C O M F O R T F O R L A R G E S P A C E S

R a d i a n t h e a t i n g

SUSTAINABLE

Gaz Industrie

The comfort for **LARGE SPACES**

Proud to be a part of Thomas & Betts

For over a century Thomas & Betts has been a leader in manufacturing electrical components, steel structures and HVAC equipment. Since 2002 the Gaz Industrie team contributed to the world-wide growth of Thomas & Betts while benefitting from the association of 13000 fellow employees.

A market leader passionately focused on excellence

Even before the stakes were raised to an international level, Gaz Industrie already had a reputation for excellence unrivalled in its field. Our installations, widely acclaimed on every continent, demonstrate our striving for the latest technology and innovation.

A wide product range

Since our integration into Thomas & Betts, we have been able to strengthen our position as the undisputed leader in radiant heating. We have extended our range with the most innovative solutions for warm air heating and ventilation, for both industrial and institutional buildings.

We innovate for your benefit

Our R & D department is equipped with the most advanced equipment and software. They are always conscious to the needs of the market in order to provide you with the solutions that are best suited to your demands for comfort, quality and performance. All within the constraints of your budget.

Our customer orientation

When choosing the right solution for heating, cooling or ventilating, you need to take into account numerous variables related to your building and its uses. We offer you our expertise in every stage of your project. We will advise you about the most efficient ways to use meet your project goals.

High quality that ensures sustainable solutions

Our philosophy is staunchly focused on protecting the environment. This philosophy is based on two principles, the performance of the equipment in our range and the materials used in our fabrication process. In this way, we can reduce energy consumption. Only a rigorous quality policy enables us to sustain these efforts as well as our ambitious goals.





HEATING for industrial and commercial buildings

Gaz Industrie is fully dedicated to a quality-based approach, as confirmed by our ISO 9001 certification. We take active part in the efforts of different interests groups involved in the development and maintenance of standards for decentralized gas heating.

THE STRENGTH OF

Thomas&Betts

eating

SOLUTION for HIGH CELLING BUILDINGS
insulated or not

BTwin™ RADIANT TUBES
« Performance and comfort: the choice of excellence»

ENERGY SAVINGS of 20 to 50%
in comparison with conventional systems:
- Fast heat startup
- No stratification, minimises waste of heat
- Highly efficient radiant and combustion models
- Heat is produced where needed to avoid energy losses

CLEAN SYSTEM: no displacement of air or dust

ADJUSTABLE SYSTEM:
- Total building or spot heating
- Choice of flue type: individual flue, collective flue system or balanced flue system (roof or wall)

