

## SHORT WAVE INFRARED HEATING CASE STUDY 3 - RESIDENTIAL AREAS

Most house designs feature an outdoor area for entertaining families and friends. However, in our temperate climate, the temperature can suddenly drop at dusk or during a cool change ... 6 - 10 °C in just two hours. Handing out blankets to your guests is not an ideal option, so to maintain comfort outdoors, many people rely on gas patio heaters.



It can get quite chilly at dusk, even in summer

A better option is short wave halogen infrared heaters. These heaters have reflectors that project heat to a wide area – up to 3 m away. This allows overhead mounting, freeing up the floor space that would otherwise be cluttered by gas patio heaters. These heaters are very efficient, for like sunlight, short wave infrared travels loss-free through the air to transfer maximum energy to the target area.

Each lamp consumes 2000 watts. With current power prices, this means around \$0.70 per hour, significantly less than the \$1.80 per hour for a 9 kg gas bottle. And being electric, they can be wired into sensors to operate only when people are outside.



Halogen infrared is the most efficient method of providing comfort heating outdoors

All gas heaters are inefficient in open areas as the heat is concentrated under their shields and easily dispersed by breezes. Gas heaters also tend to be left on, so when people leave the area, energy is wasted heating empty space. Another problem is that non-flued gas burners pollute the air, limiting the use of blinds to protect the area from wind and rain.

But the biggest drawback is emptying the bottle - a standard 9 kg bottle only lasts around 10-12 hours. This means swapping the gas bottle with a spare, or rushing off to the store to obtain a refill.



Heliosa 44 - 2000 W short wave infrared heater

Short wave halogen electric heaters are perfect for homes. The heaters are lightweight and can easily be mounted with two screws. And with no exhaust gases, the area can be closed in to prevent chilly breezes from passing through.

For Peter of Glynde SA, the Heliosa 44 was an ideal solution for his outdoor dining area, negating the need for a cumbersome mushroom heater. During winter, his dining area will be closed in with roller blinds so he will have no issue with exhaust gases.

For more information, contact us.



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