# **OPERATING INSTRUCTIONS**



# HELIOS SAFE INDUSTRY ATEX

1500 Watt COD. EHSAFE15 2000 Watt COD. EHSAFE20







ENGLISH

# HELIOS ELECTRIC INFRARED IRK SAFE INDUSTRY MODEL 1500 Watt (cod. EH SAFE 15) / 2000 Watt (cod. EH SAFE 20)

#### **DIRECTIONS**

PLEASE NOTE: safe use of this equipment can only be ensured if the user complies with these directions. Users must therefore keep these directions at hand at all times.

Helios Safe Industry is an extremely versatile infrared heater designed and constructed according to good practice and assembled with the best components conforming to standards and/or certificates for ensuring safety during use.

#### **TECHNICAL DATA**

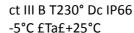
COD.	COLOUR	VOLTAGE	POWER	HERTZ	HEATED AREA	MIN. HEIGHT FROM CEILING	MIN. DISTANCE FROM WALL	PROTECTION RATING
EHSAFE15	MICACEOUS IRON	240V	1500W	50/60	"15 sq. m.*	30	60	66
EHSAFE20	MICACEOUS IRON	240V	2000W	50/60	"20 sq. m.*	30	60	66

\* ALL SPECIFICATIONS INCLUDED ARE BASED ON TESTS. OTHER RESULTS DEPEND UPON ENVIRONMENTAL CONDITIONS DURING USE

Mark EHSAFE15 (Ex)



nA IIC T2 Gc



Mark EHSAFE20



nA IIC T2 Gc



ct III B T290° Dc IP66 -5°C £Ta£+25°C

#### **CONSTRUCTION**

- \* Steel body, oven epoxy powder coating
- \* Extra-pure, buffed, anodically oxidized aluminium parabolic reflector
- \* Front (ceramic, glass)
- \* Silicone rubber seal
- \* Supply cable: length 1.5 m and; resistant to Temperature = 180° C
- \* Adjustable wall anchorage

#### **WARNING**

# PLEASE NOTE: THIS HEATER IS SUITABLE FOR INSTALLATION IN EXPLOSIVE ATMOSPHERE CONDITIONS, CLASSIFIED ZONE 2-22, PURSUANT TO DIRECTIVES 94/9 AND 99/92 EC ATEX

ZONE 2-22 indicates that the atmosphere, which is normally not explosive during routine use, may, on rare occasions, briefly become explosive (generally in the presence of a malfunction). The heater therefore cannot be installed in zones other than those classed as ZONE 2-22. **T2** indicates that the ignition temperature of the flammable gasses of the classified zone must be higher than 300°C. The table below (from EN 13463-1) lists other temperature classes.

Temperature Class		Maximum Surface Temperature (°C)
T1	450	
T2	300	
T3	200	
T4	135	
T5	100	
Т6	85	

#### **TRANSPORT**

Any damage noted after delivery of low voltage appliances must be immediately reported to the transport company. Do not set the appliance at work. Notify the technical support team for all controls required.

#### **VENTILATION**

Distance between the heater and wall or ceiling is to be as specified in the drawing on page 11.



#### PLEASE NOTE: The appliance is certified for non-conductive combustible dust.

Pursuant to It legislative decree no. 233/03, the employer (user) is responsible for classifying the zones. Under the employer's own responsibility, the said party must therefore check that the zone in which this heater is to be installed corresponds to the category assigned to these heaters. The manufacturer of these heaters declines all responsibility for any errors in this regard on the part of the customer, or for the heater if installed in another zone. Use of the heater in normal (non-explosive) atmospheric conditions has no adverse effects on the functioning of the heater or on workplace safety. Use of the heater in explosive atmospheric conditions in zones other than the certified zone constitutes a grave danger to personal health and safety. This use and maintenance handbook contains important indications regarding safety measures and special directions for transport, installation and use. Users must read these directions before transporting, installing and setting at work. The symbols included below indicate safety measures and supplementary instructions in these operational directions.

