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**Report: TAB REPORT**  
**Function: Test, Adjust, & Balance**  
**Date: 07/29/2025**  
**Completed By: National TAB**

# PROJECT

## Sierra Trading Post 0168 (Evansville, IN)

6601 E. Lloyd Expy

Evansville, IN 47715

### Client

Greater Comfort Heating & Air Conditioning  
2001 Monmouth St  
Newport, KY 41071

# National TAB

Project: Sierra Trading Post 0168 (Evansville, IN)

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# CERTIFICATION



**PROJECT:** Sierra Trading Post 0168 (Evansville, IN)

The data presented in this report is a record of system measurements and final adjustments that have been obtained in accordance with the current edition of the NEBB *Procedural Standards for Testing, Adjusting, and Balancing of Environmental Systems*. Any variances from design quantities, which exceed NEBB tolerances, are noted in the Test-Adjust-Balance Report Project Summary.

The air distribution system has been tested and balanced and final adjustments have been made in accordance with NEBB standards and the project specifications.

**NEBB TAB FIRM:** National TAB

**REGISTRATION NO:** 3629

**CERTIFIED BY:** Joe Hertenstein

**DATE:** 7/29/2025

The hydronic distribution system has been tested and balanced and final adjustments have been made in accordance with NEBB standards and the project specifications.

**NEBB TAB FIRM:** National TAB

**REGISTRATION NO:** 3629


**CERTIFIED BY:** Joe Hertenstein

**DATE:** \_\_\_\_\_

## Submitted and Certified by:

**NEBB TAB FIRM:** National TAB

**TAB PROFESSIONAL:** Joe Hertenstein

**SIGNATURE:** 

**REGISTRATION NO:** 3629

**CERTIFICATION EXP:** 12/31/2025





# National TAB



Testing, Adjusting, and Balancing Equipment

INTELLIGENCE

Function		Range	Minimum Accuracy	Instrument Information	Calibration Date	Date Due
AIR	AIR PRESSURE	0 in wg to 10 in wg	2% +/- 0.001 in wg	Evergreen S-PVF-1 S/N 2200484C	3/24/2025	3/24/2027
	AIR VELOCITY INSTRUMENT	50 fpm to 3900 fpm	+/- 5 % +/- 7 fpm	Evergreen S-PVF-1 S/N 2200484C	3/24/2025	3/24/2027
	DIRECT HOOD READING	100 cfm to 2000 cfm	+/- 5 % +/- 7 cfm	Evergreen S-PVF-1 S/N 2200484C	3/24/2025	3/24/2027
TEMPERATURE	AIR METER	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - SRH77A S/N 071118034	7/12/2024	7/12/2025
	AIR PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - PD1388 7-6 S/N 5028	7/12/2024	7/12/2025
	IMMERSION METER	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - SRH77A S/N 071118034	7/12/2024	7/12/2025
	IMMERSION PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - PD1388 7-6 S/N 1075	7/12/2024	7/12/2025
	CONTACT METER	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - SRH77A S/N 071118034	7/12/2024	7/12/2025
	CONTACT PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - PD1388 7-6 S/N 4011	7/12/2024	7/12/2025
HUMIDITY	HUMIDITY PROBE	10 % RH to 90 % RH	3% of reading	Cooper ATKINS - SRH77A S/N 071118034	7/12/2024	7/12/2025
ELECTRICAL	VOLTAGE MEASUREMENT	0 VAC to 600 VAC	2 % reading +/- 5 digits	Fluke 373 True RMS, S/N: 33290686	7/12/2024	7/12/2025
	AMPERAGE MEASUREMENT	0 Amperers to 100 Amperes	2 % reading +/- 5 digits	Fluke 373 True RMS, S/N: 33290686	7/12/2024	7/12/2025
ROTATION	ROTATION MEASUREMENT	60 rpm to 5000 rpm	2 % reading 2 rpm	SHIMPO DT-207LR S/N: D1530081R	7/12/2024	7/12/2025
HYDRONIC	PRESSURE MEASUREMENT	-30 in Hg to 200 psi	±2% of reading +/- 1 psi	Alnor HM680 S/N: 70807241	5/11/2024	5/31/2025
	DIFFERENTIAL PRESSURE MEASUREMENT	0 psi - 80 psi	±2% of reading +/- 1 psi	Alnor HM680 S/N: 70807241	5/11/2024	5/31/2025

