



MOBILE ON-SITE HYDRATION & RESPITE SOLUTIONS



LIQUIMECH[®]

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Eliminating Fatigue and Dehydration On-Site

Dehydration and fatigue are significant risks within the mining industry, both having considerable impacts on health and safety parameters within the workplace. Despite their similarities, education initiatives often address these risk factors separately. By tackling these risk factors simultaneously, the individual gains a greater appreciation for a holistic approach to maintaining their health, while the company sees a reduction in lost time to injury and improved productivity.

Fatigue is characterised by a chronic decline in physical and cognitive function. Typically, fatigue presents as a change in personality, motivation, memory and concentration; as well as physical impairment, such as reduced immune function, poor coordination and reflexes, muscle weakness and pain. Sleep hygiene is often cited as the primary mechanism for improving an individual's fatigue levels, often underestimating the potential positive impact lifestyle choices can have on an individual's fatigue level. Maintaining adequate hydration is an integral component of this holistic fatigue prevention strategy.

Similar to fatigue, dehydration is also characterised by reductions in mental performance, mood, cognition and physical work rates. Impairment can be observed with as little as 1% dehydration by body weight (equivalent to 600 – 800mL); often before the thirst mechanism has a chance to kick in. At 2% dehydration, studies report a 6-7% reduction in physical work rates, with this decline climbing as high as 50% at 3-4% dehydration.

Australian workers in Heavy Industries face some of the hottest, harshest & driest conditions in the world.

People are the driving force behind every successful operation, but only if they are healthy & happy.

Long Days on-site can leave your workforce fatigued & dehydrated, with effects on performance that can lead to severe or fatal injury.



Mobile Hydration Station

Solar Powered Hydration Station

There is nothing more important than fresh drinking water in remote locations. Often access to a reliable power source is either not available or in range. The Liquimech Units are a complete stand alone off grid module. With a fully integrated solar power system it is able to provide fresh cold water in any location.

The *Liquimech Mobile Hydration Station* is a site ready hydration station designed to provide personnel with a readily available supply of fresh, chilled water. These modules are built to operate and with stand the harshest environments, providing a reliable, hassle free source of drinking water right at your worksite.



Water Storage

- ✓ Compatible with all 1000L single use water packs
- ✓ Optional 1500L fixed water storage tank
- ✓ Insulated enclosure to minimise direct sunlight exposure of water pack
- ✓ Easy access for forklift load/unload
- ✓ Flexible inlet hose with quick release connection



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“Better Being With Brooks”



Containerized systems

These expertly modified sea containers come equipped with everything necessary to keep your workforce safe, healthy, and happy on-site. Bench seating and air-conditioning make these containers a comfortable place for relaxation, letting your workers recharge their batteries after hard work.

Liquimech Respite Containers with Rehydration Stations are the solution to eliminate fatigue and dehydration on-site.



Liquimech Respite Containers with Rehydration Stations

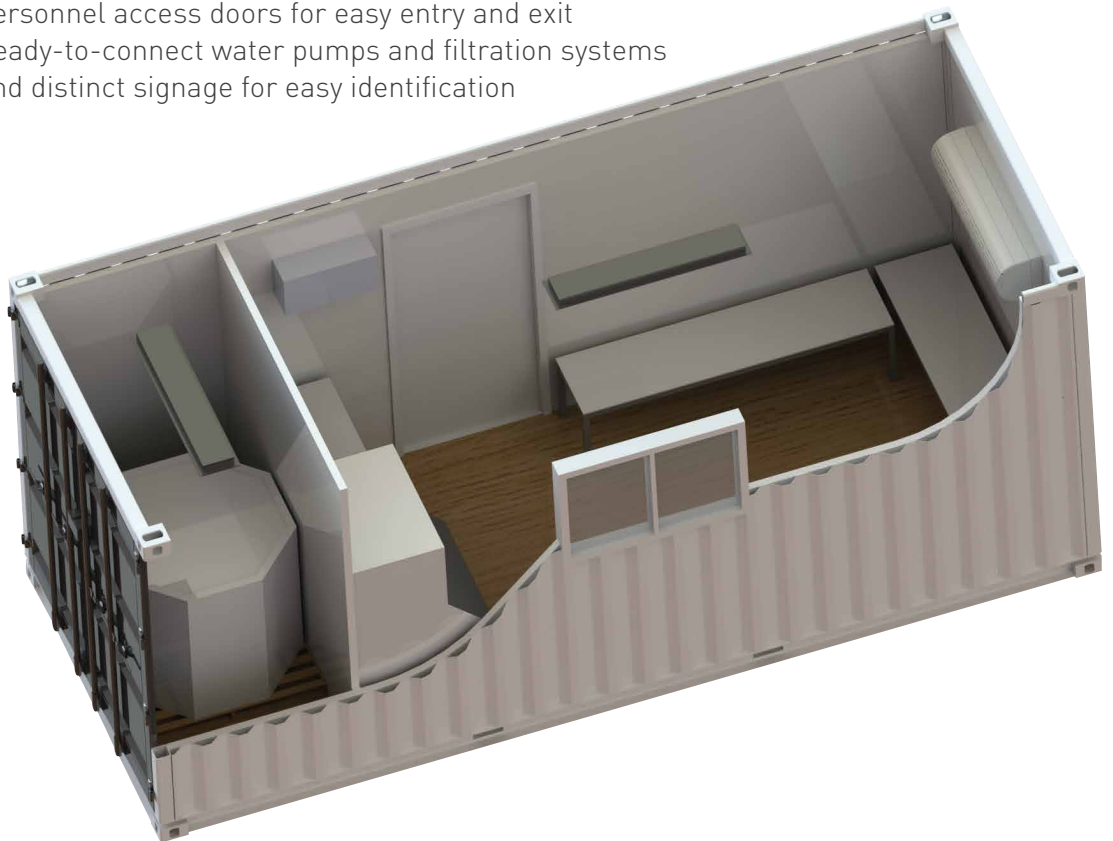
And with rehydration stations that incorporate water dispensers, ice machines and freezers, your workers will be able to stay hydrated even in the harshest conditions. Our respite containers connect to your on-site power supply, with solar as an option for remote locations. A water supply in the container takes care of plumbing, with the option to connect your on-site water system.



