

Report By:

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



Report: TAB Report
Function: Test, Adjust, & Balance
Date: 03/26/2025
Completed By: National TAB

PROJECT
07-14-25 CARMAX #7107 ORLANDO, FL

6375 S Semoran Blvd

ORLANDO, FL 32822

Client

Comfort Systems USA Strategic Accounts
2655 Fortune Circle West, Suite E

Indianapolis, IN 46241

National TAB

Project: 07-14-25 CARMAX #7107 ORLANDO, FL

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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.

Facility Identification and TAB Requirements

The mechanical equipment to be tested, adjusted, and balanced includes all RTU's and EF's on the Test and Balance Scope on the mechanical drawings.

Standard RTU's

Each of the RTU's were measured at their terminal devices utilizing a flow hood or via total traverse. The sum of these readings is equal to the total flow for that particular unit. The total flow of each RTU was then adjusted to within tolerance of the specified design. Outside airflow was measured by reading the inlet with a velocity grid times the area of the filter. Any equipment that fell outside of this tolerance is noted throughout the report.

Bypass RTU's

The Bypass RTU's were measured by first closing the bypass damper completely. By doing this, the outside airflow is equal to the total flow for the unit. The airflow was measured using a velgrid at the outdoor air intake and multiplying by the free area of the filters. Adjustments made to the motor sheave in order to get airflow within tolerance of design. The bypass damper is then adjusted so that bypass and OA flows are within tolerance.

ERV RTU's

The supply air portion of the ERV is 100% OA that is supplied to the space via two fans in series. The airflow was measured by reading the intake air filter with a velgrid and multiplying by the free area of the filter. Adjustments were made to the airflow by adjusting the motor sheaves to balance airflow within design tolerances. The exhaust system has one fan and was measured via either traverse or by reading the inlets with a velgrid and multiplying by the free area of the filter.

Exhaust Fans

The exhaust fans were measured by reading each air device with a flow hood or via a velgrid reading times the free area of the inlets. 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 of design. Any equipment that fell outside of this tolerance is noted throughout the report.

Issue List

- 4. RTU 12 & 14 - Dirty



07-14-25 CARMAX #7107 ORLANDO, FL

Project Issue Information

Issue Name : 4. RTU 12 & 14 - Dirty
Description : RTUs 12 & 14 are quickly building up debris from the body shop below. A layer of sanding dust has already coated the mixed air compartments and there is a light dusting present on the evaporator coils. The final filters had to be temporarily removed for balancing as they were loaded with dust.
Created By : National TAB **Assigned To :** National TAB - Will Turnbough
Status : Open
Priority : InfoOnly **Asset Tag :**
Originated Date : 03/26/2025 - Stephen Tassinaro - National TAB

Project Issue Response Details

- **07/14/2025 National TAB - Stephen Tassinaro**
 - Compartments continue to build up dust from body shop at a rapid rate. Filters removed from RTU-12 for rebalancing. Filters were re-installed once complete.



07/14/2025

- **06/10/2025 National TAB - Mark Johnson**
 - Compartments and filters remain dirty.



06/10/2025



06/10/2025

CheckList List

- RTU/EF CHECKLIST



07-14-25 CARMAX #7107 ORLANDO, FL

CheckList Information

Name : RTU/EF CHECKLIST **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 03/17/2025 - Nicole Seever - National TAB

CheckList Item Details

RTU's/AHU's

Economizers are assembled and functional?

Comment:

YES

Motors are all operating below the FLA rating?

Comment:

YES

Are belts tight?

Comment:

YES

If direct drive unit is the speed controller working.

Comment:

YES

Is gas piping installed and valves turned on?

Comment:

YES

Unit free of noticeable noise and vibration

Comment:

YES

Units are labeled and installed on proper curb

Comment:

YES

Unit ductwork properly installed / sealed on curb

Comment:

YES

Pulleys are properly aligned

Comment:

YES

Condensate lines and P-Traps installed correctly

Comment:

YES

Disconnect Switch Installed

Comment:

YES

Outside air dampers/Economizers installed and functioning

Comment:

YES

Additional Comments or recommendations:

Comment:

N/A

EF's

Is back draft damper installed?

Comment:

N/A

Are belts tight? (If direct drive put NA)

Comment:

N/A

Free of abnormal noise or vibration?

Comment:

YES

Disconnect switch installed and functional?

Comment:

YES

Documentation

If issues, have NTAB team and Comfort Systems USA been notified ?

Comment:

YES

If any issues, have Facilibuild issues been created explaining in detail?

Comment:

YES

Pictures

All Issues

Comment:

YES

Each Piece of equipment

Comment:

YES

National TAB

Project: 07-14-25 CARMAX #7107 ORLANDO, FL

System/Unit: AHU/RTU



Asset: RTU2

AREA:SHOWROOM REAR

| Unit Data | | |
|---------------------|-----------|--------------|
| | Design | Actual |
| MFG | LENNOX | LENNOX |
| Serial Num | - | 5624L03020 |
| Model Num | LGT240H4M | LGT240H4MS1G |
| Type | RTU | RTU |
| Configuration | VERTICAL | VERTICAL |
| Num OA Filters 1 | - | 3 |
| OA Filter Size 1 | - | 23X13 |
| Num Final Filter 1 | - | 6 |
| Final Filter Size 1 | - | 24X24X2 |

| Motor Data | | |
|----------------|--------|-------------------------|
| | Design | Actual |
| Motor MFG | - | NIDEC MOTOR CORPORATION |
| Frame | - | 184TZ |
| Horsepower | 5 | 5.0 |
| Motor Rpm | - | 1765 |
| Phase | 3 | 3 |
| Rated Voltage | 480 | 480 |
| Rated Amperage | - | 6.5 |

| Drive Data | |
|--------------------|---------------|
| | Actual |
| Motor Sheave Size | 6.75" |
| Motor Bore Size | 1 1/8" |
| Motor Sheave SetPt | 2.5 TURNS OUT |
| Fan Sheave Size | BK110 |
| Fan Sheave Bore | 1 3/16" |
| Belt CL Distance | 20 5/8" |
| Num of Belts | 1 |
| Belt Size | BX65 |
| Belt Alignment | GOOD |

| Test Data | | |
|------------------------|--------|------------|
| | Design | Actual |
| SF CFM | 6100 | 6051 |
| SF RPM | - | 677 |
| RA CFM | 4300 | 4412 |
| OA CFM | 1800 | 1639 |
| RL Voltage | - | 262V VFD |
| RL Amperage | - | 4.31A VFD |
| SF Rotation | - | CCW |
| SF System SetPt | - | 43.0Hz |
| RA Damper Position | - | 1.75" |
| Min OA Damper Position | - | 1.5" |
| Min OA Damper Type | - | ECONOMIZER |

| Performance Data | | |
|------------------|--------|--------|
| | Design | Actual |
| MA Plenum SP | - | -0.40" |
| Fan Suction SP | - | -0.60" |
| Fan Discharge SP | - | 0.22" |
| Total ESP | 0.8" | 0.62" |
| Fan Total SP | - | 0.82" |

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

Completed By: Stephen Tassinaro on 03/26/2025

Notes:

[1] Min outside air set to 5% damper position as per mechanical plans. Asset data shows setpoint for 1200PPM CO2.

