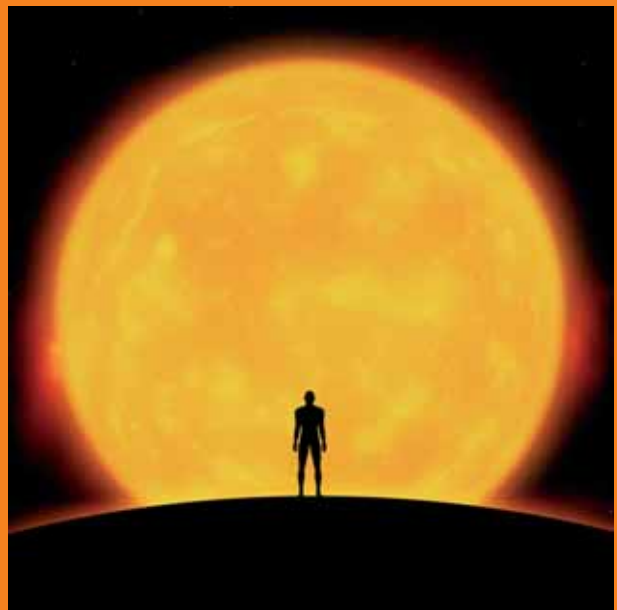


# radiant heating

---



since 1952

**SIABS**<sup>®</sup>

burners & radiant heating

Only the sun heats better than SIABS because its neverending radiant energy costs nothing. SIABS, one of the first and more important constructors in the world, since 1952, has industrialized the technology of the heat emission for irradiation keeping the principle from the sun.

Like the sun, in fact the products SIABS give out heat in natural way, they contribute to save energy source: the gas.

Thanks to the experience of SIABS with the radiant technology, today is possible to dry, burn, cook, dehydrate, fuse, heat...

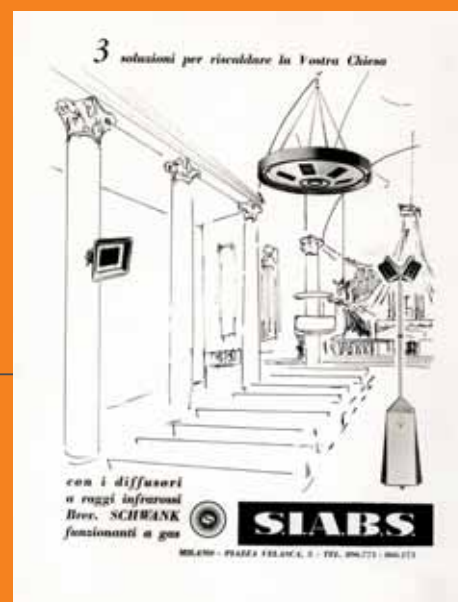
Today, SIABS, produces:

- hanging radiant heating
- movable radiant heating
- gas heated connectors
- gas radiant tubes
- industrial radiant burners
- radiant burners low NOx
- thermal appliances of process
- thermal groups
- driers

# SIABS have been heating



1958  
Cardinal Montini visiting the  
Milan Trade Fair



1953  
Advertisement for the  
heating of churches

## Tradition heating (convection)

The traditional convection system at hot air concentrate the maximum of thermal energy where less it is used and where, besides, it is more difficult to solve the problems due to the isolation. The hot air converges on the ceiling rising up as to the normal values required where people are working.



