

RADIANT CATALYTIC HEATERS CAT-RAY® TYPE 10 and 3

Installation - Working





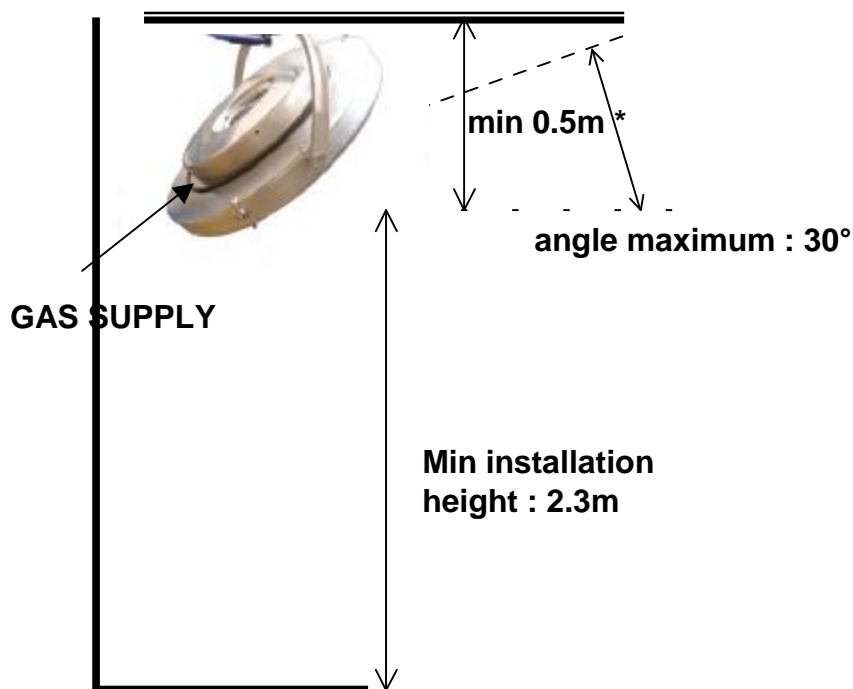
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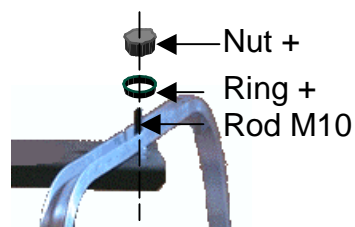


1. Installation

CAT-RAY 10



FIX THE HANDLE ABOVE THE SUPPORT



CAT-RAY 3



Hauteur au sol = min 1.5 m en position horizontale ou inclinée

Pas d'indication particulière pour position verticale.

Une grille de protection est systématiquement installée pour les appareils posés au dessous de 2m.

2. Object

The catalytic radiant panels RADIAMON CAT-RAY 10 mainly serve for the heating of industrial or public halls, sports centers, storage, halls, poultry farms, greenhouses and garages. The RADIAMON CAT-RAY 3 mainly serve for terraces, restaurants, verandas and small locations.



3. Regulation

The regulation of the Radiamon appliances is made at two levels :

- by a separate control and regulation panel.
- by the electronic card which equips each appliance.

4. Electricity

The power supply must be provided with a retarded type fuse (Type T).

The internal system does not need to be adjusted.

5. Transport

During transport, the appliance is equipped with a protective packaging of the catalytic surface. This protection must not be removed before final installation of the appliance.

6. Position

For security, the following distances must be respected :

	Type 10	Type 3
combustibles and inflammable objects and materials	Axiale minimum = 2 m	Axiale minimum = 1 m
	Radiale minimum = 0.6 m	Radiale minimum = 0.3 m
other objects:	Axiale minimum = 1 m	Axiale minimum = 0.5 m
	Radiale minimum = 0.3 m	Radiale minimum = 0.3 m

- The catalytic radiant surface may not be polluted or soiled.

It is possible to fix the Radiamon appliances in a under ceiling if the distance above the latter is superior to 0.7 m.

7. Air renewal

Air renewal rate [m^3/h] :

20 x nominal power (recommended)

10 x nominal power : EC standard (EN 13410 : 1999)



8. Recommendations

The gas supply lines must not be exposed to the radiation of the appliance in order to avoid their overheating.

