

LUNOS localization_B07MQ62LLD

Lunos e² Decentralized Ventilation System User Manual

Model: localization_B07MQ62LLD

INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Lunos e² decentralized ventilation system. Please read this manual thoroughly before installation and operation to ensure proper function and safety. Keep this manual for future reference.

The Lunos e² system is a highly efficient, decentralized ventilation unit with heat recovery, designed for room-by-room ventilation. It operates on a reversible airflow principle using a ceramic regenerator, ensuring low energy consumption and quiet operation.

PRODUCT COMPONENTS



Figure 1: Exploded view of the Lunos e² decentralized ventilation units and accompanying accessories. This image shows two complete ventilation units, two round ducts, a universal control unit, a power supply, and a wall switch. Each ventilation unit consists of an outer grille, a fan, a ceramic heat exchanger, and an inner panel with a filter.

The Lunos e² system includes:

- Two Lunos e² decentralized ventilation units with heat recovery.
- Ceramic storage elements, EPP foam housing, thermal insulation, G3 filter, and reversible EC motor.
- Two round ducts (DN160 mm, 5000 mm length).
- Two 1-WE 180 white exterior grilles (screw-on type).

- Two 9/IBE interior panels with filter.
- One 5/UNI-FT universal control unit for Lunos e².
- One 5/NT18 power supply (18W) for the universal control unit.
- One 5/W2U switch for the universal control unit.

SETUP AND INSTALLATION

Installation should be performed by a qualified professional. Ensure all local building codes and regulations are followed.

Pre-installation Checks:

- Verify wall thickness: Minimum 300 mm.
- Ensure required hole diameter: 162 mm.
- Confirm power supply (12V DC) is available at the installation site.

Installation Steps:

1. Drill a 162 mm diameter hole through the wall at the desired location, ensuring a slight downward slope to the outside for drainage.
2. Insert the round duct (DN160 mm) into the drilled hole. Cut the duct to the appropriate length for the wall thickness.
3. Install the Lunos e² ventilation unit into the duct. Ensure the ceramic heat exchanger and fan are correctly oriented.
4. Mount the exterior grille (1-WE 180) on the outside of the wall, securing it with screws.
5. Mount the interior panel with filter (9/IBE) on the inside of the wall.
6. Connect the ventilation units to the 5/UNI-FT universal control unit.
7. Connect the 5/NT18 power supply to the universal control unit and to the main power.
8. Install the 5/W2U switch in a convenient location and connect it to the universal control unit.

OPERATING INSTRUCTIONS

The Lunos e² system is designed for continuous operation to maintain optimal indoor air quality and heat recovery.

Basic Operation:

- Use the 5/W2U switch to turn the system ON/OFF.
- The universal control unit (5/UNI-FT) allows selection of different operating modes and fan speeds. Refer to the control unit's specific manual for detailed programming.
- The system operates by alternating airflow direction every 70 seconds, allowing the ceramic heat exchanger to absorb heat from outgoing air and release it to incoming fresh air.

Operating Modes:

The Lunos e² system typically offers multiple fan speed settings to adjust ventilation rates:

- **Low Speed:** 18 m³/h (1.4 W power consumption) - Ideal for continuous background ventilation.
- **Medium Speed:** 31 m³/h (2.8 W power consumption) - For increased ventilation needs.
- **High Speed:** 38 m³/h (3.3 W power consumption) - For rapid air exchange, e.g., after cooking or showering.

The system also features humidity recovery, typically around 20-30%, to prevent excessive drying of indoor air during colder months.

MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your Lunos e² ventilation system.

Filter Replacement/Cleaning:

The G3 filter should be checked regularly and replaced or cleaned as needed, typically every 3-6 months depending on air quality.

1. Turn off the ventilation system at the main switch.
2. Carefully remove the interior panel.
3. Remove the G3 filter.
4. Clean the filter by vacuuming or gently washing with warm water (if washable type). Allow to dry completely before reinstallation. Replace if heavily soiled or damaged.
5. Reinsert the clean/new filter and reattach the interior panel.
6. Turn the system back on.

Ceramic Heat Exchanger Cleaning:

The ceramic heat exchanger should be cleaned annually or if performance degrades.

1. Turn off the ventilation system.
2. Remove the interior panel and filter.
3. Carefully pull out the ceramic heat exchanger unit.
4. Clean the ceramic core under running water. Do not use harsh detergents. Allow to dry completely.
5. Reinsert the dry ceramic heat exchanger, ensuring correct orientation.
6. Reinstall the filter and interior panel.
7. Turn the system back on.

Exterior Grille Cleaning:

Periodically inspect and clean the exterior grille to ensure unobstructed airflow.

TROUBLESHOOTING

If you experience issues with your Lunos e² system, consult the following table before contacting support.

Problem	Possible Cause	Solution
System not operating	No power supply; switch is OFF.	Check power connection; ensure switch is ON. Verify power supply (5/NT18) is functioning.
Reduced airflow or efficiency	Clogged filter; dirty ceramic heat exchanger; obstructed exterior grille.	Clean or replace filter; clean ceramic heat exchanger; clear any obstructions from the exterior grille.
Unusual noise	Fan obstruction; loose components.	Turn off system and inspect fan for obstructions. Ensure all components are securely installed. If noise persists, contact support.