Written By: Stephen Tassinaro on 03/26/2025

Unit Data - PHOTO LOG



03/18/2025



03/18/2025

National TAB

Project: 07-14-25 CARMAX #7107 ORLANDO, FL

System/Unit: AHU/RTU



Asset: RTU3

AREA:SHOWROOM RGTR

| Unit Data | | |
|---------------------|-----------|--------------|
| | Design | Actual |
| MFG | LENNOX | LENNOX |
| Serial Num | - | 5624L03021 |
| Model Num | LGT240H4M | LGT240H4MS1G |
| Type | RTU | RTU |
| Configuration | VERTICAL | VERTICAL |
| Num OA Filters 1 | - | 3 |
| OA Filter Size 1 | - | 23X13 |
| Num Final Filter 1 | - | 6 |
| Final Filter Size 1 | - | 24X24X2 |

| Motor Data | | |
|----------------|--------|-------------------------|
| | Design | Actual |
| Motor MFG | - | NIDEC MOTOR CORPORATION |
| Frame | - | 184TZ |
| Horsepower | 5 | 5.0 |
| Motor Rpm | - | 1765 |
| Phase | 3 | 3 |
| Rated Voltage | 480 | 460 |
| Rated Amperage | - | 6.5 |

| Drive Data | |
|--------------------|---------------|
| | Actual |
| Motor Sheave Size | 6.75" |
| Motor Bore Size | 1 1/8" |
| Motor Sheave SetPt | 2.5 TURNS OUT |
| Fan Sheave Size | BK110 |
| Fan Sheave Bore | 1 3/16" |
| Belt CL Distance | 20 5/8" |
| Num of Belts | 1 |
| Belt Size | BX65 |
| Belt Alignment | GOOD |

| Test Data | | |
|------------------------|--------|------------|
| | Design | Actual |
| SF CFM | 6100 | 6219 |
| SF RPM | - | 654 |
| RA CFM | 4300 | 4412 |
| OA CFM | 1800 | 1807 |
| RL Voltage | - | 250V VFD |
| RL Amperage | - | 4.2A VFD |
| SF Rotation | - | CCW |
| SF System SetPt | - | 42.0Hz |
| RA Damper Position | - | 50% |
| Min OA Damper Position | - | 50% |
| Min OA Damper Type | - | ECONOMIZER |

| Performance Data | | |
|------------------|--------|--------|
| | Design | Actual |
| MA Plenum SP | - | -0.41" |
| Fan Suction SP | - | -0.61" |
| Fan Discharge SP | - | 0.16" |
| Total ESP | - | 0.57" |
| Fan Total SP | - | 0.77" |

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

Completed By: Stephen Tassinaro on 03/26/2025

Notes:

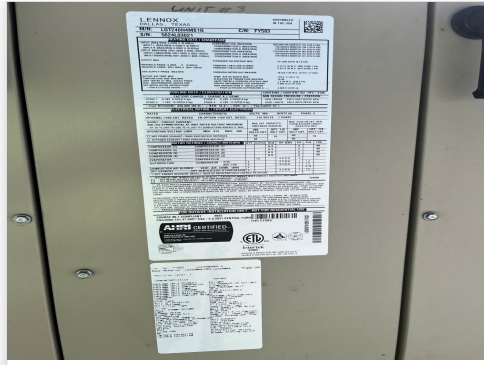
[1] Min outside air set to 5% damper position as per mechanical plans. Asset data shows setpoint for 1200PPM CO2.

Written By: Stephen Tassinaro on 03/26/2025

Unit Data - PHOTO LOG



03/18/2025



03/18/2025

National TAB

Project: 07-14-25 CARMAX #7107 ORLANDO, FL

System/Unit: AHU/RTU



Asset: RTU4

AREA:SHOWROOM RGTF

| Unit Data | | |
|---------------------|-----------|--------------|
| | Design | Actual |
| MFG | LENNOX | LENNOX |
| Serial Num | - | 5624L03022 |
| Model Num | LGT240H4M | LGT240H4MS1G |
| Type | RTU | RTU |
| Configuration | VERTICAL | VERTICAL |
| Num OA Filters 1 | - | 3 |
| OA Filter Size 1 | - | 23X13 |
| Num Final Filter 1 | - | 6 |
| Final Filter Size 1 | - | 24X24X2 |

| Motor Data | | |
|----------------|--------|-------------------------|
| | Design | Actual |
| Motor MFG | - | NIDEC MOTOR CORPORATION |
| Frame | - | 184TZ |
| Horsepower | 5 | 5.0 |
| Motor Rpm | - | 1765 |
| Phase | 3 | 3 |
| Rated Voltage | 480 | 460 |
| Rated Amperage | - | 6.5 |

| Drive Data | |
|--------------------|------------------|
| | Actual |
| Motor Sheave Size | 6-1/2" |
| Motor Bore Size | 1-1/8" |
| Motor Sheave SetPt | FACTORY SETPOINT |
| Fan Sheave Size | BK110H |
| Fan Sheave Bore | 1-1/8" |
| Belt CL Distance | 20-3/4" |
| Num of Belts | 1 |
| Belt Size | BX65 |
| Belt Alignment | GOOD |

| Test Data | | |
|------------------------|--------|------------|
| | Design | Actual |
| SF CFM | 6100 | 5990 |
| SF RPM | - | 941 |
| RA CFM | 4300 | 4214 |
| OA CFM | 1800 | 1776 |
| RL Voltage | - | 490V VFD |
| RL Amperage | - | 6.2A VFD |
| SF Rotation | - | CORRECT |
| SF System SetPt | - | 60Hz |
| RA Damper Position | - | 59% |
| Min OA Damper Position | - | 41% |
| Min OA Damper Type | - | ECONOMIZER |

| Performance Data | | |
|------------------|--------|--------|
| | Design | Actual |
| MA Plenum SP | - | -0.88" |
| Fan Suction SP | - | -1.19" |
| Fan Discharge SP | - | 0.39" |
| Total ESP | 0.8" | 1.27" |
| Fan Total SP | - | 1.58" |

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

Completed By: Mark Johnson on 06/10/2025

Notes:

[2] Min outside air set to 5% damper position as per mechanical plans. Asset data shows setpoint for 1200PPM CO2.

