



Modern heating systems

Ukrainian manufacturer of innovative electrical equipment

To create heating systems and household appliances we use our developments in the field of infrared heating



ABOUT US

The Vital Rays LLC — is a modern Ukrainian production company.

The starting point for the new production was a factory with half a century history:

1969

In Ivano-Frankivsk was opened «The Induktor» factory, which specialized in the production of radio parts.

The transformer factory was the largest enterprise in the city for a long time.

1994

After the decision of the Ministry of Machine Engineering of the Military-Industrial Complex and Conversion of Ukraine, «The Induktor» was transformed into an open joint-stock company.

In addition to the production of power transformers for radio and television equipment the enterprise was engaged in the production of stamped metal and plastic products and non-standard equipment. The production of electric heaters was also established at the factory.

2012

OJSC «The Induktor» was transformed into PJSC according to the Decree of the President of Ukraine.

2022

With the appearance of new partners, a new stage in the life of the production enterprise began.

The company changed its ownership and name, but kept and upgraded its own developments and technologies.

Nowadays the Vital Rays LLC successfully builds and produces economical electrical equipment for civil and industrial applications.

ISSUE

The cost of energy carriers increases every year all around the world. Increasing numbers in payments for heating apartments, private houses, offices and administrative premises force to look for new ways of savings.

When considering various ways for organizing heating, it is important to consider many factors, including:

- accessibility of energy carrier
- amount of initial costs and permanent operating costs
- energy efficiency of the device or system
- heating safety
- possibility of application on the specific object

The main task of users is to find safe, efficient, economical, easy-to-install and control devices



The most universal and ecological energy carrier is electricity, which is accessible in any area. This explains a high demand for electric heaters which can be installed in a country house, in a cottage, in an apartment of a tower block, in the offices and other premises in the city and beyond.

The demand of electric heaters is also explained by the fact of their application that does not require obtaining a special permit (as in a case of gas heating) and use of additional engineering equipment.

SOLUTION

The Vital Rays LLC presents a universal solution for efficient, comfortable and economical heating of residential, office, administrative and industrial facilities.



Radiators of the SVR series ensure rational use of electricity and uniform distribution of "soft" infrared heat.

The infrared heaters SVR (Sun Vital Rays) Conic and Panel are heating emitters of a new generation with increased heat capacity and minimal consumption of electrical energy (savings are 50–150% compared to conventional electric heaters).

Radiators are intended for use as the main or additional heating. Installation of electrical equipment does not require complex assembly work: the heaters are quickly and neatly integrated into the interior and can be dismantled for use at another facility if it is necessary.

It is possible to combine any number of heaters into a single Smart Ray heating system, controlled remotely and monitored by temperature sensors.

The guaranteed longevity, safety, energy efficiency and high reliability of Sun Vital Rays heaters are due to:

- improved construction
- using the original film heating element resistant to the formation of microcracks

ADVANTAGES

The Vital Rays heaters have the following advantages:



HIGH LEVEL OF SAFETY

The Vital Rays infrared heaters have a high class of fire safety. During an operation the devices do not burn oxygen, do not dry the air and do not raise dust.



SIMPLE INSTALLATION

When using infrared waves heaters a separate boiler room, chimney, special ventilation and engineering distribution are not required.



STYLISH DESIGN

The Vital Rays radiators have a low weight, compact construction and universal minimalistic design.



LONG SERVICE LIFE AND MINIMAL MAINTENANCE

The service life of Vital Rays infrared heaters is at least 25 years. All this time the device maintains perfect working condition without requiring a special care.

Electric long-wave infrared heaters are the best alternative to traditional heating systems in domestic, commercial and industrial fields.



HIGH ENERGY EFFICIENCY AND ECONOMY

Radiators use a modern heating element that converts electrical energy into infrared waves, which transfer thermal energy not to the coolant, but directly to the person and objects in the room. Almost 100% of heat is transferred without losses and inappropriate heating of the room.



HIGH EVEN HEATING

Immediately after switching on the heaters direct strong warm rays to the specified location, creating a comfortable soft microclimate in the place where a person is staying.



LOSS OF FUNGUS AND MOLD

The use of an infrared heater in places where fungus or mold have formed allows to destroy pathogenic flora thanks to disinfection and drying, as well as to increase the operational life of the room

OUR PRODUCTS

As basis of all developments of the **Vital Rays LLC** are the latest technological achievements, and care for people and environment.

