

Report By:

National TAB
1329 E. KEMPER ROAD
SUITE 4210
CINCINNATI, OH 45246



Report: TAB REPORT
Function: Test, Adjust, & Balance
Date: 05/01/2025
Completed By: National TAB

PROJECT
04-28-25 WALGREENS #6937 AURORA, IL
(REACTIVE)

1221 N LAKE ST

AURORA , IL 60506

Client

Walgreens

200 WILMOT RD

DEERFIELD, IL 60015

National TAB

Project: 04-28-25 WALGREENS #6937 AURORA, IL (REACTIVE)

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Project Summary

The summary below provides a quick understanding of our scope of work and general testing procedures. Enclosed in the report is further detail about your building performance including recommendations, asset data, and pictures. Our focus is to work with the trades to remedy any issues or deficiencies during the actual field balancing and not after the balancing has occurred to achieve a positive environment and outcome. The level of success is determined by the availability of the trades, possible parts needed, or time constraints.

Commissioning Activities

Equipment was inspected to ensure that the installation meets Walgreens requirements. Control and equipment setpoints were checked and after balancing was completed performance of each unit was verified. The full list of items that were verified along with any that failed are contained in the checklists in this report.

RTU's (Roof Top Units) w/ Diffusers

Each of the RTU's were measured at their terminal devices or via traverse to establish a total flow for that unit. Each RTU was adjusted to within tolerance per Walgreens standards. Each outlet was then adjusted to within tolerance. Outside air was measured by reading the intake air opening with a velocity grid and multiplying by the free area. The outside air damper was adjusted until the airflow was within the design requirements. Any equipment that fell outside of that tolerance is noted throughout the report.

General Exhaust Fans w/ Grilles

The general exhaust fans were measured by reading each air device with a flow hood. The total airflow for each fan is equivalent to the sum of these readings. Fan speed was then adjusted so that the airflow was within tolerance. Each terminal device was balanced to within tolerance of the design volume using the installed volume dampers. Any equipment that fell outside of this tolerance is noted throughout the report.

Issue List

- Economizers not functional
- EF-2/EF-3 vibration
- RTU-3 low on flow
- RTU-4 not operational



04-28-25 WALGREENS #6937 AURORA, IL (REACTIVE)

Project Issue Information

Issue Name : Economizers not functional
Description : Economizers for all RTUs are not functional. Manually set to achieve design OA airflow. Recommend mechanical inspect economizer wiring and controllers to correct for proper functionality.
Created By : National TAB **Assigned To :** National TAB - Dylan Crisman
Status : Open
Priority : High **Asset Tag :**
Originated Date : 04/28/2025 - Dylan Crisman - National TAB



04-28-25 WALGREENS #6937 AURORA, IL (REACTIVE)

Project Issue Information

Issue Name : EF-2/EF-3 vibration
Description : EF-3/EF-2 have a significant vibration sound coming from them when turned down past a certain point on speed controller. When set at design CFM fans become louder. Recommend mechanical inspect for loose parts or fan misalignment.
Created By : National TAB **Assigned To :** National TAB - Dylan Crisman
Status : Open
Priority : Low **Asset Tag :**
Originated Date : 04/30/2025 - Dylan Crisman - National TAB

Project Issue File Details



04/30/2025



04/30/2025



04-28-25 WALGREENS #6937 AURORA, IL (REACTIVE)

Project Issue Information

Issue Name : RTU-3 low on flow
Description : RTU-3 is low on flow at 92% of design at 1 turn open. Unit is at FLA, could not increase speed further without motor overramping.
Created By : National TAB **Assigned To :** National TAB - Dylan Crisman
Status : Open
Priority : High **Asset Tag :**
Originated Date : 04/30/2025 - Dylan Crisman - National TAB



04-28-25 WALGREENS #6937 AURORA, IL (REACTIVE)

Project Issue Information

Issue Name : RTU-4 not operational
Description : RTU-4 is not operational, it appears the blower wheel has fallen out of alignment and the fan housing is dented and sunken along the back, appears someone has attempted to repair. Unable to determine current status of repairs with store managers.
Created By : National TAB **Assigned To :** National TAB - Dylan Crisman
Status : Open
Priority : Urgent **Asset Tag :**
Originated Date : 04/28/2025 - Dylan Crisman - National TAB

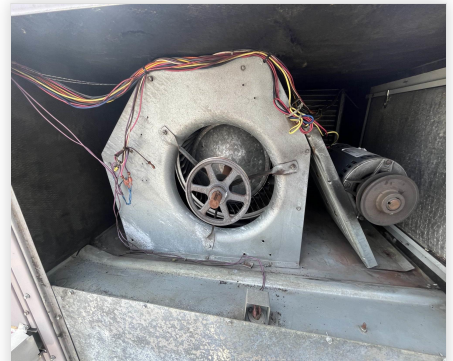
Project Issue File Details



04/28/2025



04/28/2025



04/28/2025

National TAB

Project: 04-28-25 WALGREENS #6937 AURORA, IL (REACTIVE)

- [Open](#) Walgreens_Balance_Schedule_4_.xlsx

CheckList List

- 01 RTU INSTALLATION CHECKLIST
- 02 EXHAUST FANS INSPECTIONS
- 04 EMS/SENSOR VALIDATION
- 05 TAB CHECKLIST
- 06 FUNCTIONAL TESTS
- 07 TEMPERATURE SETPOINTS
- 08 ENTRANCE HEATERS



04-28-25 WALGREENS #6937 AURORA, IL (REACTIVE)

CheckList Information

Name : 01 RTU INSTALLATION CHECKLIST **Status :** Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 04/22/2025 - Nicole Seever - National TAB
Completed Date : 04/30/2025 - Dylan Crisman - National TAB

CheckList Item Details

General / Exterior Inspections

Verify all required equipment has been replaced per TA and BOM. Pass

Comment:

All units are installed in the proper locations Pass

Comment:

Units are labeled correctly Pass

Comment:

Asset tag installed Pass

Comment:

Roof is clear of debris. Pass

Comment:

Maintenance access for all unit access panels is acceptable and panels open freely. Pass

Comment:

Cabinet and general installation is complete. Pass

Comment:

Unit is secure to curb and level horizontally and vertically.