Written By: Mark Johnson on 06/10/2025

Unit Data - PHOTO LOG



03/18/2025



03/18/2025

National TAB

Project: 07-14-25 CARMAX #7107 ORLANDO, FL

System/Unit: AHU/RTU



Asset: RTU5

AREA: BREAK/TRN/BUS

| Unit Data | | |
|---------------------|-----------|--------------|
| | Design | Actual |
| MFG | LENNOX | LENNOX |
| Serial Num | - | 5624L04752 |
| Model Num | LGH360H4M | LGH360H4MS3G |
| Type | RTU | RTU |
| Configuration | VERTICAL | VERTICAL |
| Num OA Filters 1 | - | 5 |
| OA Filter Size 1 | - | 22X14.25 |
| Num Final Filter 1 | - | 12 |
| Final Filter Size 1 | - | 20X20X2 |

| Motor Data | | |
|----------------|--------|-------------------------|
| | Design | Actual |
| Motor MFG | - | NIDEC MOTOR CORPORATION |
| Frame | - | 184TZ |
| Horsepower | 5 | 5.0 |
| Motor Rpm | - | 1765 |
| Phase | 3 | 3 |
| Rated Voltage | 480 | 480 |
| Rated Amperage | - | 6.5 |

| Drive Data | |
|--------------------|---------------|
| | Actual |
| Motor Sheave Size | 1VP56BB |
| Motor Bore Size | 1 1/8" |
| Motor Sheave SetPt | 2.5 TURNS OUT |
| Fan Sheave Size | 12.0" |
| Fan Sheave Bore | 1 3/16" |
| Belt CL Distance | 23.5" |
| Num of Belts | 1 |
| Belt Size | BX71 |
| Belt Alignment | GOOD |

| Test Data | | |
|------------------------|--------|-------------|
| | Design | Actual |
| SF CFM | 8800 | 8862 |
| SF RPM | - | 677 |
| RA CFM | 6300 | 6406 |
| OA CFM | 2500 | 2456 |
| RL Voltage | - | 475/474/474 |
| RL Amperage | - | 5.5A VFD |
| SF Rotation | - | CCW |
| SF System SetPt | - | 53.5Hz |
| RA Damper Position | - | 75% |
| Min OA Damper Position | - | 25% |
| Min OA Damper Type | - | ECONOMIZER |

| Performance Data | | |
|------------------|--------|--------|
| | Design | Actual |
| MA Plenum SP | - | -0.40" |
| Fan Suction SP | - | -0.66" |
| Fan Discharge SP | - | 0.29" |
| Total ESP | 0.8" | 0.69" |
| Fan Total SP | - | 0.95" |

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

Completed By: Mark Johnson on 06/10/2025

Unit Data - PHOTO LOG



03/18/2025



03/18/2025

National TAB

Project: 07-14-25 CARMAX #7107 ORLANDO, FL

System/Unit: AHU/RTU



Asset: RTU6

AREA:DATA/PBX

| Unit Data | | |
|---------------------|-----------|--------------|
| | Design | Actual |
| MFG | LENNOX | LENNOX |
| Serial Num | - | 5624L05423 |
| Model Num | LCT036H4E | LCT036H4EN1G |
| Type | RTU | RTU |
| Configuration | VERTICAL | VERTICAL |
| Num OA Filters 1 | - | 1 |
| OA Filter Size 1 | - | 29X14 |
| Num Final Filter 1 | - | 4 |
| Final Filter Size 1 | - | 20X20X2 |

| Motor Data | | |
|----------------|--------|--------|
| | Design | Actual |
| Horsepower | 0.5 | 0.5 |
| Phase | 3 | 1 |
| Rated Voltage | 480 | 460 |
| Rated Amperage | - | 2.2 |

| Drive Data | |
|--------------------|--------|
| | Actual |
| Motor Sheave SetPt | DD |

| Test Data | | |
|------------------------|--------|------------|
| | Design | Actual |
| SF CFM | 960 | 966 |
| SF RPM | - | 43% |
| RA CFM | 960 | 966 |
| OA CFM | 0 | 0 |
| RL Voltage | - | 470 |
| RL Amperage | - | 1.1 |
| SF Rotation | - | CORRECT |
| SF System SetPt | - | 43% |
| RA Damper Position | - | 100% |
| Min OA Damper Position | - | 0% |
| Min OA Damper Type | - | ECONOMIZER |

| Performance Data | | |
|------------------|--------|--------|
| | Design | Actual |
| MA Plenum SP | - | -0.25" |
| Fan Suction SP | - | -0.34" |
| Fan Discharge SP | - | 0.24" |
| Total ESP | 0.7" | 0.49" |
| Fan Total SP | - | 0.58" |

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

Completed By: Stephen Tassinaro on 03/26/2025

Unit Data - PHOTO LOG



03/18/2025



03/18/2025

National TAB

Project: 07-14-25 CARMAX #7107 ORLANDO, FL

System/Unit: AHU/RTU



Asset: RTU7

AREA:SERVICE/DRIVE

| Unit Data | | |
|---------------------|-----------|--------------|
| | Design | Actual |
| MFG | LENNOX | LENNOX |
| Serial Num | - | 5624K05962 |
| Model Num | LGT092H4E | LGT092H4EM2G |
| Type | RTU | RTU |
| Configuration | VERTICAL | VERTICAL |
| Num OA Filters 1 | - | 2 |
| OA Filter Size 1 | - | 14.25X23 |
| Num Final Filter 1 | - | 4 |
| Final Filter Size 1 | - | 20X25X2 |

| Motor Data | | |
|----------------|--------|--------|
| | Design | Actual |
| Horsepower | 2 | 3.8 |
| Phase | 3 | 3 |
| Rated Voltage | 480 | 460 |
| Rated Amperage | - | 4.7 |

| Drive Data | |
|--------------------|--------|
| | Actual |
| Motor Sheave SetPt | DD |

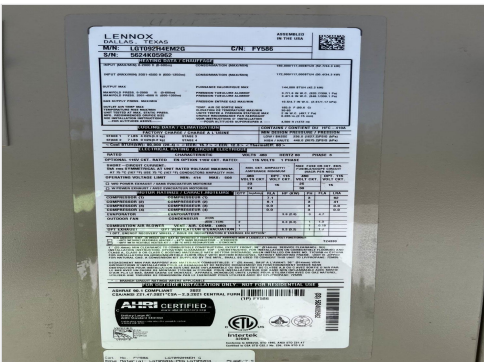
| Test Data | | |
|------------------------|--------|------------|
| | Design | Actual |
| SF CFM | 2400 | 2405 |
| SF RPM | - | 809 |
| RA CFM | 2256 | 2257 |
| OA CFM | 144 | 148 |
| RL Voltage | - | 470 |
| RL Amperage | - | 0.8 |
| SF Rotation | - | CORRECT |
| SF System SetPt | - | 45% |
| RA Damper Position | - | 86% |
| Min OA Damper Position | - | 14% |
| Min OA Damper Type | - | ECONOMIZER |

| Performance Data | | |
|------------------|--------|--------|
| | Design | Actual |
| MA Plenum SP | - | -0.25" |
| Fan Suction SP | - | -0.38" |
| Fan Discharge SP | - | 0.27" |
| Total ESP | 0.6" | 0.52" |
| Fan Total SP | - | 0.65" |

