Report By:

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

Report: TAB REPORT

Function: Test, Adjust, & Balance

Date: 10/30/2023

PROJECT

10-23-23 CARMAX #7190 - AUSTIN, TX

4400 SOUTH INTERSTATE HIGHWAY 35

AUSTIN, TX 78745

Client

Comfort Systems USA

9450 W Wingfoot Rd

Houston, TX 77041

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 completed. 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 to so that bypass and OA flows are within tolerance.

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 tolernace of design. Any equipment that fell outside of this tolerance is noted throughout the report.

National TAB

Project: 10-23-23 CARMAX #7190 - AUSTIN, TX

System/Unit: AHU/RTU

Asset: RTU1 AREA:SHOWROOM

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5622E03512
Model Num	LGH240H4M	LGH240H4MS4G
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	3
OA Filter Size 1	-	24x14x1
Num Final Filter 1	-	6
Final Filter Size 1	-	20x24x2

Motor Data		
	Design	**Actual**
Motor MFG	-	NIDEC
Frame	-	213TZ
Horsepower	5.0	7.50
Motor Rpm	-	1765
Phase	3	3
Rated Voltage	480	460
Rated Amperage	-	10.6

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	1VP65B
Motor Bore Size	-	1 3/8"
Motor Sheave SetPt	-	2 TURNS OUT
Fan Sheave Size	-	10.5"
Fan Sheave Bore	-	1 3/16"
Belt CL Distance	-	21.5"
Num of Belts	-	1
Belt Size	-	BX66
Belt Alignment	-	VERIFIED

Test Data		
	Design	**Actual**
SF CFM	8000	7906
SF RPM	-	850
RA CFM	7220	7097
OA CFM	780	809
RL Voltage	-	490/486/491
RL Amperage	-	5.0/6.3/5.7
SF Rotation	-	CCW
RA Damper Position	-	80% OPEN
Min OA Damper Position	-	20% OPEN
Min OA Damper Type	-	OPOSED BLADE
OA Enthalpy Setpt	-	55 DEGREES

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.78
Fan Suction SP	-	-1.05
Fan Discharge SP	-	0.73
Total ESP	0.6"	1.51
Fan Total SP	-	1.78

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

Completed By: Bayley Morvant on 10/25/2023

National TAB

Project: 10-23-23 CARMAX #7190 - AUSTIN, TX

System/Unit: AHU/RTU

Asset: RTU2 AREA:SHOWROOM

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5622E03091
Model Num	LGH156H4M	LGH156H4MS5G
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	3
OA Filter Size 1	-	24x14x1
Num Final Filter 1	-	6
Final Filter Size 1	-	24x24x2

Motor Data		
	Design	**Actual**
Motor MFG	-	INTERLINK
Frame	-	56HZ
Horsepower	3.0	3.00
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	480	460
Rated Amperage	-	4.0

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	1VL40
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	0 TURNS OUT
Fan Sheave Size	-	BK72
Fan Sheave Bore	-	1 3/16"
Belt CL Distance	-	21.5"
Num of Belts	-	1
Belt Size	-	BX55
Belt Alignment	-	VERIFIED

Test Data		
	Design	**Actual**
SF CFM	5500	5376
SF RPM	-	621
RA CFM	4980	4859
OA CFM	520	517
RL Voltage	-	489/485/489
RL Amperage	-	2.8/2.9/2.8
SF Rotation	-	CCW
RA Damper Position	-	80% OPEN
Min OA Damper Position	-	20% OPEN
Min OA Damper Type	-	OPOSED BLADE
OA Enthalpy Setpt	-	55 DEGREES

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.43
Fan Suction SP	-	-0.56
Fan Discharge SP	-	0.32
Total ESP	0.8"	0.75
Fan Total SP	-	0.88

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

Completed By: Bayley Morvant on 10/24/2023

National TAB

Project: 10-23-23 CARMAX #7190 - AUSTIN, TX

System/Unit: AHU/RTU

Asset: RTU3 AREA:CUSTOMER

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5622G09659
Model Num	LGH048H4E	LGH048H4ES5G
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	30x14x1
Num Final Filter 1	-	4
Final Filter Size 1	-	16x20x2