Problem	Possible Cause	Solution
Condensation around unit	Improper installation (e.g., no downward slope); extreme temperature difference.	Ensure proper installation with slight downward slope. If problem persists, consult a professional.

SPECIFICATIONS

Detailed technical specifications for the Lunos e² decentralized ventilation system.

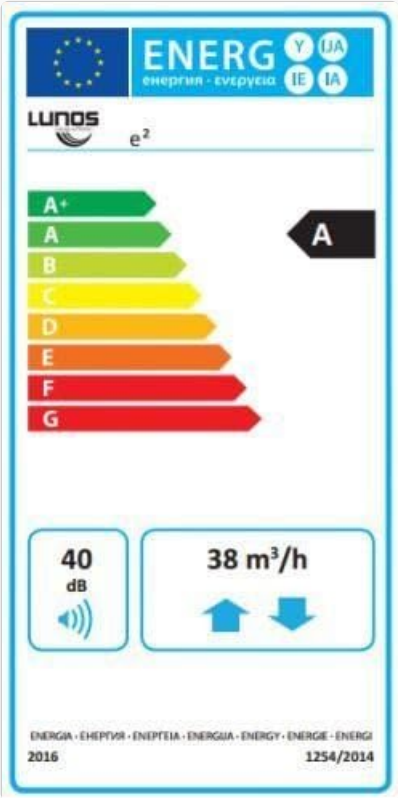


Figure 2: Energy label for the Lunos e² ventilation system, indicating an A+ energy efficiency rating, 40 dB sound level, and a maximum airflow of 38 m³/h.


Produktdatenblatt (gem. VO 1254/2014 EU vom 11. Juli 2014)					
Beschreibung / Description			Werte / Data		
a	Lieferant / Supplier's name			LUNOS Lüftungstechnik GmbH	
b	Modellkennung / Supplier's model identifier			e ²	
c	SEC-Klasse / Spezifischer Energieverbrauch, SEC class / Specific energy consumption [kWh/m²a]	kalt/cold			-84,734
		durchschnittlich/ average		A	-41,140
		warm/warm			-16,166
d	Lüftungstyp / Typology			BVU	
e	Art des Antriebes / Type of drive installed			1,5	
f	Art Wärmerückgewinnungssystem / Type of heat recovery system			Regenerativ	
g	Temperaturänderungsgrad η_t / Thermal efficiency of heat recovery [%]			0,85	
h	Höchster Luftvolumenstrom / Maximum flow rate [m³/h]			38	
i	Elektrische Eingangsleistung (inkl. Regelung) / Electric power input [W]			11	
j	Schalleistungspegel L_{wa} / Sound power level [dB(A)]			40	
k	Bezugsluftvolumenstrom / Reference flow rate [m³/h]			26,6	
l	Bezugsdruckdifferenz / Reference pressure difference [Pa]			0	
m	SEL / SPI [W/m³/h]			0,28	
n	Steuerungsfaktor / Control factor			0,65	
o	Innere und äußere Übertragung / Internal and external leakage rate [%]			0	
p	Mischquote / Mixing rate [%]			0	
q	Lage und Beschreibung der Filterwechselanzeige / Position of visual filter warning Bitte wechseln / reinigen Sie den Filter regelmäßig, um die Geräteeigenschaften zu erhalten / Please clean or replace the filter continuously to preserve the device properties.			Steuerung (optische Anzeige) Control (visual display)	
r	Anweisungen zu regelbaren Zu- und Abluftgittern an der Fassade (nur Ein-Richtungs-LG) / Regulated supply and exhaust grills in the facade				
s	Internetadresse / Internet address			www.lunos.de	
t	Druckschwankungsempfindlichkeit / Airflow sensitivity [%]			0,53	
u	Luftdichtheit zw. innen und außen / indoor and outdoor air tightness [m³/h]			3,9 m³/h	
v	Jährlicher Stromverbrauch / Annual electricity consumption [kWh/(m²a)]			2,02	
w	Jährliche Einsparung Heizenergie / Annual heating saved kWh/(m²a)]	kalt/cold			80,44
		durchschnittlich/ average			41,12
		warm/warm			18,59

Figure 3: Product data sheet for the Lunos e² ventilation system, detailing specifications such as supplier, model identification, specific energy consumption, type of heat recovery, thermal efficiency, maximum flow rate, power input, sound pressure level, and annual energy consumption.

Parameter	Value
Model	Lunos e ²
Heat Recovery Efficiency	90.6%
Airflow Volume (m ³ /h)	18 / 31 / 38
Power Consumption per unit (W)	1.4 / 2.8 / 3.3
Rated Power (W/m ³ /h)	0.09
Network Voltage	12 V DC

Parameter	Value
Humidity Recovery	Approx. 20-30%
Sound Pressure Level (dB)	16.5 / 19.5 / 26
Normal Sound Level (DN,W, open)	42 dB
Unit Length	243 mm
Minimum Wall Thickness	300 mm
Hole Diameter	162 mm

WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or contact Lunos directly. Keep your proof of purchase for warranty claims.

For technical support, spare parts, or further assistance, please contact Lunos customer service. Contact details can typically be found on the manufacturer's official website or on your purchase invoice.

Manufacturer: Lunos
Website: www.lunos.de