# large places ever since 1952



1956  
Winter Olympic Games  
in Cortina d'Ampezzo



1960  
Porch heating

## radiant heating: natural technology

### Radiant heating

irradiation is a particular form of transmission of energy through infra-red rays that becomes heat when in contact with any kind of absorbent corp. It travels at light speed, it does not heat the overall volume of air, rather it directly heats surfaces areas. This principle of operation allows to obtain greater saving and condition of optimum comfort in the working-area, extremely congenial to the ones required from human organism.



page 4 ds

» 5 mr

» 6 ufo

» 7 md

» 8 dc

» 9 dc eco

» 10 t

» 11 brp

# ds

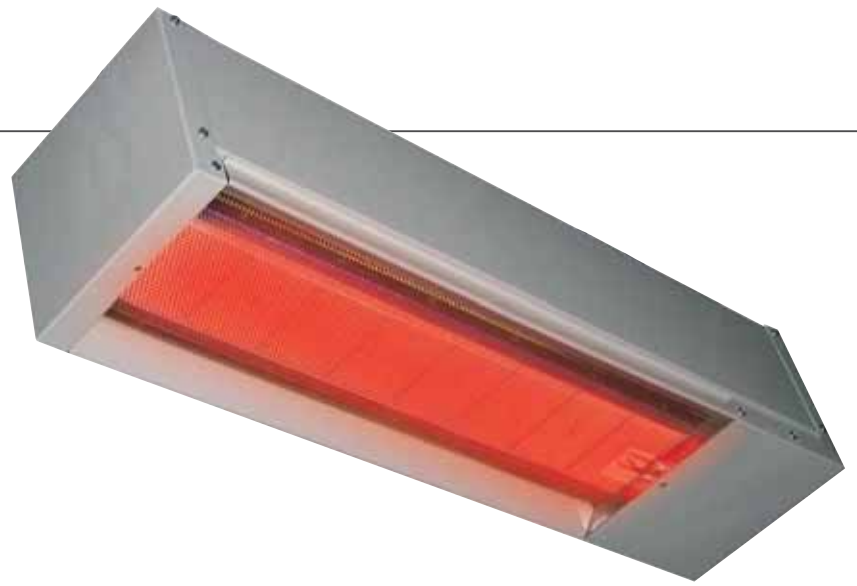
churches  
colonnades  
gyms

Its very solid structure and distinctive design make this range of enamelled steel plate gas diffusers particularly suitable for use in places where in addition to the temperature yield the integration into the architectural context makes the difference. Especially for global, restricted and/or occasional heating.

The radiative surface is made of special microperforated ceramic plates, the reflectors are made of enamelled steel plate; colours available are: IVORY (RAL 1013), GREY (RAL 7005) and BROWN (RAL 8011).

It is safe thanks to an automatic electronic ignition and flame control system which can be worked by timers or thermostats.

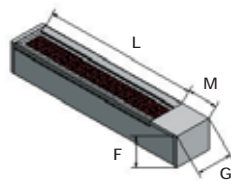
On special request we supply customized colours for implementation in places which have to respect aesthetic obligations.



### technical data

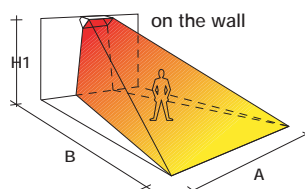
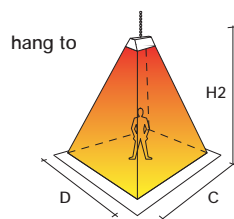
			DS4	DS6	DS8	DS12
heated surface	min-max	mq	25 - 35	35 - 45	40 - 65	60 - 80
heating capacity		kW	6,5	9,5	13,0	19,0
G.20 natural gas	gas consumption	mc/h	0,70	1,05	1,40	2,10
	pression	mbar	20 - 45	20 - 45	20 - 45	20 - 45
G.30 LPG	gas consumption	kg/h	0,60	0,79	0,98	1,47
	pression	mbar	35 - 45	35 - 45	35 - 45	35 - 45
working			electronic			
electric feeding			singlephase 230V - 50Hz - 25VA			

NOTE - On request different voltage and frequency, for EXPORT.