## Abbreviation List

A = Area (ft <sup>2</sup> )	S.F. = Service Factor
AHU = Air Handling Unit	SF = Supply Fan
A <sub>k</sub> = Effective Area	SP = Static Pressure
BHP = Brake Horsepower (IP) HP	SR = Supply Register
Btu = British Thermal Unit	T = Temperature
Btu/h = Btuh = BTUH = BTU/Hour	T <sub>ma</sub> = Mixed Air Temperature
CL = Center Distance (used in belt formula)	T <sub>oa</sub> = Outside Air Temperature
CD = Ceiling Diffuser	T <sub>ra</sub> = Return Air Temperature
CF = Correction Factor	H = Head (in wc, ft wc, psi)
CFM = Volumetric Flow: Cubic Feet Per Minute	h = Enthalpy
CO <sub>2</sub> = Carbon Dioxide	HP = Horsepower
CO = Carbon Monoxide	hr = Hour
C <sub>v</sub> = Flow Constant	K <sub>v</sub> = Flow constant (SI)
d = Diameter (in.) IP	kW = Kilowatt = 1000 Watts
Δ = Difference or Change (Final - Initial)	LAT = Leaving Air Temperature
DB = Dry Bulb	lb = Pounds
EA = Exhaust Air	LWT = Leaving Water Temperature
EAT = Entering Air Temperature	ma = Mixed Air
EF = Exhaust Fan	MIN = Minimum
Eff = Efficiency	MAX = Maximum
EG = Exhaust Grille	N/A = Not Applicable
ESP = External Static Pressure	NA = No Access
EWT = Entering Water Temperature	NL = Not Listed
°F = Degrees Fahrenheit, °F	NPSHA = Net Positive Suction Head Available
FPB = Fan Powered Box	NS = Not Specified
FLA = Full Load Amps	OA = Outside Air
fpm = Feet per Minute (fpm)	OAT = Outside Air Temperature
ft = Foot	PD = Sheave Pitch Diameter
gal = Gallons	P.D. = Pressure Drop
GPM = Gallons Per Minute (GPM)	PF = Power Factor
h = Enthalpy (BTU/lb dry air)	SG = Supply Grille
P = Pressure	SR = Supply Register
ppm = parts per million	TP = Total Pressure
psi = Pounds Per Square Inch	T <sub>ra</sub> = Return Air Temperature
psid = PSI Differential	TS = Tip Speed (fpm) IP, (m/s) SI
r = Radius (in)	TSP = Total Static Pressure
% <sub>ra</sub> = % of Return Air	V = Velocity
RA = Return Air	VAV = Variable Air Volume
RAT = Return Air Temperature	VD = Volume Damper
RF = Return Fan	VFD = Variable Frequency Drive
RG = Return Grille	W = Watt
RH = Relative Humidity	WB = Wet Bulb
RPM = Revolutions Per Minute	wg = wc = water gauge = water column
RTU = Roof Top Unit	WHP = Water Horsepower (IP)
SA = Supply Air	ω = Humidity Ratio



# National TAB

Project: Sierra Trading Post 0168 (Evansville, IN)

System/Unit: AHU/RTU



Asset: RTU-1

AREA:SALES FLOOR

Unit Data		
	Design	Actual
MFG	NA	YORK
Serial Num	-	N2M3985602
Model Num	NA	ZJ120N24R4D5HCA1R3
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	28.75"x20.5"
Num PreFilter 1	-	4
PreFilter Size 1	-	24"X20"

