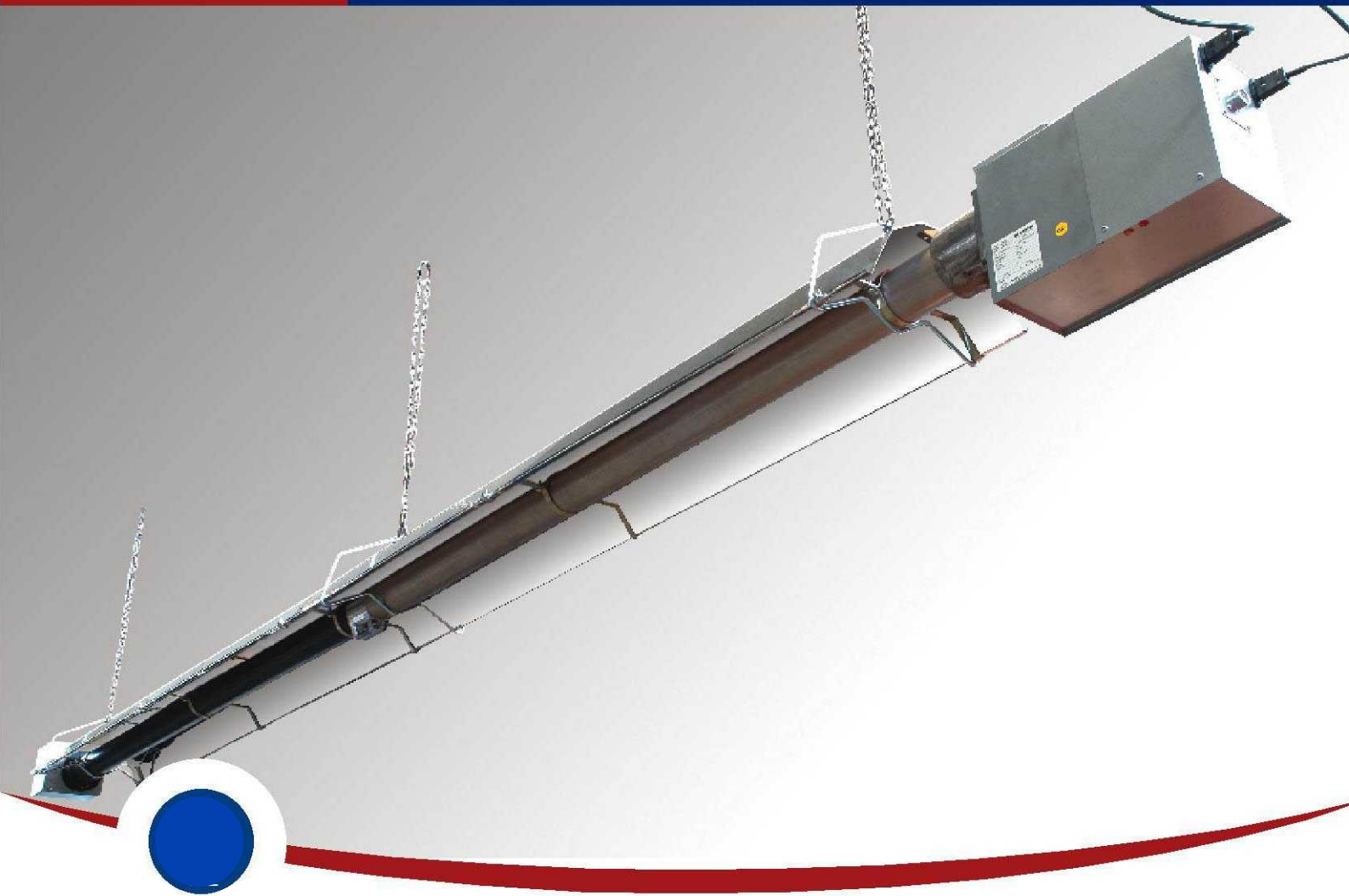


# Radiant Heater

## Effective Heating At Large Areas



*The most efficient way to provide maximum heating with the lowest energy consumption at large areas such as factory, shopping malls, gym, warehouse, church and exhibitions*

- Low gas consumption
- Is not affected from high rate changes in the air
- 3 length and capacity options
- Waste gas control with prosestat
- Does not circulate the air since there is no hot air blowing. Ideal for industrial work places where hygiene is important.
- Effective heat beamed precisely where it is needed

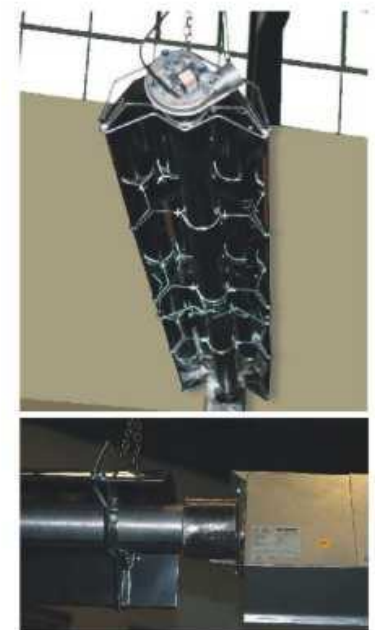
# Effective Heating At Large Areas



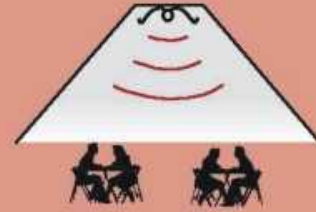
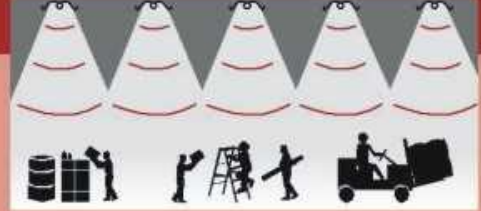
The most efficient way to provide maximum heating with the lowest energy consumption at large areas