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

Completed By: Stephen Tassinaro on 03/26/2025

Unit Data - PHOTO LOG



03/27/2025



03/27/2025

National TAB

Project: 07-14-25 CARMAX #7107 ORLANDO, FL

System/Unit: AHU/RTU



Asset: RTU8

AREA:PAINT/FQC

| Unit Data | | |
|---------------------|-----------|--------------|
| | Design | Actual |
| MFG | LENNOX | LENNOX |
| Serial Num | - | 5624L04245 |
| Model Num | LGT092H4E | LGT092H4EM2G |
| Type | RTU | RTU |
| Configuration | VERTICAL | VERTICAL |
| Num OA Filters 1 | - | 2 |
| OA Filter Size 1 | - | 14X23 |
| Num Final Filter 1 | - | 4 |
| Final Filter Size 1 | - | 20X25X2 |

| Motor Data | | |
|----------------|--------|--------|
| | Design | Actual |
| Horsepower | 2 | 3.8 |
| Phase | 3 | 3 |
| Rated Voltage | 480 | 460 |
| Rated Amperage | - | 4.7 |

| Drive Data | |
|--------------------|--------|
| | Actual |
| Motor Sheave SetPt | DD |

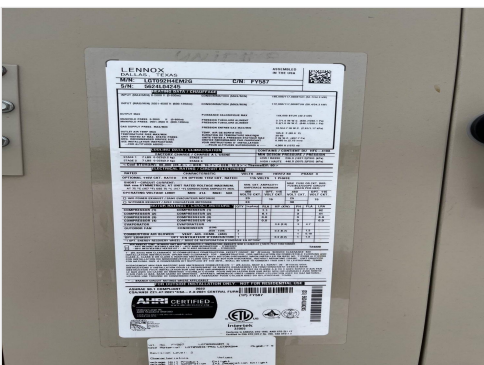
| Test Data | | |
|------------------------|--------|-------------|
| | Design | Actual |
| SF CFM | 2400 | 2404 |
| SF RPM | - | 55% |
| RA CFM | 2256 | 2267 |
| OA CFM | 144 | 137 |
| RL Voltage | - | 469/470/471 |
| RL Amperage | - | 1.1/1.1/1.0 |
| SF Rotation | - | CORRECT |
| SF System SetPt | - | 55% |
| RA Damper Position | - | 88% |
| Min OA Damper Position | - | 12% |
| Min OA Damper Type | - | ECONOMIZER |

| Performance Data | | |
|------------------|--------|--------|
| | Design | Actual |
| MA Plenum SP | - | -0.39" |
| Fan Suction SP | - | -0.54" |
| Fan Discharge SP | - | 0.53" |
| Total ESP | - | 0.89" |
| Fan Total SP | - | 1.07" |

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

Completed By: Stephen Tassinaro on 03/26/2025

Unit Data - PHOTO LOG



03/27/2025



03/27/2025

National TAB

Project: 07-14-25 CARMAX #7107 ORLANDO, FL

System/Unit: AHU/RTU



Asset: RTU9

AREA: TOUCH UP

| Unit Data | | |
|---------------------|-----------|--------------|
| | Design | Actual |
| MFG | LENNOX | LENNOX |
| Serial Num | - | 5624L03071 |
| Model Num | LCT210H4B | LCT210H4MN1G |
| Type | RTU | RTU |
| Configuration | VERTICAL | VERTICAL |
| Num OA Filters 1 | - | 4 |
| OA Filter Size 1 | - | 30.75X16.75 |
| Num Final Filter 1 | - | 6 |
| Final Filter Size 1 | - | 24X24X2 |

| Motor Data | | |
|----------------|--------|-----------|
| | Design | Actual |
| Motor MFG | - | INTERLINK |
| Frame | - | 56HZ |
| Horsepower | 3 | 3 |
| Motor Rpm | - | 1750 |
| Phase | 3 | 3 |
| Rated Voltage | 480 | 460 |
| Rated Amperage | - | 4.0 |

| Drive Data | |
|--------------------|---------------|
| | Actual |
| Motor Sheave Size | 3.75" |
| Motor Bore Size | 7/8" |
| Motor Sheave SetPt | 5.5 TURNS OUT |
| Fan Sheave Size | BK72 |
| Fan Sheave Bore | 1 3/16" |
| Belt CL Distance | 20 15/16" |
| Num of Belts | 1 |
| Belt Size | BX55 |
| Belt Alignment | GOOD |

| Test Data | | |
|------------------------|--------|-----------|
| | Design | Actual |
| SF CFM | 5600 | 6010 |
| SF RPM | - | 449 |
| RA CFM | 3600 | 3907 |
| OA CFM | 2000 | 2103 |
| RL Voltage | - | 262V VFD |
| RL Amperage | - | 2.64A VFD |
| SF Rotation | - | CCW |
| SF System SetPt | - | 38.0Hz |
| RA Damper Position | - | FULL OPEN |
| Min OA Damper Position | - | 35% |
| Min OA Damper Type | - | OBD |

| Performance Data | | |
|------------------|--------|--------|
| | Design | Actual |
| MA Plenum SP | - | -0.18" |
| Fan Suction SP | - | -0.38" |
| Fan Discharge SP | - | 0.03" |
| Total ESP | 0.8" | 0.21" |
| Fan Total SP | - | 0.41" |

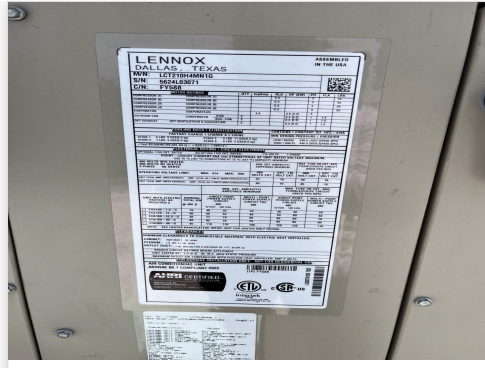
| General | |
|----------------------------|--------|
| | Actual |
| Fan Rotation Correct | YES |
| Unit Filters Clean | YES |
| Condensate Drain Installed | YES |

