

DUNHAM-BUSH AMERICAS

Antofagasta, Chile – Installing an industrial Chiller to meet their process needs

Antofagasta, a port city in Northern Chile, which is one of the world's driest deserts, is known for rich mining materials. Sociedad Chilena de Litio Ltda (SCL) located in the dry desert of Salar de Atacama produces lithium carbonate based on natural brines.

CHALLENGE

SCL needed a customized solution for maintaining their -22F glycol temperature in their process. SCL's industrial jobsite along with production cycle fluctuations frequenting from very high load to low load required a chiller tailored to their requirements. Dunham-Bush (DB) was completely outfitted to take on these challenging demands.

SOLUTION

DB's rotary screw products lead the way in the industry for its infinite unloading capabilities along with the qualifications to meet SCL's needs. DB also distinguished for their strong background and experience in industrial refrigeration products adequately deemed capable for the customized chiller. The chiller is suited with (3) equally sized circuits and (3) compressors to maintain the operation of the largest loads along with the low loads enabling a perfect process.



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RESULTS

In consequence of the precise control of SCL's process the customized chillers operate with no down time, sustaining, and conquering SCL's, and the deserts demands. Due to DB providing 3 compressors, the compressors allow for absolute consistency and redundancy for any challenge the process seeks to throw at them.



SPECIFICS

⇒Chiller model #IWCX315-5Q (2) installed on site

⇒Original DB chiller model IPCXi40-5, installed in 1999 and is now used as a stand-by back up



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