



PRESS RELEASE

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Summit Matsu Chilling Systems: Green Chillers for an Exciting Green Project

Summit Matsu Chilling Systems has now successfully worked with industry leader Global Fodder Solutions to design and manufacture refrigeration units to support the export of Global Fodder's Excel Module to one of the most challenging agricultural environments in the world.

Global Fodder Solutions manufactures climate controlled Barley Grass, growing modules inside shipping containers, providing a secure source of fodder for live stock in places where traditional grazing lands or fodder production is unreliable. Global Fodder's Excel Module is a fully self contained machine which operates independently of the external climatic conditions. The strong build allows it to be transported almost anywhere in the world. With 90% of the units currently operating in the Middle East, they are proven to be able to operate reliably with outside temperatures reaching above 50°C and are designed to function in climates reaching down to -25°C. The state of the art heating, cooling and air purification technology, lighting and water management allow trays of fully grown fresh fodder to be produced in a seven day cycle; this continuous cycle provides a constant supply of fresh fodder all year round. With a unique design that allows the units to recycle up to 70% of their daily water usage, the Global Fodder Solutions Excel Modules offer superior fodder solutions for the most challenging of agricultural environments.

The harsh climate of Saudi Arabia in the Middle East presents significant problems for growing food for livestock, including fodder. Whilst vast improvements have been made in irrigation networks to provide water to the vastly barren deserts of Saudi Arabia, ensuring that livestock have sufficient food remains the task of fodder producers as the area is unable to support the large grazing areas that wetter climates enjoy. The ability of Global Fodder Solutions to provide pesticide and herbicide free

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natural fodder in dry, hot areas relies heavily on reliable chilling equipment to maintain container temperature at a safe level to inhibit the growth of dangerous bacteria which would adversely affect livestock. Through working closely with Global Fodder Solutions, Summit Matsu Chilling Systems was able to design and manufacture refrigeration units to fit within the shipping containers and is the preferred supplier of Global Fodder's range of chillers for its Excel Modules.

The need for the highest quality, most reliable chillers to maintain the operating temperature within safe levels is imperative to the continuation of Global Fodder's projects in the Middle East. Maintaining an internal operating temperature cool enough to inhibit the growth of harmful bacterium is a crucial aspect of the Excel Fodder Module. Matt Reid, Construction Manager at Global Fodder's Saudi Arabia site, noted that the consequences of unreliable cooling equipment would be dire, "If the climate inside the containers were to exceed 18.6° Celsius, we would see an outbreak of bacteria on the root mat of our grass, which is extremely harmful to cattle," he stated, "If cattle were to die, our brand name in the Middle East would be ruined". In order to ensure that their chillers are the most reliable on the market, Summit Matsu Chilling Systems use only the highest quality parts and equipment in the creation of their refrigeration units. "Certainly there are cheaper cooling options on the market especially when you consider companies that import and resell their chillers" Daniel Rollston, General Manager of Summit Matsu commented, "But when it comes down to it, I think most businesses would prefer to pay a bit more for a quality machine which they know is made from high quality parts, especially when the cost of a break down or fault would be disastrous both economically and for the company's reputation". For companies like Global Fodder Solutions, having a reliable chiller is a consideration that directly affects their businesses success or failure in the region.

Summit Matsu Chilling Systems worked closely with Global Fodder Solutions in the design stage to provide a cooling solution that would fit within the confines of the machinery cabinet which is located within the shipping container itself. The need to utilise as little space of possible was pertinent

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to maintaining as large a production capacity as possible. “We had been looking for a system that would work with us,” Mr Reid commented “[Summit] Matsu came to the party, re-designing and improving what we were attempting to do ourselves. They were a great help.” The refrigeration system for each shipping container was comprised of a compressor and condenser unit producing 6kW of cooling. The condensing unit was manufactured according to the specification of the task, making it particularly compact, measuring a mere 1 meter long, 56cm deep and 43cm high to maximise the internal space available for the fodder to be grown whilst still producing the cooling capacity necessary for the high ambient temperatures of the Middle East. Summit Matsu Chilling Systems offer a standard range of chillers to suit almost any cooling problem, and are also able to tailor their products where the site or specifications are particularly unique.

Summit Matsu Chilling Systems has over forty five years of experience in the industry and are experts at designing cooling solutions for challenging environments on top of their extensive range of standard chillers. Based in Sydney and having manufactured chillers for companies whose processes and locations place extreme demands on their cooling systems, Summit Matsu Chilling Systems’ engineers have the knowledge and skills to create solutions for the most problematic cooling needs. The benefits of having a locally based company extended even further for Global Fodder “Having the ability to call them at any time was helpful” Mr Reid elaborated, “Also having their engineers come and see us at our manufacturing facility was great too. [It] made things a lot easier”. The opportunity for companies to have access to the engineers who design and build their machines means that they have the added piece of mind that should anything go wrong, the engineers who built the machines will have the knowledge and experience to resolve the issue in the fastest possible time. It is this expertise, attention to detail and flexibility of design that sets Summit Matsu Chilling Systems apart. The company prides itself on offering the most reliable chillers on the market due to high quality components, extensive industry experience and technical expertise as well as a commitment to

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reducing power consumption and research and development; constantly updating their chiller range to reflect improvements in design and capacity.

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