Motor Data		
	Design	**Actual**
Motor MFG	-	GENTEQ
Frame	-	NA
Horsepower	0.75	0.75
Motor Rpm	-	NA
Phase	3	1
Rated Voltage	480	120
Rated Amperage	-	3.1

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	DIRECT DRIVE
Motor Bore Size	-	DIRECT DRIVE
Motor Sheave SetPt	-	DIRECT DRIVE
Fan Sheave Size	-	DIRECT DRIVE
Fan Sheave Bore	-	DIRECT DRIVE
Belt CL Distance	-	DIRECT DRIVE
Num of Belts	-	DIRECT DRIVE
Belt Size	-	DIRECT DRIVE
Belt Alignment	-	DIRECT DRIVE

Test Data		
	Design	**Actual**
SF CFM	1280	1281
SF RPM	-	DIRECT DRIVE
RA CFM	1080	974
OA CFM	300	307
RL Voltage	-	121
RL Amperage	-	1.8
SF Rotation	-	CCW
RA Damper Position	-	70% Open
Min OA Damper Position	-	30% OPEN
Min OA Damper Type	-	OPOSED BLADE
OA Enthalpy Setpt	-	55 DEGREES

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.09
Fan Suction SP	-	-0.21
Fan Discharge SP	-	0.40
Total ESP	0.6"	0.49
Fan Total SP	-	0.61

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

Completed By: Bayley Morvant on 10/24/2023

National TAB

Project: 10-23-23 CARMAX #7190 - AUSTIN, TX

System/Unit: AHU/RTU

Asset: RTU4 AREA:BUSINESS

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5622G09705
Model Num	LGH060H4E	LGH060H4ES5G
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	30x14x1
Num Final Filter 1	-	4
Final Filter Size 1	-	20x20x2

Motor Data		
	Design	**Actual**
Motor MFG	-	GENTEQ
Frame	-	NA
Horsepower	1.0	1.00
Motor Rpm	-	NA
Phase	3	1
Rated Voltage	480	115
Rated Amperage	-	3.7

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	DIRECT DRIVE
Motor Bore Size	-	DIRECT DRIVE
Motor Sheave SetPt	-	DIRECT DRIVE
Fan Sheave Size	-	DIRECT DRIVE
Fan Sheave Bore	-	DIRECT DRIVE
Belt CL Distance	-	DIRECT DRIVE
Num of Belts	-	DIRECT DRIVE
Belt Size	-	DIRECT DRIVE
Belt Alignment	-	DIRECT DRIVE

Test Data		
	Design	**Actual**
SF CFM	1300	1392
SF RPM	-	DIRECT DRIVE
RA CFM	1000	1104
OA CFM	300	288
RL Voltage	-	123
RL Amperage	-	1.7
SF Rotation	-	CCW
RA Damper Position	-	70% OPEN
Min OA Damper Position	-	30% OPEN
Min OA Damper Type	-	OPOSED BLADE
OA Enthalpy Setpt	-	55 DEGREES

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.12
Fan Suction SP	-	-0.24
Fan Discharge SP	-	0.20
Total ESP	-	0.32
Fan Total SP	-	0.44

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

Completed By: Bayley Morvant on 10/25/2023

National TAB

Project: 10-23-23 CARMAX #7190 - AUSTIN, TX

System/Unit: AHU/RTU

Asset: RTU5 AREA:BUYERS

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5622G09652
Model Num	LGH048H4E	LGH048H4ES5G
Type	-	RTU
Configuration	-	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	30x14x1
Num Final Filter 1	-	4
Final Filter Size 1	-	16x20x2

Motor Data		
	Design	**Actual**
Motor MFG	-	GENTEQ
Frame	-	NA
Horsepower	0.75	0.75
Motor Rpm	-	NA
Phase	3	1
Rated Voltage	480	115
Rated Amperage	-	3.1

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	DIRECT DRIVE
Motor Bore Size	-	DIRECT DRIVE
Motor Sheave SetPt	-	DIRECT DRIVE
Fan Sheave Size	-	DIRECT DRIVE
Fan Sheave Bore	-	DIRECT DRIVE
Belt CL Distance	-	DIRECT DRIVE
Num of Belts	-	DIRECT DRIVE
Belt Size	-	DIRECT DRIVE
Belt Alignment	-	DIRECT DRIVE