Pass

Comment:

Access doors close tightly with no leaks

Pass

Comment:

Condensate and gas piping is properly supported.

Pass

Comment:

Costgaurd is installed per scope of work and piping unions are cemented.

Pass

Comment:

Additional Comments

Comment:

Interior Inspections

Fan rotation is correct

Pass

Comment:

Pulleys are correctly aligned and both motor and fan sheave pins are tightened in place.

Pass

Comment:

Return air and outside air dampers close tightly with no gaps

Pass

Comment:

Cabinet and coils are not damaged and in like new condition.

Pass

Comment:

Inside of unit is clean and clear of debris.

Pass

Comment:

Validate condensate is piped to splash block, draining, or roof drain per code requirements

Pass

Comment:

Verify filters are installed, clean and of proper size. Verify there is no air by-pass around filters.

Pass

Comment:

Curb is sealed with no air leakage.

Pass

Comment:

Additional Comments:

Comment:

Fire/Smoke Alarm Systems

In duct smoke detectors are installed

Pass

Comment:

Fire alarm panel status (visual inspection where possible)

Comment:

Nothing appears on screen.

Additional Comments:

Comment:

Electrical

Electrical wiring is complete with no visible damage

Pass

Comment:

Electrical connections are tight with sealtight around any unit penetrations.

Pass

Comment:

Disconnect switch is installed in accessible location near or on unit.

Pass

Comment:

Verify overcurrent protection is HACR type, installed and sized correctly and labeled in panel.

Pass

Comment:

Maintenance electrical outlet is installed and functional.

Pass

Comment:

Main distribution panel is labeled correctly.

Pass

Comment:

Unit ground wire is secured.

Pass

Comment:

Additional Comments:

Comment:



04-28-25 WALGREENS #6937 AURORA, IL (REACTIVE)

CheckList Information

Name : 02 EXHAUST FANS INSPECTIONS **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 04/22/2025 - Nicole Seever - National TAB

Completed Date : 04/29/2025 - Dylan Crisman - National TAB

CheckList Item Details

Fan rotation is correct Pass

Comment:

Pulleys are aligned and belts are tensioned properly

Comment:

NA/DD

Speed controller installed and functional (direct drive)

Comment:

Yes

Fan is secured to the curb Pass

Comment:

Back draft damper is installed and functional Pass

Comment:

No exterior damage to the fan Pass

Comment:

No unusual noise or vibration Pass

Comment:

Controls are functional

Pass

Comment:

Additional Comments:

Comment:



04-28-25 WALGREENS #6937 AURORA, IL (REACTIVE)

CheckList Information

Name : 04 EMS/SENSOR VALIDATION **Status :** Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 04/22/2025 - Nicole Seever - National TAB
Completed Date : 04/30/2025 - Dylan Crisman - National TAB

CheckList Item Details

RTU supply air temp sensor location located per start-up binder. Pass

Comment:

RTU return air temp sensor location located per start-up binder. Pass

Comment:

RTU return air smoke detector (when applicable) is located per start-up binder. Pass

Comment:

Space temperature sensor has been replaced and location meets requirements. Pass

Comment:

Space humidity sensor has been replaced and location meets requirements. Pass

Comment:

Unit is being controlled by a space temperature sensor or thermostat Pass

Comment:

EMS has been connected and validated with TOC or Gridpoint. Screen shot is available. Fail

Comment:

Replaced RTUs 2 and 3 are connected through local thermostat.

No splicing of EMS/Sensor/Thermostat wiring is visible

Pass

Comment:

(If Applicable) 2 Stage Thermostat to SE Board Control Wiring meets detail in start-up binder.

Comment:

Yes

(If Applicable) 2 Stage Thermostat to 4 Stage Unit meets detail in start-up binder.

Comment:

Yes

(If Applicable) 4 Stage Thermostat to 4 Stage Unit meets detail in start-up binder.

Comment:

Yes

(If Applicable) 3 Stage Thermostat wiring meets detail in start-up binder.

Comment:

Yes

(If Applicable) 3 Stage Thermostat with Humidity sensor wiring meets detail in start-up binder.

Comment:

Yes

(If Applicable) EH Thermostat with SCR control wiring meets detail in start-up binder.

Comment:

Yes

Temperature setpoints are set for correction region and space (see ASHRAE / temperature setpoint chart in procedure)

Fail

Comment:

Controls company would not change temperature setpoints without a proper service order made from Walgreens to them prior to changing.