Our company makes universal electrical equipment which is characterized by high efficiency and wear resistance as well as low operating costs.



THE COMPANY'S ASSORTMENT INCLUDES:

long-wave infrared heaters

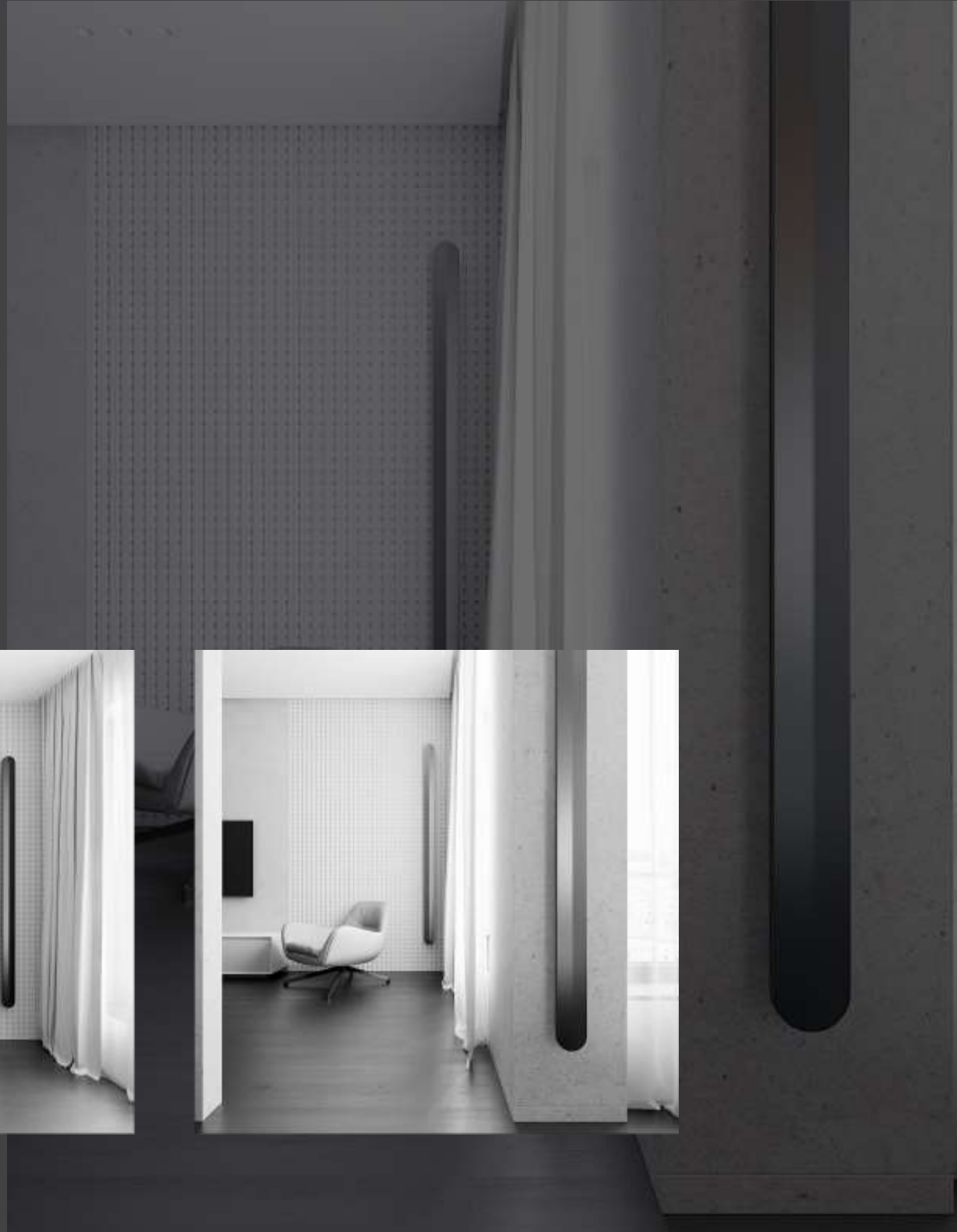
modern drying complexes and dehydrators for the food and processing industry

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SVR CONIC VERTICAL MODEL

The **SVR Conic vertical model** is made in the form of an elongated conical prism with a rounded face.

It is a universal solution that can be used in rooms of any style, configuration and size.

