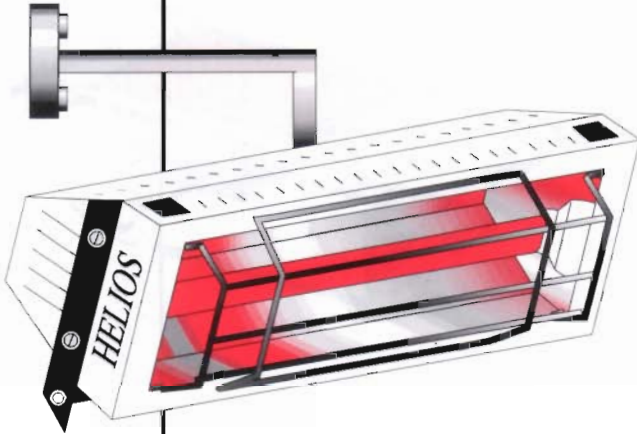


INFRARED HEATERS

HALOGEN MODULAR HEATERS



- ✓ NO WARM-UP TIME
- ✓ NO HEAT WASTAGE
- ✓ INSTANT CONTROLLABILITY
- ✓ CLEAN & ENERGY EFFICIENT
- ✓ LOW COST INSTALLATION

NO WARM-UP TIME - Halogen Modular Heaters take less than 1 second to peak radiation.

NO HEAT WASTAGE - Ordinary heating methods work mainly by convection or conduction in turn they heat the air which then heats the personnel. In areas which are large, open or drafty, these methods are slow, inefficient and expensive to run.

Halogen Modular Heaters direct the heat at people and objects , not the air around them.

INSTANT CONTROLLABILITY - Either by motion detectors or digital power controllers

CLEAN & ENERGY EFFICIENT - Electric heating is the cleanest non polluting form of heat available today. Energy efficient due to the fact Halogen Modular heaters can direct the heat instantly where and when required.

LOW COST INSTALLATION - From a simple 240 volt power outlet these heaters can be installed.

APPLICATION - General commercial, industrial indoor use.

Factories, Loading bays, Canteens, Warehouses, Aircraft hangers, Churches, Community halls and Schools.

CONSTRUCTION - Tungsten halogen lamps, 240 volts 1500 watt. Reflector bright rolled aluminium. Case white powder coated steel. End covers aluminium casting for heatsink effect. Brackets grey powder coated steel. Electrical connection rear terminal block via cable clamp.

TEMPERATURE RANGE - 0 to 40 °C

Cat.No.	Rating	Dimensions mm
HMI 1.5	240v 1500w	370 wide x 170 high x 120 depth
HMI 3.0	240v 3000w	370 wide x 340 high x 120 depth

INFRARED HEATERS

HALOGEN MODULAR HEATERS

SELECTION AND MOUNTING GUIDE PARAMETERS

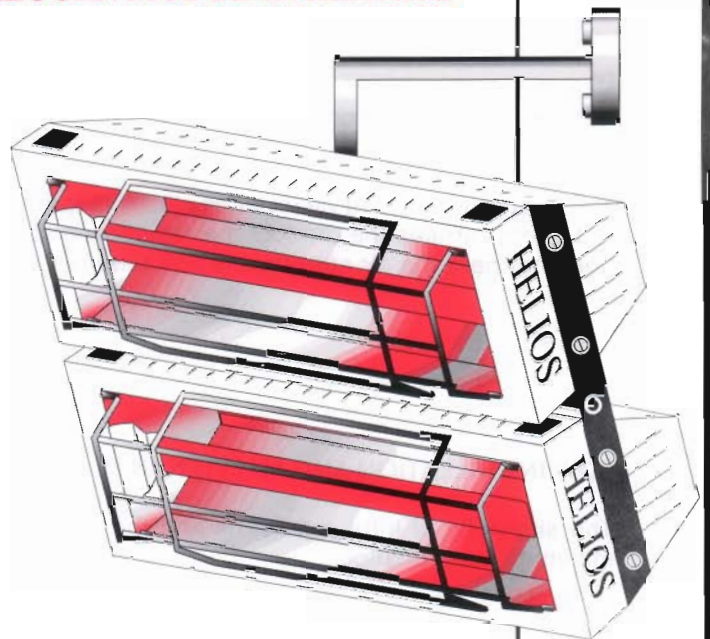
Calculate number of units required.

Select single or twin units in conjunction with appropriate mounting height from the heated coverage area table. Ideal 4.0m This is relevant to size and shape of area to be heated I.E.: Factory rectangular area 10m wide x 20m long mount twin units on opposite 20m length walls height 3.5m. Canteen with only a 3.0m ceiling height single units only.

Mount minimum distance from ceiling and side walls.

Single units = 300mm Twin units = 500mm

Major affecting factor - air movement greater than 0.25m/s compensate by increasing power loading by 50%



APPLICATION	W/m ²	APPLICATION	W/m ²
Factories	175	Aircraft hangers	150
Loading bays	150	Churches	110
Canteens	200	Community halls	200
Warehouses	100	Schools	200

SAMPLE CALCULATION

Application - Factory

Area to be heated
20m x 10m = 200m²

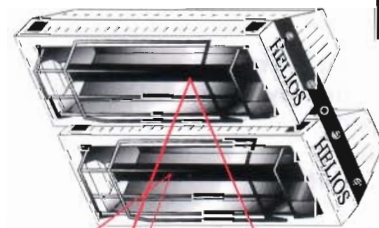
Power loading
from table = 175W/m²

Wattage required
200 x 175 = 35,000 watt

Twin unit = 3,000 watt

35,000 / 3000 = 11.66

Say 12 units required



Mounting Height	W/m ² Single	W/m ² Twin	Length	Width	Area m ²
2.5m	60.6	-	3.3m	7.5m	24.75
3.0m	39.3	78.6	4.1m	9.5m	38.13
3.5m	26.7	53.5	5.9m	11.2m	56.00
4.0m	19.7	39.4	5.8m	13.1m	75.98
4.5m	14.8	29.6	6.7m	15.1m	101.17
5.0m	11.6	23.2	7.6m	17.0m	129.20
5.5m	-	18.8	8.4m	18.9m	158.76