

**Report By:**

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



**Report: TAB**

**Function: Test, Adjust, & Balance**

**Date: 04/30/2025**

**Completed By: National TAB**

# PROJECT

## Clover Fine Arts Addition (Clover, SC)

1625 State HWY 55 E

Clover, SC 29710

### Client

Action Mechanical Inc.

PO Box 7325

CHARLOTTE, NC 28241

# National TAB

Project: Clover Fine Arts Addition (Clover, SC)

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## Issue List

- EF1/2 no speed controller
- Veritable Flow on RTU-6



### Clover Fine Arts Addition (Clover, SC)

#### Project Issue Information

**Issue Name :** EF1/2 no speed controller  
**Description :** Spoke to the GC, electrical and mechanical EF-1/2 doesn't have a speed controller installed. Controls can only turn the motor on and off. EF 1 is running 30% HIGH and EF 2 is running 20% High  
**Created By :** National TAB                      **Assigned To :** National TAB - Stephan Gabbert  
**Status :** Open  
**Priority :** Medium                                      **Asset Tag :** EF1  
**Originated Date :** 04/29/2025 - Jearod Ferrette - National TAB



### Clover Fine Arts Addition (Clover, SC)

#### Project Issue Information

**Issue Name :** Veritable Flow on RTU-6  
**Description :** RTU-6 Unit has mechanical damper and thermostat control and back office. If the thermostat is turned to 70 degrees or above the damper, shuts off and pushes all air to the first three diffusers. this may cause a lite whistling in the front office.  
**Created By :** National TAB                      **Assigned To :** National TAB - Stephan Gabbert  
**Status :** Open  
**Priority :** InfoOnly                                      **Asset Tag :** RTU6  
**Originated Date :** 04/30/2025 - Jearod Ferrette - National TAB

#### Project Issue File Details



04/30/2025



04/30/2025

# National TAB

Project: Clover Fine Arts Addition (Clover, SC)

## System/Unit: FAN - Exhaust



Asset: EF1

AREA:ROOF

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	G-095-D	G-095-D
Serial Num	-	202PL46374
Type	RESTROOM	RESTROOM
Configuration	VERTICLE	VERTICLE

Test Data		
	Design	Actual
CFM	400	526
Fan RPM	-	DD
Fan Rotation	-	CCW
Motor RPM	-	DD
System SetPt	-	DD/HIGH
RL Voltage	-	115
RL Amperage	-	1.7
Total ESP	-	0.28
Fan Discharge SP	-	-0.28

Motor Data		
	Design	Actual
Motor MFG	-	US MOTOR
Frame	-	487
Horsepower	0.125	0.125
Motor Rpm	1600	1600
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	1.7
Service Factor	-	1

Completed By: Jearod Ferrette on 04/30/2025

Notes:

SPEED CONTROLLER NOT INSTALLED. PER CONTROLS, THEY CAN ONLY TURN ON AND OFF THE MOTOR, UNIT IS RUNNING 30% HIGH

Written By: Jearod Ferrette on 04/30/2025

### Unit Data - PHOTO LOG



04/29/2025

# National TAB

Project: Clover Fine Arts Addition (Clover, SC)

## FAN - Exhaust



**Diffuser Ret/Exh (GRD)**

**EF1/ROOF**

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EF1-EGRD1	TOILET	UPBLAST	1	100	1	128		121	121.0
EF1-EGRD2	TOILET	UPBLAST	1	100	1	130		128	128.0
EF1-EGRD3	TOILET	UPBLAST	1	100	1	40		117	117.0
EF1-EGRD4	TOILET	UPBLAST	1	100	1	175		160	160.0
Total				400		473	0	526	131.5%

Completed By: Jearod Ferrette on 04/30/2025

# National TAB

Project: Clover Fine Arts Addition (Clover, SC)

System/Unit: FAN - Exhaust



Asset: EF2

AREA:

Unit Data		
	Design	Actual
<b>MFG</b>	GREENHECK	GREENHECK
<b>Model Num</b>	SP-A390	SP-A390