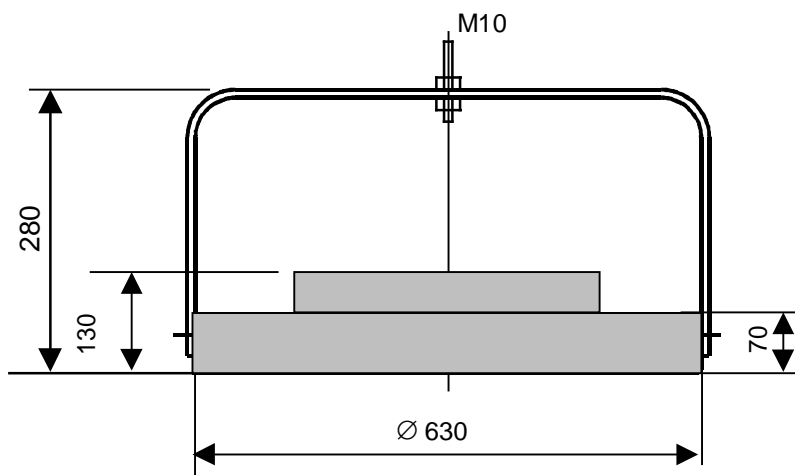
The setting of a connecting flexible is highly recommended, especially if the possibility of subsequent adjusting of direction and angle of radiation of the appliance should be preserved. The flexible must correspond to standards in force.

Between the gas line and the connecting flexible, it is recommended to install a valve ¼-turn in order to permit the individual removal of the appliances for revision or control.

A filter is installed at the gas entry of each appliance. If a second filter is installed higher up, it should be verified that the losses do not reduce the power.

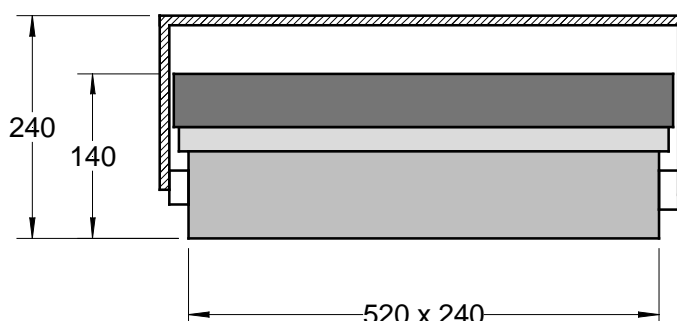
9. Dimensions:

Appliance CAT-RAY 10 , weight : 9.5 kg



Appliance CAT-RAY 3 ,weight : 8.5 kg

Appliance weight : 9.5 kg







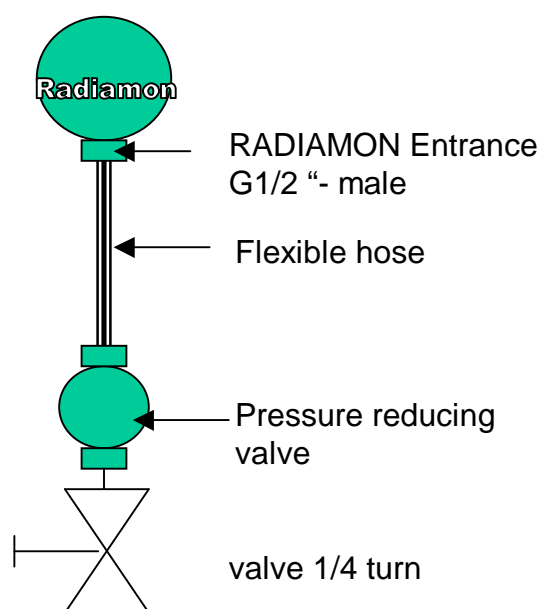
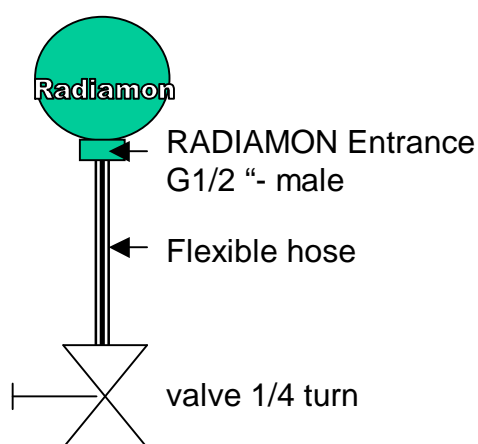
10. Line connection

The label of each appliance indicates the type of gas, the calorific power, the year of production and the identification number.