### dimensions

			DS4	DS6	DS8	DS12
L	heater length	mm	370	555	740	1110
M	valve protection	mm	220	220	220	220
	length overall	mm	670	855	1040	1410
F	width	mm	240	240	240	240
G	height	mm	260	260	260	260
	weight net	kg	12,0	15,0	17,0	22,0
	gas fittings diameter	1/2"	1/2"	1/2"	1/2"	1/2"



### installation

			DS4	DS6	DS8	DS12
H1	min - max	m	3,5 - 5,0	4,0 - 5,5	4,5 - 7,0	5,0 - 10,0
A		m	4,0	6,0	7,0	8,0
B		m	4,5	6,0	8,0	9,0
H2	min - max	m	3,5 - 5,0	4,0 - 5,5	4,5 - 7,0	5,0 - 10,0
C		m	4,0	7,5	8,5	9,5
D		m	5,5	8,0	9,0	11,0

NOTE - Contact us for installation exceeding data in the table





Thanks to its movable construction, this appliance is ideal to heat temporary standing areas and open spaces.

Its look carefully made and the contained noise level let to use it for heating of environment in which is not possible to realise a fixed heating system.

The heating burner structure is made of inox steel sheet and it is located on a strong trolley bottle-holder, along with its protection carter, made of perforated steel sheet. It is also equipped of tyres for an easier moving.

It's possible to modify the inclination and width of the reflector for a better direction of the thermal flow.

The switching on is manual by piezo-electric device.

No accidental flame switch off is granted by a thermocouple detector, which operates on an interception valve cock.

The gas bottle isn't part of supply.

# mr

churches, arcades, verandas,  
outdoor areas of bars and restaurants,  
gyms and passages

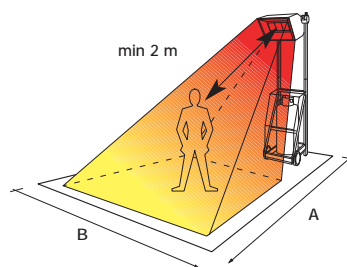
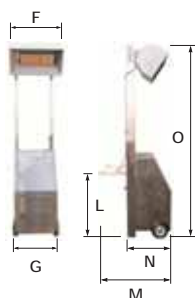
## technical data

		MR4	MR6
heated surface min - max	mq	20 - 25	30 - 40
heating capacity	kW	6,5	9,5
G.30 LPG	gas consumption	kg/h	0,47
	pression	mbar	30
working		manual	
suggested gas cylinder	kg	20	20

## dimensions

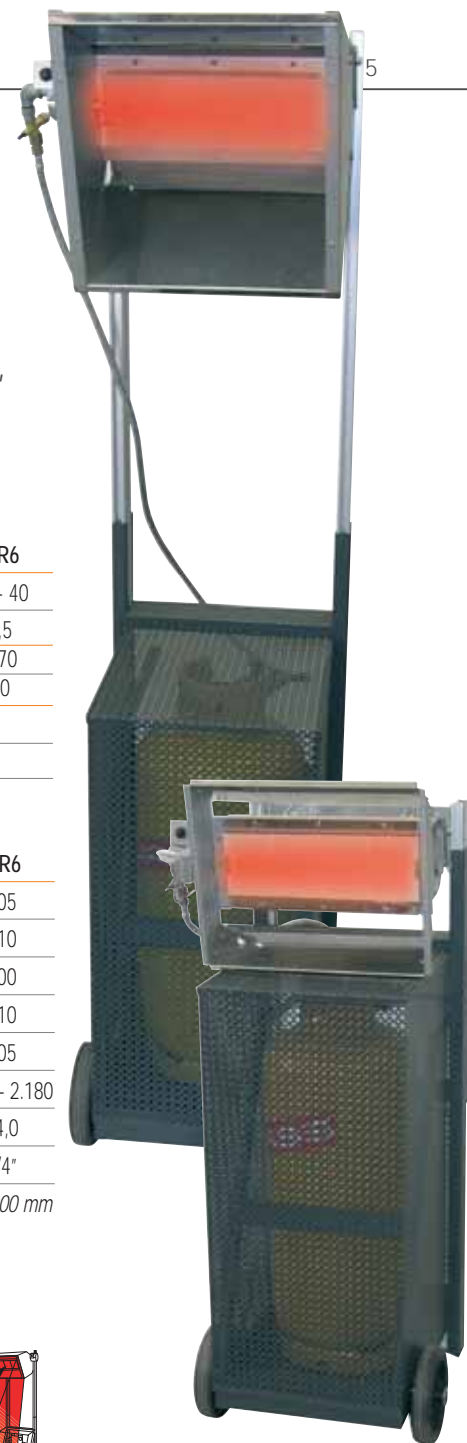
		MR4	MR6
F	heater width	mm	420
G	trolley width	mm	510
L	handles height	mm	800
M	trolley + handles	mm	810
N	width	mm	505
O	heater position	mm	1.680 - 2.180
weight	net	kg	22,0
flexible pipe for connection	diam.	3/4"	3/4"