Test Data		
	Design	Actual
<b>CFM</b>	300	366

Motor Data		
	Design	Actual
<b>Motor MFG</b>	-	NA
<b>Horsepower</b>	-	NA
<b>Motor Rpm</b>	-	NA
<b>Phase</b>	-	NA
<b>Voltage (rated)</b>	-	NA
<b>Amperage (rated)</b>	-	NA

Completed By: Jearod Ferrette on 04/30/2025

Notes:  
NO SPEED CONTROLLER INSTALLED, UNIT IS RUNNING 20% HIGH

Written By: Jearod Ferrette on 04/30/2025

## Unit Data - PHOTO LOG



04/29/2025

# National TAB

Project: Clover Fine Arts Addition (Clover, SC)

## System/Unit: Heat Pump



Asset: 3-IHP1

AREA:CLASSROOM

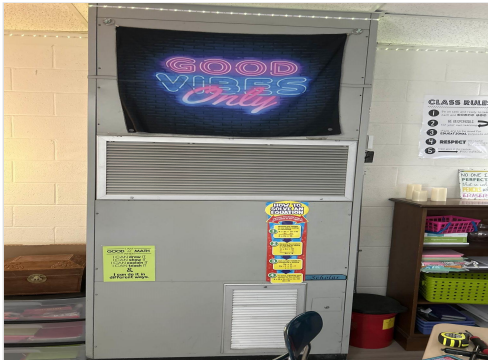
Unit Data		
	Design	Actual
Unit MFG	NA	NA
Model Num	NA	NA
Type	WALL	WALL
Configuration	WALL MOUNTED	WALL MOUNTED
Num Filters Size 1	-	1
Filter Size 1	-	16.25X32.5

Test Data		
	Design	Actual
SA CFM	1200	1197
RA CFM	-	1043
OA CFM	-	154

Motor Data		
	Design	Actual
Motor MFG	-	GREEN WHEEL
Frame	-	NA
Horsepower	-	0.01
Motor Rpm	-	NA
Phase	-	1
Voltage	-	208
Amperage	-	0.2

Completed By: Jearod Ferrette on 04/30/2025

### Unit Data - PHOTO LOG



04/30/2025

# National TAB

Project: Clover Fine Arts Addition (Clover, SC)

## Heat Pump



**Diffuser Supply (GRD)**

**3-IHP1/CLASSROOM**

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	CLASSROOM	C	10	300	415	302	100.7
SGRD2	CLASSROOM	C	10	300	323	305	101.7
SGRD3	CLASSROOM	C	10	300	284	299	99.7
SGRD4	CLASSROOM	C	10	300	197	291	97.0
Total				1200	1219	1197	99.75%



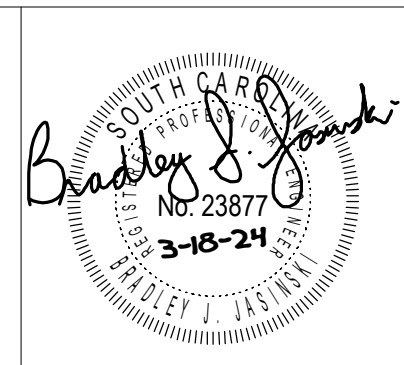
Jumper

Carter

Sease

ARCHITECTS

412 Meeting Street  
West Columbia  
South Carolina



CLOVER HIGH SCHOOL  
9TH GRADE FINE ARTS ADDITION  
CLOVER SCHOOL DISTRICT  
1625 STATE HWY 55 E, CLOVER, SC 29710

BID DOCUMENTS

No	Description	Date

DRAWN BY: BJJ  
 CHECKED BY: BJJ  
 COMM. NO.: 21024  
 DATE: MARCH 18, 2024  
 SHEET TITLE: SECOND FLOOR PLAN - HVAC

SHEET NO.  
**M102**



**1** SECOND FLOOR PLAN - HVAC  
 1/8" = 1'-0"

SWYGERT & ASSOCIATES  
 CONSULTING ENGINEERS  
 1015 Sargent Assoc., Ltd. Telephone: (803) 794-4300  
 Columbia, SC 29211 mail@swygertandassociates.com