ACOUSTIC COMFORT: quiet

SIMPLE AND QUICK INSTALLATION

NEW

"BTwin™" radiant tubes

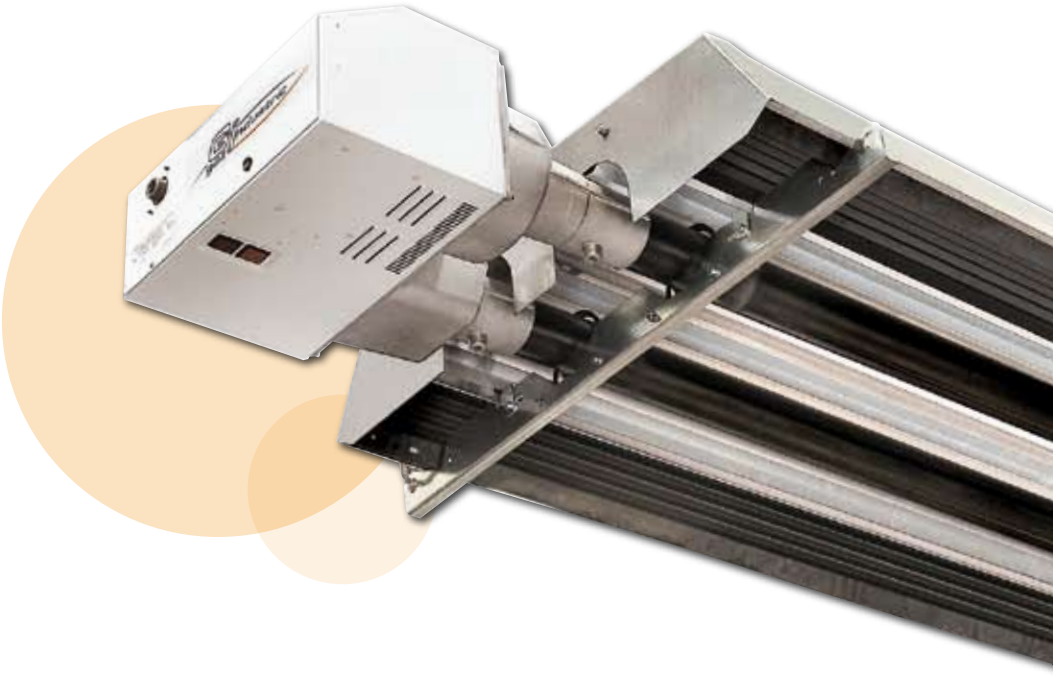
The CHOICE of EXCELLENCE

- Output : 21 to 45 kW
- Length : 5 to 17 meters
- **Exceptional radiant efficiency of 73 %** (BTH2R and BTLH2R)
- Energy savings
- Total building or spot heating

SUSTAINABLE

USES

- **Industrial buildings**
- **Production plants**
- **Car dealerships**
- **Exhibition halls**
- **Warehouses**
- **Commercial surfaces**
- **Sports and entertainment**



6 VERSIONS

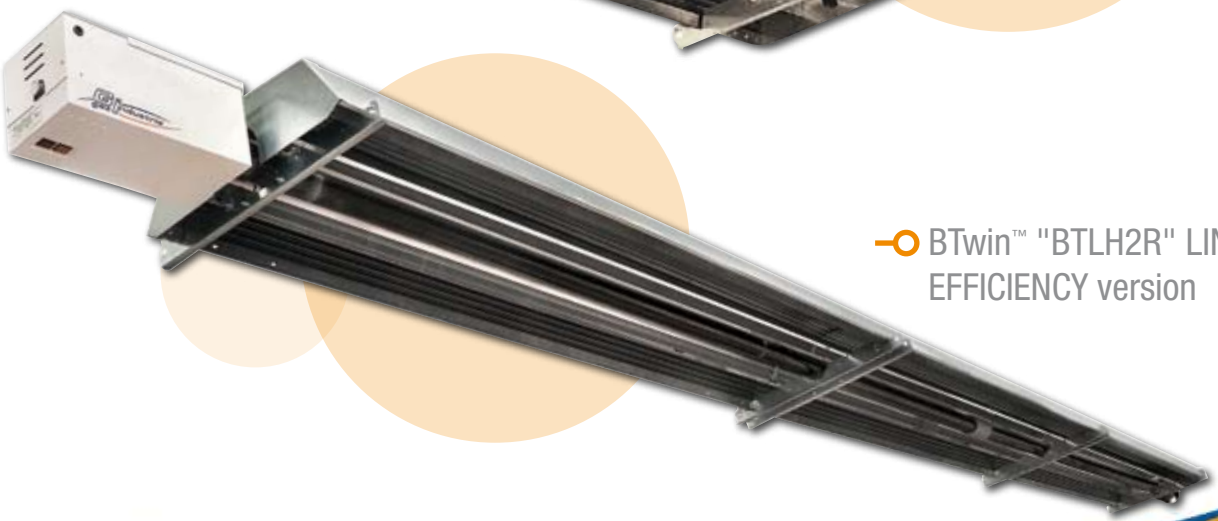
- **Compact**
- **Linear**
- **High combustion efficiency: BTH - BTLH**
- **High combustion and radiation efficiency: BTH2R - BTLH2R**

The advantages of the BTwin™ range

- Choice of output, with or without converter
- Optimized radiant efficiency
- Gaz Industrie burner: venturi system, very long flame and quiet operation, with patented flame centering system
- Easy accessibility of the components: removable control unit, mono-electrode, monobloc gas burner...
- 3 possibilities for exhaust venting:
  - individually
  - Type C, by horizontal or vertical wall- or roof outlets
  - joined to 1 collector for collective exhaust
- Options :
  - isolation transformer
  - remote control display

