

## CASE STUDY: WEIPA CAMPING GROUND

# Reliable Pool Equipment Solutions for Extreme Climate Conditions

In remote and harsh environments, the reliability and durability of equipment are of utmost importance. This case study examines the need for robust pool equipment capable of withstanding the challenging conditions at a caravan park in Weipa, a town located in the extreme northern tip of Australia. It highlights the unique challenges posed by the region's tropical climate, isolation, and the importance of selecting equipment specifically designed to operate reliably in such demanding conditions.



## Location and Challenges:

Weipa is a remote town situated in the Cape York Peninsula, the most northern tip of Australia, approximately 610 kilometers from the city of Cairns. The area is characterized by a tropical climate with high humidity and temperatures. Additionally, the town's isolated location presents logistical challenges, with service technicians located approximately 200 kilometers away from Weipa itself.

The vast distance between Weipa and major cities like Cairns, combined with the remote and undeveloped nature of the region, makes travel and accessibility extremely difficult. The journey from Cairns to Weipa by road would take around 8-9 hours of driving time, passing through rugged terrain and with limited towns or amenities along the way.

## Customer Requirements

The caravan park in Weipa required a pool pump and filtration system that could withstand the region's extreme conditions while minimising maintenance requirements. Reliability and low maintenance were crucial factors, given the park's remote location, the considerable distance to service technicians, and the challenges posed by the area's isolation. Additionally, the pool equipment needed to cater to the high bather load demand during peak seasons, when the 100,000-litre pool would be heavily utilised.

## Proposed Solution

After assessing the requirements and the unique challenges posed by the environment and remote location, Cheryl and Phil Carlon, from Davey authorised Dealer North Queensland Pool Supplies, recommended the Davey PowerMaster Pool Pump paired with the Davey Eco-Pure Media Filters.

The Davey PowerMaster Pool Pump is renowned for its robust construction and high performance motor with massive power reserves, making it an ideal choice for the caravan park's demanding pool requirements. Engineered with high-quality materials and advanced hydraulic design, this pump offers unparalleled reliability and minimal maintenance requirements, which are essential in a remote location like Weipa.

Complementing the pump, the Davey Eco-Pure Media Filters are designed to deliver efficient and effective filtration while reducing maintenance needs. These filters utilise advanced media technology to capture even the smallest particles, ensuring crystal-clear water while minimizing the frequency of backwashing and media replacement.

To provide added redundancy and ensure continuous operation, even in the event of equipment failure, North Queensland Pool Supplies installed two independent filtration systems at the caravan park.



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### Implementation and Results

The recommended solution, consisting of two independent systems with the Davey PowerMaster Pool Pump and Davey Eco-Pure Media Filters, was installed at the caravan park in Weipa by North Queensland Pool Supplies. From the outset, the equipment demonstrated its ability to withstand the harsh tropical conditions, including high humidity and temperatures, while effectively catering to the high bather load demand during peak seasons.

The Weipa caravan park has reported exceptional performance, with consistently clean and well-circulated pool water, despite the challenging environment and heavy usage during peak times.

This case study exemplifies the importance of selecting equipment specifically designed for extreme conditions and remote locations, while also considering redundancy and reliability factors. By implementing the Davey PowerMaster Pool Pump and Davey Eco-Pure Media Filters, recommended and installed by our authorised dealer, North Queensland Pool Supplies, the caravan park in Weipa was able to benefit from a reliable and low-maintenance pool equipment solution capable of withstanding the region's tropical climate, isolated location, and high demand during peak seasons.