NOTE - On request, special version with radiant heater position up to 3.000 mm



## installation

	MR4	MR6
heated surface	A x B	m
	5,0 x 4,0	6,0 x 5,0



# ufo

outdoor areas  
of commercial places

It's ideal to heat open spaces and in front of bar, open coffee shop, open air market...

This appliance has reduced dimension and it is easy to install.

It's hanged by small chain to ceiling and it doesn't occupy space on the floor.

The heater has a high performance thanks to the cylindric burner low emission realized by Metal Fibre and the reflector is made of satined alluminium with a form that distribute the thermal flow downward.

On manual version the switching on is by piezo-electric device.

No accidental flame switch off is guaranteed by a thermocouple detector, which operates on an interception valve cock.

The electronic version has an ignition automatic system and controll it.

Which this model version is possible lead switch on/off by thermostat or clock-controlled governor.

On request is possible supply, both version, with a support-holder.



suspended



wall



floor

## technical data

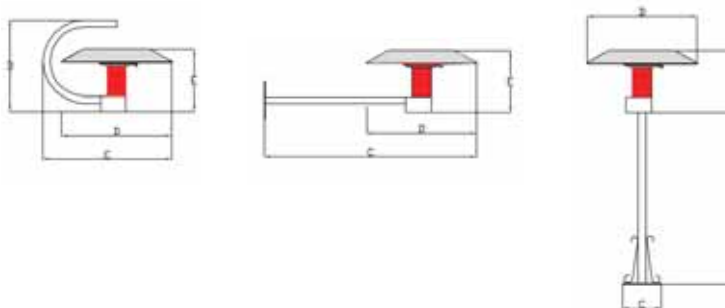
			"suspended"	"wall"	"floor"
installation height	min-max	mt	3,0 - 4,0	3,0 - 4,0	see B quote
heated surface	min-max	m <sup>2</sup>	15 - 20	15 - 20	15 - 20
heating capacity		kW	8,0	8,0	8,0
G.20 natural gas	gas consumption	mc/h	0,80	0,80	0,80
	pression	mbar	20 - 45	20 - 45	20 - 45
G.30 LPG	gas consumption	kg/h	0,70	0,70	0,70
	pression	mbar	35 - 45	35 - 45	35 - 45
weight	net	kg	7,0	7,0	11,0
gas fitting diameter			3/8" male	3/8" male	3/8" male
working			electronic/manual		
electric feeding			singlephase - 230 Volt - 50 Hz - 25 VA		

*NOTE - On request different voltage and frequency, for EXPORT*

## dimensions

			"suspended"	"wall"	"floor"
B		mm	600	-	2.500
C		mm	860	1.800	400x400
D	cap diameter	mm	800	800	800
E		mm	450	450	450

*NOTE - Contact us for installation exceeding data in the table*



Thanks to its movable construction, this appliance is ideal to heat temporary working areas and open spaces, and places in which dust raising would produce some inconvenience.

The heating burner structure is made of porcelain steel sheet and it is located on a strong trolley bottle-holder, equipped of tyres for an easier moving.

All the appliance of this line let to modify the inclination and width of the reflector for a better direction of the thermal flow.