Pressure for states

Pressure		AT	BE	DK	DE	CH	FR	GB	NL	SE
mbar										
50	P	X			X				X	
30	P								X	
37	P		X			X	X	X		
29	PB									
25	GN		X				X		X	
20	GN	X	X	X	X	X	X	X		X

P=Propane ; GN=Natural gas ; PB= Propane/Butane



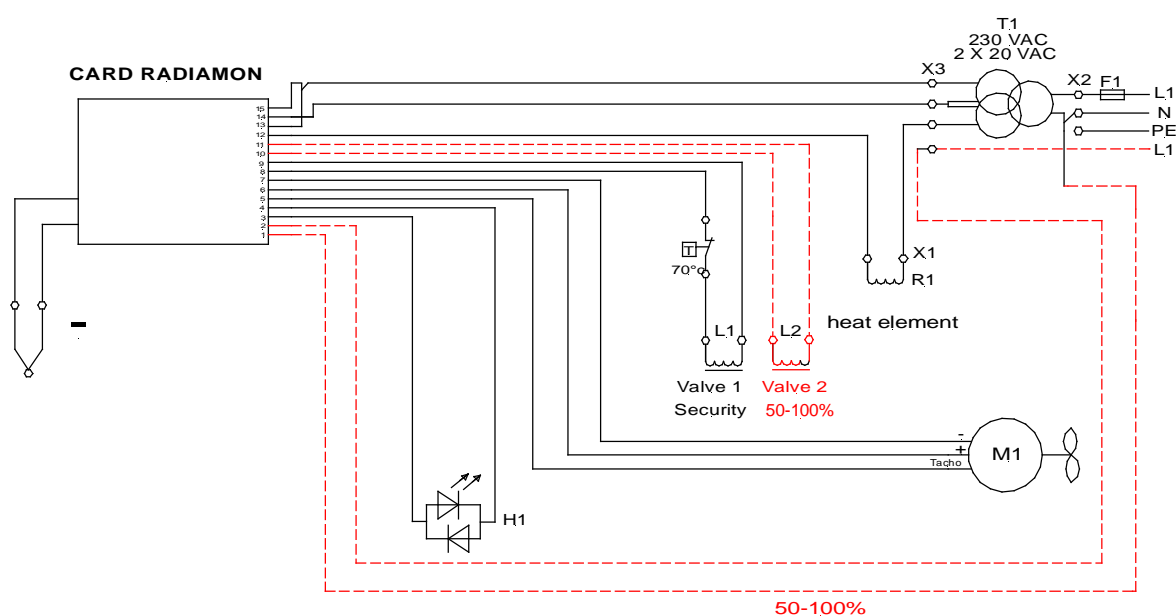


11. Electric cabling

Pour CAT-RAY 10 : Supply cable = 4 x 0.75 mm²

Pour CAT-RAY 3 : Supply cable = 3 x 0.75 mm²

Dotted lines for type CAT-RAY 10



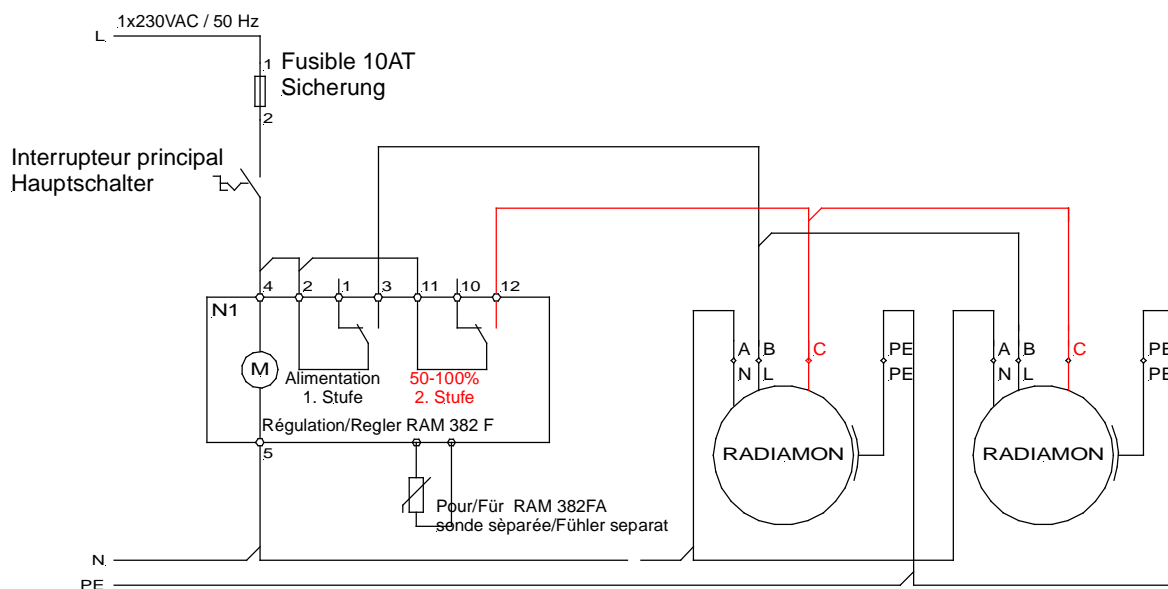
blue (neutral)
black (supply)
brown (Regulation) 0-230V
Yellow/green (earth)