Motor Data		
	Design	Actual
Motor MFG	-	CENTURY
Frame	-	56HZ
Horsepower	3.00	3.00
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	460	460
Rated Amperage	4.7	4.5
Service Factor	-	1.0

Drive Data	
	Actual
Motor Sheave Size	303
Motor Bore Size	1"
Motor Sheave SetPt	
Fan Sheave Size	126
Fan Sheave Bore	1"
Belt CL Distance	19.25"
Num of Belts	1
Belt Size	2123MX

Test Data		
	Design	Actual
SF CFM	4000	3765
RA CFM	2800	2465
OA CFM	1200	1300
RL Voltage	460	465/471/466
RL Amperage	4.7	3.8/3.9/4.0
OA Damper Position	-	20%
Brake Horse Power	2.94	2.6

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.68
Fan Suction SP	-	-1.0
Fan Discharge SP	-	0.93
Total ESP	0.60	1.68
Fan Total SP	1.18	1.93

Completed By: Corey Dick on 07/24/2025

# National TAB

Project: Sierra Trading Post 0168 (Evansville, IN)

## AHU/RTU



**Diffuser Supply (GRD)**

**RTU-1/SALES FLOOR**

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	SALES FLOOR	SR-1	20X10	780	750	743	95.3
SGRD2	SALES FLOOR	SR-1	20X10	780	759	751	96.3
SGRD3	SALES FLOOR	SR-1	20X10	780	714	710	91.0
SGRD4	SALES FLOOR	SR-1	20X10	410	511	420	102.4
SGRD5	SALES FLOOR	SD-1	12	450	240	410	91.1
SGRD6	VESTIBULE	SR-1	20X10	800	640	731	91.4
Total				4000	3614	3765	94.12%

# National TAB

Project: Sierra Trading Post 0168 (Evansville, IN)

## System/Unit: AHU/RTU



Asset: RTU-2

AREA:SALES FLOOR

Unit Data		
	Design	Actual
MFG	NA	YORK
Serial Num	-	N2A4072130
Model Num	NA	ZJ078N18R4D5HCA1R3
Configuration	VERTICAL	Vertical
Num OA Filters 1	-	1
OA Filter Size 1	-	28.75"x20.5"
Num PreFilter 1	-	4
PreFilter Size 1	-	24"X20"

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	56HZ
Horsepower	2.00	2
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	460	460
Rated Amperage	3.4	2.9
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	303
Motor Bore Size	1"
Motor Sheave SetPt	
Fan Sheave Size	462
Fan Sheave Bore	1"
Belt CL Distance	19.25"
Num of Belts	1
Belt Size	2123MX

Test Data		
	Design	Actual
SF CFM	2600	2550
RA CFM	2080	1983
OA CFM	520	567
RL Voltage	460	491/489/490
RL Amperage	3.4	2.8/2.7/1.3
OA Damper Position	-	1%
Brake Horse Power	1.54	1.33

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.46
Fan Suction SP	-	-0.72
Fan Discharge SP	-	0.75
Total ESP	0.80	1.18
Fan Total SP	0.98	1.47

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Project: Sierra Trading Post 0168 (Evansville, IN)

## System/Unit: AHU/RTU



Asset: RTU-3

AREA:SALES FLOOR

Unit Data		
	Design	Actual
MFG	NA	YORK
Serial Num	-	N2A4072134
Model Num	NA	ZJ078N18R4D5HCA1R3
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	28.75"x20.5"
Num PreFilter 1	-	4
PreFilter Size 1	-	24X20

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	56HZ
Horsepower	2.00	2
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	460	460
Rated Amperage	3.4	2.9
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	302
Motor Bore Size	1"
Motor Sheave SetPt	
Fan Sheave Size	162
Fan Sheave Bore	1"
Belt CL Distance	19.25
Num of Belts	1
Belt Size	2123MX