The swiching on is manual by piezo-electric device. No accidental flame switch off is granted by a thermocouple detector, which operates on an interception valve cock.

The gas bottle isn't part of supply.



# md

yards, open-air market,  
street trade,  
loading/unloading areas

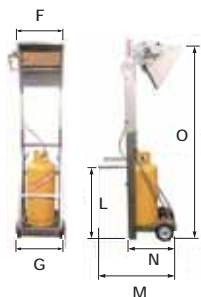
## technical data

			MD4	MD6
heated surface	min - max	m <sup>2</sup>	20 - 25	30 - 40
heating capacity		kW	6,5	9,5
G.30 LPG	gas consumption	kg/h	0,47	0,70
	pression	mbar	30	30
working	manual			
suggested gas cilinder		kg	20	20

## dimensions

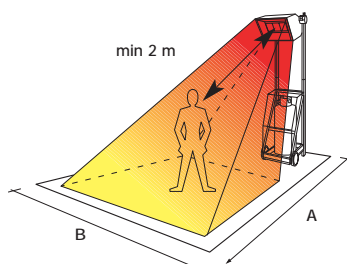
			MD4	MD6
F	heater width	mm	420	605
G	trolley width	mm	510	510
L	handles height	mm	800	800
M	trolley + handles	mm	810	810
N	width	mm	505	505
O	heater position	mm	1.680 - 2.180	1.680 - 2.180
weight	net	kg	20,0	22,0
flexible pipe for connection	diam.		3/4"	3/4"

*NOTE - On request, special version with radiant heater position up to 3.000 mm*



## installation

			MD4	MD6
heated surface	A x B	m	5,0 x 4,0	6,0 x 5,0



# dc

industrial environments,  
working places  
in openspaces,  
gyms, arcades

The strong structure of DC range models built with steel sheet, make them extremely suitable for heavy applications, especially to heat industrial environments with temporary working places located in open-spaces, or temporary standing areas..., to maintain temperature of machinery, to heat iron materials in order to avoid oxidation, ideal for gyms and arcades.

Special micro perforated ceramic plates form the radiant surface; the reflectors are made of stainless steel.

Heater ignition and control are by means of an electronic module.

DC models allow to centralise the on/off of each burner and to monitor them by thermostat.



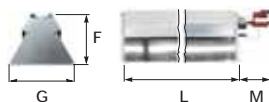
### technical data

			DC4	DC6	DC8	DC12	DC16	DC12+12
heated surface	min - max	mq	25 - 35	35 - 45	40 - 65	60 - 80	80 - 100	100 - 120
heating capacity		kW	6,5	9,5	13,0	19,0	26,0	38,0
start-up and control device(s)		n°	1	1	1	1	1	2
G.20 natural gas	gas consumption	mc/h	0,62	0,91	1,26	1,91	2,68	3,82
	pression	mbar	20 - 45	20 - 45	20 - 45	20 - 45	20 - 45	20 - 45
G.30 LPG	gas consumption	kg/h	0,47	0,68	0,90	1,34	1,80	2,72
	pression	mbar	35 - 45	35 - 45	35 - 45	35 - 45	35 - 45	35 - 45
working	electronic							
electric feeding	singlephase - 230 Volt - 50 Hz - 25 VA							