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# National TAB

Project: Clover Fine Arts Addition (Clover, SC)

## System/Unit: AHU/RTU

Asset: RTU1

AREA:ROOF

Unit Data		
	Design	Actual
MFG	TRANE	TRANE
Serial Num	-	242412789L
Model Num	WSC048	WSC048H4REA2FD0C1A2A6
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	11X26.5
Num PreFilter 1	-	2
PreFilter Size 1	-	20X35X2

Motor Data		
	Design	Actual
Motor MFG	-	US MOTORS
Frame	-	NA
Horsepower	1.0	1
Motor Rpm	-	NA
Phase	3	NA
Rated Voltage	460	460
Rated Amperage	2.5	2.5
Service Factor	-	NA

Test Data		
	Design	Actual
SF CFM	1600	1595
RA CFM	1280	1259
OA CFM	320	336
RL Voltage	460	460
RL Amperage	2.5	0.60/0.63/0.65
OA Damper Position	-	0.50
Brake Horse Power	0.66	0.26

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.22"
Fan Suction SP	-	-0.38"
Fan Discharge SP	-	0.23"
Total ESP	0.6	0.45"
Fan Total SP	-	0.61"
Cooling Coil P.D.	-	0.16* COIL/FILTERS DROP

Completed By: Jearod Ferrette on 04/30/2025

## Unit Data - PHOTO LOG



04/29/2025



# National TAB

Project: Clover Fine Arts Addition (Clover, SC)

## System/Unit: AHU/RTU

Asset: RTU2

AREA:ROOF

Unit Data		
	Design	Actual
MFG	TRANE	TRANE
Serial Num	-	244510172D
Model Num	WSJ180	WSJ180A4S0N02D0A2A
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	17X65
Num PreFilter 1	-	8
PreFilter Size 1	-	20X24X2

Motor Data		
	Design	Actual
Motor MFG	-	US MOTOR
Frame	-	NA
Horsepower	-	NA
Motor Rpm	-	NA
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	NA
Service Factor	-	NA

Test Data		
	Design	Actual
SF CFM	4800	4790
RA CFM	3300	3279
OA CFM	1500	1511
RL Voltage	460	471/478/481
RL Amperage	-	3.15/3.23/3.25
OA Damper Position	-	12%

Performance Data		
	Design	Actual
MA Plenum SP	-	-1.17"
Fan Suction SP	-	-1.33"
Fan Discharge SP	-	0.28"
Total ESP	1.0	1.45"
Fan Total SP	-	1.61"
Cooling Coil P.D.	-	0.16* COIL/ FINAL FILTERS DROP

Completed By: Jearod Ferrette on 04/30/2025

## Unit Data - PHOTO LOG



04/29/2025



# National TAB

Project: Clover Fine Arts Addition (Clover, SC)

## System/Unit: AHU/RTU

Asset: RTU3

AREA:ROOF

Unit Data		
	Design	Actual
MFG	TRANE	TRANE
Serial Num	-	242412927L
Model Num	WSC120	WSC120H4RKB2FD0C1A2A
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	15X36
Num PreFilter 1	-	4
PreFilter Size 1	-	20X25X2

Motor Data		
	Design	Actual
Motor MFG	-	US MOTOR
Frame	-	NA
Horsepower	2.75	2.75
Motor Rpm	-	NA
Phase	3	3
Rated Voltage	460	460
Rated Amperage	3.6	3.6
Service Factor	-	NA

Test Data		
	Design	Actual
SF CFM	3200	3116
RA CFM	2200	2018
OA CFM	1000	1098
RL Voltage	460	477/480/478
RL Amperage	3.6	1.46/1.45/1.46
OA Damper Position	-	1-1/4 "
Brake Horse Power	1.43	1.11

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.52"
Fan Suction SP	-	-0.86"
Fan Discharge SP	-	0.21"
Total ESP	1.0	0.73"
Fan Total SP	-	1.07"
Cooling Coil P.D.	-	0.34* COIL/ FINAL FILTERS DROP

Completed By: Jearod Ferrette on 04/30/2025

## Unit Data - PHOTO LOG



04/29/2025



# National TAB

Project: Clover Fine Arts Addition (Clover, SC)

