

HELIOS RADIANT® IRK: WISELY USED ENERGY MEANS CLEAN, WASTE-FREE HEATING PRECISELY WHERE AND WHEN YOU WANT IT

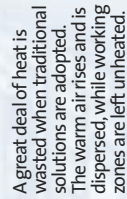
THE PROBLEM

Keeping people warm in very large buildings exposed to draughts is a big problem. Avoiding heat dispersal through doors which are constantly opening and closing is another tough challenge. Warm air from traditional heating systems is generally dispersed (also when it rises to the empty ceiling spaces).

THE HELIOS RADIANT® IRK SOLUTION

With HELIOS RADIANT® IRK you can aim your infrared heat like a torch, to where it's needed. HELIOS RADIANT® IRK infrared's action is based on infrared heat radiation. The heat stays put, where the people are. It does not rise to ceilings or escape through windows or doors. Installing HELIOS RADIANT® IRK systems is easy, wherever they are required. They also make for big savings when it comes to heating large industrial spaces. Since HELIOS RADIANT® IRK deploys infrared radiance as opposed to exploiting air as a heat vector, you can save as much as 70% on bills, compared to traditional gas and electricity systems. Since the heat is zoned and is delivered immediately, HELIOS RADIANT® IRK not only saves on bills but also provides the answers to all heating needs, also for environments presenting heating problems.

HELIOS SAFE INDUSTRY
Designed for application in
ATEX environments
(STAR PROGETTI's patent)



A great deal of heat is wasted when traditional solutions are adopted. The warm air rises and is dispersed, while working zones are left unheated.



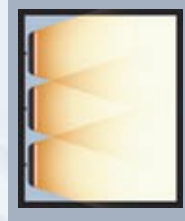
HELIOS RADIANT® IRK heats only the zones where heat is required. Delivery is immediate, waste and dispersal are curbed, and heating expenditure is slashed.

RECOMMENDED POSITION

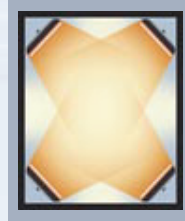
Opposite walls



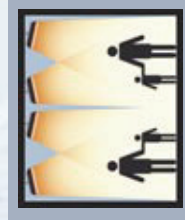
Walls



Corners



Optimal positioning





Working places with explosion risk are ruled by many law obligations.

The ATEX Directive 94/9/CE prescribes for the minimum safety requirements the electric devices should comply with when working in virtually explosive environments, so as not to represent a virtual source of primer.

The title of the kind of area is determined in accordance with the odds of an explosive environment and mainly depends on the following:

- ▶ quantity and frequency of inflammable substance emissions in a specific environment
- ▶ state of ventilation in the environment

HEATING UP DANGEROUS FIRE-RISK WORKING AREAS IS NO LONGER A PROBLEM ...

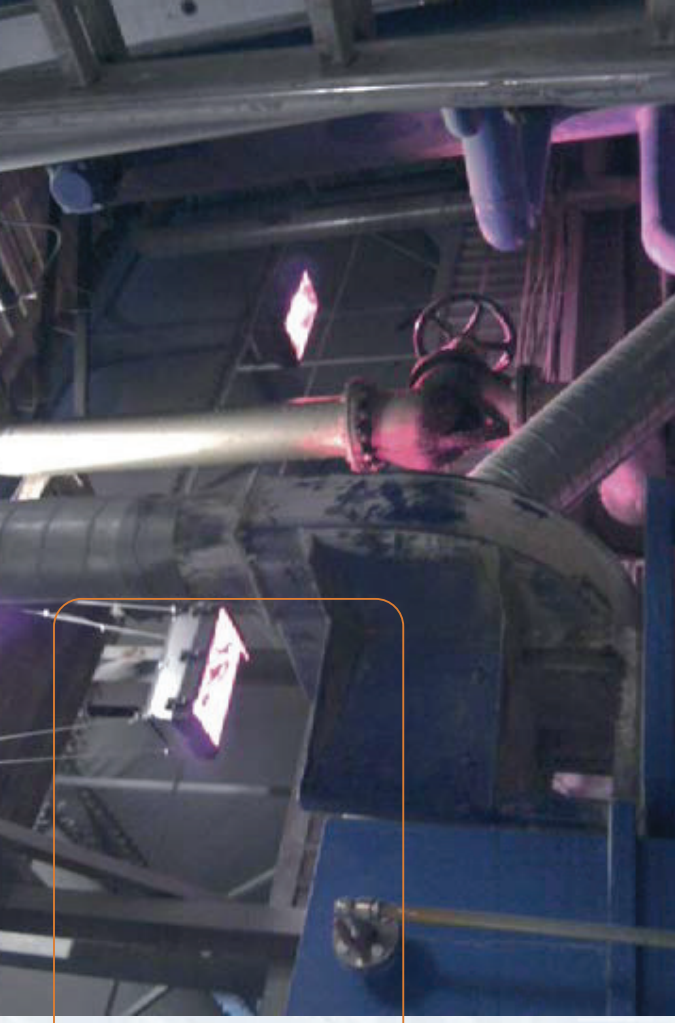
HELIOS SAFE INDUSTRY IP66 heater has been designed, manufactured and tested to work in full safety in virtually explosive environments and made in compliance with the ATEX regulations in force.

INDUSTRIAL APPLICATIONS IN VIRTUALLY FIRE RISK OR FIRE PRIMER AREAS REQUIRING THE USE OF HELIOS SAFE INDUSTRY IP66 COMPLYING WITH ATEX REGULATIONS:

- ▶ Working areas in the presence of fuel oil / fuel / flammable powder
- ▶ Rooms storing flammable materials
- ▶ Body shops
- ▶ Wood industry
- ▶ Chemical – Pharmaceutical industry
- ▶ Agricultural – livestock sectors
- ▶ Boatyards



Wood industry – painting booth



HELIOS SAFE INDUSTRY IS SUITABLE TO BE INSTALLED IN AN EXPLOSIVE ENVIRONMENT ASSESSED AS ZONE 2-22, IN ACCORDANCE WITH DIRECTIVES 94/9 AND 99/92 CE ATEX

GAS - STEAM
zone 2

environment where it is likely that an explosive atmosphere, consisting of a mixture of air with flammable substances, under the form of gas, steam or fog, lasts just for a short time (typically in a state of anomaly).

POWDER
zone 22

environment where an explosive atmosphere under the form of a cloud of combustible powder in the air shows up during normal operation but lasts just for a short time.

Helios Safe Industry heaters can be installed in 2-22 working zones.

HEATING BY HELIOS SAFE INDUSTRY

PRESENCE OF FLAMMABLE GAS



PRESENCE OF FLAMMABLE POWDER



PRESENCE OF EMISSION SOURCES