Additional Comments:

Comment:



04-28-25 WALGREENS #6937 AURORA, IL (REACTIVE)

CheckList Information

Name : 05 TAB CHECKLIST **Status :** Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 04/22/2025 - Nicole Seever - National TAB
Completed Date : 04/30/2025 - Dylan Crisman - National TAB

CheckList Item Details

Outside air damper set to minimum air flow requirement and damper position marked. Pass

Comment:

Total Supply, return, and outside air volumes meet design tolerances (+/-10%) Pass

Comment:

Enclosed area diffusers (Pharmacies, manager office, employee room, restrooms, electrical rooms) balanced within +/-10%? Pass

Comment:

Open area diffusers (Sales floor and stock room) balanced within +/-25% of design? Pass

Comment:

Store pressure meets tolerances (see formula in balance schedule). Make sure to account for existing exhaust fans airflows as shown on original drawings that are non-functioning. Pass

Comment:

Outside air and return air dampers modulate freely. Fail

Comment:

OA dampers are not functional on all RTUs. OA damper had to be manually set to achieve minimum OA airflow requirement.

Start-up report from the installing contractor is reviewed and all information is filled out.
All required measurements are within typical ranges.

Pass

Comment:

(If Applicable) VFD is set-up and operational. (N/A = not applicable)

Comment:

Yes

Verify amp draw of motor is within unit specification, not operating in overramped condition.

Pass

Comment:

Sales floor temperature and humidity measurement

Comment:

69.8F/41.6%RH

Pharmacy temperature and humidity measurement

Comment:

70.9F/40.2%RH

Stock Room temperature and humidity measurement

Comment:

69.7F/38.7%RH

Outdoor air temperature and humidity measurement

Comment:

62.3F/41.6%RH

Additional Comments:

Comment:



04-28-25 WALGREENS #6937 AURORA, IL (REACTIVE)

CheckList Information

Name : 06 FUNCTIONAL TESTS **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 04/22/2025 - Nicole Seever - National TAB

Completed Date : 04/30/2025 - Dylan Crisman - National TAB

CheckList Item Details

Cooling Functional Test

Overwrite the thermostat or sensor to put the unit into cooling mode. Pass

Comment:

Compressors enable. Pass

Comment:

If fan has VFD, the fan increases speed. Pass

Comment:

Document the discharge air temperature.

Comment:

RTU-1 48.8F RTU-2 50.8F RTU-3 51.1F RTU-5 52.4F RTU-6 51.7F

After 10 minutes, Discharge air temperature is below 55 degrees. Pass

Comment:

Cooling mode is operational Pass

Comment:

Additional Comments:

Comment:

Heating Functional Test

Overwrite the thermostat or sensor to put the unit into heating mode. Pass

Comment:

Heat exchanger enables. Pass

Comment:

If fan has VFD, the fan increases speed. Pass

Comment:

Document the discharge air temperature.

Comment:

RTU-1 131.5F RTU-2 132.1F RTU-3 135.4F RTU-5 127.8F RTU-6 129F

After 10 minutes, Discharge air temperature is above 85 degrees. Pass

Comment:

Heating mode is operational Pass

Comment:

Additional Comments

Comment:

Dehumidification Functional Test

Overwrite the humidistat to put the unit into dehumidification mode. Pass

Comment:

Compressors enable. Pass

Comment:

Hot Gas Reheat Valve opens Pass

Comment:

If fan has VFD, the fan increases speed.

Pass

Comment:

Document the discharge air temperature.

Comment:

RTU-2 64.6F RTU-3 66.2F

Dehumidification Mode is operational. (Pass/Fail/NA)

Comment:

Pass for RTU-2/RTU-3. N/A for all other 4 RTUs.

Additional Comments:

Comment:

Economizer Functional Test

Overwrite the humidistat to put the unit into economizer mode.

Pass

Comment:

Economizer modulates from minimum position to 100% open. (Pass/Fail/NA)

Comment:

Fail, economizer does not function. Manually set min position.

Additional Comments:

Comment:



04-28-25 WALGREENS #6937 AURORA, IL (REACTIVE)

CheckList Information

Name : 07 TEMPERATURE SETPOINTS **Status :** Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 04/22/2025 - Nicole Seever - National TAB
Completed Date : 04/29/2025 - Dylan Crisman - National TAB

CheckList Item Details

Temperature setpoints must be set using provided charts are based on state and space that each RTU serves. Confirm with controls company that these are set correctly Fail

Comment:

Controls company would not change temperature setpoints without a proper service order made from Walgreens to them prior to changing.



04-28-25 WALGREENS #6937 AURORA, IL (REACTIVE)

CheckList Information

Name : 08 ENTRANCE HEATERS **Status :** Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 04/22/2025 - Nicole Seever - National TAB
Completed Date : 04/29/2025 - Dylan Crisman - National TAB

CheckList Item Details

Sensor is located within 15' of entrance area Pass

Comment:

Confirm proper operation of entrance heater and associated controls Pass

Comment:

Balance supply air quantity to manufacturer recommended supply airflow. Pass

Comment:

Confirm listed temperature rise and discharge air temperature based on approved BOM/submittal Pass

Comment:

National TAB

Project: 04-28-25 WALGREENS #6937 AURORA, IL
(REACTIVE)



System/Unit: AHU/RTU

Asset: EH1

AREA:FRONT DOOR

Unit Data		
	Design	Actual
MFG	NA	REZNOR
Serial Num	-	NL
Model Num	NA	NL
Type	-	UNIT HEATER
Configuration	-	VERTICAL
Num Final Filter 1	-	1
Final Filter Size 1	-	32x25
Num Final Filter 2	-	1
Final Filter Size 2	-	32x20

Drive Data	
	Actual
Motor Sheave Size	4"
Motor Bore Size	5/8"
Motor Sheave SetPt	2 TURNS OPEN
Fan Sheave Size	7"
Fan Sheave Bore	1"
Belt CL Distance	14"
Num of Belts	1
Belt Size	AX42
Belt Alignment	VERIFIED