Test Data		
	Design	Actual
SF CFM	2600	2657
RA CFM	2080	2085
OA CFM	520	572
RL Voltage	460	481/478/482
RL Amperage	3.4	2.7/2.6/2.8
OA Damper Position	-	5%
Brake Horse Power	1.54	1.58

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.60
Fan Suction SP	-	-0.85
Fan Discharge SP	-	0.58
Total ESP	0.80	1.45
Fan Total SP	1.11	1.43

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Project: Sierra Trading Post 0168 (Evansville, IN)

## System/Unit: AHU/RTU



Asset: RTU-4

AREA:SALES FLOOR

Unit Data		
	Design	Actual
MFG	NA	YORK
Serial Num	-	N2D3620644
Model Num	NA	ZJ090N18R4D5HCA1R3
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	28.75"x20.5"
Num PreFilter 1	-	4
PreFilter Size 1	-	24"X20"

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	56HZ
Horsepower	3.00	3
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	460	460
Rated Amperage	4.7	4.1
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	302
Motor Bore Size	1"
Motor Sheave SetPt	
Fan Sheave Size	162
Fan Sheave Bore	1"
Belt CL Distance	19.25
Num of Belts	1
Belt Size	0523MX

Test Data		
	Design	Actual
SF CFM	3000	3112
RA CFM	2400	2540
OA CFM	600	572
RL Voltage	460	488/489/485
RL Amperage	4.7	4.5/4.5/4.6
OA Damper Position	-	0%
Brake Horse Power	1.91	2.9

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.94
Fan Suction SP	-	-1.2
Fan Discharge SP	-	0.94
Total ESP	0.80	2.14
Fan Total SP	0.98	2.14

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# National TAB

Project: Sierra Trading Post 0168 (Evansville, IN)

## System/Unit: AHU/RTU



Asset: RTU-5

AREA:SALES FLOOR

Unit Data		
	Design	Actual
MFG	NA	YORK
Serial Num	-	N2A4072131
Model Num	NA	ZJ078N18R4D5HCA1R3
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	28.75"x20.5"
Num PreFilter 1	-	4
PreFilter Size 1	-	24"X20"

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	56HZ
Horsepower	2.00	2
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	460	460
Rated Amperage	3.4	2.9
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	302
Motor Bore Size	1"
Motor Sheave SetPt	
Fan Sheave Size	162
Fan Sheave Bore	1"
Belt CL Distance	19.25"
Num of Belts	1
Belt Size	2123MX

Test Data		
	Design	Actual
SF CFM	2600	2440
RA CFM	2080	1909
OA CFM	520	531
RL Voltage	460	340/341/344
RL Amperage	3.4	2.3/2.4/2.3
OA Damper Position	-	20%
Brake Horse Power	1.54	1.35

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.40
Fan Suction SP	-	-0.55
Fan Discharge SP	-	0.54
Total ESP	0.80	0.95
Fan Total SP	0.98	1.09

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# National TAB

Project: Sierra Trading Post 0168 (Evansville, IN)

## System/Unit: AHU/RTU



Asset: RTU-6

AREA:ASST MGR

Unit Data		
	Design	Actual
MFG	NA	YORK
Serial Num	-	N2A4058953
Model Num	NA	ZT037N08P4B5HCA1R3
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	28.75"x20.5"
Num PreFilter 1	-	4
PreFilter Size 1	-	24"X16"

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	56HZ
Horsepower	1.50	1.5
Motor Rpm	-	1740
Phase	3	3
Rated Voltage	460	460
Rated Amperage	2.1	2.1
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	4"
Motor Bore Size	1"
Motor Sheave SetPt	
Fan Sheave Size	8"
Fan Sheave Bore	1"
Belt CL Distance	16"
Num of Belts	1
Belt Size	0123MX

