



MOBILE PLANT ROOMS

INTRODUCTION

TCE Controls is the I&E manufacturing division of Entec. TCE Controls is based in Entec's New Plymouth facility, in the heart of New Zealand's energy industry. The philosophy at TCE Controls matches that of its parent Entec;

- To deliver the best products and solutions
- To employ the best people in the business
- To ensure satisfaction of our customers, and earn their repeat business.

Calling upon the expertise of TCE Controls in the manufacture of switchboards and panels, and the industrial electrical installation skills and experience of Entec's I&E Projects division, Entec provides a bespoke design and build service for mobile plant rooms.

WHY A MOBILE PLANT ROOM?

By "plant room", we are referring to an enclosed space that houses a variety of plant, ranging from LV or HV electrical infrastructure, to generators, pumps, boilers or HVAC equipment.

So, why mobile? Especially if it's envisaged that the plant installation is going to be permanent?

Entec has completed installation projects for 35 years, involving large generator packages, switchboards and control panels and all manner of ancillary plant. We have learnt through experience that the efficiency and quality of installation work is greatly increased within a workshop environment. Site travel is reduced, site safety risks are minimised, and a manufacturing workshop is typically a cleaner, quieter and more comfortable environment than a construction site – conducive to skilled tradesmen delivering their best output in the most efficient manner.

A mobile plant room can be factory-acceptance tested at Entec's workshop. Following transportation to its destination, the on-site installation is a simple process and the plant is ready for commissioning.

FUTURE MOBILITY

A further advantage of the mobile plant room is that it can be readily relocated in the future. This is particularly applicable in operations such as mines, quarries and landfills, where site infrastructure is regularly reconfigured to adapt to site requirements. Mobile plant rooms are also ideal for short-term installations, such as construction projects or special events.

ENCLOSURE STYLES AND SIZES

Mobile plant rooms can be built to any size, provided they meet the constraints of road transport regulations. Entec's experience includes an ISO 10 foot container at the small end (3.0m long x 2.4m wide x 2.4m high), and a double ISO 40 foot container at the upper end (12.0m long x 4.8m wide x 2.6m high).

ISO shipping containers are ideal due to their standard sizing, ease of lifting, and the cost effectiveness of international freight via container ships (subject to fitting the ISO envelope). Entec has installed additional roof assemblies onto containers to prevent accumulation of rain or dirt.

Entec can also offer mobile plant rooms using self-frame enclosures. These are available in any size, again subject to transport restrictions. The self-frame enclosure has a pitched roof and a high stud, providing more flexibility to house larger items of plant.

ASSOCIATED SERVICES

With its background in heavy industrial and hazardous area I&E, Entec is ideally positioned to offer associated services to TCE Controls customers, such as:

- Electrical system design
- Constructability reviews
- Site installation and commissioning
- Electrical inspections, including EEHA hazardous area inspections
- Maintenance and fault-finding services
- Gas detection systems

KEY INDUSTRIES AND APPLICATIONS

- Oil, gas and petrochemical; upstream, midstream, downstream
- Energy storage installations
- Data centres
- Heavy manufacturing
- Mining, tunnelling and quarrying
- Water and Waste Water networks and plants
- Power generation
- Utilities and infrastructure
- Construction sites

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