BTwin™ "BT" COMPACT version

BTwin™ "BTH2R" COMPACT HIGH EFFICIENCY version



BTwin™ "BTLH2R" LINEAR HIGH EFFICIENCY version

"BTwin™" radiant tubes

The CHOICE of EXCELLENCE

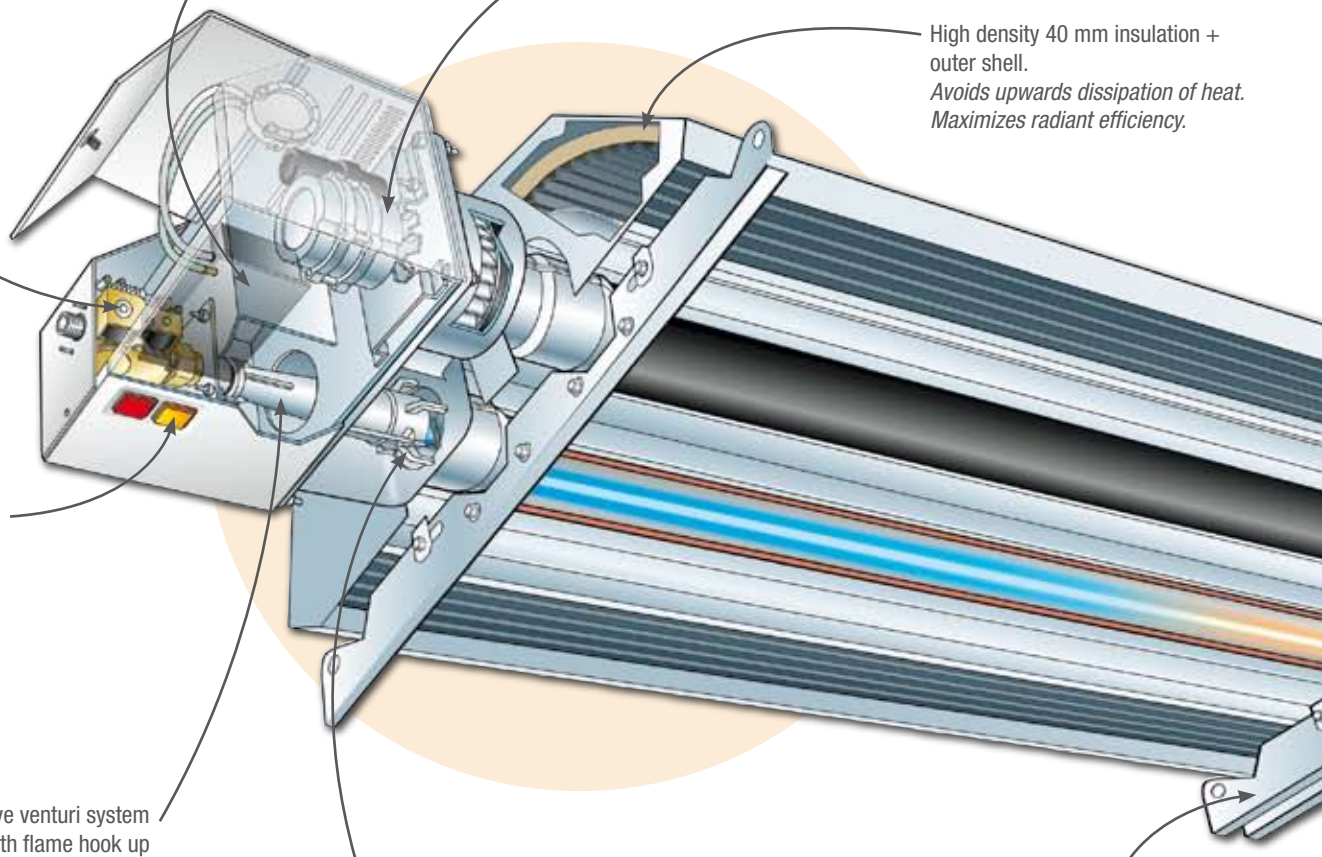
Examples of applications

Removable electric box.
Easy accessibility.