NOTE - On request different voltage and frequency, for EXPORT

### dimensions

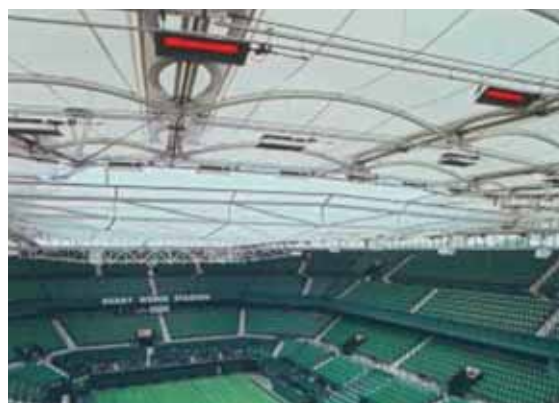
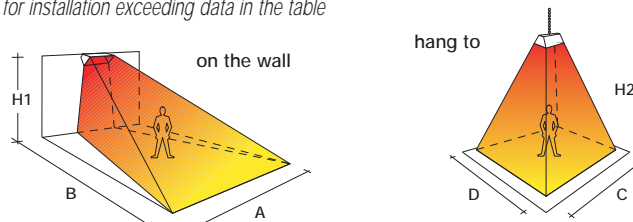
			DC4	DC6	DC8	DC12	DC16	DC12+12
L	heater length	mm	420	605	790	1.160	1.530	1.160
M	valve group	mm	250	250	250	250	250	300
lunghezza	overall	mm	670	855	1.040	1.410	1.780	1.460
F	total height	mm	350	350	350	350	350	350
G	width	mm	465	465	465	465	465	710
peso	net	kg	15,0	17,0	24,0	26,0	30,0	48,0
gas fittings diameter			1/2"	1/2"	1/2"	1/2"	1/2"	1/2"



### installation

			DC4	DC6	DC8	DC12	DC16	DC12+12
H1	min - max	m	3,5 - 5,0	4,0 - 5,5	4,5 - 7,0	5,0 - 10,0	6,0 - 12,0	7,0 - 15,0
A		m	4,0	5,0	7,0	8,0	8,5	10,0
B		m	4,5	6,0	8,0	9,0	10,0	12,0
H2	min - max	m	3,5 - 5,0	4,0 - 5,5	4,5 - 7,0	5,0 - 10,0	6,0 - 12,0	7,0 - 15,0
C		m	4,0	5,0	7,5	8,5	9,0	11,0
D		m	5,5	7,0	8,0	9,0	10,0	12,0

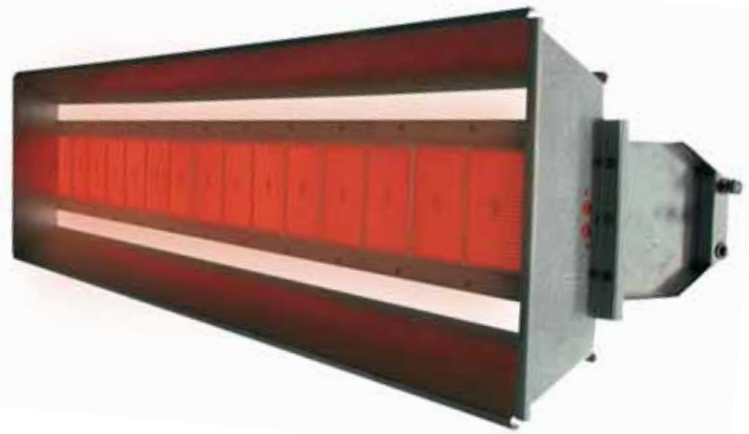
NOTE - Contact us for installation exceeding data in the table





# dc eco

same application  
as DC series,  
but light version



### technical data

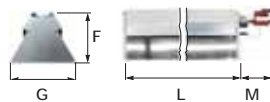
			DC4eco	DC6eco	DC8eco	DC12eco	DC16eco	DC12+12eco
heated surface	min - max	m <sup>2</sup>	25 - 35	35 - 45	40 - 65	60 - 80	80 - 100	100 - 120
heating capacity		kW	6,5	9,5	13,0	19,0	26,0	38,0
start-up and control device(s)		n°	1	1	1	1	1	2
G.20 natural gas	gas consumption	mc/h	0,62	0,91	1,26	1,91	2,68	3,82
	pression	mbar	20 - 45	20 - 45	20 - 45	20 - 45	20 - 45	20 - 45
G.30 LPG	gas consumption	kg/h	0,47	0,68	0,90	1,34	1,80	2,72
	pression	mbar	35 - 45	35 - 45	35 - 45	35 - 45	35 - 45	35 - 45

