



InfraMicron

RADIATION HEATING SYSTEMS

What is an Infra Micron Heating Panel?

Infra-Micron Panels are flat, special infrared and radiation panels, with rays of a particular influence on a ceramic body. The panel's radiation surface consists of hardened glass coated with a semi-conductor. The panel is insulated at the back and framed in an aluminium profile. The standard Infra-Micron Panels are limited to about 100°C to 125°C and are in 4 sizes available where of the 1200 x 600 x 35 mm; 230 V; 1000 W; 4,5 A; the most common. Weights are between 5 and 10 kg. No maintenance is required and the Infra-Micron heat panels are totally safe (see report TAUW on request) and are KEMA (EC) tested.

How does it work?

The panel generates heat by stimulated infrared rays, which are emitted and penetrate homogenously in the body to a substantial extent. In addition Infra-Micron rays are reflecting against shiny metal and the moist article to be dried absorbs the photons. The process consumes electricity to elevate the infrared emitting atoms on a higher resonation level. Rays that result from this process have a length of about 7 micron. The changeover from electricity to the required rays is a 100% transformation, without any losses. Its electrical power consumption modulates, i.e. stops when the semi conductors are saturated and connects when emissions are completed. Therefore, energy consumption is obtained of only 40% of the installed power.

What are the Benefits?

- Reduction in energy consumption.
- Faster drying due to rays penetrating in body homogenously.
- Simple dryer casing construction, no insulation needed.
- Panels can be mounted easily anywhere in the process line.
- Unlike microwave & normal infra-red, totally safe and no side effects. (certificate available)

Which applications?

- Anywhere in an existing ceramic process where extra heat is required.
- Energy saving electrical, continuous and intermittent fast drier systems.
- Pre-drying of, casted, pressed & extruded ceramic products or half products.
- Glaze drying of tiles and roofing tiles in continuous process line.
- Gypsum plaster moulds drying.
- Leather hard dryer of pressure casted tableware products. (Drying time = casting cycle)
- Drying of refractory pressed bats.
- Pre drying of sanitary products (before finishing)
- Stiffening up of extruded and pressed bricks and roofing tiles.
- Raw material and granulate drying during transportation on conveyor belts.etc.

What Price?

Reference	Dimensions	Technical data	Euro
IP126S	1195x595x35	230Vac/50Hz - 1000 W - 4,5 A - 10 kg	€ 990
IP755S	755x505x35	230 Vac/50 Hz - 600 W -2,7 A - 6,5 kg	€ 895
IP123S	1195x295x35	230 Vac/50 Hz - 500 W - 2,3 A - 5 kg	€ 860
IP606S	595x595x35	230 Vac/50 Hz - 500 W - 2,3 A - 6 kg	€ 860

Prices are ex works and can be distributed from various places. Delivery 6 - 8 weeks. To order panels, please send your requirements with technical specifications and details of application to us by using the forms. We will, assist with configurations, basic design or submit turnkey solutions in co-ordination with one of our partner companies. For larger quantities the panels can be customized in technical parameters such as temperatures, wave parameters, size and colour.