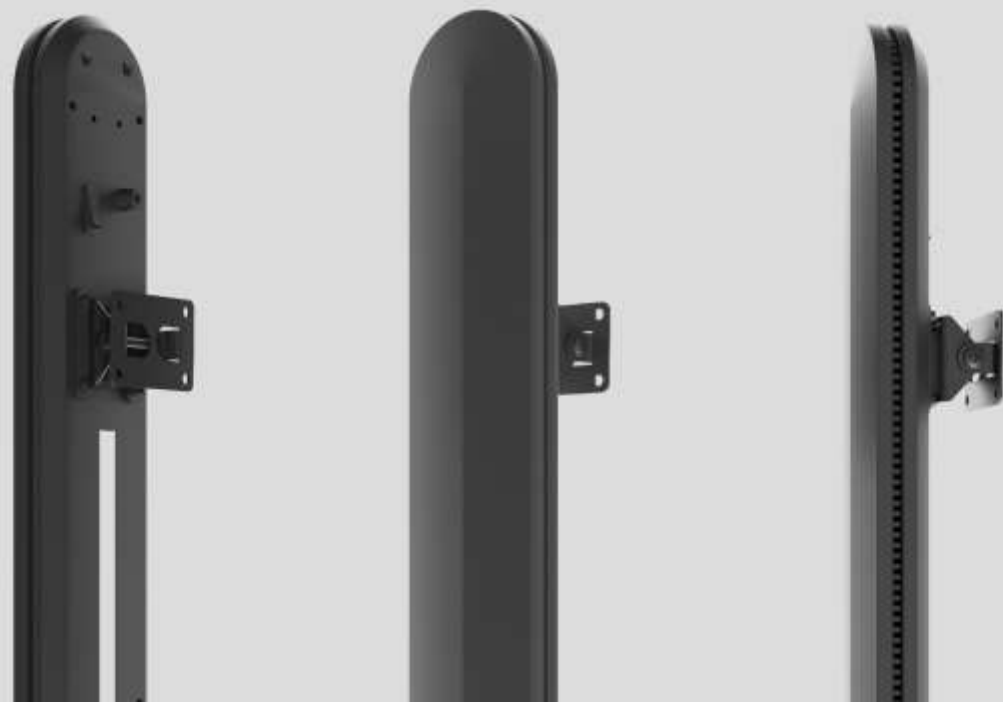


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Technical characteristics

Model	SVR Conic 35.001 (SVR.C.35.001)
Voltage	220 V
Permissible voltage range	220 V \pm 10%
Frequency	50 Hz (alternating current)
Nominal current	1,5 A
Nominal consumer power	330 W
Temperature of the outer surface	70 \pm 5°
Heating area	up to 8 m ²
Relative humidity	up to 75% of relative humidity (without condensation)
Storage temperature	From – 20 °C to + 70 °C
Body material	Heating panel – metal Mount to the wall – metal
Coating	Powder coating
Overall dimensions (L/W/H)	1900 x 100 x 35
Weight	max 10 kg
Warranty term	1 year
Service life of the heating element	50 000 hours

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SVR CONIC VERTICAL MODEL

The heater will be a logical addition in a room with a modern and classic design.

It will look relevant in any interior – Scandinavian, modern, loft, minimalism or retro.

The noble graphite shade of the radiator body allows you to install the device in locations with any color scheme.



SVR PANEL MOBILE MODEL

The SVR Panel mobile model combines modern design with retro notes.

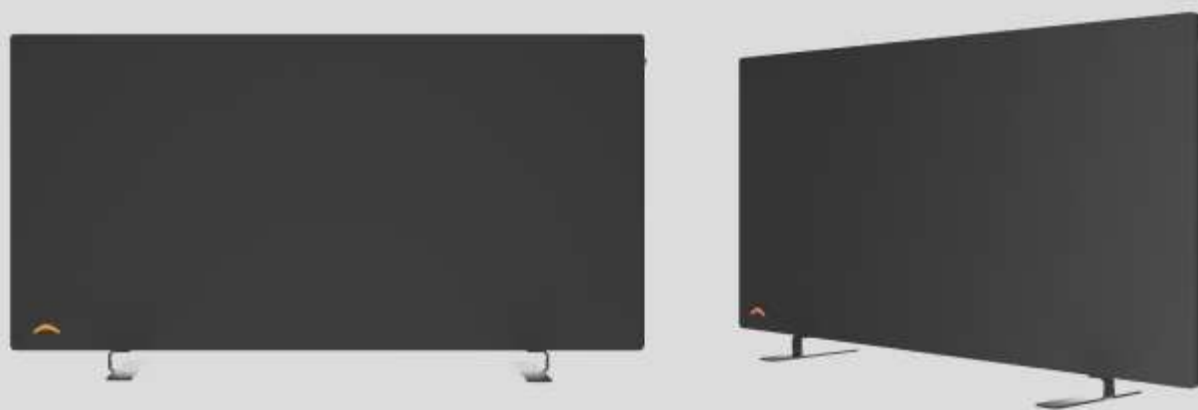
It is a classic device with a wide flat surface.



