



WHY CHOOSE FRACCARO RADIANT HEATERS FOR HEATING AND COOLING



FOR THE INDUSTRIAL SECTOR

The industry sector requires powerful and effective heating systems, since the quality of the environment has a direct influence on people's productivity.



RESIDENTIAL AND TERTIARY

At home, as well as in the workplace, thermal comfort is a fundamental element for the quality of life and health.



FOR GREENHOUSES AND LIVESTOCK BREEDINGS

Livestock breeding and greenhouses are specialized environments, with particular needs related to the presence of living organisms.



FOR THE RAILWAY SECTOR

The railway transport industry needs large heated spaces to ensure adequate comfort to technicians, which carry out maintenance work on the rolling stock, important to guarantee the safety of all travelers.



FOR PLACES OF WORSHIP

The places of worship are the most peculiar environments. Intended for moments of recollection and meeting of the community, they require optimal comfort and good functioning, taking care not to compromise the architecture of the place with invasive installations.



FOR THE AVIATION INDUSTRY

The aviation industry needs large hangars to store and maneuver aircraft easily. These environments need to be heated and cooled in order to guarantee the adequate comfort for the technicians.



BETTER HEATING

When you choose an air-conditioner, you are deciding the quality of life for you and others.

Thermal comfort is a fundamental need: a healthy and cozy environment at home and at work improves physical and mental balance, well-being, and the productivity of those who live and work with you.

A radiant system not only heats and cools: it also enhances the quality of your life.



HEATING WITH SUSTAINABLE COST

Comfort is a need that cannot be relinquished both at home and at work. But how can it be achieved at a **sustainable cost**, both for us and the environment?

The answer is a **radiant system**: in order to live and work in a comfortable environment with **maximum energy savings**.

With a radiant heating system, you only have to relinquish waste, not comfort.



GREATER SAVINGS

By installing a radiant air-conditioning system in your house or office, you can greatly reduce power consumption, and therefore management and maintenance costs as well as your building's environmental footprint.

Calculate right now how much you can save on your energy bill.



- GIRAD - Radiant heat strips
- PANRAD - Radiant Tubes
- PLAFORAD - Radiant ceilings with integrated water panels
- ENERGO - Electrical radiant panels
- SUNRAD - Infrared emitters for worship places
- WATERSTRIP - Radiant panels for hot water or steam



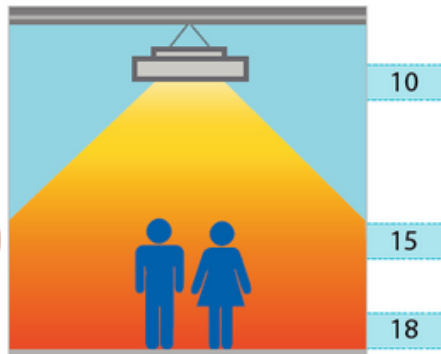
ENERGO

Electric radiant heaters

The ENERGO range of electric radiant heaters is the ideal solution for heating rooms of different heights where heat losses are high.

HUGE ENERGY SAVINGS

High efficiency, no CO, benefits of directed radiant heat.



WASTE-FREE
heating only where it is needed.

Radiant heating

- No air movement.
- No heat loss below the ceiling of buildings.
- Guaranteed energy savings.
- Optimum room comfort.
- Only where you need it.

ADVANTAGES

- Exceptional radiation efficiency
- High operating economy
- High durability and minimal maintenance
- Independence of each individual of each radiation element
- Precise control of heated areas
- Quick and easy installation
- Small dimensions and compact construction



ELECTRIC RADIANT PANELS ENERGY INFRA INDUSTRY

Electric radiant ceiling panel type ENERGOINFRA INDUSTRY with on/off switching, made of grey painted steel construction, reflectors in anodised aluminium, together with an electrical box with IP44 protection, and adjustable mounting bracket.

ELECTRIC RADIANT PANELS ENERGYINFRA

Electric radiant ceiling luminaire type ENERGOINFRA, on/off, white steel construction, anodised reflectors aluminium, complete with electrical box, special cable and internal IP44-protected connection box and mounting bracket.

ENERGOSTRIP ELECTRIC RADIANT PANELS

The ENERGOSTRIP series of on/off electric radiant panels are consist of a protective structure made of white painted steel sheet with single heating elements of different power ratings, depending on the model required, together with the electrical box, the special cable sheath and the internal IP44-protected junction box and a ceiling mounting bracket.

