

# Sealing and Restoring Chiller Efficiency with Belzona

ID: 9512

Industry: Heating, Ventilation & Air Conditioning

Customer Location: Toronto

Application: HEX-Heat Exchangers

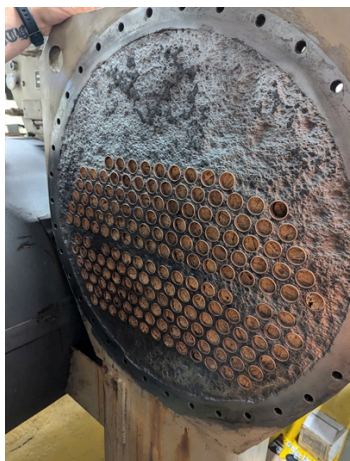
Application Date: July 2024

Substrate: Carbon steel

Products: Belzona 1121 (Super XL-Metal), Belzona 1321 (Ceramic S-Metal)

## Problem

The tube sheet of the chiller was heavily corroded, leading to a noticeable drop in efficiency. Additionally, the area around the gasket seals had worn out, preventing a proper seal and further compromising the chiller's performance.



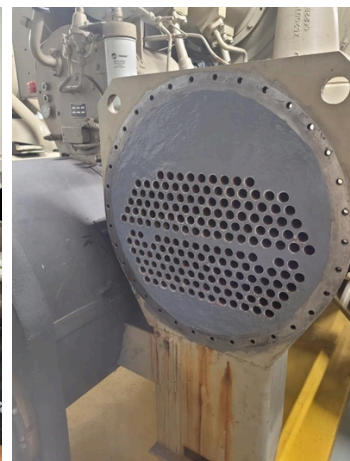
Tube Sheet after surface preparation



Surface resurfaced with Belzona 1121



Coating with Belzona 1321



Complete repair

## Application Situation

The customer has a long-standing history of using Belzona products for tube sheet repairs across their facilities in North America. Their satisfaction with Belzona's performance made it the natural choice for addressing the corrosion issues on the chiller's end tubes.

## Application Method

The surface was grit blasted and properly cleaned. Corks were inserted during the surface preparation to prevent media getting inside the tubes. The corks were then removed and reapplied before product application. Belzona 1121 was used to rebuild and resurface the worn out areas. Belzona 1321 was applied as a two coat system to protect the tube sheet from the effects of corrosion-erosion. The corks were then removed.

## Belzona Facts

By opting for Belzona, the customer benefited from a proven, high-performance solution that minimized downtime and extended the life of their equipment. The reliable and durable nature of Belzona products also led to reduced maintenance costs over time, making it a cost-effective option for their ongoing operational needs.

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

ISO 9001:2015

FS 695214

ISO 14001:2015

EMS 695213

Belzona products are  
manufactured under an ISO  
9000 Registered Quality  
Management System.

[www.belzona.com](http://www.belzona.com)

Copyright © Belzona International Limited 2025

  
**BELZONA**  
Repair • Protect • Improve