Test Data		
	Design	**Actual**
SF CFM	1300	1327
SF RPM	-	DIRECT DRIVE
RA CFM	1100	1123
OA CFM	200	204
RL Voltage	-	119
RL Amperage	-	1.8
SF Rotation	-	CCW
RA Damper Position	-	75% OPEN
Min OA Damper Position	-	25% OPEN
Min OA Damper Type	-	OPOSED BLADE
OA Enthalpy Setpt	-	55 DEGREES

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.10
Fan Suction SP	-	-0.25
Fan Discharge SP	-	0.24
Total ESP	0.6"	0.34
Fan Total SP	-	0.49

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

Completed By: Bayley Morvant on 10/25/2023

National TAB

Project: 10-23-23 CARMAX #7190 - AUSTIN, TX

System/Unit: AHU/RTU

Asset: RTU6 AREA:BREAKROOM

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5622G09709
Model Num	LGH060H4E	LGH060H4ES5G
Type	RTU	RTU
Configuration	VERTICAL	VERTICA.
Num OA Filters 1	-	1
OA Filter Size 1	-	30x14x1
Num Final Filter 1	-	4
Final Filter Size 1	-	20x20x2

Motor Data		
	Design	**Actual**
Motor MFG	-	GENTEQ
Frame	-	NA
Horsepower	1.0	1.0
Motor Rpm	-	NA
Phase	3	1
Rated Voltage	480	115
Rated Amperage	-	3.7

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	DIRECT DRIVE
Motor Bore Size	-	DIRECT DRIVE
Motor Sheave SetPt	-	DIRECT DRIVE
Fan Sheave Size	-	DIRECT DRIVE
Fan Sheave Bore	-	DIRECT DRIVE
Belt CL Distance	-	DIRECT DRIVE
Num of Belts	-	DIRECT DRIVE
Belt Size	-	DIRECT DRIVE
Belt Alignment	-	DIRECT DRIVE

Test Data		
	Design	**Actual**
SF CFM	1600	1618
SF RPM	-	DIRECT DRIVE
RA CFM	1350	1376
OA CFM	250	242
RL Voltage	-	122
RL Amperage	-	3.0
SF Rotation	-	CCW
RA Damper Position	-	80% OPEN
Min OA Damper Position	-	20% OPEN
Min OA Damper Type	-	OPOSED BLADE
OA Enthalpy Setpt	-	55 DEGREES

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.93
Fan Suction SP	-	-1.07
Fan Discharge SP	-	0.23
Total ESP	.6"	1.16
Fan Total SP	-	1.30

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

Completed By: Bayley Morvant on 10/25/2023

National TAB

Project: 10-23-23 CARMAX #7190 - AUSTIN, TX

System/Unit: AHU/RTU

Asset: RTU7 AREA:PBX

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5622H07180
Model Num	LCH036H4M	LCH036H4EN4G
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num Final Filter 1	-	4
Final Filter Size 1	-	16x20x2

Test Data		
	Design	**Actual**
SF CFM	975	999
SF RPM	-	DIRECT DRIVE
RA CFM	975	999
OA CFM	0	0
RL Voltage	-	121
RL Amperage	-	1.2
SF Rotation	-	CCW

Motor Data		
	Design	**Actual**
Motor MFG	-	GENTEQ
Frame	-	NA
Horsepower	0.5	0.5
Motor Rpm	-	NA
Phase	3	1
Rated Voltage	480	120
Rated Amperage	-	2.2

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.16
Fan Suction SP	-	-0.26
Fan Discharge SP	-	0.19
Total ESP	0.8"	0.35
Fan Total SP	-	0.45

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	DIRECT DRIVE
Motor Bore Size	-	DIRECT DRIVE
Motor Sheave SetPt	-	DIRECT DRIVE
Fan Sheave Size	-	DIRECT DRIVE
Fan Sheave Bore	-	DIRECT DRIVE
Belt CL Distance	-	DIRECT DRIVE
Num of Belts	-	DIRECT DRIVE
Belt Size	-	DIRECT DRIVE
Belt Alignment	-	DIRECT DRIVE

