

Metered Housing Developments

Commercial

Industrial

Hospitality and Leisure

Retail

COMPANY: Shannon Airport
APPLICATION: Commercial Heating, Catering and Direct Fired Heating



Shannon Airport, Shannon, Co. Clare

Shannon Airport And Calor Take Off Together

Shannon Airport is unique both in location and its place in the history of world aviation, chosen for its geographical position as the transatlantic gateway between Europe and America. The airport covers 2,000 acres in Co. Clare on the north bank of the River Shannon.

The airport has spurred the growth of a vast infrastructure of enormous importance to Ireland's Mid-West region which includes an attractive and growing tourism enterprise as well as the world's first duty free industrial zone. Almost 2,000 people work at the airport full time with another 1,000 temporary staff recruited during the summer season. Shannon handles around three million passengers and nearly 50,000 metric tonnes of freight is transported through its cargo area per annum.

Versatile Fuel

To heat large areas of open space such as the cargo areas and aircraft hangars as well as areas where there was a high density of passengers moving through the airport was not an easy task. Because heating with Calor is so versatile, the airport was able to use different types of heating solutions that best suited each area.

Direct Fired Heaters

Direct fired heaters are especially good for heating locations with high ventilation rates such as hangars. Fresh air is drawn into the heater and heated as it is passed over a gas burner. The heat is then discharged into a distribution duct or via directional grilles to the point where it is required. This means that large open spaces in the airport can be effectively heated without having a massive drop in temperature.



Radiant heaters are ideal for directly warming people



Direct fired heaters heat areas of high ventilation

- Calor Gas powers radiant and direct fired heating as well as the fuel for catering
- Four 30 tonne bulk tanks provide a constant LPG supply
- LPG is cleaner burning and more efficient than oil and electricity
- Complete peace of mind from Ireland's main supplier of LPG



Chefs prefer cooking on gas



Bulk Tanks



Shannon Airport approach

COMPARATIVE GREENHOUSE GAS EMISSION LEVELS:

Fuel	kg CO ₂ /kWh
LPG	0.214
Oil	0.26
Coal	0.30
Peat	0.35
Electricity	0.67

Source: Sustainable Energy Ireland

Radiant Heating

Radiant heaters are ideal for directly warming people or surfaces directly in their path. There is no energy wastage as radiant heaters do not heat the air space high above the targeted areas. Radiant heaters operate without air movement and were the ideal solution for areas within the airport terminal.

Catering

Not only does Calor provide the fuel resource for heating, it also supplies the fuel for catering at Shannon Airport. Cooking on Calor is clean, gives fingertip controlled heat and gets perfect results. Calor Gas was the smart choice for the busy kitchens that needed high quality, high volume food quickly.

Bulk Tanks

With such a vast area to supply fuel to, Shannon Airport opted for bulk tanks that could be located away from the main airport terminals and yet still be accessible for Calor’s tankers to fill. Calor installed three 30 tonne bulk tanks meaning that the airport could have a plentiful supply of gas and buying gas at bulk rates saves money too. Shannon Airport also has the added benefit of having the gas metered around the airport meaning that in quieter periods of the year, areas can be isolated to help save on energy costs.

Gas compared to electricity

- Kinder to the environment, gas has a lower carbon footprint
- Gas is more responsive, controllable and instantly available
- Versatility of gas – many applications can be run off the one fuel supply
- Unlike electricity, gas is not susceptible to power cuts
- Stable gas price throughout the day avoids peak time charges

Gas compared to oil

- Versatility of gas - many applications can be run off the one fuel supply
- Gas burns cleanly without soot and has a lower carbon footprint
- Lower sulphur emissions of gas makes it more environmentally friendly
- LPG purity means direct fired systems are almost 100% efficient
- Gas appliances require less maintenance as LPG is cleaner burning
- Instantly controllable flame temperature with gas
- Products of gas combustion are harmless and odourless
- Unlike oil, gas tanks do not require the construction of containment for potential tank spill
- Underground gas installations do not require a pump as opposed to oil installations which do

Compared to electricity, coal and oil, Calor Gas is kinder to the environment, producing less Carbon Dioxide emissions. (See table for comparative CO₂ emissions.)

Source: Carbon Trust Emission Factor 2006.

Calor has been supplying gas for over 70 years. We are specialists in our field and have extensive experience and expertise. Delivery and supply is taken care of by one of the largest tanker fleets in Ireland.



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