

### Description and functions

The e<sup>90</sup> is a heat recovery unit, which is primarily intended for functional rooms such as bathrooms and kitchens. A pair-wise operation is not necessary, since the e<sup>90</sup> independently ensures supply and exhaust air with heat recovery. In the event of peak loads, for example in the evening, it also has an exhaust air operation in order to dissipate odours and moisture in a very short time. The combination of e<sup>2</sup> and e<sup>90</sup> ensures 100% ventilation with heat recovery throughout the house and is ideally suited for KfW buildings.

The e<sup>90</sup> works according to the principle of regenerative heat exchange.

In the e<sup>90</sup>, two fans always operate in op-

posite direction and ensure supply and exhaust air at the same time. For an unrestricted airflow without mixing supply and exhaust air, minimum distances to the wall and surrounding components must be observed (see installation manual). The storage stone is located in the middle of the airflow of two ec motors. By a reversing airflow, which is produced by a specific direction change of the fans, the ceramic material is charged with the heat energy of the room air and returns it to the supplied outside air.

### Installation

The built-in device is inserted into the wall-tube 9/R 160 (ø160 mm) and with a slight incline outwards into the outer wall. The electrical connection of the devices is carried out separately and can be operated via series switch and universal control 5/UNI-FT or comfort control TAC.

Please observe the installation manual and have the electrical connection of the fan performed by a qualified professional.

### Accessories

|   |   |
|---|---|
| Wall-tubes  | 500 mm 9/R160<br>700 mm 9/R160-700          |
| Power supply units                                | 18 W 5/NT18<br>60 W 5/NT60<br>100 W 5/NT100 |
| Universal control                                 | 5/UNI-FT                                    |
| Series switch                                     | 5/W2U                                       |
| Adapter   | 2/AD160                                     |
| Regenerable replacement filters,<br>Four-pack, G3 | 9/FEGO-3R                                   |
| Pollen filters, four-pack                         | 9/FEGO-P                                    |
| Outer hood, plastic, white                        | 1/EGA                                       |
| Outer hood, metal, white                          | 1/HWE-2                                     |
| Outer hood, metal, anthracite                     | 1/HAZ-2                                     |

|                          |                                 |
|--------------------------|---------------------------------|
| Type                     | e <sup>90</sup> built-in device |
| Order No.                | 040 112                         |
| Manufacturer's warranty: | 2 years                         |

### 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 or be shown differently in brochures.

### Technical data

|   |                      |
|---|----------------------|
| Max. heat provision level               | 81.4 %               |
| Airflow volume                          |                      |
| Basic ventilation                       | 5 m <sup>3</sup> /h  |
| Regulated ventilation                   | 10 m <sup>3</sup> /h |
| Intensive ventilation                   | 20 m <sup>3</sup> /h |
| Exhaust air mode                        | 45 m <sup>3</sup> /h |
| Voltage                                 | 12 V SELV            |
| Power consumption                       | 1.0/ 1.7/ 4.5/ 4.9 W |
| Enveloping surface sound pressure level | from 17 dB (A)       |
| Standard sound level difference         | 43 dB                |
| Minimum installation length             | 300 mm               |
| Dimensions in mm (H x W x D):           |                      |
| Protection class                        | II                   |
| Protection type                         | IP22                 |

Included in the scope of delivery :  
Housing with two ec-motors and ceramic storage element, thermal insulation, motor housing, two adapters 2/AD 160, G3 filter und e<sup>90</sup> inner design screen.



e<sup>90</sup> built-in device



e<sup>90</sup> two-way inner screen 1/EG1

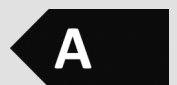


e<sup>90</sup> two-way outer screen 1/EGA



e<sup>90</sup> two-way outer screen  
1/HWE-2 or 1/HAZ-2

The e<sup>90</sup> of LUNOS achieves Energy Efficiency Class A according to the Ecodesign Directive



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