Supply cable : 4 X 0.75 mm²

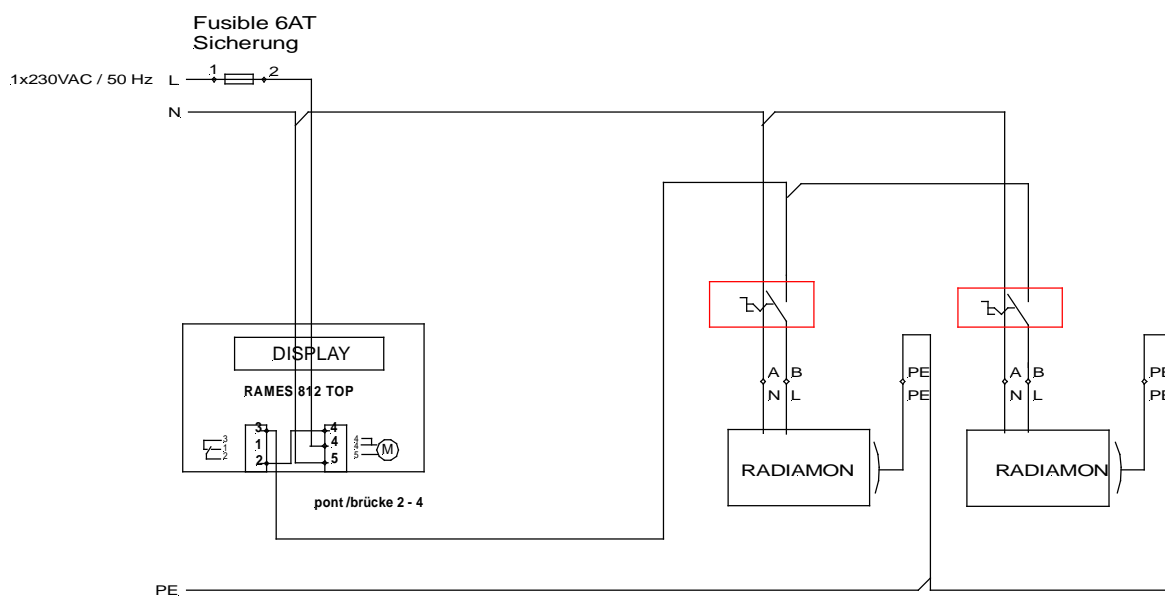


Thermostat :

RAM 817 TOP : for type CAT-RAY 10



RAM 812 TOP : for type CAT-RAY 3





12. Starting

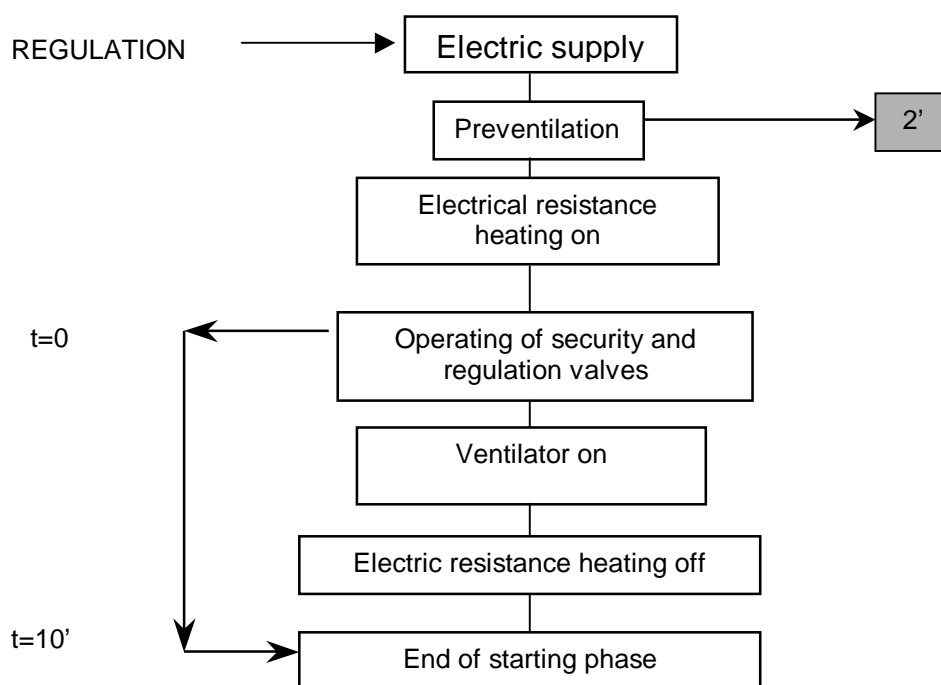
Open the gas supply valve and switch on the electric power.

