

Industrial Chiller System for Burrup concrete batching plant 150 m³/hour low temp output



OBJECTIVES

- **Report and recommend corrective measures for the current chilling systems used on site.**
- **Design and build/modify the new system including all on-site installation and commissioning.**
- **Also provide a general report outlining current state of all fixed equipment in use.**

INTRODUCTION

A large concrete batching plant in Western Australia's north west was having difficulties with its water cooling system. Chilled water, even ice is widely used in concrete batching in these extreme temperature zones.

Control and Thermal Engineering were asked to do a site survey and make recommendations to improve their chiller system and other plant upgrade.

In need of extensive repairs, together with the cooling system being underpowered and storage tanks being inadequate.

CTE designed a new system with a larger storage capacity to eliminate peak loading and also automated the process. This allowed a sizable part of the cooling to be done at night. Recirculation pumps were put on the cooling towers to continuously utilise their existence. Storage tanks and cold lines were insulated and sun covers were widely used.

Due to a combination of good practices and clever engineering solutions. The system now operates 24h/day and will last many years with minimal maintenance.

The client now has a system operating well, demonstrated by a request for CTE to further report on the state of all fixed equipment on site.

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