Completed By: Stephen Tassinaro on 03/26/2025

Unit Data - PHOTO LOG



03/27/2025



03/27/2025

National TAB

Project: 07-14-25 CARMAX #7107 ORLANDO, FL

System/Unit: AHU/RTU



Asset: RTU10

AREA:DETAIL SOUTH

| Unit Data | | |
|---------------------|-----------|--------------|
| | Design | Actual |
| MFG | LENNOX | LENNOX |
| Serial Num | - | 5624L03060 |
| Model Num | LCT210H4B | LCT210H4MN1G |
| Type | RTU | RTU |
| Configuration | VERTICAL | VERTICAL |
| Num OA Filters 1 | - | 4 |
| OA Filter Size 1 | - | 30.75X16.75 |
| Num Final Filter 1 | - | 6 |
| Final Filter Size 1 | - | 24X24X2 |

| Motor Data | | |
|----------------|--------|-----------|
| | Design | Actual |
| Motor MFG | - | INTERLINK |
| Frame | - | 56HZ |
| Horsepower | 3 | 3 |
| Motor Rpm | - | 1750 |
| Phase | 3 | 3 |
| Rated Voltage | 480 | 460 |
| Rated Amperage | - | 4.0 |

| Drive Data | |
|--------------------|---------------|
| | Actual |
| Motor Sheave Size | 3.75" |
| Motor Bore Size | 7/8" |
| Motor Sheave SetPt | 5.5 TUNR SOUT |
| Fan Sheave Size | BK72 |
| Fan Sheave Bore | 1 3/16" |
| Belt CL Distance | 20 15/16" |
| Num of Belts | 1 |
| Belt Size | BX55 |
| Belt Alignment | GOOD |

| Test Data | | |
|------------------------|--------|-----------|
| | Design | Actual |
| SF CFM | 5600 | 5867 |
| SF RPM | - | 442 |
| RA CFM | 3600 | 3849 |
| OA CFM | 2000 | 2018 |
| RL Voltage | - | 249V VFD |
| RL Amperage | - | 2.80A VFD |
| SF Rotation | - | CCW |
| SF System SetPt | - | 36.0Hz |
| RA Damper Position | - | FULL OPEN |
| Min OA Damper Position | - | 40% |
| Min OA Damper Type | - | OBD |

| Performance Data | | |
|------------------|--------|--------|
| | Design | Actual |
| MA Plenum SP | - | -0.15" |
| Fan Suction SP | - | -0.41" |
| Fan Discharge SP | - | 0.05" |
| Total ESP | 0.8" | 0.20" |
| Fan Total SP | - | 0.46" |

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

Completed By: Stephen Tassinaro on 03/26/2025

Unit Data - PHOTO LOG



03/19/2025



03/19/2025

National TAB

Project: 07-14-25 CARMAX #7107 ORLANDO, FL

System/Unit: AHU/RTU



Asset: RTU11

AREA:DETAIL NORTH

| Unit Data | | |
|---------------------|-----------|--------------|
| | Design | Actual |
| MFG | LENNOX | LENNOX |
| Serial Num | - | 5624L03059 |
| Model Num | LCT210H4B | LCT210H4MN1G |
| Type | RTU | RTU |
| Configuration | VERTICAL | VERTICAL |
| Num OA Filters 1 | - | 2 |
| OA Filter Size 1 | - | 31X16.75 |
| Num Final Filter 1 | - | 6 |
| Final Filter Size 1 | - | 24X24X2 |

| Motor Data | | |
|----------------|--------|-----------|
| | Design | Actual |
| Motor MFG | - | INTERLINK |
| Frame | - | 56HZ |
| Horsepower | 3 | 3 |
| Motor Rpm | - | 1750 |
| Phase | 3 | 3 |
| Rated Voltage | 480 | 460 |
| Rated Amperage | - | 4.0 |

| Drive Data | |
|--------------------|---------------|
| | Actual |
| Motor Sheave Size | 3.75" |
| Motor Bore Size | 7/8" |
| Motor Sheave SetPt | 5.5 TURNS OUT |
| Fan Sheave Size | BK72 |
| Fan Sheave Bore | 1 3/16" |
| Belt CL Distance | 21.0" |
| Num of Belts | 1 |
| Belt Size | BX55 |
| Belt Alignment | GOOD |

| Test Data | | |
|------------------------|--------|-----------|
| | Design | Actual |
| SF CFM | 5600 | 5754 |
| SF RPM | - | 494 |
| RA CFM | 3600 | 3765 |
| OA CFM | 2000 | 1989 |
| RL Voltage | - | 283V VFD |
| RL Amperage | - | 2.82A VFD |
| SF Rotation | - | CCW |
| SF System SetPt | - | 41.0Hz |
| RA Damper Position | - | FULL OPEN |
| Min OA Damper Position | - | 40% |
| Min OA Damper Type | - | OBD |

| Performance Data | | |
|------------------|--------|--------|
| | Design | Actual |
| MA Plenum SP | - | -0.22" |
| Fan Suction SP | - | -0.52" |
| Fan Discharge SP | - | 0.02" |
| Total ESP | 0.8" | 0.24" |
| Fan Total SP | - | 0.54" |

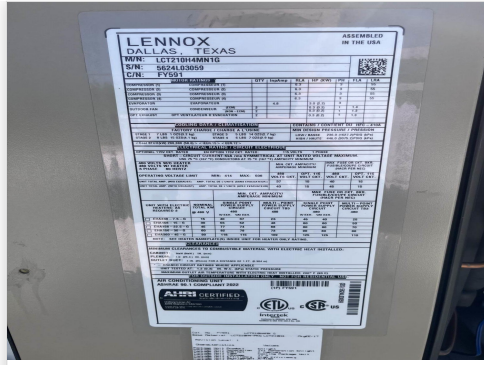
| General | |
|----------------------------|--------|
| | Actual |
| Fan Rotation Correct | YES |
| Unit Filters Clean | YES |
| Condensate Drain Installed | YES |

Completed By: Stephen Tassinaro on 03/26/2025

Unit Data - PHOTO LOG



03/19/2025



03/19/2025

National TAB

Project: 07-14-25 CARMAX #7107 ORLANDO, FL

System/Unit: AHU/RTU



Asset: RTU12

AREA:BODY SHOP EAST

| Unit Data | | |
|---------------------|-----------|--------------|
| | Design | Actual |
| MFG | LENNOX | LENNOX |
| Serial Num | - | 5624L05506 |
| Model Num | LGT180H4M | LGT180H4MS1G |
| Type | RTU | RTU |
| Configuration | VERTICAL | VERTICAL |
| Num OA Filters 1 | - | 3 |
| OA Filter Size 1 | - | 23X13 |
| Num Final Filter 1 | - | 6 |
| Final Filter Size 1 | - | 24X24X2 |

| Motor Data | | |
|----------------|--------|-----------|
| | Design | Actual |
| Motor MFG | - | INTERLINK |
| Frame | - | 56HZ |
| Horsepower | 2 | 3.0 |
| Motor Rpm | - | 1750 |
| Phase | 3 | 3 |
| Rated Voltage | 480 | 460 |
| Rated Amperage | - | 4.0 |