Cooled propeller of the driving axis, ball bearing.
Longetivity of the motor-fan assembly.

Electromagnetic gas valve with double valve.
Operational safety.

High density 40 mm insulation + outer shell.
Avoids upwards dissipation of heat. Maximizes radiant efficiency.



High luminosity control indicators placed on the lower face.
Easily visible from the ground.

Exclusive venturi system burner with flame hook up and integrated electrode.
Very long and stable flame, quiet operation and reliable ignition.

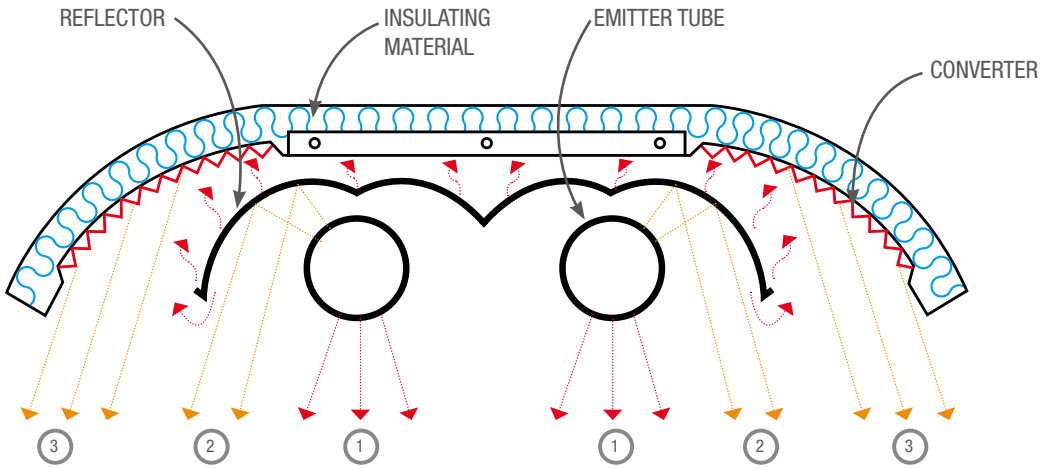
Patented flame centering device.
Even distribution of heat, durability of emitter tube.

Fastening bracket constructed of thick zinc coated steel.
Robustness and stability.

PATENTED SYSTEM

BTwin™ version "BTH2R":

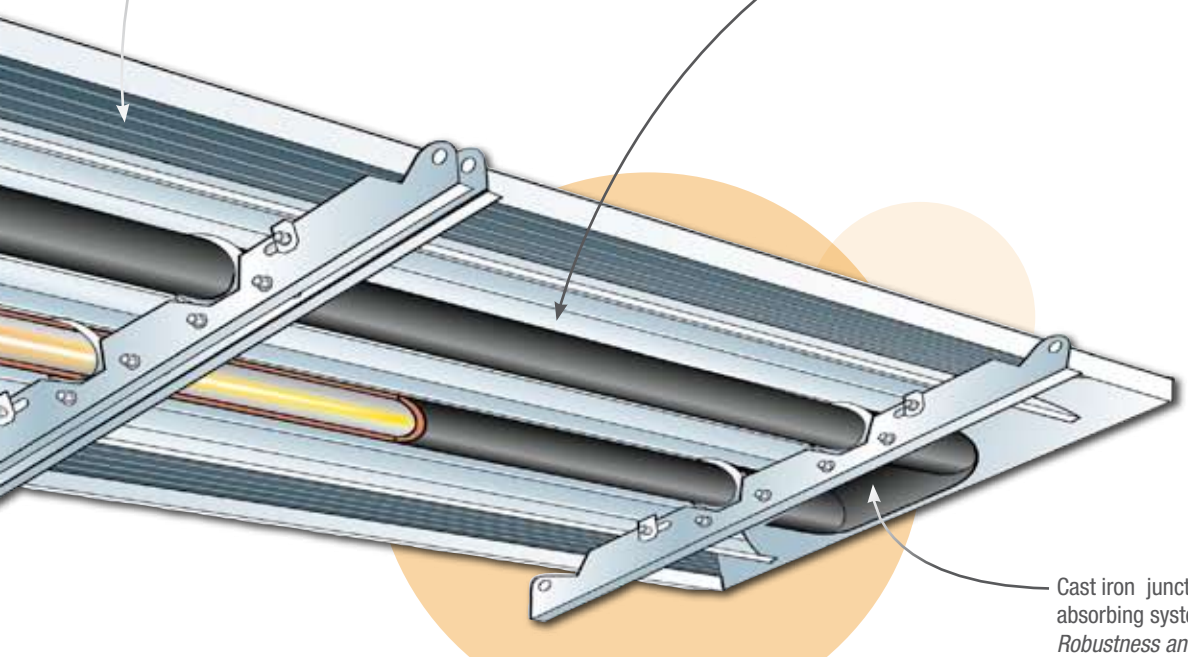
The converter transforms convection into radiant. Energy savings by optimazing efficiency.