Test Data		
	Design	Actual
SF CFM	950	908
RA CFM	874	813
OA CFM	76	95
RL Voltage	460	381/385/391
RL Amperage	2.1	0.9/0.9/1.0
OA Damper Position	-	5%
Brake Horse Power	0.50	0.67

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.13
Fan Suction SP	-	-0.2
Fan Discharge SP	-	0.13
Total ESP	0.60	0.33
Fan Total SP	-	0.33

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# National TAB

Project: Sierra Trading Post 0168 (Evansville, IN)

## AHU/RTU



**Diffuser Supply (GRD)**

**RTU-6/ASST MGR**

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	ASST MGR	SD-1	10	275	264	261	94.9
SGRD2	MGR OFFICE	SD-1	10	275	242	248	90.2
SGRD3	CASH OFFICE	SD-1	8	150	166	163	108.7
SGRD4	CASH HALL	SD-1	6	100	91	93	93.0
SGRD5	LP OFFICE	SD-1	8	150	147	143	95.3
Total				950	910	908	95.58%

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Project: Sierra Trading Post 0168 (Evansville, IN)

## System/Unit: AHU/RTU



Asset: RTU-7

AREA:MENS RR

Unit Data		
	Design	Actual
MFG	NA	YORK
Serial Num	-	N2M3011381
Model Num	NA	ZT037N08P4B5HCA1R3
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	28.75"x20.5"
Num PreFilter 1	-	4
PreFilter Size 1	-	24"X16"

Test Data		
	Design	Actual
SF CFM	950	947
SF RPM	736	
RA CFM	826	748
OA CFM	124	199
RL Voltage	460	390/395/394
RL Amperage	2.1	1.1/1.2/1.1
OA Damper Position	-	3%
Brake Horse Power	0.50	0.82

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	56HZ
Horsepower	1.50	1.5
Motor Rpm	-	1740
Phase	3	3
Rated Voltage	460	460
Rated Amperage	2.1	2.1
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.24
Fan Suction SP	-	-0.31
Fan Discharge SP	-	0.28
Total ESP	0.60	0.55
Fan Total SP	-	0.59

Drive Data	
	Actual
Motor Sheave Size	4"
Motor Bore Size	1"
Motor Sheave SetPt	
Fan Sheave Size	8"
Fan Sheave Bore	1"
Belt CL Distance	16.5"
Num of Belts	1
Belt Size	A49

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Project: Sierra Trading Post 0168 (Evansville, IN)

## AHU/RTU



**Diffuser Supply (GRD)**

**RTU-7/MENS RR**

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	MEN DRESSING	SD-1	10	300	279	279	93.0
SGRD2	MEN DRESSING	SD-1	6	75	82	82	109.3
SGRD3	WOMEN DRESS	SD-1	6	75	82	82	109.3
SGRD4	DRESS ENTRANCE	SD-1	8	200	206	206	103.0
SGRD5	WOMEN DRESS	SD-1	10	300	298	298	99.3
Total				950	947	947	99.68%

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Project: Sierra Trading Post 0168 (Evansville, IN)

## System/Unit: AHU/RTU



Asset: RTU-8

AREA:PROCESSING

Unit Data		
	Design	Actual
MFG	NA	YORK
Serial Num	-	N2N3023479
Model Num	NA	ZJ150N24R4D5HCA1R2
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	28.75"x20.5"
Num PreFilter 1	-	4
PreFilter Size 1	-	24"X20"

Test Data		
	Design	Actual
SF CFM	5000	4605
RA CFM	4300	3838
OA CFM	700	767
RL Voltage	460	487/489/487
RL Amperage	6.6	4.7/4.9/4.7
OA Damper Position	-	20%
Brake Horse Power	4.75	3.6

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	184T
Horsepower	5.00	5.0
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	460	460
Rated Amperage	6.6	6.6
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.73
Fan Suction SP	-	-1.18
Fan Discharge SP	-	0.77
Total ESP	0.60	1.91
Fan Total SP	1.42	1.95

