

# EnergoAqua Cassette LE

Water Supplied Radiant Heating



Use the EnergoAqua Cassette LE Radiant Panels for a trouble and maintenance free heating system, offering minimal running costs and an even and comfortable indoor climate. The EnergoAqua Cassette LE is a highly developed product, designed to be economical, safe and comfortable.

EnergoAqua Cassette LE is suitable for commercial, retail, educational or similar applications and is equally suitable for new-builds and refurbishments.

## How does it work?

A water supplied radiant heating system emits a gentle low temperature radiant heat to surfaces and objects in a room. These surfaces, in turn, heats the surrounding air and create a draft-free and comfortable room climate.

With radiant heating, you also get a higher operating temperature, which makes it possible to lower the air temperature in the room and thus also the total energy consumption. Energy savings of up to 20-25% are not uncommon.

The ceiling mount frees valuable floor and wall spaces, while the heating system is protected from contact and damages. An excellent choice of for public areas, schools, offices, hotels etc.

## Composition and Function

EnergAqua Cassette LE, **EAC-LE**, consists of three parts: the reflective plate, insulation and the water carrying pipe. CE marked and manufactured in accordance with EN 14037.

The **EAC-LE** comprises of a 1.0 mm aluminium sheet metal, 30 mm thick mineral wool insulation topped with plastic covered paper. The pipes are made from copper with diameter  $\varnothing 10$  or  $\varnothing 12$  mm.

The warm water, which circulates through the pipe, conducts heat to the surface plate, warming the underside of the panel. The increased temperature of the panel enables radiant heat being emitted to cooler surfaces in the room.

## Technical Specification

**Lengths:** EAC-LE have a fixed length per unit of 1190, 1790, 2390 or 2990 mm.

**Width:** EAC-LE have a fixed width of 592 mm.

**Connections:** Cassette connections are to plain pipe ends  $\varnothing 10$  or 12 mm. The pipe ends are bent up on delivery. Connection of the EAC-LE is made by using press fittings, push-fit fittings or compression couplings.

**Inter-connections:** The EAC-LE, with the  $\varnothing 10$  mm pipe, is intended to be used as a stand-alone cassette in a heating system. Several cassettes can also be linked in a serial connection. The EAC-LE can in that aspect be delivered with  $\varnothing 12$  mm pipe, just to manage the flow rate and pressure drop.

**Suspension:** EAC-LE can be mounted into a suspended ceiling system with visible grids, widths 15 mm or 24 mm. It is however equally suitable as free hanging from the ceiling, using the included rod hangers.



### Quick Facts

<b>Thermal emission:</b>	Up to 900 W per a 2990 mm unit at 80/60/20°C
<b>Working pressure:</b>	Max. 10 Bar
<b>Lengths:</b>	1190, 1790, 2390 or 2990 mm
<b>Width:</b>	592 mm
<b>Installation height:</b>	Up to 4 m
<b>Finish, color:</b>	RAL9003 (White)
<b>Weight excl water:</b>	EAC-LE-612 – 4.0 kg EAC-LE-618 – 6.0 kg EAC-LE-624 – 8.0 kg EAC-LE-630 – 10.0 kg
<b>Water volume:</b>	EAC-LE-612 – 0.24 l EAC-LE-618 – 0.37 l EAC-LE-624 – 0.50 l EAC-LE-630 – 0.63 l

*Further information regarding thermal outputs, flow rates and pressure drops can be obtained from our technical manual.*

# ENERGOTECH