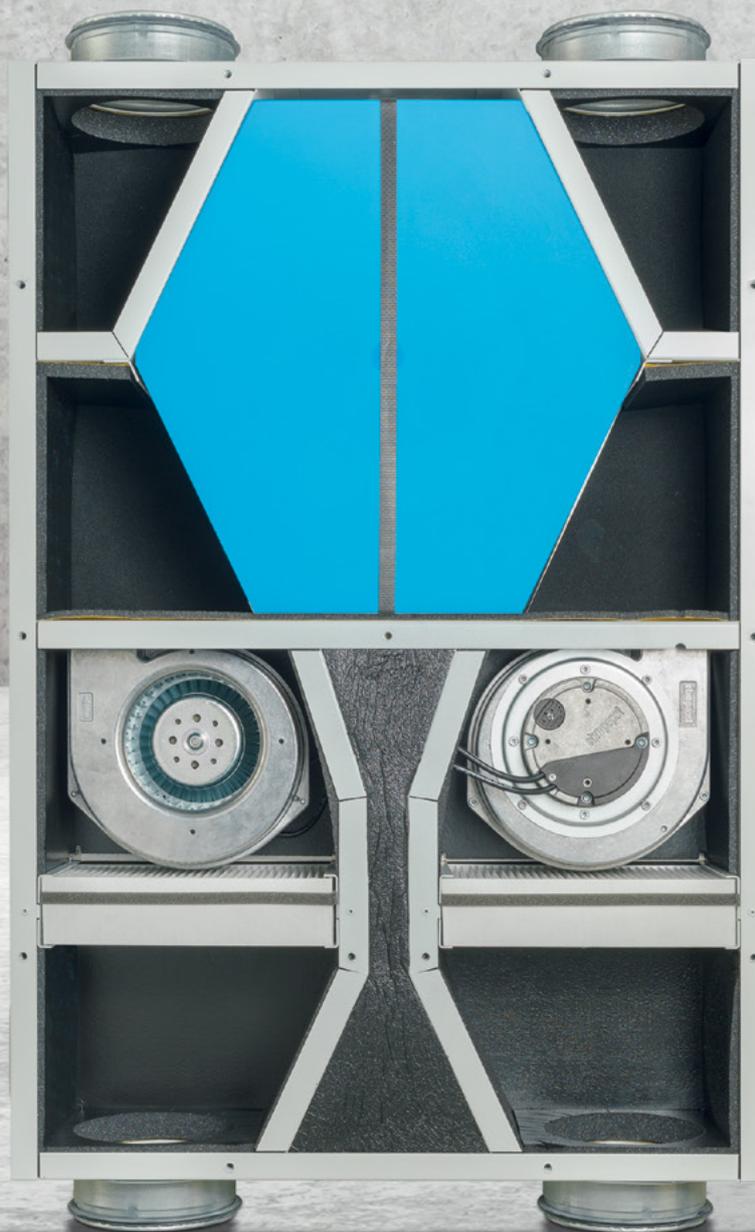
* Sound power level:
The sound power level indicates how "loud" a device is.

e⁹⁰

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.

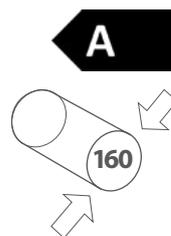
Thanks to exchangeable filters of the classes F7 and F9, the LUNOMAT can be adapted to the most diverse requirements. The pressure-resistant and highly efficient radial motors are also suitable for volume flows of up to 125 m³/h at 100 Pa and are thus able to withstand even strong air pressures on the coast or at high altitudes.

In short: The LUNOMAT is the all-round talent from LUNOS for central apartment ventilation.

The LUNOMAT can be operated by almost all LUNOS control systems: TAC, universal control and gesture control. Of course, it is also possible to receive commands from the common smart home controls of homee via optional wireless modules.

OPTIONAL **F9-Filter**

Exchangeable filters of classes F7 and F9 available



TECHNICAL DATA

Volume flow
40 - 125 m³/h at 100 Pa

Heat supply level
84 %

Heat supply level according to PHI
83 %

Device sound at 100 m³/h, 100 Pa
45 dB(A)

Specific Power consumption (SPI) at 50 Pa*
0,3 W/(m³/h)

Max. power consumption at 125 m³/h, 100 Pa
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

* according to EN 13141-7 at reference volume flow

LUNOMAT

Controls



Whether with gesture or automated

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

5/UNI-FT | 5/W2U

Can be controlled automatically, standard with humidity/temperature control and time delay module



Gesture Control

Contactless controllable with 60 RGB LEDs and many standby display options



Smart Comfort

Especially easy to operate: one touch of a button is enough



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.

Wireless technology

For easy smart home connectivity

A wireless technology that meets the high requirements of LUNOS must be extremely energy efficient and safe.



The bidirectional wireless technology transmits reliable signals with very small amounts of energy. The transmitters 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 extension module from homee the LUNOS radio 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.

Brain Cube & EnOcean Cube

The Brain Cube as basis of the homee Smart Home system with the EnOcean Cube as link to the LUNOS products makes the ventilation system smart.

Inner screens

160 series

Comfort inner screen

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.



(H x W x D) 180 x 180 x 35 mm
Description: **9/IBE**

Sound insulation inner screen

Increase of the standard sound level difference by up to 6 dB, reduction of the inherent noise, incl. washable filters, one piece each of filter class G2 and G3.



incl. G2 and G3 filters
(H x W x D) 250 x 250 x 78 mm
Description: **9/IBS**

External grille & Outer hoods

Round, square & soundproofed



Plastic grille Ø 180 mm

for round ducts Ø 160 mm
with facade protection ring,
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 screen, pluggable
Description: 1/RME 175 stainless steel
Description: 1/RMK 175 copper



Plastic grille Ø 115 mm

for round ducts Ø 90 - 100 mm,
Claw fastening and insect protection
Description: 1/BE 115 sanded
Description: 1/WE 115 white
Description: 1/AZ 115 anthracite



Metal grille □ 228 mm

for round ducts Ø 160 mm,
Insect screen, pluggable
Description: 1/QME 228 stainless steel
Description: 1/QMK 228 copper



Metal grille Ø 150 mm

for round ducts Ø 80 - 125 mm,
Insect screen, pluggable
Description: 1/RME 150 stainless steel
Description: 1/RMK 150 copper



Two-channel outer hood Aluminium

(H x W x D) 235 x 205 x 72 mm
for round ducts Ø 160 mm, insect screen,
with sound insulation, for screwing.
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



Outer hood aluminium

(H x W x D) 170 x 140 x 72 mm
for round ducts up to Ø 105 mm, insect screen, with sound insulation, to screw.
Increase of the standard sound level difference by up to 6 dB.
Description: 1/HWE 115 white powder-coated
Description: 1/HAZ 115 anthracite powder-coated

Two-channel variant for e⁹⁰ and Ne^{xxx}t



Outer hood aluminium

(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



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WWW.LUNOS.IE QUALITY IS THAT STANDS THE TEST OF TIME