

CLIENT SUCCESS PROJECTS

COMMERCIAL OFFICE BUILDING RETURN FAN REPLACEMENT

About Us

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

Why should aging return fans be replaced?



- Restore reliable and consistent airflow
- Better system control & visibility



- Improve energy efficiency
- Reduce operating costs



- Enhance comfort with less noise inside
- Reduce vibration to minimize equipment wear



- Decrease frequent maintenance & repairs
- Extends life of HVAC connected equipment

The Challenge: Return Fan Compromising HVAC Reliability

The 20th floor return air system relied on an outdated tubular inline fan assembly that no longer provided reliable airflow or efficient operation. The existing unit required full disconnection, demolition, and disposal, as it could not meet the building's airflow, static pressure, control, or integration requirements.

The *TurboChyll Company* Solution



Demolition & Removal



New Installation & Wiring



VFD installation and commissioning

TurboChyll provided a turnkey replacement of the system including:

- Removal and disposal of the existing tubular inline fan.
- Supplied and installed a new 12,000 CFM, 7.5 HP tubular inline direct-drive fan with premium-efficiency TEFC motor.
- Installed VFD controller featuring BACnet touchscreen integration.
- Added airflow monitoring and pre-wired 25' EC whips (230/3 voltage).
- Installed the new fan and completed all wiring and system start-up.
- Trained engineering staff on fan operation and controls.
- Customer support with a 1 year **TurboGuard Plus** parts & labor warranty.



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Delivered Results and Value

The new fan will restore stable airflow, improve energy efficiency with VFD and BACnet controls, and decrease maintenance through its direct-drive design. Engineering staff received training for system operation, and the one year TurboGuard Plus warranty will ensure reliability and peace of mind.

Your Trust, Our Promise

New York's Premier Mechanical Solutions Service Provider
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