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Report: PRELIM

Function: Test, Adjust, & Balance

Date: 07/10/2025

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

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Project: Sierra Trading Post 0168 (Evansville, IN)

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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	-	
Model Num	NA	ZJ120N24R4D5HCA1R3
Configuration	VERTICAL	
Num OA Filters 1	-	
OA Filter Size 1	-	
Num PreFilter 1	-	4
PreFilter Size 1	-	24X20

Test Data		
	Design	Actual
SF CFM	4000	
SF RPM	1181	
RA CFM	2800	
OA CFM	1200	
RL Voltage	460	
RL Amperage	4.7	
OA Damper Position	-	
Brake Horse Power	2.94	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	3.00	
Motor Rpm	-	
Phase	3	
Rated Voltage	460	
Rated Amperage	4.7	
Service Factor	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.60	
Fan Total SP	1.18	
Cooling Coil P.D.	-	

Drive Data	
	Actual
Motor Sheave Size	
Motor Bore Size	
Motor Sheave SetPt	
Fan Sheave Size	
Fan Sheave Bore	
Belt CL Distance	
Num of Belts	
Belt Size	

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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			-
SGRD2	SALES FLOOR	SR-1	20X10	780			-
SGRD3	SALES FLOOR	SR-1	20X10	780			-
SGRD4	SALES FLOOR	SR-1	20X10	410			-
SGRD5	SALES FLOOR	SD-1	12	450			-
SGRD6	VESTIBULE	SR-1	20X10	800			-
Total				4000	0	0	0%

Diffuser Ret/Exh (GRD)

RTU-1/SALES FLOOR

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
EGRD1	SALES FLOOR	R-2	30X16	1400				-
EGRD2	SALES FLOOR	R-2	30X16	1400				-
Total				2800		0	0	0%

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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	-	
Model Num	NA	ZJ078N18R4D5HCA1R3
Configuration	VERTICAL	
Num OA Filters 1	-	
OA Filter Size 1	-	
Num PreFilter 1	-	4
PreFilter Size 1	-	24X20

Test Data		
	Design	Actual
SF CFM	2600	
SF RPM	937	
RA CFM	2080	
OA CFM	520	
RL Voltage	460	
RL Amperage	3.4	
OA Damper Position	-	
Brake Horse Power	1.54	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	2.00	
Motor Rpm	-	
Phase	3	
Rated Voltage	460	
Rated Amperage	3.4	
Service Factor	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.80	
Fan Total SP	0.98	
Cooling Coil P.D.	-	

Drive Data	
	Actual
Motor Sheave Size	
Motor Bore Size	
Motor Sheave SetPt	
Fan Sheave Size	
Fan Sheave Bore	
Belt CL Distance	
Num of Belts	
Belt Size	

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Project: Sierra Trading Post 0168 (Evansville, IN)

AHU/RTU



Diffuser Ret/Exh (GRD)

RTU-2/SALES FLOOR

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
EGRD1	SALES FLOOR	R-2	36X12	1040				-
EGRD2	SALES FLOOR	R-2	36X12	1040				-
Total				2080		0	0	0%

National TAB

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	-	
Model Num	NA	ZJ078N18R4D5HCA1R3
Configuration	VERTICAL	
Num OA Filters 1	-	
OA Filter Size 1	-	
Num PreFilter 1	-	4
PreFilter Size 1	-	24X20

Test Data		
	Design	Actual
SF CFM	2600	
SF RPM	937	
RA CFM	2080	
OA CFM	520	
RL Voltage	460	
RL Amperage	3.4	
OA Damper Position	-	
Brake Horse Power	1.54	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	2.00	
Motor Rpm	-	
Phase	3	
Rated Voltage	460	
Rated Amperage	3.4	
Service Factor	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.80	
Fan Total SP	1.11	
Cooling Coil P.D.	-	

Drive Data	
	Actual
Motor Sheave Size	
Motor Bore Size	
Motor Sheave SetPt	
Fan Sheave Size	
Fan Sheave Bore	
Belt CL Distance	
Num of Belts	
Belt Size	

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Project: Sierra Trading Post 0168 (Evansville, IN)

AHU/RTU



Diffuser Ret/Exh (GRD)

RTU-3/SALES FLOOR

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
EGRD1	SALES FLOOR	R-2	36X12	1040				-
EGRD2	SALES FLOOR	R-2	36X12	1040				-
Total				2080		0	0	0%

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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	-	
Model Num	NA	ZJ090N18R4D5HCA1R3
Configuration	VERTICAL	
Num OA Filters 1	-	
OA Filter Size 1	-	
Num PreFilter 1	-	4
PreFilter Size 1	-	24X20

Test Data		
	Design	Actual
SF CFM	3000	
SF RPM	967	
RA CFM	2400	
OA CFM	600	
RL Voltage	460	
RL Amperage	4.7	
OA Damper Position	-	
Brake Horse Power	1.91	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	3.00	
Motor Rpm	-	
Phase	3	
Rated Voltage	460	
Rated Amperage	4.7	
Service Factor	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.80	
Fan Total SP	0.98	
Cooling Coil P.D.	-	

Drive Data	
	Actual
Motor Sheave Size	
Motor Bore Size	
Motor Sheave SetPt	
Fan Sheave Size	
Fan Sheave Bore	
Belt CL Distance	
Num of Belts	
Belt Size	

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Project: Sierra Trading Post 0168 (Evansville, IN)