#### SPECIAL SAFETY INSTRUCTIONS AND GUARANTEE



To prevent damage to objects and personal injury, users must proceed strictly in accordance with the safety measures and supplementary instructions contained in these operational directions.

PLEASE NOTE: DO NOT SET THIS HEATER AT WORK IF IT HAS BEEN DAMAGED DURINGTRANSPORT OR IN THE PRESENCE OF VISIBLE DAMAGE. CONTACT THE MANUFACTURER FOR FURTHER INSTRUCTIONS.

MISUSE OF THESE HEATERS MAY CAUSE DAMAGE TO OBJECTS AND LEAD TO PERSONAL INJURY



All heaters must be installed and used only by qualified persons

To prevent all risks, if the supply cable is damaged, it must be replaced by the constructor.

- •≥ 8 Nm tightening torque of bracket adjustment screwsThe appliance is to be installed on non-combustible surfaces
- •The devices must be connected to an earth connection system
- •The components for disconnecting the devices from the power distribution network must enable complete
- •disconnection under overvoltage III class conditions, in compliance with the rules for installation
- Appliance suitable for installation above a height of 2.5 m
- •The distance between the glass front and the surface to be heated must be at least 1.5 m
- •The appliance must not be used without the glass front
- •The appliance must be installed outside the normal accessibility volume
- •THE APPLIANCE MUST ALWAYS BE INSTALLED HORIZONTALLY



The CE mark indicates that the appliance was constructed in accordance with the EU low voltage directive

#### IMPORTANT NOTICE: TO PREVENT OVERHEATING OF THE BULB, THE EXTERNAL SURFACE OF THE GLASS MUST ALWAYS BE KEPT CLEAN DISCONNECT POWER SUPPLY BEFORE CLEANING

- \* Connect Helios Safe Industry to a 220-240V power source, single-phase, according to the country in which the appliance is used
- \* Helios Safe Industry must be connected to an earth connection system
- \* Check that the input power is appropriate for the electrical load to be installed
- \* THE APPLIANCE MUST ALWAYS BE INSTALLED HORIZONTALLY
- \* Do not cover or obstruct the appliance when operating

#### **INSTALLATION/ SETTING AT WORK**

These appliances can be installed, connected and set at work only by qualified persons. These persons must be familiar with the types of anti-ignition protection, the regulations and the rules applying to the means of production in the zone exposed to the risk of explosion. Check if the class (see the "Specifications" section above and the label on the appliance) is suitable for specific use of the appliance.

#### INSTRUCTIONS FOR INSTALLATIONS/ASSEMBLY

#### The appliance must always be installed horizontally

Proceed in accordance with current regulations and national provisions and the pertaining instructions provided by the manufacturer. Protect the appliances and cables to prevent all possible damage. Attach the appliance to the wall at a minimum distance of 30 cm from the ceiling (see installation illustrations). The height at which the appliance is to be installed generally ranges from 2.0 m to a maximum 3.5 m. Wall installation ensures an ideal position for optimal heating results, at a tilt angle of 45° (the appliance must be perfectly horizontal). The appliance can also be installed on the ceiling, with chains (not supplied).

#### **POSITIONING**

Point the Helios Safe Industry reflector beam as required during wall installation. Normally the appliance is tilted at approx. 45° with respect to the horizontal line. Never install Helios SafeIndustry on a flammable surface or direct it toward a a flammable surface. The appliance must be positioned at a distance (line of sight) of no less than 2.0 m, unencumbered, from objects such as cardboard, fabrics, curtains etc. or, likewise, from glass panes.



extstyle ext



MAINTENANCE: (The appliance is sealed, also with lead. Opening the appliance or tampering with it is not permitted).

