Low intensity infrared unit

Concept
Heat is transferred by radiation to a cold object or body. Infrared directly warms people and objects, not the ambient air.

Advantages
- Economical; annual savings of 25-35% can be achieved.
- Recommended for more comfort in very draughty places with high ceilings.
- Easy maintenance.
- Simple to control with a commercial or digital thermostat.
- Compared with electric infrared, natural gas infrared offers a wide power range, from 45,000 Btu/hr to 200,000 Btu/hr.
- Superior efficiency thanks to direct heating: no loss of heat through piping.
- No need for an electric current to distribute the heat.
- No air movements or stratification.
- Fast heating time, even in very high buildings.
- Quiet.

Applications
- Arenas
- Stations
- Body shops
- Gymnasiums
- Car dealerships
- Car Washes
- Churches
- Fire stations
- Warehouses
- Supermarkets
- Aviation companies
- Indoor tennis courts
- Animal farms
- Practice fields (e.g. driving range)
- Automobile garages
- Assembly plants

List of manufacturers
Here is a non-exhaustive list of manufacturers.
- Chore-Time
- Infra-Save
- Modine
- Omega II
- Re-Verber-Ray
- Reflect-O-Ray
- Reznor
- Roberts-Gordon
- Schwank
- Space Ray
- Sterling
- Superior Radiant Product
- Synergy

Financial assistance from Énergir
- Appliance capacity from 0–99,000 Btu/hr: $200 per appliance.
- Appliance capacity of 100,000 Btu/hr or more: $500 per appliance.
Selection criteria

Heating capacity:

<table>
<thead>
<tr>
<th>Type of building</th>
<th>Heating capacity</th>
<th>Installation cost¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warehouse</td>
<td>25-35 Btu/h per ft²</td>
<td>10 ¢/ft²</td>
</tr>
<tr>
<td>Mechanical shop</td>
<td>40-60 Btu/h per ft²</td>
<td>20 ¢/ft²</td>
</tr>
<tr>
<td>Aircraft hangar</td>
<td>100-120 Btu/h per ft²</td>
<td>40 ¢/ft²</td>
</tr>
</tbody>
</table>

Combustion:
Sealed or non-sealed combustion.

Venting:
Combustion products are usually vented outdoors through flues. Venting may be indoors, given additional ventilation and control of carbon monoxide.

Installation standards

1. There is a minimum height to be respected, depending on the manufacturer.
2. Installation is not recommended in places where there are chlorine products, solvents or explosives.
3. Unless otherwise indicated, the combustion products must be vented outdoors. For more details, consult the manufacturer’s Installation Guide.
4. Individual units may be installed in different ways, either in a straight line or in a U, depending on needs.
5. There are also vacuum systems with multiple burners.
6. Refer to the manufacturer’s Guide.

¹ Certain conditions apply. The financial assistance is subject to change without prior notice.
¹ Parts and labour

These data are provided for guidance only. This Information Sheet is for general use and must not be considered advice. Please ask for assistance on the questions that concern you and do not rely only on the text in this Information Sheet.

Last updated December 3, 2010.
MKTD, 06-2019, 8782 Colpron

energir.com