Test Data		
	Design	Actual
SF CFM	2000	2093
SF RPM	-	1072
RA CFM	-	2093
OA CFM	0	0
RL Voltage	-	209/208/209
RL Amperage	-	1.9/2.0/2.0
SF Rotation	-	CW
SF System SetPt	-	2 TURNS OPEN

Performance Data		
	Design	Actual
Fan Suction SP	-	-0.55"
Fan Discharge SP	-	0.31"
Total ESP	-	0.86"
Fan Total SP	-	0.86"

General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	YES
Condensate Drain Installed	YES

Completed By: Dylan Crisman on 04/30/2025

Unit Data - PHOTO LOG



04/28/2025

National TAB

Project:04-28-25 WALGREENS #6937 AURORA, IL
(REACTIVE)

AHU/RTU



Diffuser Supply (GRD)

EH1/FRONT DOOR

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	FRONT DOOR			1000	1.0	1059	1059	1059	105.9
SGRD2	FRONT DOOR			1000	1.0	1034	1034	1034	103.4
Total				2000		2093	2093	2093	104.65%

Completed By: Dylan Crisman on 04/29/2025

National TAB

Project: 04-28-25 WALGREENS #6937 AURORA, IL
(REACTIVE)



System/Unit: AHU/RTU

Asset: RTU1

AREA:FRONT SALES/ENTRY

Unit Data		Actual	Test Data																			
	Design		Design	Actual																		
MFG	TRANE	SF CFM TRANE	3150	3060																		
Serial Num	-	SF RPM 15401225L	-	NA																		
Model Num	YHC092F3RHA0EF0A0A20600030000D000000000	YHC092F3RHA04EFU	2678	2576																		
Type	RTU	OA CFM RTU	472	484																		
Configuration	VERTICAL	RL Voltage	-	210/210/210																		
Num OA Filters 1	-	RL Amperage	-	3.8/3.4/3.9																		
OA Filter Size 1	-	SF Rotation	-	CW																		
Num Final Filter 1	-	SF System SetPt	-	4.6VDC																		
Final Filter Size 1	-	RA Damper Position	-	MECHANICAL LINKAGE																		
<table border="1"> <thead> <tr> <th colspan="3">Motor Data</th> </tr> <tr> <th></th> <th>Design</th> <th>Actual</th> </tr> </thead> <tbody> <tr> <td>Horsepower</td> <td>7.5</td> <td>3.80</td> </tr> <tr> <td>Phase</td> <td>3</td> <td>3</td> </tr> <tr> <td>Rated Voltage</td> <td>208</td> <td>208</td> </tr> <tr> <td>Rated Amperage</td> <td>-</td> <td>8.5</td> </tr> </tbody> </table>		Motor Data				Design	Actual	Horsepower	7.5	3.80	Phase	3	3	Rated Voltage	208	208	Rated Amperage	-	8.5	Min OA Damper Position	-	3/4" OPEN
		Motor Data																				
			Design	Actual																		
		Horsepower	7.5	3.80																		
Phase	3	3																				
Rated Voltage	208	208																				
Rated Amperage	-	8.5																				
Min OA Damper Type	-	ECONOMIZER																				
OA Enthalpy Setpt	-	D																				

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.21"
Fan Suction SP	-	-0.33"
Fan Discharge SP	-	0.32"
Total ESP	0.50"	0.53"
Fan Total SP	-	0.65"

General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	YES
Condensate Drain Installed	YES

Completed By: Dylan Crisman on 04/30/2025

Notes:
Economizer not functional, OA damper manually set to achieve design airflow.

Written By: Dylan Crisman on 05/20/2025

Unit Data - PHOTO LOG



04/28/2025

National TAB

Project:04-28-25 WALGREENS #6937 AURORA, IL
(REACTIVE)

AHU/RTU



Diffuser Supply (GRD)

RTU1/FRONT SALES/ENTRY

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	FRONT SALES/ENTRY	2	24X24"	800	1.0	763	763	763	95.4
SGRD2	FRONT SALES/ENTRY	2	24X24"	500	1.0	505	505	505	101.0
SGRD3	FRONT SALES/ENTRY	5	6X24"	200	1.0	209	209	209	104.5
SGRD4	FRONT SALES/ENTRY	5	6X24"	200	1.0	228	228	228	114.0
SGRD5	FRONT SALES/ENTRY	5	6X24"	200	1.0	212	212	212	106.0
SGRD6	FRONT SALES/ENTRY	5	6X24"	200	1.0	223	223	223	111.5
SGRD7	FRONT SALES/ENTRY	5	6X24"	200	1.0	226	226	226	113.0
SGRD8	FRONT SALES/ENTRY	5	6X24"	200	1.0	217	217	217	108.5
SGRD9	FRONT SALES/ENTRY	2	24X24"	500	1.0	477	477	477	95.4
Total				3000		3060	3060	3060	102%

National TAB

Project: 04-28-25 WALGREENS #6937 AURORA, IL
(REACTIVE)



System/Unit: AHU/RTU

Asset: RTU2

AREA:FRONT SALES/OFFICE/PHOTO

Unit Data			Test Data		
	Design	Actual		Design	Actual
MFG	YORK	YORK	SF CFM	3125	3026
Serial Num	-	N2A3372345	SF RPM	-	953
Model Num	ZT078N18R2B5GCA2R2	ZT078N18R2B5GCA2R2	RA CFM	2656	2539
Type	RTU	RTU	OA CFM	469	481
Configuration	VERTICAL	VERTICAL	RL Voltage	-	210/209/210
Num OA Filters 1	-	1	RL Amperage	-	7.3/7.3/7.7
OA Filter Size 1	-	29X21	SF Rotation	-	CW
Num Final Filter 1	-	2	SF System SetPt	-	2 TURNS OPEN
Final Filter Size 1	-	47X19.5	RA Damper Position	-	MECHANICAL LINKAGE