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

Completed By: Bayley Morvant on 10/25/2023

National TAB

Project: 10-23-23 CARMAX #7190 - AUSTIN, TX

System/Unit: AHU/RTU

Asset: RTU8 AREA:SERVICE WRITER

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5622G09701
Model Num	LGH060H4E	LGH060H4ES5G
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	30X14X1
Num Final Filter 1	-	4
Final Filter Size 1	-	20x20x2

Motor Data		
	Design	**Actual**
Motor MFG	-	GENTEQ
Frame	-	NA
Horsepower	1.0	1.00
Motor Rpm	-	NA
Phase	3	1
Rated Voltage	480	120
Rated Amperage	-	3.7

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	DIRECT DRIVE
Motor Bore Size	-	DIRECT DRIVE
Motor Sheave SetPt	-	DIRECT DRIVE
Fan Sheave Size	-	DIRECT DRIVE
Fan Sheave Bore	-	DIRECT DRIVE
Belt CL Distance	-	DIRECT DRIVE
Num of Belts	-	DIRECT DRIVE
Belt Size	-	DIRECT DRIVE
Belt Alignment	-	DIRECT DRIVE

Test Data		
	Design	**Actual**
SF CFM	1800	1860
SF RPM	-	DIRECT DRIVE
RA CFM	1600	1656
OA CFM	200	204
RL Voltage	-	122
RL Amperage	-	3.5
SF Rotation	-	CCW
RA Damper Position	-	80% OPEN
Min OA Damper Position	-	20% OPEN
Min OA Damper Type	-	OPOSED BLADE
OA Enthalpy Setpt	-	55 DEGREES

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.38
Fan Suction SP	-	-0.52
Fan Discharge SP	-	0.36
Total ESP	0.6"	0.74
Fan Total SP	-	0.88

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

Completed By: Bayley Morvant on 10/24/2023

National TAB

Project: 10-23-23 CARMAX #7190 - AUSTIN, TX

System/Unit: AHU/RTU

Asset: RTU9 AREA:SERVICE AREA

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5622E03191
Model Num	LGH240H4B	LGH240H4MH4G
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	31X17X1
Num Final Filter 1	-	6
Final Filter Size 1	-	24x24x2

Motor Data		
	Design	**Actual**
Motor MFG	-	NIDEC
Frame	-	184TZ
Horsepower	5.0	5.00
Motor Rpm	-	1765
Phase	3	3
Rated Voltage	480	460
Rated Amperage	-	6.50

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	1VP65B
Motor Bore Size	-	1.125"
Motor Sheave SetPt	-	3 TURNS OUT
Fan Sheave Size	-	10.5"
Fan Sheave Bore	-	1.25"
Belt CL Distance	-	21"
Num of Belts	-	1
Belt Size	-	BX65
Belt Alignment	-	VERIFIED

Test Data		
	Design	**Actual**
SF CFM	5600	5629
SF RPM	-	714
RA CFM	1600	1713
OA CFM	4000	3916
RL Voltage	-	482/486/487
RL Amperage	-	4.6/4.5/4.5
SF Rotation	-	CCW
RA Damper Position	-	50% OPEN
Min OA Damper Position	-	100% OPEN
Min OA Damper Type	-	OPOSED BLADE
OA Enthalpy Setpt	-	NA

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.24
Fan Suction SP	-	-0.58
Fan Discharge SP	-	0.49
Total ESP	0.8"	0.73
Fan Total SP	-	1.07

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

Completed By: Bayley Morvant on 10/25/2023

National TAB

Project:10-23-23 CARMAX #7190 - AUSTIN, TX

AHU/RTU

Diffuser Supply (GRD)

RTU9/SERVICE AREA

Asset								
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**FINAL CFM**	**% to design**
RTU9-SGRD1	SERVICE AREA	24/12	26"x14"	710	1.61	475	702	98.9
RTU9-SGRD2	SERVICE AREA	24/12	26"x14"	710	1.61	655	689	97.0
RTU9-SGRD3	SERVICE AREA	24/12	26"x14"	710	1.61	681	696	98.0
RTU9-SGRD4	SERVICE AREA	24/12	26"x14"	710	1.61	696	717	101.0
RTU9-SGRD5	SERVICE AREA	24/12	26"x14"	710	1.61	663	703	99.0
RTU9-SGRD6	TOILET	24/12	8"	50	NA	17	35	70.0
RTU9-SGRD7	STORAGE	24/12	12"x12"	200	1.61	395	187	93.5
RTU9-SGRD8	STORAGE	24/12	12"x12"	200	1.61	353	187	93.5
Total				4000		3935	3916	97.9%