1. *Direct radiant heating*
2. *Reflected radiant heating*
3. *Recovered radiant heating*

Convection converter / patented radiant system. Made from black steel folded to maximize the emitting surface.
Increased radiant efficiency, a soft and even warmth. Energy efficient.

Polished aluminized steel reflector. Highly reflective double cycloidal profile.
Avoids overheating of the radiant tubes and increases output.

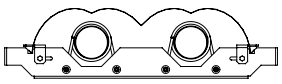


Cast iron junction with expansion absorbing system.
Robustness and longetivity.

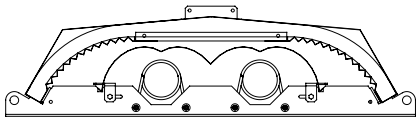
BTwin™ compact version

Technical characteristics

			BT25 / BTH25 / BTH2R25	BT35 / BTH35 / BTH2R35	BT45 / BTH45 / BTH2R45
Nominal heat input		kW	25	35	45
Nominal gas flow (m³/h)	2H	20 mbar	2,65	3,7	4,76
	2L	25 mbar	3,08	4,31	5,54
	3P	37 mbar	1,94	2,72	3,5
Ø gas connection			1/2" gas	1/2" gas	3/4" gas
Voltage			230/240V 50Hz Single phase	230/240V 50Hz Single phase	230/240V 50Hz Single phase
Electric start up power		VA	115	115	115

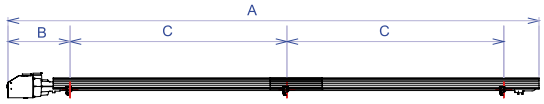


BT

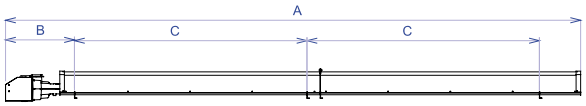


BTH2R

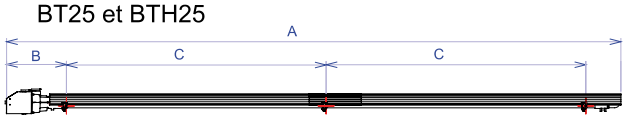
Dimensions (mm)