Features and Options

Liquimech is a complete solutions provider with custom designs and builds across our range of products. If your workplace has unique requirements, our expert in-house design team will be able to deliver. Get in contact with the Liquimech team to enquire about our Mobile On-Site Hydration & Respite Stations, or about any of our other modified container fit-outs.

- ✔ Industrial quality ice machines, water dispensers, and water pod storage for a range of hydration options
- ✔ Chest freezers to keep electrolyte blocks, ice bricks, and water bottles frozen
- ✔ Air-conditioning and full panelled insulation for high-quality climate control
- ✔ Windows offering natural light with additional LED lighting
- ✔ Easy to clean industrial grade vinyl flooring
- ✔ Comfortable and durable bench seating
- ✔ Personnel access doors for easy entry and exit
- ✔ Ready-to-connect water pumps and filtration systems
- ✔ And distinct signage for easy identification



- ✔ Solar system for power in remote locations
- ✔ Tropical roof for further heat-shielding in extreme conditions
- ✔ Configuration for connection to an existing water supply
- ✔ Custom paint finish in your chosen colours
- ✔ Extra seating and workbenches



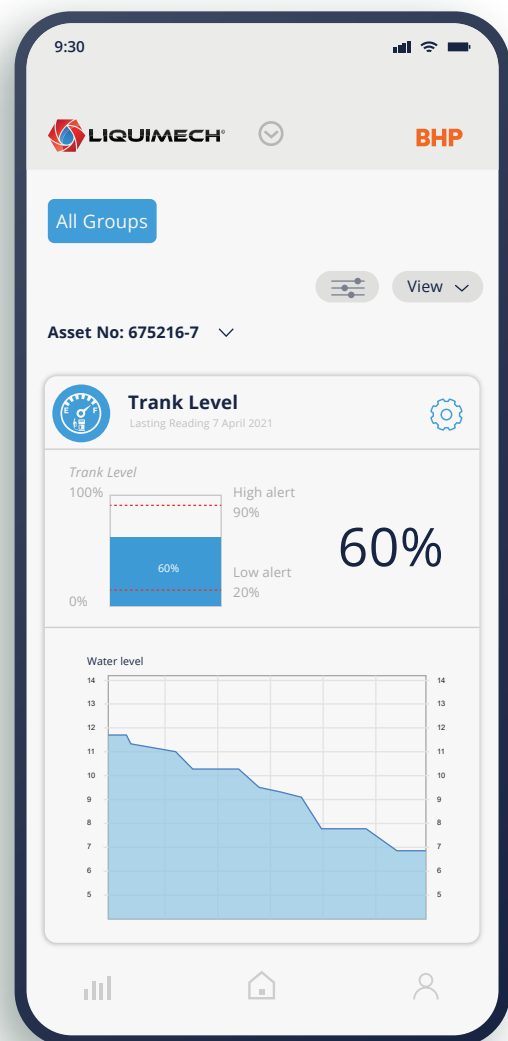
Remote Monitoring

The Remote Monitoring Software package is a set of applications running on top of the physical unit.

installation to provide easy, fast and reliable remote access to the module and necessary management tools.

It consists of several applications providing a user interface to the end user as well as backend logic for internal processing of the whole enterprise installation.

- ✓ 24/7 remote access web access
- ✓ Water usage statistics
- ✓ Remote management
- ✓ Monitoring tools
- ✓ Reporting interface
- ✓ Self-care module
- ✓ Low level alarms



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