Asset	Notes	Date	Written By
RTU9-SGRD6	UNABLE TO PUSH MORE AIR TO DIFFUSER WITHOUT BEING A DETRIMENT TO OVERAL L UNIT PERFORMANCE.	12/07/2023	Will Turnbough

National TAB

Project: 10-23-23 CARMAX #7190 - AUSTIN, TX

System/Unit: AHU/RTU

Asset: RTU10 AREA:SERVICE AREA

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5622E03167
Model Num	LGH240H4B	LGH240H4MH4G
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	31x17x1
Num Final Filter 1	-	6
Final Filter Size 1	-	24x24x2

Motor Data		
	Design	**Actual**
Motor MFG	-	NIDEC
Frame	-	184TZ
Horsepower	5.0	5.00
Motor Rpm	-	1765
Phase	3	3
Rated Voltage	480	460
Rated Amperage	-	6.50

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	1VP65B
Motor Bore Size	-	1.125"
Motor Sheave SetPt	-	3 TURNS OUT
Fan Sheave Size	-	10.5"
Fan Sheave Bore	-	1.25"
Belt CL Distance	-	21
Num of Belts	-	1
Belt Size	-	BX65
Belt Alignment	-	VERIFIED

Test Data		
	Design	**Actual**
SF CFM	5600	5541
SF RPM	-	739
RA CFM	1600	1457
OA CFM	4000	4084
RL Voltage	-	482/487/487
RL Amperage	-	4.9/4.8/4.8
SF Rotation	-	CCW
RA Damper Position	-	50% OPEN
Min OA Damper Position	-	100% OPEN
Min OA Damper Type	-	OPOSED BLADE
OA Enthalpy Setpt	-	NA

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.21
Fan Suction SP	-	-0.62
Fan Discharge SP	-	0.53
Total ESP	0.8"	0.74
Fan Total SP	-	1.15

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

Completed By: Bayley Morvant on 10/25/2023

National TAB

Project:10-23-23 CARMAX #7190 - AUSTIN, TX

AHU/RTU

Diffuser Supply (GRD)

RTU10/SERVICE AREA

Asset								
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**FINAL CFM**	**% to design**
RTU10-SGRD1	SERVICE AREA	24/12	26"x14"	665	1.95	998	669	100.6
RTU10-SGRD2	SERVICE AREA	24/12	26"x14"	665	1.95	681	706	106.2
RTU10-SGRD3	SERVICE AREA	24/12	26"x14"	665	1.95	574	687	103.3
RTU10-SGRD4	SERVICE AREA	24/12	26"x14"	665	1.95	412	679	102.1
RTU10-SGRD5	SERVICE AREA	24/12	26"x14"	665	1.95	406	675	101.5
RTU10-SGRD6	SERVICE AREA	24/12	26"x14"	665	1.95	999	668	100.5
Total				3990		4070	4084	102.36%

National TAB

Project: 10-23-23 CARMAX #7190 - AUSTIN, TX

System/Unit: FAN - Exhaust

Asset: EF11 AREA:SALES TOILETS

Unit Data		
	Design	**Actual**
MFG	GREENHECK	GREENHECK
Model Num	CUE-121-A	CUE-120-A-5-1-19-X
Serial Num	-	23256134
Type	CENTRIFUGAL	CENTRIFUGAL
Configuration	UPBLAST	UPBLAST