| Drive Data | |
|--------------------|---------------|
| | Actual |
| Motor Sheave Size | 3.75" |
| Motor Bore Size | 7/8" |
| Motor Sheave SetPt | 2.5 TURNS OUT |
| Fan Sheave Size | BK72 |
| Fan Sheave Bore | 1 3/16" |
| Belt CL Distance | 20.5" |
| Num of Belts | 1 |
| Belt Size | BX55 |
| Belt Alignment | GOOD |

| Test Data | | |
|------------------------|--------|------------|
| | Design | Actual |
| SF CFM | 4800 | 4998 |
| SF RPM | - | 627 |
| RA CFM | - | 3746 |
| OA CFM | 1300 | 1252 |
| RL Voltage | - | 296V VFD |
| RL Amperage | - | 3.1A VFD |
| SF Rotation | - | CCW |
| SF System SetPt | - | 43Hz |
| RA Damper Position | - | 50% |
| Min OA Damper Position | - | 50% |
| Min OA Damper Type | - | ECONOMIZER |

| Performance Data | | |
|------------------|--------|--------|
| | Design | Actual |
| MA Plenum SP | - | -0.33" |
| Fan Suction SP | - | -0.46" |
| Fan Discharge SP | - | 0.20" |
| Total ESP | 0.75" | 0.53" |
| Fan Total SP | - | 0.66" |

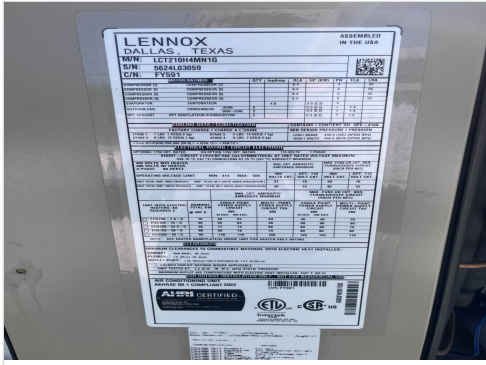
| General | |
|----------------------------|--------|
| | Actual |
| Fan Rotation Correct | YES |
| Unit Filters Clean | NO |
| Condensate Drain Installed | YES |

Completed By: Stephen Tassinaro on 07/15/2025

Notes:
[1] Final filters removed for testing.

Written By: Stephen Tassinaro on 07/14/2025

Unit Data - PHOTO LOG



03/27/2025



03/27/2025

National TAB

Project: 07-14-25 CARMAX #7107 ORLANDO, FL

System/Unit: AHU/RTU



Asset: RTU13

AREA: AUCTION BAY

| Unit Data | | |
|---------------------|-----------|--------------|
| | Design | Actual |
| MFG | LENNOX | LENNOX |
| Serial Num | - | 5624L04782 |
| Model Num | LGT120H4M | LGT120H4ES2G |
| Type | RTU | RTU |
| Configuration | VERTICAL | VERTICAL |
| Num OA Filters 1 | - | 2 |
| OA Filter Size 1 | - | 14X23 |
| Num Final Filter 1 | - | 4 |
| Final Filter Size 1 | - | 20X25X2 |

| Motor Data | | |
|----------------|--------|----------|
| | Design | Actual |
| Motor MFG | - | EBMPABST |
| Horsepower | 2 | 3060W |
| Phase | 3 | 3 |
| Rated Voltage | 480 | 380-480 |
| Rated Amperage | - | 4.2 |

| Drive Data | |
|--------------------|--------|
| | Actual |
| Motor Sheave SetPt | DD |

| Test Data | | |
|------------------------|--------|-------------|
| | Design | Actual |
| SF CFM | 3200 | 3211 |
| SF RPM | - | 55% |
| RA CFM | 2750 | 2759 |
| OA CFM | 450 | 452 |
| RL Voltage | - | 468/469/469 |
| RL Amperage | - | 1.1/1.1/1.1 |
| SF Rotation | - | CORRECT |
| SF System SetPt | - | 55% |
| RA Damper Position | - | 71% |
| Min OA Damper Position | - | 29% |
| Min OA Damper Type | - | ECONOMIZER |

| Performance Data | | |
|------------------|--------|--------|
| | Design | Actual |
| MA Plenum SP | - | -0.43" |
| Fan Suction SP | - | -0.60" |
| Fan Discharge SP | - | 0.22" |
| Total ESP | 0.75" | 0.65" |
| Fan Total SP | - | 0.82" |

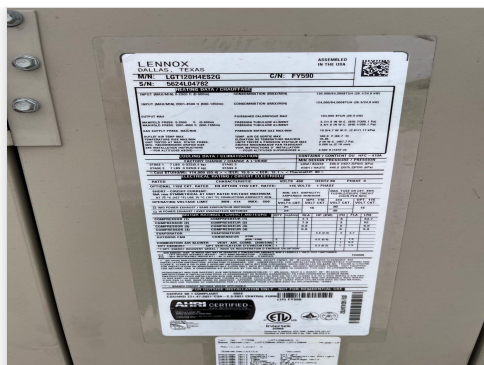
| General | |
|----------------------------|--------|
| | Actual |
| Fan Rotation Correct | YES |
| Unit Filters Clean | YES |
| Condensate Drain Installed | YES |

Completed By: Stephen Tassinaro on 03/26/2025

Unit Data - PHOTO LOG



03/27/2025



03/27/2025

National TAB

Project: 07-14-25 CARMAX #7107 ORLANDO, FL

System/Unit: AHU/RTU



Asset: RTU14

AREA:BODY SHOP WEST

| Unit Data | | |
|---------------------|-----------|--------------|
| | Design | Actual |
| MFG | LENNOX | LENNOX |
| Serial Num | - | 5624L05505 |
| Model Num | LGH180H4B | LGH180H4MS1G |
| Type | RTU | RTU |
| Configuration | VERTICAL | VERTICAL |
| Num OA Filters 1 | - | 3 |
| OA Filter Size 1 | - | 23X13 |
| Num Final Filter 1 | - | 6 |
| Final Filter Size 1 | - | 24X24 |

| Motor Data | | |
|----------------|--------|-----------|
| | Design | Actual |
| Motor MFG | - | INTERLINK |
| Frame | - | 56HZ |
| Horsepower | 2 | 3.0 |
| Motor Rpm | - | 1750 |
| Phase | 3 | 3 |
| Rated Voltage | 480 | 460 |
| Rated Amperage | - | 4.0 |

| Drive Data | |
|--------------------|---------------|
| | Actual |
| Motor Sheave Size | 3.75" |
| Motor Bore Size | 7/8" |
| Motor Sheave SetPt | 2.5 TURNS OUT |
| Fan Sheave Size | BK72 |
| Fan Sheave Bore | 1 3/16" |
| Belt CL Distance | 20.5" |
| Num of Belts | 1 |
| Belt Size | BX55 |
| Belt Alignment | GOOD |

| Test Data | | |
|------------------------|--------|------------|
| | Design | Actual |
| SF CFM | 4800 | 4432 |
| SF RPM | - | 891 |
| RA CFM | 3500 | 3118 |
| OA CFM | 1300 | 1314 |
| RL Voltage | - | 414 |
| RL Amperage | - | 4.0 |
| SF Rotation | - | CCW |
| SF System SetPt | - | 60Hz |
| RA Damper Position | - | 53% |
| Min OA Damper Position | - | 47% |
| Min OA Damper Type | - | ECONOMIZER |

| Performance Data | | |
|------------------|--------|--------|
| | Design | Actual |
| MA Plenum SP | - | -0.39" |
| Fan Suction SP | - | -0.52" |
| Fan Discharge SP | - | 0.79" |
| Total ESP | - | 1.18" |
| Fan Total SP | - | 1.31" |