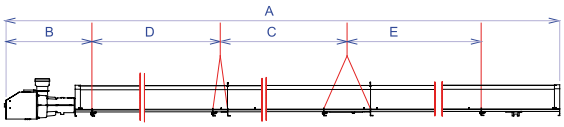
BT25 et BTH25



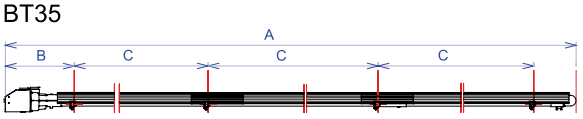
BTH2R25



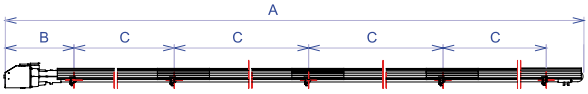
BT35



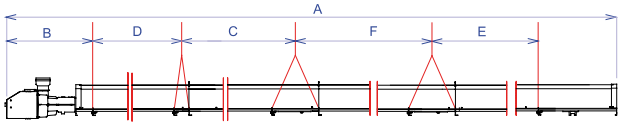
BTH2R35



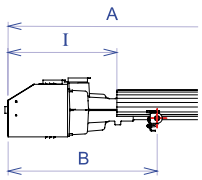
BTH35 et BT45

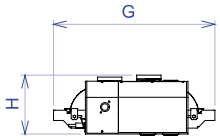


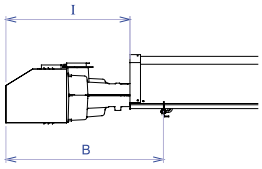
BTH45

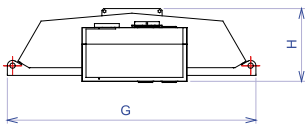


BTH2R45









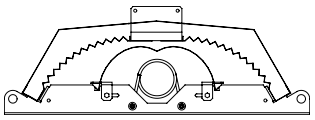
	BT25	BTH25	BTH2R25	BT35	BTH35	BTH2R35	BT45	BTH45	BTH2R45
A	4970		5020	5770	8260	8540	8260	10670	10820
B	580		602	580	580	650	580	580	650
C	2030		2029	2430	2430	2550	2430	2430	2550
D	-	-	-	-	-	2490	-	-	2490
E	-	-	-	-	-	2250	-	-	2170
F	-	-	-	-	-	-	-	-	2360
G	630		950	630	630	950	630	630	950
H	230		280	230	230	280	230	230	280
I	430		474	430	430	528	430	430	528
Weight in kg	70	72	142	87	120	246	126	159	318
Minimum number of suspension points	3	3	3	3	4	4	4	5	5

BTwin™ linear version

Technical characteristics

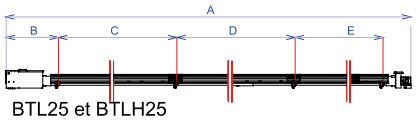
			BTL25 / BTLH25 / BTLH2R25	BTL35 / BTLH35 / BTLH2R35	BTL45 / BTLH45 / BTLH2R45
Nominal heat input		kW	21	35	45
Nominal gas flow (m^3/h)	2H	20 mbar	2,22	3,7	4,76
	2L	25 mbar	2,58	4,31	5,54
	3P	37 mbar	1,63	2,72	3,5
Ø gas connection			1/2" gas	1/2" gas	3/4" gas
Voltage			230/240V 50Hz Single phase	230/240V 50Hz Single phase	230/240V 50Hz Single phase
Electric start up power		VA	115	115	115

BTL

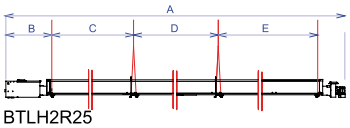


BTLH2R

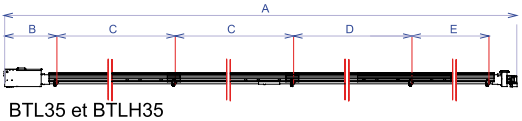
Dimensions (mm)