Each appliance is regulated by an electronic card which control the correct operation of the appliance.

A luminous diode (001055) indicates the operational state of the appliance : (placed on the side of the cap)

- BLINKING GREEN = pre-start phase
- GREEN = OK
- BLINKING RED = failure.

13. Operating phases





14. Equipment supplied by manufacturer

Complete heating appliance, i.e.

- Catalytic radiant panel, type 10N, according to specified fuel gas and supply pressure.
- Suspension handle, permitting the orientation and inclination of the appliance

Not supplied :

- Regulation system (thermostat or cabled case ready to be connected) with detailed electric diagram¹.
- Pressure-reducer according to type of gas.
- Flexible, valve ¼, coupling-pieces.

14.1. Material supplied by the installer :

- Fixing appliance on ceiling or wall.
- Eventually : a principal magnetic valve or without pressostat.
- According to type of case : artificial system of ventilation controlled by regulation board or by hydrostatic sounding-line.
- If necessary, a protection grating can be mounted on each appliance. Get information from the manufacturer or his representative.

15. Maintenance

The maintenance of RADIAMON appliances is carried out by mounters or approved installers.

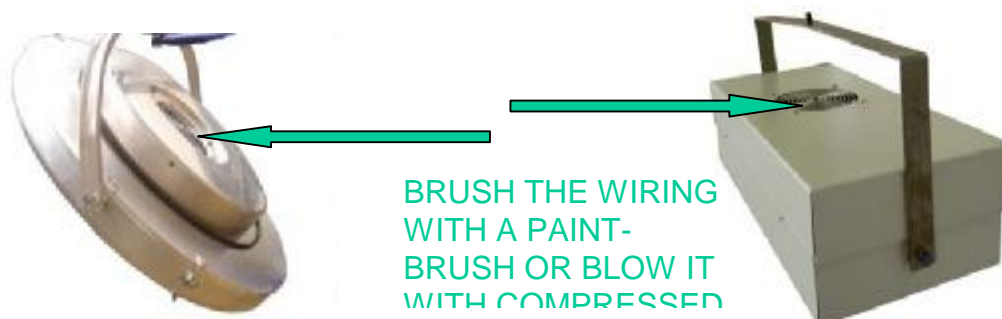
A minimum cleaning must be undertaken normally once a year by the customer or his representative.

In case of high concentration of dust, this cleaning must be carried out more often.

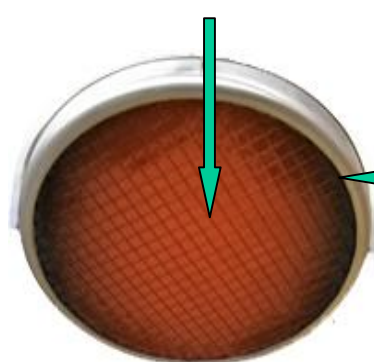
See following page for explanations on minimum cleaning.



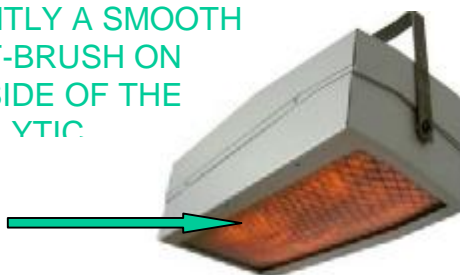
MINIMUM ANNUAL CLEANING



MAKE SURE THAT NO PERFORATIONS EXIST IN THE CATALYTIC



PASS VERY SLIGHTLY A SMOOTH PAINT-BRUSH ON THE SIDE OF THE CATALYTIC



*** This cleaning can destroy the catalytic fibres.
To be done only if big particles accumulate at the surface dust or**

NEVER BLOW COMPRESSED AIR ON THE CATALYTIC SURFACE

16. Important remarks

- The catalytic panel surface is particularly delicate and must be protected against contacts, shocks and projections of water or air jets.
- The appliances must be installed in a way to avoid any risk of inflammation of objects and must be out of reach of children and animals.
- Do not expose RADIAMON appliances to high chlorine concentrations.

DO NOT SPRAY LAQUERS OR PAINTS UPON THE CATALYTIC SURFACE.



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