

Patrick Motola, Senior Partner, The Weghorst Group Bret Weinstock, FM/Energy, Walmart US October 2021





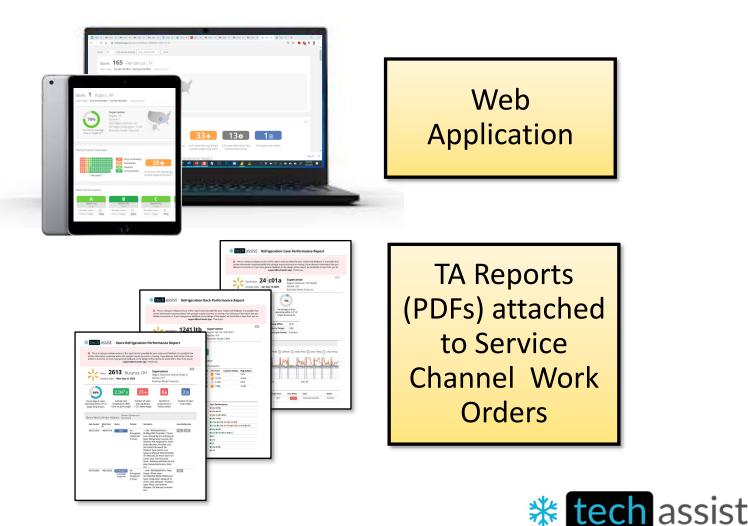
Overview

Tech Assist is a web application designed for Refrigeration Managers, Experts and Technicians that provides a single source to view store, rack, case and work order information from a laptop or tablet.

Single Source of Store, Rack, Case and Work Order Data & Analytics

Note: Tech Assist receives data 4 times a day, but it is not a real time monitoring application

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Getting Started

Tech Assist is easy to learn and easy to use – just jump in

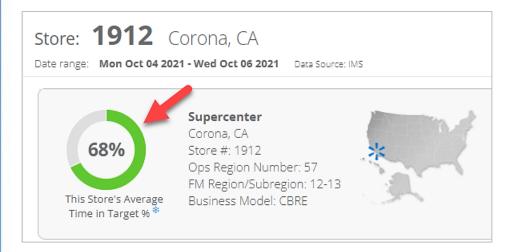
- You can't break anything Tech Assist is read only
- Explore. There are a lot of capabilities that can't be covered in one session
- Tech Assist has a simple Store > Rack > Case hierarchy

Steps to Get Started

- Go to techassist.app to gain access.
- Create your list of stores
- Go to Store Viewer starting with the lowest performing stores
- Let the data lead you to Rack and Cases that are impacting performance
- Use Tech Assist to help isolate the problems and develop resolution plan



Key Measure: % Time in Target



% Time in Target is also provided for Racks, Circuits and Cases.

Note: % Time in Target excludes defrost cycles

Store: 1912 Corona, Date range: Mon Oct 04 2021 - Wed Oct Time in target for a store is determined by averaging the time spent within +2.5/-2.5 degrees (for MT) or +2.5/-5 degrees (for LT) of set point across all refrigeration cases in the store over the last 72 hours and is used to indicate overall store refrigeration performance. BUSINESS Time in Target %





For Managers

- Leaderboard
 - Focusing on quarterly performance improvement by HVACR Manager

Explorer

Walmart

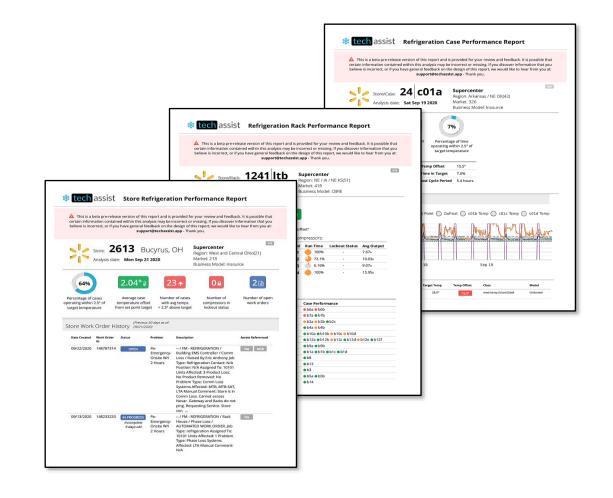
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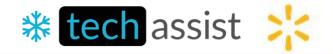
- Access and Filter all Tech Assist Store level Analytics
- Export for further action and analysis

*** tech** assist

Service Channel PDF Reports

- Store, Rack, and Case PDF Reports accessed from Service Channel WOs
- Reports are created when the WO is submitted (or an asset is added) and shows data for that point in time. For most recent data, use the Tech Assist app.
- A Store Report is available for all Work Orders. Rack and Case reports available when asset IDs are provided in the Work Order.





Continuous Data Improvement

Complex, Large Scale Environment

- 5000+ US Stores, 500K+ Cases plus Controllers, Compressors, Condensers, etc of varying age and data reporting capabilities.
- Aggregating, cleaning and cross referencing of data using two systems (IMS, IOT)
- Network dependencies
- Etc, etc, etc.
- Overall Data Quality is very good and is key to using a data driven method to improve refrigeration, but there are issues
 - Stores not reporting, Setpoint reporting errors, etc.
 - While these issues show up in Tech Assist, they are a result of Walmart data issues
 - Data issue reporting
 - Please report data issues to <u>pat@weghorstgroup.com</u>
 - In the future we will have an Issue Reporting Form in the Tech Assist app.



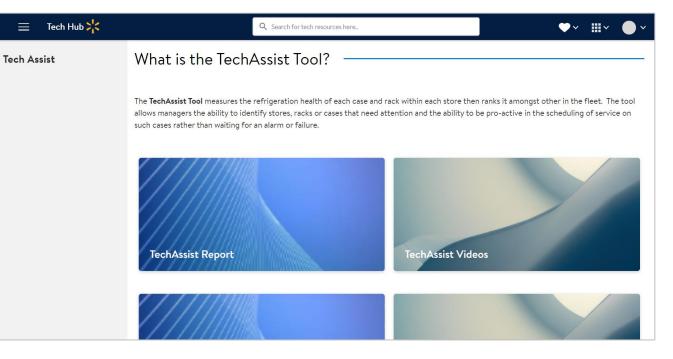
For More Information

- Walmart Tech Hub
 - <u>https://one.walmart.com/content/facilities-management/fm-technician-page/my-</u> role/outsource-technicians/tech-assist.html
 - In the process of being updated
 - Content Includes videos, data sheets, sample reports.

Email

Almart annovey. Live better.

- pat@weghorstgroup.com
- bret.weinstock@walmart.com







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Data Sources and Data Flow

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