

# PAINT COAT DRYING UNIT

**Immediate heat precisely where and when it is required.**

**The unit may operate both continuously and intermittently.**

Portable infrared radiators are used both industrial painting processes and in renovations for drying and hardening paint coats, primers and ground coats of acrylic, polyurethane, polyester and other materials. They may be used extensively in paint shops - those large ones provided with painting booths because of drying economy for partial repairs of automotive bodies and the small ones which should polish the paint coat at the same time allowing to close the hardening process of filling and barrier coats which results in the so-called "guarantee calmness".

The distinctive feature of this unit is a relatively simple operation and design, high drying rate, high output capacity, no need to use fans (thus no dust is deposited on drying paint), high stability under correct operation, ecological purity.

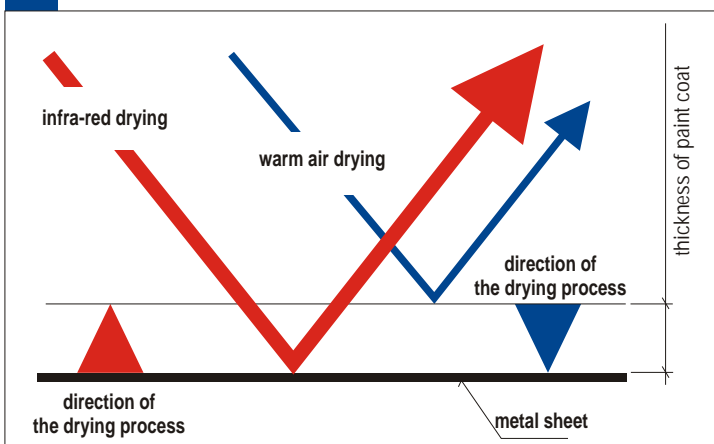


## DESCRIPTION OF THE DRYING PROCESS

Infra-red wave beam from the IZOTERMA wide-angle reflector is directed towards the surface to be dried and here, as a result of absorption, the wave energy is converted into heat over the entire volume of the heated layer. The drying process proceeds from the internal layers to the outside. Infra-red radiation penetrates the thin layer of paint straight to the base. Some energy is absorbed by the painted component, raising up its temperature and starting the drying process. The remaining part of energy is absorbed uniformly over the paint thickness, directing the drying process from the base to the outside. Both the surface and the entire structure of the paint material are dried and hardened.

The last drying layer is the external layer and, therefore, we are sure that the bottom layers are properly hardened, adhere very well to the substrate and the coat has no cracks. The surfaces dried by this method are of high quality and extremely stable.

The infra-red radiators do not emit UV radiation which is harmful for the eyes and skin.



**Applications of infra-red radiators:** for heating, drying and skin-drying; heating of premises where people spend some time, sacred buildings, open-air catering facilities, terraces, umbrella shelters, etc., in manufacturing processes of paints, textile coatings, plastics, carpets, floorings, paper and overprints on various materials, in the shoe-making, printing, heating industry, heat-shrinkable films, shaping and shrinking plastics, veneering wood, in railway work, aircraft industry, animal farms, etc.

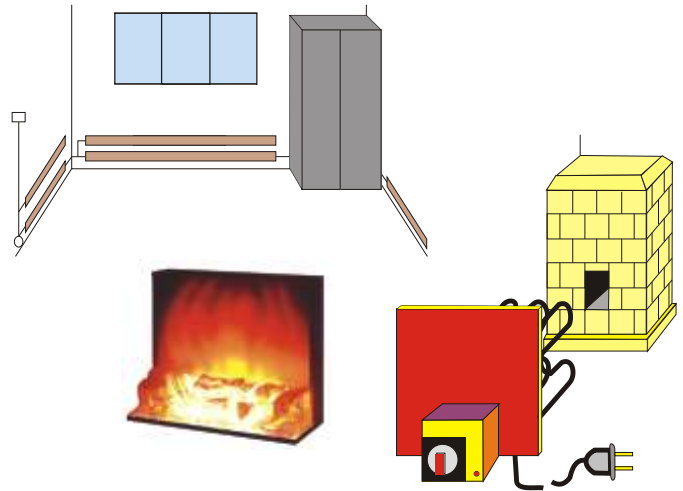
**ZPUG IZOTERMA** designs and makes products in the field of electrical heating engineering - infrared cabins, ceramic furnaces, work clothing drying cabinets, electric fireplaces, accumulative stoves, panel floor heaters, electrical heating elements for central heating, heating tubes for domestic appliance, flat plugs and sockets. For more information please turn to our web sites [www.izoterma.wroc.pl](http://www.izoterma.wroc.pl) We will be pleased to answer all your questions.

# HEATING UNITS

**ZPUG IZOTERMA** has been in the manufacturing business since 1979. The subject of our business are products in the field of electrical heating engineering (various types of electrical heating equipment). Our products are used for heating and additional heating of residential, office, amenities, technical and industrial premises. We design and make special heating equipment.

## We make:

- IZOTERMA infrared cabins
- Technological equipment:
  - paint coat drying units for automotive painting shops
  - paint coat drying units for printing purpose
  - ceramic furnaces
  - work clothing drying cabinets
- Electrical fireplaces
- Fire place's real flame effect
- Electrical cookers
- Accumulative stoves
- Floor heaters (strip-, module- and panel-type)
- Electrical heating inset for tile furnaces, for central heating
- Ceramic profiles rollers, plates, etc
- Heating tubes for domestic and industrial appliances
- Flat plugs and sockets
- Materials and elements for electrical heating



ZPUG IZOTERMA products was favoured the "Diploma of the Medal of Niemen River" on Polish National Exhibition POLEXPOR Kaliningrad 2004r for innovative and high technologies. Products have certificates: CE B GOST R WE INVITE TO COOPERATION - We proceed mail-order sale.

ZPUG IZOTERMA

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