## System/Unit: AHU/RTU

Asset: RTU4

AREA:ROOF

Unit Data		
	Design	Actual
MFG	TRANE	TRANE
Serial Num	-	242412819L
Model Num	WSC036	WSC036H4RBA2FD0C1A2A
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	11X26.5
Num PreFilter 1	-	2
PreFilter Size 1	-	20X35X2

Motor Data		
	Design	Actual
Motor MFG	-	US MOTORS
Frame	-	NA
Horsepower	0.75	0.75
Motor Rpm	-	NA
Phase	3	3
Rated Voltage	460	460
Rated Amperage	1.7	1.7
Service Factor	-	NA

Test Data		
	Design	Actual
SF CFM	1200	1146
RA CFM	1100	1039
OA CFM	100	107
RL Voltage	460	478/477/478
RL Amperage	1.7	0.47/0.48/0.47
OA Damper Position	-	3/8"
Brake Horse Power	0.39	0.207

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.27"
Fan Suction SP	-	-0.35"
Fan Discharge SP	-	0.15"
Total ESP	0.6	0.42"
Fan Total SP	-	0.50"
Cooling Coil P.D.	-	0.08* COIL/ FINAL FILTERS DROP

Completed By: Jearod Ferrette on 04/30/2025

## Unit Data - PHOTO LOG



04/29/2025



# National TAB

Project: Clover Fine Arts Addition (Clover, SC)

## System/Unit: AHU/RTU

Asset: RTU5

AREA:ROOF

Unit Data		
	Design	Actual
MFG	TRANE	TRANE
Serial Num	-	242412957L
Model Num	WSC048	WSC048H4REA2FD0C1A2A
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	11X26.5
Num PreFilter 1	-	2
PreFilter Size 1	-	20X35X2

Motor Data		
	Design	Actual
Motor MFG	-	US MOTOR
Frame	-	NA
Horsepower	1.0	1.0
Motor Rpm	-	NA
Phase	3	3
Rated Voltage	460	460
Rated Amperage	2.5	2.5
Service Factor	-	NA

Test Data		
	Design	Actual
SF CFM	1600	1591
RA CFM	1450	1434
OA CFM	150	157
RL Voltage	460	478/480/479
RL Amperage	2.5	0.64/0.63/0.64
OA Damper Position	-	3/8
Brake Horse Power	0.66	0.256

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.26"
Fan Suction SP	-	-0.41"
Fan Discharge SP	-	0.21"
Total ESP	0.6	0.47"
Fan Total SP	-	0.62"
Cooling Coil P.D.	-	0.15* COIL/ FINAL FILTERS DROP

Completed By: Jearod Ferrette on 04/30/2025

## Unit Data - PHOTO LOG



04/29/2025



# National TAB

Project: Clover Fine Arts Addition (Clover, SC)

## System/Unit: AHU/RTU

Asset: RTU6

AREA:

Unit Data		
	Design	Actual
MFG	TRANE	TRANE
Serial Num	-	242412833L
Model Num	WSC036	WSC036H4RBA2FD0C1A2A
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	11X26X5
Num PreFilter 1	-	2
PreFilter Size 1	-	20X35X2

Motor Data		
	Design	Actual
Motor MFG	-	US MOTOR
Frame	-	NA
Horsepower	0.75	075
Motor Rpm	-	NA
Phase	3	3
Rated Voltage	460	460
Rated Amperage	1.7	1.7
Service Factor	-	NA

Test Data		
	Design	Actual
SF CFM	1200	1213
RA CFM	1050	1055
OA CFM	150	158
RL Voltage	460	472/472/472
RL Amperage	1.7	0.50/0.51/0.50
OA Damper Position	-	3/8"
Brake Horse Power	0.39	0.220

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.04"
Fan Suction SP	-	-0.12"
Fan Discharge SP	-	0.54"
Total ESP	0.6	0.58"
Fan Total SP	-	0.66"
Cooling Coil P.D.	-	0.08* COIL/ FINAL FILTERS DROP

Completed By: Jearod Ferrette on 04/30/2025