SVR PANEL MOBILE MODEL

This panel-type heater has a thin, flat design and a smooth surface, which makes it a stylish element of high-tech interiors and a universal solution for heating a modern home.

Thanks to this element the SVR Panel looks equally great as a separate device and in combination with the SVR Conic in the integrated Smart Ray heating system.



Technical characteristics

Model	SVR Panel 35.001 Black (SVR.P.35.001.CB)
Voltage	220 V
Permissible voltage range	220 V \pm 10%
Frequency	50 Hz (alternating current)
Nominal current	2,2 A
Nominal consumer power	495 W
Temperature of the outer surface	70 \pm 5°
Heating area	up to 12 m ²
Relative humidity	up to 75% of relative humidity (without condensation)
Storage temperature	From - 20 °C to + 70 °C
Body material	Heating panel – metal Legs – metal
Coating	Powder coating
Overall dimensions (L/W/H)	1000 x 500 x 35
Weight	max 9 kg
Warranty term	1 year
Service life of the heating element	50 000 hours

SVR PANEL MOBILE MODEL

Can be installed both on legs and on wall brackets. They are easily carried around the house.

They provide even distribution of heat in large premises.

Suitable for residential, commercial and administrative buildings.



TOWEL DRYER

The Vital Rays infrared heated towel dryers can be used in residential and commercial properties.

They have a modern minimalistic design, so they perfectly match any style of room decoration.



TOWEL DRYER

It provides effective heat distribution, maintains a high level of comfort, and is prepared for installation in bathrooms.



Technical characteristics

Model	SVR ... 35.001
Voltage	220 V
Permissible voltage range	220 V \pm 10%
Frequency	50 Hz (alternating current)
Nominal current	2,2 A
Nominal consumer power	495 W
Temperature of the outer surface	70 \pm 5°
Heating area	up to 12 m ²
Relative humidity	up to 90% of relative humidity (without condensation)
Storage temperature	From - 20 °C to + 70 °C
Body material	Heating panel – aluminum Towel holder – aluminum
Coating	Powder coating
Overall dimensions (L/W/H)	1400 x 500 x 35
Weight	max 6 kg
Warranty term	1 year
Service life of the heating element	50 000 hours

TOWEL DRYER

This device is very economical and practical. Infrared heating elements consume little electricity, dry surfaces in the area of operation, and also help prevent the spread of mold.

The flat and smooth surfaces of such devices are easily cleaned of dust and stains.

Infrared heaters and towel dryers can be made like one of the unnoticed details or a bright decoration of the room.



COMPLEX SOLUTIONS



The company offers budget and system solutions in the field of heating organization, in particular, multi-component systems with a possibility of scaling.

Complexes are calculated and created by individual order, including any number of devices of the required capacity.

To make maximum user comfort, infrared heaters are integrated into a single remotely controlled system. The system recognizes the presence of people and performs optimal temperature adjustment according to the specified parameters.

Implementation of complex solutions makes it possible to provide **comfortable heat and optimize costs**

The Vital Rays electric infrared heaters work on the principle of long-wave infrared radiation.

Infrared, also known as heat radiation, the most powerful source of which is the Sun is not perceived by the human eye, but is actively used in modern heating systems.

Unlike convection equipment the principle of operation involves heating air masses, infrared heaters provide heating of physical bodies. Infrared rays are not absorbed by the air, but turn into heat when they hit people and other objects. Surfaces like floor or walls heat up almost immediately after turning on the devices and accumulate heat.

The energy efficiency of infrared heaters is twice as high as that of convectors, oil and other radiators.

The efficiency of infrared heating systems reaches


99,9%

Electric infrared radiators work in the long-wave range of the infrared spectrum, close to the temperature of human radiation (7–15 microns). These rays have a beneficial effect on a person that is why they are called “vital rays”. The use of infrared heaters provides not only economical, but also the most comfortable, safe and useful heat.

Stylish design. The Vital Rays radiators have a low weight, compact construction and universal minimalistic design.





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