working electronic  
 electric feeding singlephase - 230 Volt - 50 Hz - 25 VA

*NOTE - On request different voltage and frequency, for EXPORT*

### dimensions

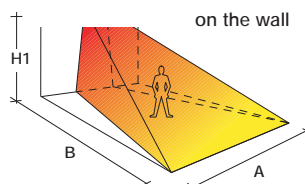
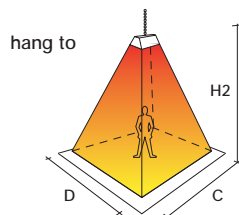
			DC4eco	DC6eco	DC8eco	DC12eco	DC16eco	DC12+12eco
L	heater length	mm	420	605	790	1.160	1.530	1.160
M	valve group	mm	250	250	250	250	250	300
Length	overall	mm	670	855	1.040	1.410	1.780	1.460
F	total height	mm	250	250	250	250	250	250
G	width	mm	370	370	370	370	370	600
weight	net	kg	13,0	14,0	21,0	23,0	27,0	44,0
gas fittings diameter			1/2"	1/2"	1/2"	1/2"	1/2"	1/2"



### schema d'installazione

			DC4eco	DC6eco	DC8eco	DC12eco	DC16eco	DC12+12eco
H1	min - max	m	3,0 - 5,0	3,5 - 5,5	4,0 - 6,5	4,5 - 9,0	5,5 - 10,0	6,0 - 13,0
A		m	4,0	5,0	7,0	8,0	8,5	10,0
B		m	4,5	6,0	8,0	9,0	10,0	12,0
H2	min - max	m	3,0 - 5,0	3,5 - 5,5	4,0 - 6,5	4,5 - 9,0	5,5 - 10,0	6,0 - 13,0
C		m	4,0	5,0	7,5	8,5	9,0	11,0
D		m	5,5	7,0	8,0	9,0	10,0	12,0

*NOTE - Contact us for installation exceeding data in the table*



## t

big areas  
industrial environment

It's ideal for partial or homogeneous heating of big areas and industrial environment with temporary working places and areas in which dust raising would produce some inconvenience.

It's hanged by small chain to ceiling or on the wall.

Combustion develops inside the alloy steel tubular chamber which is the emitting surface.

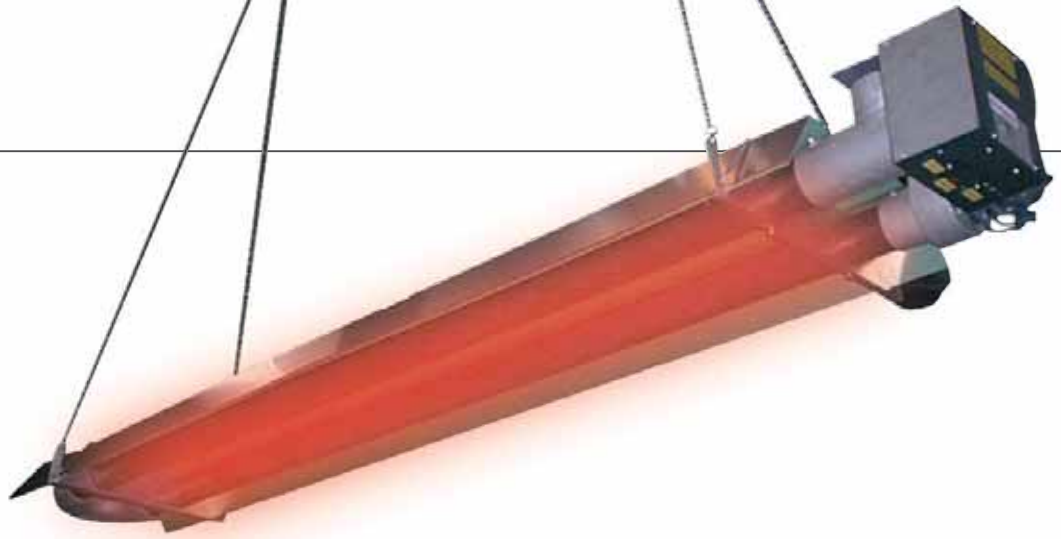
The extraction smoke fun directs exhaust emission outward to the end of exchanger.

