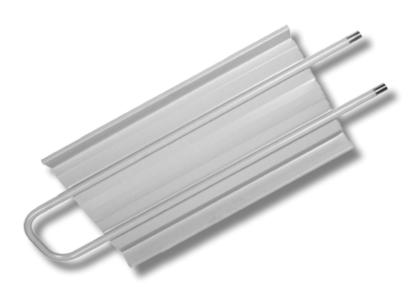


EnergoAqua Industry Water Supplied Radiant Heating







Technical Information - EAI



Product Description

Composition

EnergoAqua Industry, EAI, consists of three parts, the reflective plate, water carrying pipes and insulation. CE marked and manufactured in accordance with EN 14037.

The panel compromises of a 0.9 mm aluminium plate which is cold pressed into optimal shape, the insulation consists of 25 mm thick mineral wool topped with plastic covered paper. The pipes are made from steel with diameter Ø 35/32 mm. Maximum working pressure 6 Bar.



The surface plate encapsulates the steel pipes maximising the contact surface leading to a highly efficient radiant panel.

The warm water which circulates through the pipes 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.



Length: EAI can be made to any length in 500 mm incre-

ments up to 6000 mm per panel.

Width: 615 mm or 900 mm.

Height: 70 mm.

Number of pipes: EAI-2 - 2 pcs, steel, 35 x 1.5 mm.

EAI-3 - 3 pcs, steel, 35 x 1.5 mm.

Connection water: Horizontal connection.

Link water circuit: The panels are provided with several different

link types; more information on page 4.

Suspension: Free hanging from the ceiling. Finish, colour: NCS3500 / RAL7035 (Grey).

Weight

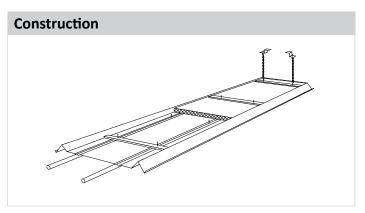
Weight per meter panel, excluding water:

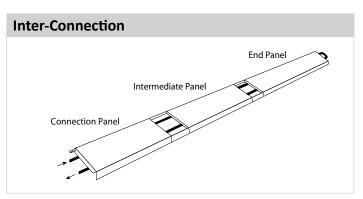
EAI-2 4.5 kg EAI-3 7.0 kg

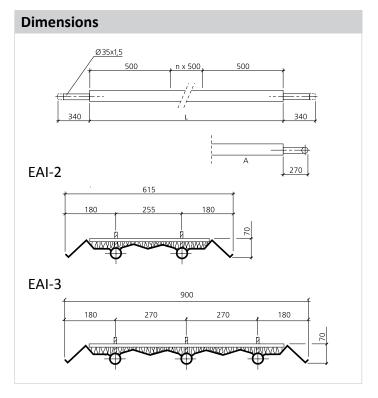
Weight per meter panel, including water:

EAI-2 6.1 kg EAI-3 9.3 kg











Technical Information

Designations Pv: Thermal emission (W) qv: Water flow (I/s) Δtmv: Difference between the mean water temperature and the room temperature (°C) (°C) Room temperature tr: Temperature difference of water (°C) Δtv:

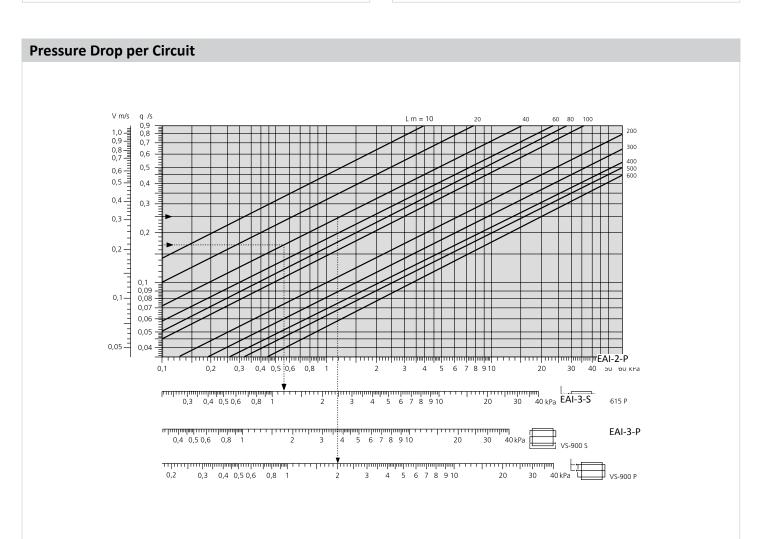
Thermal Emission

The heat output, W/m, as result of the difference between the average temperature of the fluid, Δtmv , and the ambient temperature, tr.

	Δtmv (°C)							
Тур	25	30	35	40	45	50	55	60
EAI-2	114	142	171	200	231	261	293	325
EAI-3	176	219	263	309	355	403	451	500

Water Flow Water flow as result of thermal emission, Pv, and temperature difference of water, Δtv . The water flow should not be lower than recommended to secure turbulent flow in pipes. Recommended min. water flow: 0.036 l/s for EAI-2-P and EAI-3-S 0.072 I/s for EAI-2-D and EAI-3-P 0.108 l/s for EAI-3-D Pv(kW) ∆t°C 60 15 50 40 10 30 20 10 0.036 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8

Vattenflöde qv (I/s)



Order Catalogue

EAI: Water supplied radiant panel for heating.

Length: EAI can be made to any length in 500 mm increments up to

6000 mm per panel. Several panels can be inter-connected

to a maximum length of 125 m.

Width: 615 mm or 900 mm.

Height: 70 mm.

Colour: NCS3500 / RAL7035 (Grey).

Connection Water

No headers are used. Connection is made directly on smooth straight pipe ends. The following dimensions are applied:

EAI-2-P / D 35 mm EAI-3-P / D / S 35 mm

Jointing: Apply press fitting Ø 35 mm when inter-connecting

the panels. We recommend using products and equipment from the leading brands on the market,

for the best result.

Special Modes

Colour: Optional colour can be delivered upon request.

Link types: When other link types are needed, state EAI –

number of pipes – X, and specify how the panel

should be linked.

Accessories

Suspension kit: For other suspend distance than 500 mm. State

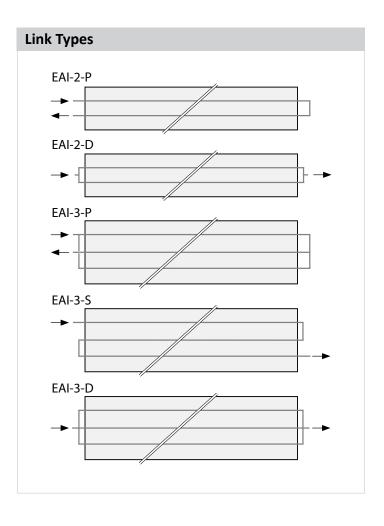
(M3SEAI) M3SEAI + desired distance.

Joint cover: Used when the inter-connections needs to be

(SP-EAI) covered

Paint: For coating the inter-connections or improvement

and corrections.



Suspension

A suspension kit (containing ceiling bracket, snap hooks, chain and blade nut) is supplied with the panels by every delivery. The suspend distance ceiling/panel (chain) is 500 mm.

Panels longer than 2500 mm is supplied with a number of 6 units per panel. The c/c between suspension points is maximum 3000 mm.

Attachment point in/on ceiling must not be less than 40 kg. Attachment screw is not included.