Drive Data	
	Actual
Motor Sheave Size	WE24
Motor Bore Size	1"
Motor Sheave SetPt	
Fan Sheave Size	8"
Fan Sheave Bore	1"
Belt CL Distance	20"
Num of Belts	1
Belt Size	BX56

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# National TAB

Project:Sierra Trading Post 0168 (Evansville, IN)

## AHU/RTU



**Diffuser Supply (GRD)**

**RTU-8/PROCESSING**

Asset										
Asset Name	Location	Type	Size	DESIGN CFM	AK	VEL(1)	CFM(1)	VEL(2)	FINAL CFM	% to design
SGRD1	PROCESSING	SR-2	14 x 8	400	0.982	663	663		371	92.8
SGRD2	PROCESSING	SR-2	14 x 8	500		591	310		469	93.8
SGRD3	PROCESSING	SR-2	14 x 8	500		626	330		459	91.8
SGRD4	PROCESSING	SR-2	14 x 8	300		445	220		280	93.3
SGRD5	PROCESSING	SR-2	14 x 8	500		519	275		453	90.6
SGRD6	PROCESSING	SR-2	14 x 8	400		622	333		367	91.8
SGRD7	PROCESSING	SR-2	14 x 8	250		567	211		230	92.0
SGRD8	PROCESSING	SR-2	14 x 8	250		432	199		225	90.0
SGRD9	PROCESSING	SR-2	14 x 8	400		735	584		376	94.0
SGRD10	PROCESSING	SR-2	14 x 8	400		453	310		364	91.0
SGRD11	PROCESSING	SR-2	14 x 8	250		564	175		231	92.4
SGRD12	PROCESSING	SR-2	14 x 8	400		760	566		374	93.5
SGRD13	PROCESSING	SR-2	14 x 8	450	0.982	654	310		409	90.9
Total				5000			4486		4608	92.16%

# National TAB

Project: Sierra Trading Post 0168 (Evansville, IN)

## System/Unit: AHU/RTU



Asset: RTU-9

AREA:DRESSING RMS

Unit Data		
	Design	Actual
MFG	NA	YORK
Serial Num	-	N2M3011380
Model Num	NA	ZT037N08P4B5HCA1R3
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	28.75"x20.5"
Num PreFilter 1	-	4
PreFilter Size 1	-	24"X16"

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	56HZ
Horsepower	1.50	1.5
Motor Rpm	-	1740
Phase	3	3
Rated Voltage	460	460
Rated Amperage	2.1	2.1
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	1VL40-778
Motor Bore Size	1"
Motor Sheave SetPt	
Fan Sheave Size	8"
Fan Sheave Bore	1"
Belt CL Distance	15.5"
Num of Belts	1
Belt Size	A47

Test Data		
	Design	Actual
SF CFM	1200	1138
RA CFM	984	
OA CFM	216	195
RL Voltage	460	392/389/392
RL Amperage	2.1	1.2/1.4/1.3
OA Damper Position	-	5%
Brake Horse Power	0.50	0.92

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.46
Fan Suction SP	-	-0.53
Fan Discharge SP	-	0.36
Total ESP	0.60	0.99
Fan Total SP	-	0.89

Completed By: Corey Dick on 07/24/2025

# National TAB

Project: Sierra Trading Post 0168 (Evansville, IN)

## AHU/RTU



**Diffuser Supply (GRD)**

**RTU-9/DRESSING RMS**

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	JAN	SD-1	8	110	33	114	103.6
SGRD2	WOMENS	SD-2	8	150	161	135	90.0
SGRD3	MENS	SD-2	8	150	187	147	98.0
SGRD4	HALL	SD-2	8	150	62	144	96.0
SGRD5	LOUNGE	SD-1	10	320	329	298	93.1
SGRD6	LOUNGE	SD-1	10	320	333	300	93.8
Total				1200	1105	1138	94.83%