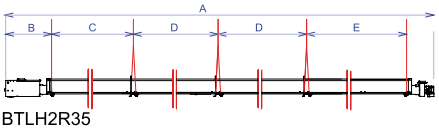
BTL25 et BTLH25



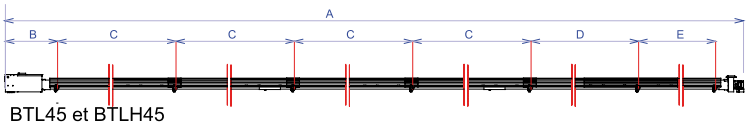
BTLH2R25



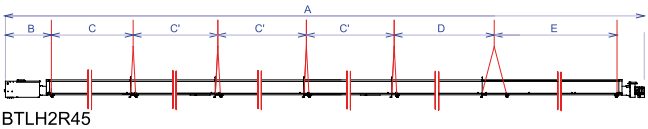
BTL35 et BTLH35



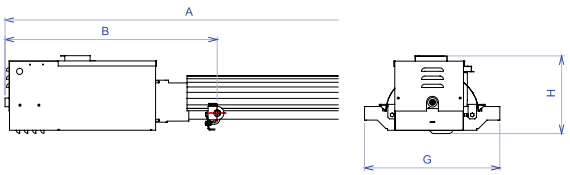
BTLH2R35

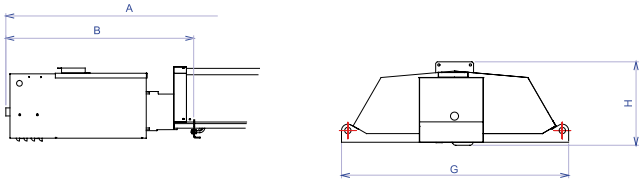


BTL45 et BTLH45



BTLH2R45





	BTL25	BTLH25	BTLH2R25	BTL35	BTLH35	BTLH2R35	BTL45	BTLH45	BTLH2R45
A	8840	8840	8840	11110	11110	11110	16060	16060	16060
B	620	620	600	640	640	600	650	600	600
C	2670	2670	2640	2670	2670	2640	2670	2670	2640
C'	-	-	-	-	-	-	-	-	2670
D	2670	2670	2670	2670	2670	2670	2270	2270	2400
E	2520	2520	2580	2120	2120	2180	2120	2120	2060
G	400	400	720	400	400	720	400	400	720
H	230	230	265	230	230	265	230	230	265
Weight in kg	63	65	127	91	94	226	122	123	320
Minimum number of suspension points	4	4	4	5	5	5	7	7	7

CONTROLS radiant heating systems

Energystat range

Regulator and control box (Polyester IP55).

- Daily and weekly programming.
- 3 set point regulation.
- Visualisation of operating sequences on LEDs.
- Forced operation clock override.
- Lateral disconnect switch.
- Voltage: 230 V single phase + grounding system.

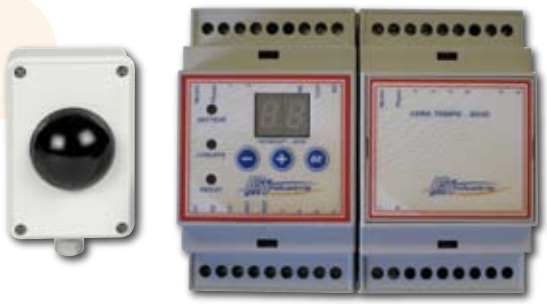
Pre-wired regulation control panel

- Steel IP59 box with key lock.
- Lateral disconnect switch.
- One or several regulation zones.
- Integrated regulator(s).
- Daily and weekly clock.
- Front control indicators.
- Forced operation clock override
- General protection for each circuit with HPC fuses.
- **Specific control panels upon request.**

Infracapt modular 20.10

- Electronic regulator, specifically designed to control radiant heating appliances, the Cera System, high intensity heaters, ...
- Two regulation thresholds, needs to be connected to a programming clock.
- Visualization of operation with LEDs and digital display of operation status.

Cera Tempo 20.10



Sequential control device for heating installations with the Cera System.

- 180 second post-ventilation, pre-set by the manufacturer
- Electronic lock during post-ventilation.
- Easy to integrate into control panels.

Radiant **HEATING**: the **COMFORTABLE**

Why radiant heating ?

Because of their large volume, their architectural features or their lack of insulation, many industrial or institutional buildings are uncomfortable, simply because they are considered to be "unheatable".
However, **radiant heating, which works like the sun, inside buildings**, allows an enjoyable level of comfort. It also prevents technical problems caused by low temperatures in a production plant.
Every device emits radiation that travels through air without heating it. When it comes into contact with objects, walls and obviously also floors, it changes into heat. These properties allow unequalled flexibility while at the same time enabling you to control operational costs.
Gaz Industrie offers a range of radiant solutions, each having their own applications, technical properties, emitted temperature and affected surfaces. This means there is always a comfortable, custom made installation available for you.

INDUSTRIAL AND INSTITUTIONAL BUILDINGS // PRODUCTION PLANTS // CAR DEALERSHIPS // EXHIBITION HALLS // WAREHOUSES // COMMERCIAL SURFACES // SPORTS CENTRES