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR-RELIANCE
Frame	-	56Hz
Horsepower	7.5	2.0
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	5.8

Drive Data	
	Actual
Motor Sheave Size	5"
Motor Bore Size	1"
Motor Sheave SetPt	3 TURNS OPEN
Fan Sheave Size	7"
Fan Sheave Bore	1"
Belt CL Distance	19.5"
Num of Belts	1
Belt Size	A54
Belt Alignment	VERIFIED

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.82"
Fan Suction SP	-	-0.87"
Fan Discharge SP	-	0.60
Total ESP	0.50"	1.42"
Fan Total SP	-	1.47"

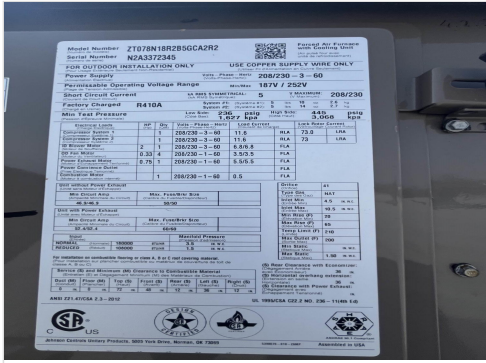
General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	YES
Condensate Drain Installed	YES

Completed By: Dylan Crisman on 04/30/2025

Notes:
Economizer not functional, OA damper manually set to achieve design airflow.

Written By: Dylan Crisman on 05/20/2025

Unit Data - PHOTO LOG



04/28/2025



04/28/2025

National TAB

Project: 04-28-25 WALGREENS #6937 AURORA, IL
(REACTIVE)

AHU/RTU



Diffuser Supply (GRD)

RTU2/Front Sales/Office/Photo

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	FRONT SALES	2	24X24"	375	1.0	401	401	401	106.9
SGRD2	FRONT SALES	2	24X24"	375	1.0	379	379	379	101.1
SGRD3	TRAINING ROOM	2	24X24"	200	1.0	188	188	188	94.0
SGRD4	PASSAGE	2	24X24"	200	1.0	191	191	191	95.5
SGRD5	OFFICE	2	24X24"	500	1.0	464	464	464	92.8
SGRD6	1 HR PHOTO	2	24X24"	500	1.0	462	462	462	92.4
SGRD7	1 HR PHOTO	2	24X24"	600	1.0	576	576	576	96.0
SGRD8	FRONT SALES	2	24X24"	375	1.0	365	365	365	97.3
Total				3125		3026	3026	3026	96.83%

Completed By: Dylan Crisman on 04/29/2025

National TAB

Project: 04-28-25 WALGREENS #6937 AURORA, IL
(REACTIVE)



System/Unit: AHU/RTU

Asset: RTU3

AREA: REAR SALES/BREAKROOM

Unit Data		
	Design	Actual
MFG	CARRIER	CARRIER
Serial Num	-	0203G30605
Model Num	48HJF008G	48HJF008G-541HQ
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	35X20
Num Final Filter 1	-	2
Final Filter Size 1	-	42X16.5

Motor Data		
	Design	Actual
Motor MFG	-	GE MOTORS
Frame	-	56Y
Motor Rpm	-	1620
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	7.5

Drive Data	
	Actual
Motor Sheave Size	5"
Motor Bore Size	1"
Motor Sheave SetPt	2TURNS OPEN
Fan Sheave Size	7"
Fan Sheave Bore	1"
Belt CL Distance	19.5"
Num of Belts	1
Belt Size	AX54
Belt Alignment	VERIFIED

Test Data		
	Design	Actual
SF CFM	3658	3390
SF RPM	-	867
RA CFM	3308	3018
OA CFM	350	372
RL Voltage	-	209/209/210
RL Amperage	-	7.9/8.2/8.0
SF Rotation	-	CW
SF System SetPt	-	1 TURN OPEN
RA Damper Position	-	MECHANICAL LINKAGE
Min OA Damper Position	-	1/4" OPEN
Min OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.78"
Fan Suction SP	-	-0.97"
Fan Discharge SP	-	0.53"
Total ESP	0.50"	1.31"
Fan Total SP	-	1.5"

General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	YES
Condensate Drain Installed	YES

Completed By: Dylan Crisman on 04/30/2025

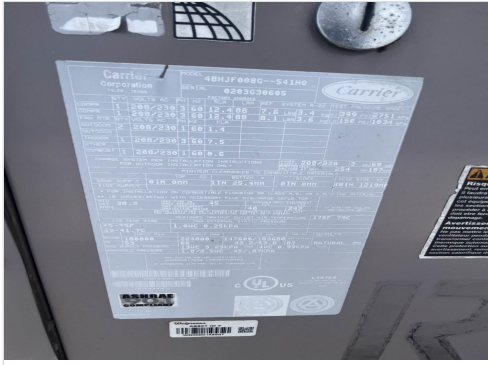
Notes:

- [1] Unable to reach ductwork dampers for sales floor side of this unit to push airflow in to break room and backroom area. could not sufficiently balance enclosed rooms.
- [2] Economizer not functional, OA damper manually set to achieve design airflow.