#### **CLEANING THE GLASS AND DUSTING THE APPLIANCE**

Before cleaning/dusting the appliance, make sure the atmosphere has been rendered non-explosive. When the atmosphere cannot be rendered non-explosive, please note that operations in such environments can only be carried out by qualified personnel, trained in regard to the specific risks. Such persons must also be provided with protection devices (e.g. spark-proof tools etc.).

### LAYERS OF DUST



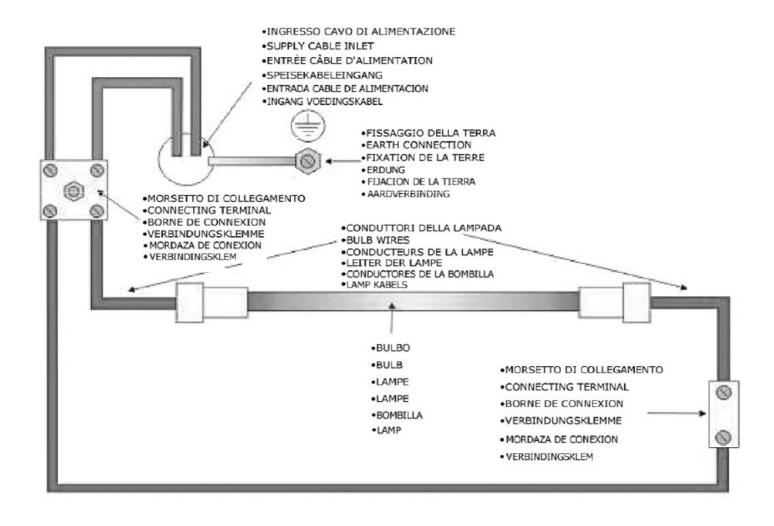
Deposited dust will reduce the appliance's capacity to dissipate heat and will therefore raise surface temperatures to a level at which deposited combustible dust may, in certain circumstances, be ignited. To prevent such risks, the user must plan cleaning of the heater so that it shall be as dust-free as possible.

PROBLEM	CAUSE	REMEDY
The heater does not work	Supply interrupted; no voltage	Check all live parts, supply cables and terminals
The heater does not work	Bulb does not work*  * The bulb is to be replaced only by the manufacturer, accompanied by control of seals and testing under pressure where appropriate.	Submit the appliance for assistance*

#### **PLEASE NOTE**

Periodic maintenance of the heater is vitally important in order to constantly ensure appliance safety over time in regard to the risk of explosions. The user must therefore proceed in conformity with the maintenance table included in the pertaining chapter of the directions handbook.

## SCHEMA ELETTRICO/ DIAGRAM

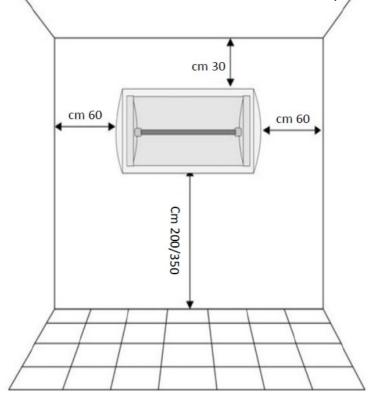


#### **INSTALLAZIONE A PARETE**

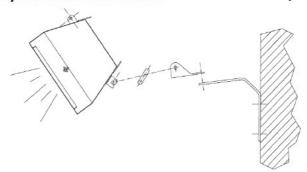
ATTENZIONE - INSTALLARE L'APPARECCHIO SEMPRE IN POSIZIONE ORIZZONTALE COME DA DISEGNO

#### WALL INSTALLATION

PLEASE NOTE - THE APPLIANCE MUST ALWAYS BE INSTALLED HORIZONTALLY, AS ILLUSTRATED IN THE DRAWING



# PARTICOLARE DELL'AGGANCIO/SNODO POSTERIORE - ANCHORAGE/ REAR JOINT (DETAIL)



#### POSIZIONAMENTO A SOFFITTO - CEILING INSTALLATION