Radiant heating heats in the same manner that the sun warms the earth. The sun's infrared rays strike the earth, objects and people. The radiant energy is absorbed and each object becomes a heat reservoir, which then heats the ambient air

- Warm air heaters heat air which then warms the surroundings where people work. In buildings where doors are opened regularly, high air change rates occur which result in extremely high heat losses. Radiant heat is not absorbed by the air, so it is ideal for buildings which have high air change rates. Radiant heat offers considerable energy savings over warm air systems, especially under otherwise difficult conditions.
- Directing heat to working areas is difficult with warm air heaters. Consequently, a garage heated by warm air will have cold spots at the working level and wastefully high temperatures at the roof. Radiant heat is transmitted by infra-red waves and is directional. Correct location of radiant heaters ensures that cold spots are avoided.
- Zone control of radiant heaters permits flexible management, allowing selected areas of the workshop to be heated to different temperatures as required.
- Radiant heat warms up cold bodies directly without heating the whole building. Consequently, radiant heating responds more quickly than warm air to the needs of a workshop. The shorter warm up periods save fuel and allow the heating system to match flexible, modern working arrangements.







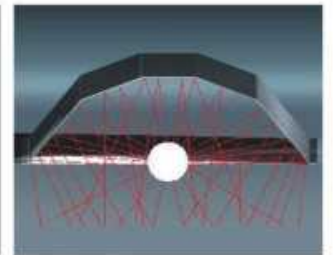
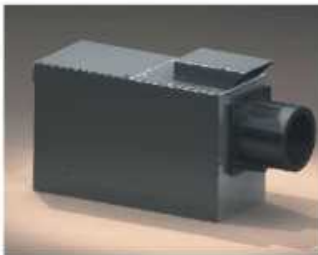
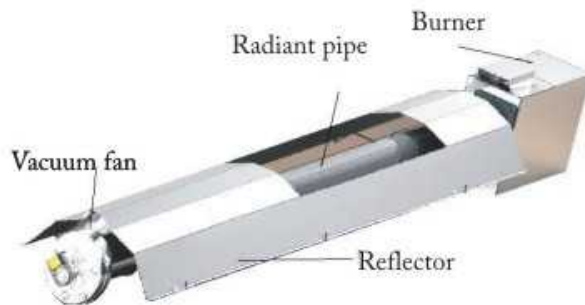
### Area of Use

- Factory
- Restaurant
- Greenhouse
- Meeting rooms
- Shopping malls
- Exhibitions
- Church
- Garage
- Farms
- Showroom
- Stadium
- Tennis Court

### How Does It Function?

Radiant heater is composed of 4 main parts:

- Burner
- Radiant pipe
- Reflector
- Vacuum Fan



**Burner:** Electronic ignition and combustion control enables the burner to provide long and stable flame with optimum combustion efficiency

**Radiant Pipes:** Provides maximum radiation with high heat permeability. the pipes are made of 316 quality chrome and are resistant to corrosion.

**Vacuum Fan:** The fan disposes the waste gas emanating as a result of combustion. It is highly resistant to high temperature thanks to the cooling system on it.

**Reflector:** Shiny surface chrome - nickel reflector with optimized form directs 99% of the heat that spreads from the radiant pipes

# Radiant Heater

Each radiant heater incorporates highly reflective steel reflectors, which are mounted in such a way as to permit free thermal expansion, and are easily detachable for cleaning, or whenever access is required. The gas burner fires into one end of the emitter tube. The emitter tubes are heated by the passage of hot combustion gases and the hot tubes emit infra-red radiant heat, which is directed downwards by the reflector towards the occupied workspace

## Radiant Heater Standarts

- Low energy cost
- Effective within a large radius
- The reflecting plate with shiny surface on top of the radiant pipes enables concentrated heating directed downwards
- Silent and safe
- 3 different length and heating capacity (6/8/16 meter)
- Adjustable mounting hooks
- Can be hanged from the ceiling with chains or stretched steel cable
- 300-350 °C average surface temperature
- Waste gas control with prosestat
- Full automatic ignition with flame sensor
- Capacity for 6 mt. is 20 Kw
- For 8 mt 30 Kw
- For 16 mt. 40 Kw

TECHNICAL SPECIFICATIONS				
MODEL		MR 20	MR 30	MR 40
Capacity	kw	20	30	40
Capacity	kcal/h	17200	25800	34400
Length	m	6	8	16
Weight	kg	23	27	42
Min. Assembly Height	m	3,5	4	5
Type of Fuel		Natural GAS - LPG		
LPG Consumption	m <sup>3</sup> /h	1.55	2.34	3.1
Natural Gas Consumption	m <sup>3</sup> /h	2.1	3.12	4.15
Natural Gas Inlet Pressure (min-max)	mbar	20-50		
LPG Inlet Pressure (min-max)	mbar	30-50		
Electricity Connection		230 V, Monophased		
Gas Connection		3/4"		
Ignition System		Automatic flame sensor control		
Reflector		304 Shiny chrome steel		
Combustion Pipes		Chrome pipe of 304 quality + Steel pipe with heat treatment		
Fan Exhaust Diameter	mm	60		



### MAKTEK GROUP COMPANIES

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Gas Boiler