



INNOVATION EDGE™: ENERGY-SAVING ECO CABIN

Main Image: Murphy Energy-saving Eco Cabins

Developed to a bespoke Murphy specification in collaboration with the cabin manufacturer, the Energy-Saving Eco Cabin saves carbon, water and costs.

Description

Having established that there are varying levels of quality and eco features between vendors, Murphy developed a bespoke specification for its Energy-Saving Eco Cabin. It improves the working environment, increases energy efficiency and reduces water consumption and whole lifecycle costs.

The energy and water saving features include an advanced heating operation system which allows control from a central unit, motion sensitive lighting through the passive infrared sensors, non-concussive taps, timed flow urinals, and dual flush toilets.

Thermal performance has been increased by double glazing and wall, floor and roof insulation, forming a complete insulation envelope around the structure. Further features such as additional internal doors and installation of draft strips contribute to reducing heat loss.

Murphy has adopted the specification as a minimum standard for all site accommodation.

The Benefits

- Reduces heat loss through windows, floors and doors as a result of up to 45% improvement on U-value figures for insulation and double glazing.
- Decreases energy consumption by up to 70% due to introducing timers for lighting and heating systems coupled with the new levels of insulation.
- Reduces CO² emissions by up to 30% compared to previous models.
- Cuts down total water consumption by up to 75%.
- Improves quality of work conditions for site staff.
- Manufactured with raw materials obtained from sustainable and recycled sources.

Application

Murphy trialled the Energy-Saving Eco Cabins on a number of projects, collecting data on their performance.

On a typical 12-month project with six open-plan offices, two welfare units and two toilets, savings of 55,000 kWh/year can be achieved compared to similar non-eco structures. This equates to electricity cost savings of circa £8,000 per annum based on the average price of a kWh.

On similar sites powered by diesel generators, the Energy-Saving Eco Cabins can save circa 15,000 litres of diesel.

Use of the Energy-Saving Eco Cabins on the same typical site layout can provide carbon emission savings of up to 215,000kg CO² and water savings of circa 300,000 litres per annum.

End User Feedback

The Energy-Saving Eco Cabins have been rolled out across the Murphy business and have received positive feedback from both site teams and clients, demonstrating our commitment to never harming the environment.

“Murphy’s Energy-Saving Eco Cabins have transformed site accommodation, boosting team morale and increasing productivity.” – **Jean O’Donovan, Murphy Site Engineer**

“The Energy-Saving Eco Cabins reflect Murphy’s commitment to reducing our environmental impact and providing the best possible facilities for our workforce.” – **John Coll, Divisional Director of Procurement, Plant & Transport**



Interior of Murphy Energy-saving Eco Cabins

Market potential

With increasing use of factory engineered products many of the features applied to the Energy-Saving Eco Cabin can also be used for more permanent accommodation.

Learn More

For more information, please contact Murphy Marketing & Communications Department at communications@murphygroup.co.uk

This is a brief description of the solution as we have applied it and should not be taken as exact. Its application must take into account the local environment and specific project requirements.



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