A reflector is constituted by aluminium with specular form, it's situated on the tubes and it directs infrared radiant flow downward.

Equipment is arranged to be hermetic as to environment by outside air opening.

The safety is guaranteed by electronic automatic system ignition and control flame.

It's possible lead heater by thermostat or clock-controlled governor.



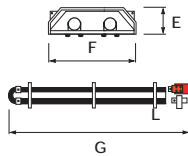
## technical data

			T6	T9	T12
U tubes	n°		2	2	2
tubes length	m		6,0	9,0	12,0
heated surface	min. - max	mq	80,0 - 100,0	100,0 - 120,0	120,0 - 140,0
heating capacity		kW	22,0	30,0	35,0
G.20 natural gas	gas consumption	mc/h	2,20	3,00	3,50
	pression	mbar	18 - 45	18 - 45	18 - 45
G.30 LPG	gas consumption	mc/h	1,50	2,00	2,40
	pression	mbar	30 - 45	30 - 45	30 - 45
working					electronic
electric feeding					singlephase - 230 Volt - 50 Hz - 120 VA

NOTE - On request different voltage and frequency, for EXPORT

## dimensionis

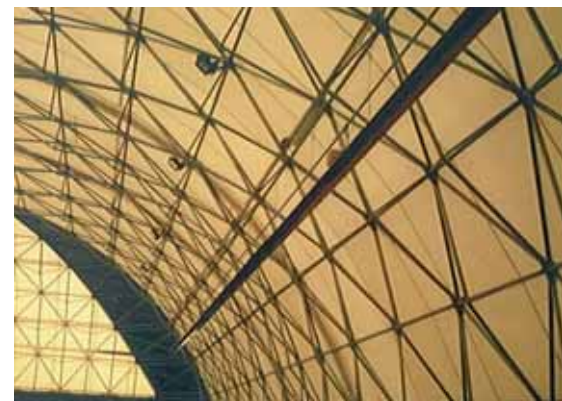
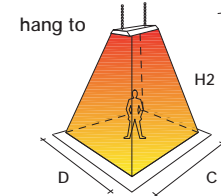
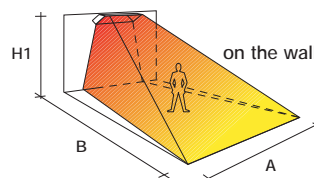
			T6	T9	T12
E	height	mm	180	180	180
F	width	mm	610	610	610
G	length	mm	6.500	9.500	12.500
weight	net	kg	100,0	140,0	190,0
gas fittings diameter			1/2"	1/2"	1/2"



## installation

		T6	T9	T12
wall installation	m	4,0 - 10,0	4,0 - 10,0	4,0 - 10,0
A	m	7,0	9,0	12,0
B	m	10,0	10,0	10,0
suspended installation	m	4,0 - 10,0	4,0 - 10,0	4,0 - 10,0
C	m	8,0	10,0	12,0
D	m	12,0	12,0	12,0

NOTE - Contact us for installation exceeding data in the table

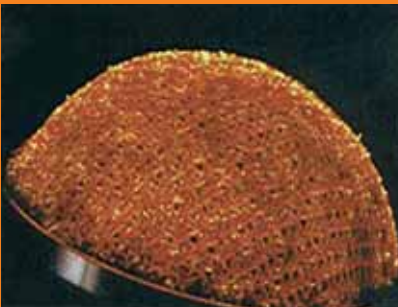


# brp

Special burners for industrial process in every field; very flexible design in terms of heating capacity, shape and dimensions.

Heating capacity can be modulated with ratio 1 to 10.

Tailor's made electronic management, of our own design.



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