

## CLIENT SUCCESS PROJECTS

## NYC MEDICAL CARE FACILITY PLATE AND FRAME HEAT EXCHANGER

### About Us

The TurboChyll Company has served the commercial office, healthcare and plant services sector with HVAC maintenance, repair & solutions for over 25 years.

### The business case for servicing aging plate and frame heat exchangers:



- Detect hidden plate cracks before failure
- Extends life of aging, obsolete equipment



- Restores heat-transfer efficiency
- Eliminates fouling and flow restrictions



- Identifies internal cross-leaks
- Replaces degraded gaskets to stop seepage



- Prevents emergency shutdowns
- Avoids unplanned and costly capital replacement

### The Challenge: Extend life of 25-year-old plate & frame heat exchanger

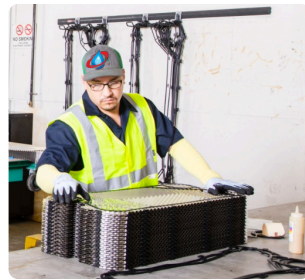
A critical healthcare facility was operating a 25-year-old plate and frame heat exchanger that had never been dye-penetrant tested, creating risk from unknown plate integrity, obsolete components, and potential internal leaks. With chiller reliability at stake and minimal allowable downtime, the facility needed to extend the unit's life without triggering a costly full replacement.



### The TurboChyll Company Solution



Heat Exchanger Cleaning



Full Service Regasketing



Dye Penetrant Testing

**TurboChyll** executed a coordinated labor plus materials program to fully restore integrity and performance of the heat exchanger:

- Onsite coordination: isolated and drained exchanger with facility staff
- Plate removal: opened frame and removed plates
- Cleaning and testing: cleaned plates and performed dye-penetrant testing
- Regasketing: installed new OEM gaskets
- Reassembly: rebuilt plate pack and torqued to OEM specifications
- System restart: pressurized and leak-tested
- Documented: system performance of chiller, condenser, and heat exchanger

### Delivered Results and Value

This project transformed an aging, high-risk heat exchanger into a stabilized, documented, and leak-free system, preventing failure, extending the life of a 1999 asset, and avoiding costly replacement. Coordinated execution minimized downtime, established a 15% failure benchmark for future planning, and ensured uninterrupted hospital chiller and condenser performance while delivering measurable lifecycle value.



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