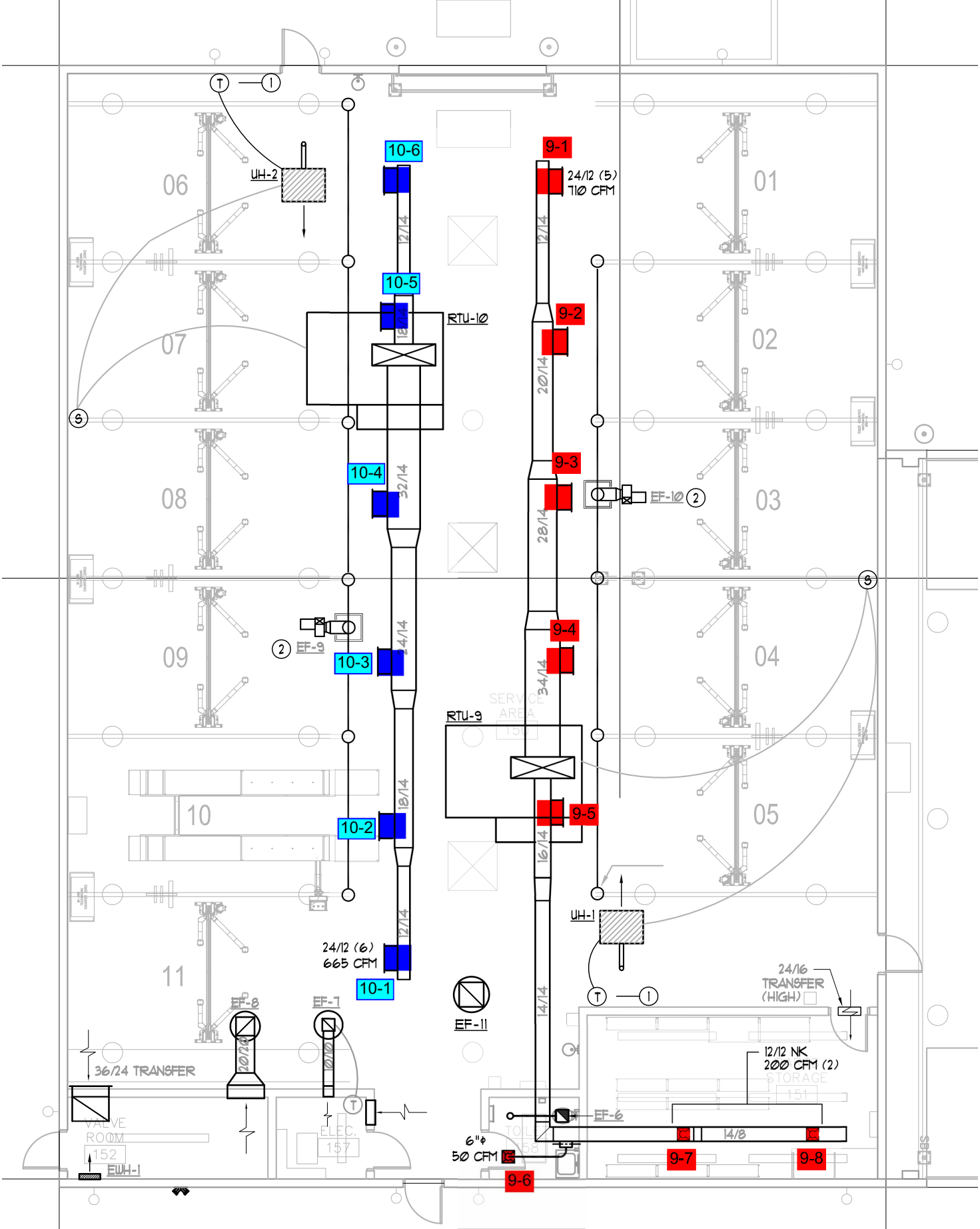
Motor Data		
	Design	**Actual**
Motor MFG	-	US MOTORS
Frame	-	NL
Horsepower	0.50	0.50
Motor Rpm	-	1650
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	5.4
Service Factor	-	1.0

Test Data		
	Design	**Actual**
CFM	1500	1477
Fan RPM	-	DIRECT DRIVE
Fan Rotation	-	CW
Motor RPM	-	DIRECT DRIVE
System SetPt	-	MINIMUM
RL Voltage	-	121
RL Amperage	-	3.1
Total ESP	0.375"	0.23"
Fan Inlet SP	-	-0.23"
Fan Discharge SP	-	ATM

Completed By: Wesley John on 11/09/2023

Notes:
FAN SPEED CONTROLLER NOT OPERATIONAL.
(RETURN TRIP COMPLETED 11/9. FAN IS NOW BALANCED.)

Written By: Wesley John on 11/09/2023



NOTE: SHOWN FOR TEST AND BALANCE PURPOSES ONLY.
SEE TEST AND BALANCE SCOPE ON M3.0