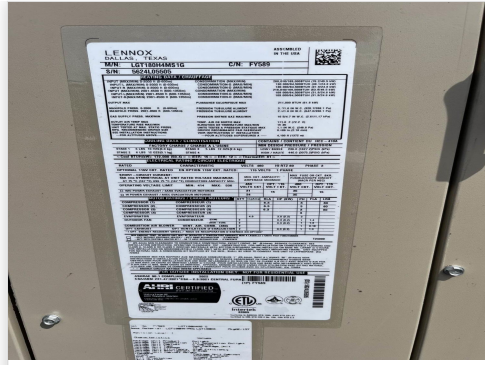
| General | |
|----------------------------|--------|
| | Actual |
| Fan Rotation Correct | YES |
| Unit Filters Clean | NO |
| Condensate Drain Installed | YES |

Completed By: Stephen Tassinaro on 03/26/2025

Unit Data - PHOTO LOG



03/27/2025



03/27/2025

National TAB

Project: 07-14-25 CARMAX #7107 ORLANDO, FL

System/Unit: FAN - Exhaust



Asset: EF1

AREA:DETAIL

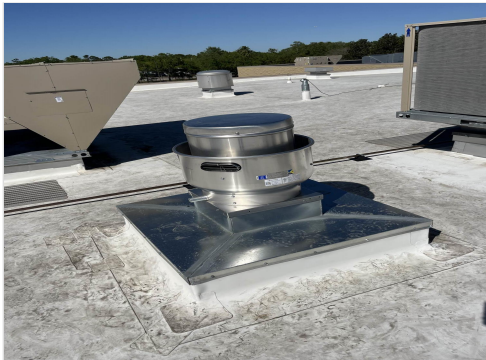
| Unit Data | | |
|---------------|-----------|--------------------|
| | Design | Actual |
| MFG | GREENHECK | GREENHECK |
| Model Num | CUE 121 | CUE-120-A-5-1-19-X |
| Serial Num | - | 26006468 24L |
| Type | UPBLAST | CENTRIFUGAL |
| Configuration | VERTICAL | UPBLAST |

| Test Data | | |
|------------------|--------|------------------|
| | Design | Actual |
| CFM | 1500 | 1581 |
| Fan RPM | - | DD |
| Fan Rotation | - | CORRECT |
| Motor RPM | - | DD |
| System SetPt | - | SPEED CONTROLLER |
| RL Voltage | - | 121 |
| RL Amperage | - | 5.4 |
| Total ESP | 0.25" | 0.05" |
| Fan Inlet SP | - | -0.05" |
| Fan Discharge SP | - | ATM |

| Motor Data | | |
|------------------|--------|-----------|
| | Design | Actual |
| Motor MFG | - | US MOTORS |
| Frame | - | N/L |
| Horsepower | .5 | 0.5 |
| Motor Rpm | - | 1650 |
| Phase | 1 | 1 |
| Voltage (rated) | 120 | 115/230 |
| Amperage (rated) | - | 5.4/2.7 |
| Service Factor | - | 1.0 |

Completed By: Stephen Tassinaro on 03/26/2025

Unit Data - PHOTO LOG



03/26/2025



03/26/2025

National TAB

Project: 07-14-25 CARMAX #7107 ORLANDO, FL

System/Unit: FAN - Exhaust



Asset: EF2

AREA:DETAIL

| Unit Data | | |
|---------------|-----------|--------------------|
| | Design | Actual |
| MFG | GREENHECK | GREENHECK |
| Model Num | CUE 121 | CUE-120-A-5-1-19-X |
| Serial Num | - | 26006530 24L |
| Type | UPBLAST | CENTRIFUGAL |
| Configuration | VERTICAL | UPBLAST |

| Test Data | | |
|------------------|--------|------------------|
| | Design | Actual |
| CFM | 1500 | 1470 |
| Fan RPM | - | DD |
| Fan Rotation | - | CW |
| Motor RPM | - | DD |
| System SetPt | - | SPEED CONTROLLER |
| RL Amperage | - | 5.4 |
| Total ESP | 0.25" | 0.02" |
| Fan Inlet SP | - | -0.02" |
| Fan Discharge SP | - | ATM |

| Motor Data | | |
|------------------|--------|-----------|
| | Design | Actual |
| Motor MFG | - | US MOTORS |
| Frame | - | N/L |
| Horsepower | .5 | 0.5 |
| Motor Rpm | - | 1650 |
| Phase | 1 | 1 |
| Voltage (rated) | 120 | 115/230 |
| Amperage (rated) | - | 5.4/2.7 |
| Service Factor | - | 1.0 |

Completed By: Stephen Tassinaro on 03/26/2025

Unit Data - PHOTO LOG



03/19/2025



03/19/2025

National TAB

Project: 07-14-25 CARMAX #7107 ORLANDO, FL

System/Unit: FAN - Exhaust



Asset: EF3

AREA: TOUCH UP

| Unit Data | | |
|---------------|-----------|--------------------|
| | Design | Actual |
| MFG | GREENHECK | GREENHECK |
| Model Num | CUE 121 | CUE-120-A-5-1-19-X |
| Serial Num | - | 26006571 24L |
| Type | UPBLAST | CENTRIFUGAL |
| Configuration | VERTICAL | UPBLAST |

| Test Data | | |
|------------------|--------|------------------|
| | Design | Actual |
| CFM | 1800 | 1733 |
| Fan RPM | - | DD |
| Fan Rotation | - | CORRECT |
| Motor RPM | - | DD |
| System SetPt | - | SPEED CONTROLLER |
| RL Voltage | - | 120 |
| RL Amperage | - | 5.1 |
| Total ESP | 0.25" | 0.06" |
| Fan Inlet SP | - | -0.06" |
| Fan Discharge SP | - | ATM |