[1]UNIT IS LOW ON FLOW. 420cfm/ton puts this unit at 3150CFM but plans call for 3658CFM. Unit is at 3398CFM at FLA.

Written By: Dylan Crisman on 05/20/2025

Unit Data - PHOTO LOG



04/28/2025



04/28/2025

National TAB

Project:04-28-25 WALGREENS #6937 AURORA, IL
(REACTIVE)

AHU/RTU



Diffuser Supply (GRD)

RTU3/REAR SALES/BREAKROOM

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	PASSAGE #1	2	12X12"	360	1.0	194	223	223	61.9
SGRD2	REAR SALES	2	12X12"	400	1.0	223	256	256	64.0
SGRD3	REAR SALES	2	24X24"	966	1.0	765	880	880	91.1
SGRD4	REAR SALES	2	24X24"	966	1.0	879	1010	1010	104.6
SGRD5	REAR SALES	2	24X24"	966	1.0	888	1021	1021	105.7
Total				3658		2949	3390	3390	92.67%

National TAB

Project: 04-28-25 WALGREENS #6937 AURORA, IL
(REACTIVE)



System/Unit: AHU/RTU

Asset: RTU4

AREA: REAR SALES

Unit Data			Test Data		
	Design	Actual		Design	Actual
MFG	YORK	YORK	SF CFM	2730	0
Serial Num	-	N2M3998293	OA CFM	300	0
Model Num	ZT078N18R2B5GCE2R2	ZT078N18R2B5GCE2R2	SF Rotation	-	CW
Type	RTU	RTU	SF System SetPt	-	3 TURNS OPEN
Configuration	VERTICAL	VERTICAL	RA Damper Position	-	MECHANICAL LINKAGE
Num OA Filters 1	-	1	Min OA Damper Type	-	ECONOMIZER
OA Filter Size 1	-	29X21	OA Enthalpy Setpt	-	27B
Num Final Filter 1	-	2			
Final Filter Size 1	-	47X19.5			

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR-RELIANCE
Frame	-	56Hz
Horsepower	2	2.0
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	230	208
Rated Amperage	-	5.8

General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	YES
Condensate Drain Installed	YES

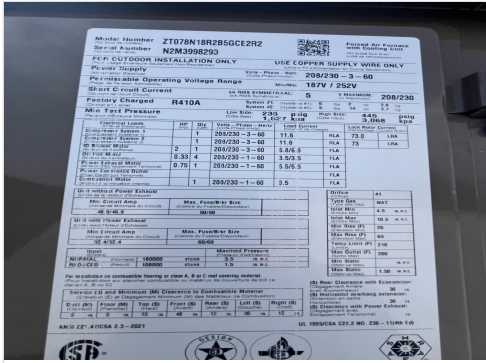
Drive Data	
	Actual
Motor Sheave Size	5"
Motor Bore Size	1"
Motor Sheave SetPt	3 TURNS OPEN
Fan Sheave Size	7"
Fan Sheave Bore	1"
Belt CL Distance	19.5"
Num of Belts	1
Belt Size	A54
Belt Alignment	VERIFIED

Completed By: Dylan Crisman on 05/20/2025

Notes:
RTU-4 is not operational, could not balance to design airflow. Issue created.

Written By: Michael McDonnell on 05/20/2025

Unit Data - PHOTO LOG



04/28/2025



04/28/2025

National TAB

Project:04-28-25 WALGREENS #6937 AURORA, IL
(REACTIVE)

AHU/RTU



Diffuser Supply (GRD)

RTU4/REAR SALES

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	REAR SALES	2	24X24"	1200	1.0	0	0	0	0.0
SGRD2	REAR SALES	2	24X24"	1200	1.0	0	0	0	0.0
SGRD3	REAR SALES	2	24X24"	1200	1.0	0	0	0	0.0
Total				3600		0	0	0	0%

Completed By: Dylan Crisman on 05/20/2025

National TAB

Project: 04-28-25 WALGREENS #6937 AURORA, IL
(REACTIVE)



System/Unit: AHU/RTU

Asset: RTU5

AREA:STOCK ROOM

Unit Data		
	Design	Actual
MFG	CARRIER	CARRIER
Serial Num	-	5002G20402
Model Num	48HJE005G	48HJE005G-551HQ
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	28X14
Num Final Filter 1	-	1
Final Filter Size 1	-	35X24

Motor Data		
	Design	Actual
Motor MFG	-	GE MOTORS
Horsepower	0.63	1.0
Motor Rpm	-	1620
Phase	3	1
Rated Voltage	208	208
Rated Amperage	-	4.90

Drive Data	
	Actual
Motor Sheave Size	3.25"
Motor Bore Size	1/2"
Motor Sheave SetPt	2 TURNS OPEN
Fan Sheave Size	4"
Fan Sheave Bore	5/8"
Belt CL Distance	14.5"
Num of Belts	1
Belt Size	AX36
Belt Alignment	VERIFIED

Test Data		
	Design	Actual
SF CFM	1600	1633
SF RPM	-	916
RA CFM	1425	1446
OA CFM	175	187
RL Voltage	-	210/211/211
RL Amperage	-	2.5/2.4/2.5
SF Rotation	-	CW
SF System SetPt	-	2 TURNS OPEN
RA Damper Position	-	MECHANICAL LINKAGE
Min OA Damper Position	-	0.25" OPEN
Min OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.20"
Fan Suction SP	-	-0.38"
Fan Discharge SP	-	0.23
Total ESP	0.50"	0.43"
Fan Total SP	-	0.61"

General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	YES
Condensate Drain Installed	YES

Completed By: Dylan Crisman on 04/30/2025

Notes:
Economizer not functional, OA damper manually set to achieve design airflow.

