

Lunos Heat Recovery Ventilators – De-centralised Type

Data Sheet

Description

- Highly efficient decentralised (room-wise) ventilation unit with heat recovery
- Installation in round duct with Ø 160 mm
- Contains a ceramic (heat) storage element, EPP foam housing, thermal insulation, G3 filter and ec-motor
- Further sound insulation and wind protection options are available as an option

With general building authority approval according to DiBt Z-51.3-450

Order No. 40 003

Installation

The slide-in unit is inserted into the round duct 9/R 160, which was previously installed in the outer wall with a slight outward slope.

Please note the installation instructions and have the units electrically connected in a professional manner.

Technical data

Volume flow	15 - 38 m³/h
Heat supply level according EN 13141-8	86 %
Sound pressure level at 1 m distance	21 - 41 dB(A)
Sound pressure level at 3 m distance	12 - 31 dB(A)
Measuring surface sound pressure level	16,5 dB(A)
Max. standard sound level difference $D_{n,e,w}$	54 dB
Sound power level L_{w}	29 - 49 dB(A)
Power consumption	0,7 - 4 W
Supply voltage	12 V DC SELV
Core drilling	162 mm
Minimum installation length	200 mm
Dimensions	Einschub Ø 154 x 160 mm
Compatibility	Alle 160er Systeme inkl. LUNOtherm und Außenhauben als Außenabschluss
Energy efficiency class	A
Protection class	IP22



e*60short by LUNOS ensures energy efficient class A according to the Ecodesign Directive

Note

Products and illustrations may vary slightly. Due to continuous product development and/or several suppliers e.g. for raw materials, colours, among other things, may vary slightly (not for visible parts) or be shown differently in brochures.

Lunos Heat Recovery Ventilators – De-centralised Type

Description

- Highly efficient decentralised (room-wise) ventilation unit with heat recovery based on the principle of reversing air flow (regenerator)
- Installation in round duct with Ø 160 mm
- Contains a ceramic (heat) storage element, EPP foam housing, thermal insulation, G3 filter and ec-motor
- Additional sound insulation and wind protection measures are optionally available

With general building authority approval according to DiBt Z-51.3-450

Order No. 39 993

Installation

The slide-in unit is inserted into the round duct 9/R 160, which was previously installed in the outer wall with a slight outward slope.

The devices of the e² series should be operated in pairs.

Please observe the installation manual and have the electrical connection of the fan performed by a qualified profes-

Technical data

Volume flow	15 - 38 m³/h
Max. degree of heat supply	94 %
Heat supply level according to EN 13141-8	20 m³/h: 93 % 38 m³/h: 91 %
Sound pressure level at 1 m distance	21 - 41 dB(A)
Sound pressure level at 3 m distance	12 - 31 dB(A)
Measuring surface sound pressure level	16,5 dB(A)
Max. standard sound level difference $D_{n,e,w}$	54 dB
Sound power level L_W	29 - 49 dB(A)
Power consumption	0,7 - 4 W
Supply voltage	12 V DC SELV
Core drilling	162 mm
Minimum installation length	280 mm
Dimensions	Pug-in module Ø 154 x 243 mm
Compatibility	All 160 systems incl. LUNOtherm and external hoods as external finish
Energy efficiency class	A
Protection class	IP22



The e² of LUNOS achieves Energy Efficiency Class A according to the Ecodesign Directive

Lunos Heat Recovery Ventilators – De-centralised Type

Description

Clamp fan ventilator for front wall installation and sanitary cells, type KL-EC

- For quick installation in e.g. sanitary rooms or in lightweight panel coverings using simple clamp fastening. Wall or ceiling cut-out 210 x 230 mm.
- Consisting of a fan with a powerful and efficient ec-motor in a plastic housing with a clamp fastening that can be operated from the front, a lateral exhaust air connection DN 80 and leakage airtight non-return flap.

Fan insert, type V-EC

- For universal installation in Silvento flush-mounted and surface-mounted housing.
- Consisting of a fan with a powerful and efficient ec-motor in a plastic spiral housing incl. Filterframe, filter and design cover

General building approval: Z-51.1-215

Characteristic curve tested for 60 m³/h free-blowing.

Order No. V-EC 40 078

Order No. KL-EC 40 079

Type KL-EC and Type V-EC

With pluggable mains connection, easily replaceable and washable filter and a decorative panel including optical filter change indicator by means of LED indicator.

Functionality is achieved with additional control board. The description of the functionality or fan functions is contained in the LV of the control board.

Protection class IP X5, use in range 1 and 2 according to VDE 0100-701 of wet rooms permitted, protection class II, EMC tested.

Complies with the requirements of EU regulation No. 1253/2014 and the requirements of EnEV.

Basic board 5/EC-ZI (90)	<ul style="list-style-type: none"> • Selection of different volume flows for basic ventilation and demand ventilation possible: 15/20/30/40/45/50/60/(90) • Time delay adjustable to 0, 15 or 30 minutes • Interval switching: every 30 minutes demand ventilation every four hours or 15 minutes ventilation every two hours • Switch-on delay adjustable to OFF, 45 or 120 second • Slot for a collection module: <ul style="list-style-type: none"> • Radar based motion detector 5/BM or • Radio module FM-EO or • Diagnostic cable
Comfort board 5/EC-FK (90)	Like basic board and additionally <ul style="list-style-type: none"> • Stepless comfort humidity-temperature control
Comfort board+ 5/EC-FK (90)+	Like comfort board and additionally <ul style="list-style-type: none"> • VOC sensor <ul style="list-style-type: none"> • Smell detection • Pollutant detection (e.g. formaldehyde/solvents) • CO₂ value determination

Lunos Heat Recovery Ventilators – De-centralised Type

Technical data

Silvento type V-EC or KL-EC	Boards 5/EC-ZI (90) 5/EC-FK (90) 5/EC-FK+ (90)
Volume flow	15/20/30/40/45/50/60/(90) m³/h
Sound power level L_W	18/22/29/36/38/40/44/(52) dB(A)
Sound pressure level at a distance of 1 m	10/14/21/28/30/32/36/(44) dB(A)
Sound pressure level at a distance of 3 m	0/5/12/18/20/23/26/(34) dB(A)
Power consumption	1,8 - 14,5 W
Supply voltage	200 - 240 V AC 50/60 Hz
Control voltage	0 - 10 V
Dimensions (B x H x T)	Surface-mounted: 260 x 260 x 108 mm Screen: 260 x 260 x 23 mm In-wall housing: 235 x 235 x 92 mm
Protection class	IPX5



Silvento V-EC



Silvento KL-EC

- Volume flows can be adjusted in case of deviations from the setpoint value.
- The technical data always refer to finely adjusted volume flows in free-blowing condition (test arrangement with 1 m DN100 aluflex pipe with a 90° bend).