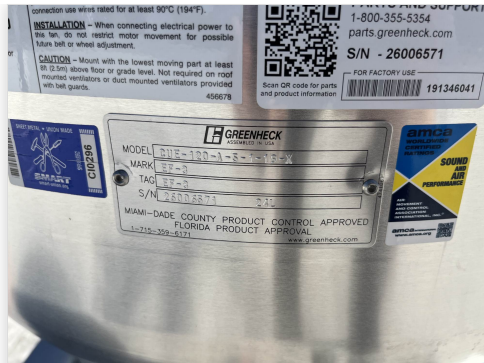
| Motor Data | | |
|------------------|--------|-----------|
| | Design | Actual |
| Motor MFG | - | US MOTORS |
| Frame | - | N/L |
| Horsepower | .5 | 0.5 |
| Motor Rpm | - | 1650 |
| Phase | 1 | 1 |
| Voltage (rated) | 120 | 115/230 |
| Amperage (rated) | - | 5.4/2.7 |
| Service Factor | - | 1.0 |

Completed By: Stephen Tassinaro on 03/26/2025

Unit Data - PHOTO LOG



03/26/2025



03/26/2025

National TAB

Project: 07-14-25 CARMAX #7107 ORLANDO, FL

System/Unit: FAN - Exhaust



Asset: EF4

AREA:BODY SHOP

| Unit Data | | |
|---------------|-----------|--------------------|
| | Design | Actual |
| MFG | GREENHECK | GREENHECK |
| Model Num | CUE 161 | CUE-160-B-5-1-26-X |
| Serial Num | - | 26006586 24L |
| Type | UPBLAST | CENTRIFUGAL |
| Configuration | VERTICAL | UPBLAST |

| Test Data | | |
|------------------|--------|------------------|
| | Design | Actual |
| CFM | 2400 | 2471 |
| Fan RPM | - | DD |
| Fan Rotation | - | CORRECT |
| Motor RPM | - | DD |
| System SetPt | - | SPEED CONTROLLER |
| RL Voltage | - | 121 |
| RL Amperage | - | 6.0 |
| Total ESP | 0.25" | 0.15" |
| Fan Inlet SP | - | -0.15" |
| Fan Discharge SP | - | ATM |

| Motor Data | | |
|------------------|--------|--------|
| | Design | Actual |
| Motor MFG | - | N/L |
| Frame | - | 56YZ |
| Horsepower | .5 | 0.5 |
| Motor Rpm | - | 1140 |
| Phase | 1 | 1 |
| Voltage (rated) | 120 | 115 |
| Amperage (rated) | - | 6.2 |
| Service Factor | - | 1.0 |

Completed By: Stephen Tassinaro on 03/26/2025

Unit Data - PHOTO LOG



03/26/2025



03/26/2025

AIR BALANCE SCHEDULE

| UNIT | AREA SERVED | HVAC SUPPLY | | HVAC RETURN | | HVAC OUTDOOR | | OA % | | HOOD MAKE-UP | | HOOD EXHAUST | | GENERAL EXH. | |
|---------------|----------------|-------------|--------|-------------|--------|--------------|--------|--------|--------|--------------|--------|--------------|--------|--------------|--------|
| | | DESIGN | ACTUAL | DESIGN | ACTUAL | DESIGN | ACTUAL | DESIGN | ACTUAL | DESIGN | ACTUAL | DESIGN | ACTUAL | DESIGN | ACTUAL |
| RTU-2 | SHOWROOM REAR | 6100 | 6051 | 4300 | 4412 | 1800 | 1639 | 29.5% | 27.1% | | | | | | |
| RTU-3 | SHOWROOM RGTR | 6100 | 6219 | 4300 | 4412 | 1800 | 1807 | 29.5% | 29.1% | | | | | | |
| RTU-4 | SHOWROOM RGTF | 6100 | 5990 | 4300 | 4214 | 1800 | 1776 | 29.5% | 29.6% | | | | | | |
| RTU-5 | BREAK/TRN/BUS | 8800 | 8862 | 6300 | 6406 | 2500 | 2456 | 28.4% | 27.7% | | | | | | |
| RTU-6 | DATA/PBX | 960 | 966 | 960 | 966 | 0 | 0 | 0.0% | 0.0% | | | | | | |
| RTU-7 | SERVICE DRIVE | 2400 | 2405 | 2256 | 2257 | 144 | 148 | 6.0% | 6.2% | | | | | | |
| RTU-8 | PAINT/FQC | 2400 | 2404 | 2256 | 2267 | 144 | 137 | 6.0% | 5.7% | | | | | | |
| RTU-9 | TOUCH UP | 5600 | 6010 | 3600 | 3907 | 2000 | 2103 | 35.7% | 35.0% | | | | | | |
| RTU-10 | DETAIL SOUTH | 5600 | 5867 | 3600 | 3849 | 2000 | 2018 | 35.7% | 34.4% | | | | | | |
| RTU-11 | DETAIL NORTH | 5600 | 5754 | 3600 | 3765 | 2000 | 1989 | 35.7% | 34.6% | | | | | | |
| RTU-12 | BODY SHOP EAST | 4800 | 4998 | 3500 | 3746 | 1300 | 1252 | 27.1% | 25.1% | | | | | | |
| RTU-13 | AUCTION BAY | 3200 | 3211 | 2750 | 2759 | 450 | 452 | 14.1% | 14.1% | | | | | | |
| RTU-14 | BODY SHOP WEST | 4800 | 4432 | 3500 | 3118 | 1300 | 1314 | 27.1% | 29.6% | | | | | | |
| EF-1 | DETAIL | | | | | | | | | | | | | 1500 | 1581 |
| EF-2 | DETAIL | | | | | | | | | | | | | 1500 | 1470 |
| EF-3 | TOUCH UP | | | | | | | | | | | | | 1800 | 1733 |
| EF-4 | BODY SHOP | | | | | | | | | | | | | 2400 | 2471 |
| TOTALS | | 62460 | 63169 | 45222 | 46078 | 17238 | 17091 | | | 0 | 0 | 0 | 0 | 7200 | 7255 |

NET BUILDING AIRFLOW CALCULATION

| TOTALS | DESIGN | ACTUAL |
|--------------------|--------|--------|
| TOTAL OA | 17238 | 17091 |
| TOTAL EXHAUST | 7200 | 7255 |
| NET AIRFLOW | N/A | N/A |

| DOOR TESTED | BUILDING PRESSURE MEASUREMENTS (IN. H2O) |
|----------------|--|
| FRONT | N/A |
| SIDE | N/A |
| REAR | N/A |
| AVERAGE | N/A |

FINAL CHECKS

- ACTUAL NET AIRFLOW COINCIDES WITH DESIGN: ✓

- MEASURED PRESSURES COINCIDES WITH ACTUAL NET AIRFLOW: ✓

- PRESSURE FALLS WITHIN IMC TOLERANCE OF +/-0.02" W.C.

NOTES:

RTUs 2 thru 5 the shown outside air is the DCV setpoint. Minimum damper position for these units is 5% per mechanical plans.