ENERGYCASSETTE ELECTRIC RADIANT PANELS

ENERGOCASSETTE series electric radiant panels, on/off, white, with pleasant design for integration into the architecture of all environments, together with the electrical electrical box, special cable and internal junction box with IP55 protection and mounting bracket.



Comfort



Environment



Savings



Quality



Safety

MORE REASONS TO CHOOSE FRACCARO RADIANT



State of the art experimental laboratory



Technical Service Assessments



Technical staff for installation



Technical support staff

PANRAD

Radiant Tubes

Thanks to the limited size and to the extreme simplicity of installation, PANRAD is the best solution for heating workstations or a complete hall. Thousands of modules of radiant tubes PANRAD installed all over the world are the most striking proof of the very reliable products Fraccaro.

GIRAD

Radiant heat strips

The generators are available in 3 models:

- **Standard** with gas modulating burner
- **High efficiency** with air-gas modulating burner
- **Condensing Unit** with heat recuperator and air-gas modulating burner
- **Oil** working with diesel fuel

Power range: 50/100/115/150/200/300 KW



ADVANTAGES

- Excellent radiant efficiency
- High operating saving
- Long duration and minimum maintenance
- Independence of every single radiant tube
- Precise control of the areas to be heated
- Possible remote control of appliances
- Quick installation
- Compact dimensions
- Length of radiant tubes from 3 to 24 meters

ADVANTAGES

- Optimal comfort and homogeneous temperatures
- Very high efficiency of the system
- Possibility of heating only some zones
- Energy savings on gas and electrical consumptions
- No air stratification / No air drafts
- **LOW GAS CONSUMPTION** The latent heat of the combustion fumes is recuperated allowing up to 50% energy saving compared to any condensing hot air generator and any underfloor heating with condensing boilers.
- **PAYBACK TIME** Payback time of only about 2 years compared to normal Girad radiant system.
- **GREAT COMFORT FRACCARO** radiant heating ensures an outstanding thermal comfort inside the building.
- **FLEXIBILITY OF SETTING** The power is adjusted in real time according to the energy requirements of the building (modulating burners).

CONSTRUCTION DETAILS

PANRAD radiant tubes consists of:

- **AIR-STREAM BURNER** with multi-venturi tubes;
- **STAINLESS STEEL EXPANSION JOINTS** compensate the heating dilatation of the pipes;
- **HIGHLY EFFICIENT REFLECTOR** allows an homogeneous heating;
- **RADIANT PIPES** direct fire radiant pipes with flanged connections for perfect tightness;
- **CEILING HOOKS** to make the installation fast and flexible;
- **BURNER & FANS** in the same box for easy maintenance and duration of components.

PANRAD is the best solution for very high buildings and areas with great heat losses.

Complies with EN-416

WATERSTRIP



The Hot Water Panels are suitable for both industrial and civil environments at fire risk. They provide effective, safe and silent heating with no air movement for small, medium and large buildings.

Thanks to the reduced heat stratification, the installation with hot water panels ensures an extraordinary environmental comfort.



INNOVATIVE CONSTRUCTION FEATURES

Certified in accordance with EN-14037

- **TUBES Ø 22**

Zinc plated steel tube diameter 22 mm, which is the nominal size suitable for all the 22 mm pressfittings.

- **STANDARD LENGTHS: 4 AND 6 METERS**

Sizes and colours out of standard upon request.

- **PRE-PAINTED PANEL**

Radiant panel in zinc plated pre-painted steel.

- **SELF-SUPPORTING FRAME AND SLIDING HOOKS**

Radiant panel with self-supporting frame to offer the best stiffness.

- **FLEXIBLE INSTALLATION**

Best flexibility in the installation thanks to the sliding hooks installer the claims all along the self-supporting frame; or hang them on the fix frames every 1,5 m.

- **ASYMMETRIC MANIFOLDS**

Asymmetric manifolds with balanced flow for uniform temperature on the panel.

- **TEMPERATURE**

The maximum temperature of the fluids up to 120°C.

- **PRE-MOUNTED INSULATION**

for faster installation.

ADVANTAGES

- High efficiency and energy savings
- -30% consumption compared to installations with hot air
- No ventilation system -50% electrical consumption
- No air movement
- No noise
- The best solution for environments at high fire-risk, where a high radiant efficiency is required



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