Written By: Dylan Crisman on 05/20/2025

Unit Data - PHOTO LOG



04/28/2025



04/28/2025

National TAB

Project:04-28-25 WALGREENS #6937 AURORA, IL
(REACTIVE)

AHU/RTU



Diffuser Supply (GRD)

RTU5/STOCK ROOM

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	STOCK ROOM	5	14X14"	800	1.0	862	801	801	100.1
SGRD2	STOCK ROOM	5	14X14"	800	1.0	895	832	832	104.0
Total				1600		1757	1633	1633	102.06%

National TAB

Project: 04-28-25 WALGREENS #6937 AURORA, IL
(REACTIVE)



System/Unit: AHU/RTU

Asset: RTU6

AREA:PHARMACY

Unit Data		
	Design	Actual
MFG	CARRIER	CARRIER
Serial Num	-	0803G50105
Model Num	48HJF006G	48HJF006G-541HQ
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	28X14
Num Final Filter 1	-	1
Final Filter Size 1	-	35X24

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56Y
Motor Rpm	-	1725
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	5.2

Drive Data	
	Actual
Motor Sheave Size	3.75"
Motor Bore Size	5/8"
Motor Sheave SetPt	2 TURNS OPEN
Fan Sheave Size	4"
Fan Sheave Bore	7/8"
Belt CL Distance	14.75"
Num of Belts	1
Belt Size	AX38
Belt Alignment	VERIFIED

Test Data		
	Design	Actual
SF CFM	2100	1979
SF RPM	-	1272
RA CFM	2100	1979
OA CFM	0	0
RL Voltage	-	211/210/209
RL Amperage	-	4.6/4.3/4.4
SF Rotation	-	CW
SF System SetPt	-	2 TURNS OPEN
RA Damper Position	-	MECHANICAL LINKAGE
Min OA Damper Position	-	CLOSED
Min OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.53"
Fan Suction SP	-	-0.88"
Fan Discharge SP	-	0.38"
Total ESP	0.50"	0.91"
Fan Total SP	-	1.26"

General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	YES
Condensate Drain Installed	YES

Completed By: Dylan Crisman on 04/30/2025

Notes:
Economizer not functional, OA damper manually set to achieve design airflow.

Written By: Dylan Crisman on 05/20/2025

Unit Data - PHOTO LOG



04/28/2025



04/28/2025

National TAB

Project: 04-28-25 WALGREENS #6937 AURORA, IL
(REACTIVE)

AHU/RTU



Diffuser Supply (GRD)

RTU6/PHARMACY

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	PHARMACY	2	24X24"	575		658	567	567	98.6
SGRD2	PHARMACY	2	24X24"	575		505	588	588	102.3
SGRD3	PHARMACY	2	24X24"	575		546	560	560	97.4
SGRD4	PATIENT SEATING	2	24X24"	275		290	264	264	96.0
Total				2000		1999	1979	1979	98.95%

Completed By: Dylan Crisman on 04/29/2025

National TAB

Project: 04-28-25 WALGREENS #6937 AURORA, IL
(REACTIVE)



System/Unit: FAN - Exhaust

Asset: EF2

AREA:EMPLOYEE BREAKROOM

Unit Data		
	Design	Actual
MFG	GREENHECK	PENNBARRY
Model Num	G-80-DGEX-QD-D	DX11Q
Serial Num	-	F23OZ80299
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Test Data		
	Design	Actual
CFM	300	314
Fan RPM	-	314
Fan Rotation	-	CCW
Motor RPM	-	314
System SetPt	-	MARKED@SPEED DIAL
RL Voltage	-	[2]
RL Amperage	-	[2]
Total ESP	0.375"	0.29"
Fan Inlet SP	-	-0.29"
Fan Discharge SP	-	ATM

Motor Data		
	Design	Actual
Motor MFG	-	GENTEQ
Horsepower	-	1/5
Motor Rpm	-	1725
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	3.0
Service Factor	-	1.15

Completed By: Dylan Crisman on 04/29/2025

- Notes:
- [1] Exhaust fan has significant noise/vibration when set at a lower speed to achieve design airflow.
 - [2] Exhaust fan is lightswitch configuration, unable to safely obtain amps and volts.

Written By: Michael McDonnell on 05/20/2025

Unit Data - PHOTO LOG



04/28/2025



04/28/2025

National TAB

Project: 04-28-25 WALGREENS #6937 AURORA, IL
(REACTIVE)



System/Unit: FAN - Exhaust

Asset: EF3

AREA:MENS + WOMENS RESTROOM

Unit Data		
	Design	Actual
MFG	GREENHECK	PENNBARRY
Model Num	G-95-DGEX-QD-G	DX11Q
Serial Num	-	DX11QF23OZ80301
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Test Data		
	Design	Actual
CFM	500	508
Fan RPM	-	1725
Fan Rotation	-	CCW
Motor RPM	-	1725
System SetPt	-	MAX SPEED AT DIAL
RL Voltage	-	[2]
RL Amperage	-	[2]
Total ESP	0.375"	0.41"
Fan Inlet SP	-	-0.41"
Fan Discharge SP	-	ATM

Motor Data		
	Design	Actual
Motor MFG	-	GENTEQ
Horsepower	0.125	1/5
Motor Rpm	-	1725
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	3.0
Service Factor	-	1.15

Completed By: Dylan Crisman on 04/28/2025

Notes:

- [1] Exhaust fan has significant noise/vibration when set at a lower speed to achieve design airflow.
- [2] Exhaust fan is lightswitch configuration, unable to safely obtain amps and volts.