# National TAB

Project: Sierra Trading Post 0168 (Evansville, IN)

## System/Unit: FAN - Exhaust



Asset: EF-1

AREA:WOMENS

Unit Data		
	Design	Actual
MFG	NA	PENNBERRY
Model Num	NA	DX13R-SC
Serial Num	-	B24A022067
Type	CRE DNBLAST	CEILING DOWNBLAST

Test Data		
	Design	Actual
CFM	650	633
RL Voltage	115	120
RL Amperage	4.4	1.9
Suction ESP	-	-0.63
Discharge ESP	-	ATM
Total ESP	0.62	0.63
Brake Horse Power	-	0.15

Motor Data		
	Design	Actual
Motor MFG	-	FASCO
Horsepower	0.167	0.125
Motor Rpm	1547	1550
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	2.1

Completed By: Corey Dick on 07/24/2025

# National TAB

Project:Sierra Trading Post 0168 (Evansville, IN)

## FAN - Exhaust



**Diffuser Ret/Exh (GRD)**

**EF-1/WOMENS**

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
EGRD1	MENS	EG-1	10X10	250	1	266	266	106.4
EGRD2	WOMENS	EG-1	10X10	250	1	236	236	94.4
EGRD3	JAN	EG-2	6	150	1	135	135	90.0
Total				650		637	637	98%

# National TAB

Project: Sierra Trading Post 0168 (Evansville, IN)

## System/Unit: FAN - Exhaust



Asset: EF-2

AREA:PROCESSING

Unit Data		
	Design	Actual
MFG	NA	PENNBERRY
Model Num	NA	DX10R-SC
Serial Num	-	B24A022068
Type	CRE DNBLAST	CEILING DOWNBLAST

Test Data		
	Design	Actual
CFM	220	241
RL Voltage	115	120
RL Amperage	-	1.2
Suction ESP	-	-0.56
Discharge ESP	-	ATM
Total ESP	0.50	0.56
Brake Horse Power	-	0.06

Motor Data		
	Design	Actual
Motor MFG	-	FASCO
Horsepower	0.083	0.083
Motor Rpm	1357	1300
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	0.7

Completed By: Corey Dick on 07/24/2025

# National TAB

Project: Sierra Trading Post 0168 (Evansville, IN)

## FAN - Exhaust



Diffuser Ret/Exh (GRD)

**EF-2/PROCESSING**

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
EGRD1	PROCESSING	EG-2	8	220	1	351	241	109.5
Total				220		351	241	109.55%

# National TAB

Project: Sierra Trading Post 0168 (Evansville, IN)

## System/Unit: FAN - Exhaust



Asset: EF-3

AREA:DRESSING RMS

Unit Data		
	Design	Actual
MFG	NA	PENNBERRY
Model Num	NA	EVD10R
Serial Num	-	B24A022069
Type	CRE DNBLAST	CEILING DOWNBLAST

Test Data		
	Design	Actual
CFM	200	181
RL Voltage	115	120
RL Amperage	-	1.1
Suction ESP	-	-0.50
Discharge ESP	-	ATM
Total ESP	0.50	0.50
Brake Horse Power	-	0.05

Motor Data		
	Design	Actual
Motor MFG	-	FASCO
Horsepower	0.083	0.083
Motor Rpm	1329	1300
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	0.7

Completed By: Corey Dick on 07/24/2025

# National TAB

Project: Sierra Trading Post 0168 (Evansville, IN)

## FAN - Exhaust



Diffuser Ret/Exh (GRD)

**EF-3/DRESSING RMS**

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
EGRD1	WOMEN DRESS	EG-2	6	100	1	91	91	91.0
EGRD2	MENS DRESS	EG-2	6	100	1	90	90	90.0
Total				200		181	181	90.5%