Written By: Michael McDonnell on 05/20/2025

Unit Data - PHOTO LOG



04/28/2025



04/28/2025

National TAB

Project:04-28-25 WALGREENS #6937 AURORA, IL
(REACTIVE)

FAN - Exhaust



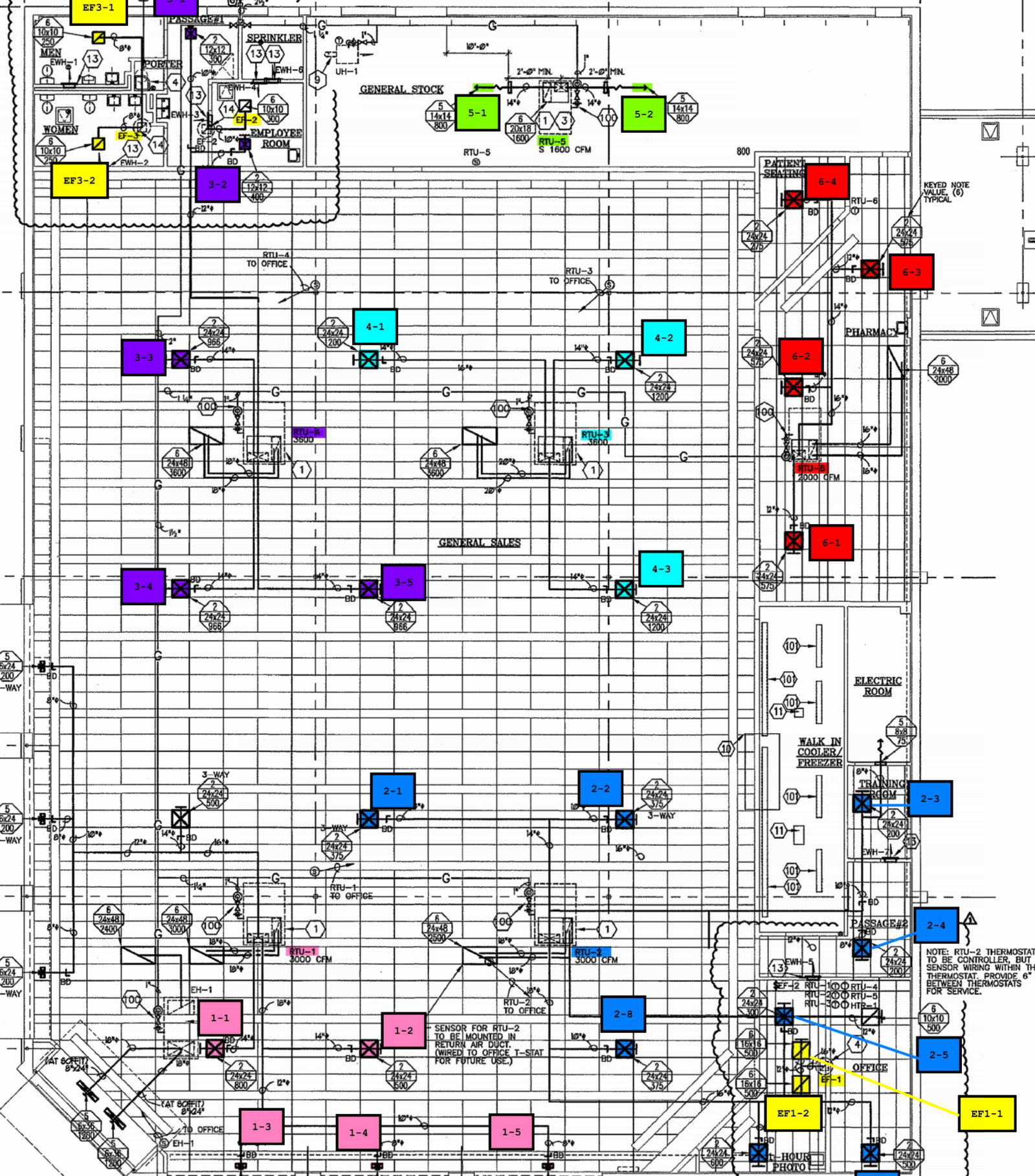
Diffuser Ret/Exh (GRD)

EF3/MENS + WOMENS RESTROOM

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	MENS RESTROOM	6	10X10"	250	1.0	261	261	261	104.4
EGRD2	WOMENS RESTROOM	6	10X10"	250	1.0	247	247	247	98.8
Total				500		508	508	508	101.6%

Completed By: Dylan Crisman on 04/28/2025

REFER TO CIVIL DWGS.
FOR CONTINUATION



KEYED NOTE
VALUE, (6)
TYPICAL

GENERAL SALES

ELECTRIC ROOM

WALK IN
COOLER/
FREEZER

TRAINING ROOM

PASSAGE#2

OFFICE

HOUR PHOTO

SENSOR FOR RTU-2
TO BE MOUNTED IN
RETURN AIR DUCT
(WIRED TO OFFICE T-STAT
FOR FUTURE USE.)

NOTE: RTU-2 THERMOSTAT IS
TO BE CONTROLLER, BUT LE
SENSOR WIRING WITHIN THE
THERMOSTAT. PROVIDE 6" SP
BETWEEN THERMOSTATS
FOR SERVICE.