AHU/RTU



Diffuser Ret/Exh (GRD)

RTU-4/SALES FLOOR

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
EGRD1	SALES FLOOR	R-2	30X16	1200				-
EGRD2	SALES FLOOR	R-2	30X16	1200				-
Total				2400		0	0	0%

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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	-	
Model Num	NA	ZJ078N18R4D5HCA1R3
Configuration	VERTICAL	
Num OA Filters 1	-	
OA Filter Size 1	-	
Num PreFilter 1	-	4
PreFilter Size 1	-	24X20

Test Data		
	Design	Actual
SF CFM	2600	
SF RPM	937	
RA CFM	2080	
OA CFM	520	
RL Voltage	460	
RL Amperage	3.4	
OA Damper Position	-	
Brake Horse Power	1.54	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	2.00	
Motor Rpm	-	
Phase	3	
Rated Voltage	460	
Rated Amperage	3.4	
Service Factor	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.80	
Fan Total SP	0.98	
Cooling Coil P.D.	-	

Drive Data	
	Actual
Motor Sheave Size	
Motor Bore Size	
Motor Sheave SetPt	
Fan Sheave Size	
Fan Sheave Bore	
Belt CL Distance	
Num of Belts	
Belt Size	

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Project: Sierra Trading Post 0168 (Evansville, IN)

AHU/RTU



Diffuser Ret/Exh (GRD)

RTU-5/SALES FLOOR

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
EGRD1	SALES FLOOR	R-2	36X12	1040				-
EGRD2	SALES FLOOR	R-2	36X12	1040				-
Total				2080		0	0	0%

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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	-	
Model Num	NA	ZT037N08P4B5HCA1R3
Configuration	VERTICAL	
Num OA Filters 1	-	
OA Filter Size 1	-	
Num PreFilter 1	-	4
PreFilter Size 1	-	24X16

Test Data		
	Design	Actual
SF CFM	950	
SF RPM	736	
RA CFM	874	
OA CFM	76	
RL Voltage	460	
RL Amperage	2.1	
OA Damper Position	-	
Brake Horse Power	0.50	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	1.50	
Motor Rpm	-	
Phase	3	
Rated Voltage	460	
Rated Amperage	2.1	
Service Factor	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.60	
Fan Total SP	-	
Cooling Coil P.D.	-	

Drive Data	
	Actual
Motor Sheave Size	
Motor Bore Size	
Motor Sheave SetPt	
Fan Sheave Size	
Fan Sheave Bore	
Belt CL Distance	
Num of Belts	
Belt Size	

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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			-
SGRD2	MGR OFFICE	SD-1	10	275			-
SGRD3	CASH OFFICE	SD-1	8	150			-
SGRD4	CASH HALL	SD-1	6	100			-
SGRD5	LP OFFICE	SD-1	8	150			-
Total				950	0	0	0%

Diffuser Ret/Exh (GRD)

RTU-6/ASST MGR

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
EGRD1	ASST MGR	R-1	8	218				-
EGRD2	MGR OFFICE	R-1	8	219				-
EGRD3	CASH OFFICE	R-1	8	218				-
EGRD4	LP OFFICE	R-1	8	219				-
Total				874		0	0	0%

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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	-	
Model Num	NA	ZT037N08P4B5HCA1R3
Configuration	VERTICAL	
Num OA Filters 1	-	
OA Filter Size 1	-	
Num PreFilter 1	-	4
PreFilter Size 1	-	24X16

Test Data		
	Design	Actual
SF CFM	950	
SF RPM	736	
RA CFM	826	
OA CFM	124	
RL Voltage	460	
RL Amperage	2.1	
OA Damper Position	-	
Brake Horse Power	0.50	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	1.50	
Motor Rpm	-	
Phase	3	
Rated Voltage	460	
Rated Amperage	2.1	
Service Factor	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.60	
Fan Total SP	-	
Cooling Coil P.D.	-	

Drive Data	
	Actual
Motor Sheave Size	
Motor Bore Size	
Motor Sheave SetPt	
Fan Sheave Size	
Fan Sheave Bore	
Belt CL Distance	
Num of Belts	
Belt Size	

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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			-
SGRD2	MEN DRESSING	SD-1	6	75			-
SGRD3	WOMEN DRESS	SD-1	6	75			-
SGRD4	DRESS ENTRANCE	SD-1	8	200			-
SGRD5	WOMEN DRESS	SD-1	10	300			-
Total				950	0	0	0%

Diffuser Ret/Exh (GRD)

RTU-7/MENS RR

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
EGRD1	WOMEN DRESS	R-1	12	826				-
Total				826		0	0	0%

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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	-	
Model Num	NA	ZJ150N24R4D5HCA1R2
Configuration	VERTICAL	
Num OA Filters 1	-	
OA Filter Size 1	-	
Num PreFilter 1	-	4
PreFilter Size 1	-	24X20

Test Data		
	Design	Actual
SF CFM	5000	
SF RPM	1463	
RA CFM	4300	
OA CFM	700	
RL Voltage	460	
RL Amperage	6.6	
OA Damper Position	-	
Brake Horse Power	4.75	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	5.00	
Motor Rpm	-	
Phase	3	
Rated Voltage	460	
Rated Amperage	6.6	
Service Factor	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.60	
Fan Total SP	1.42	
Cooling Coil P.D.	-	

Drive Data	
	Actual
Motor Sheave Size	
Motor Bore Size	
Motor Sheave SetPt	
Fan Sheave Size	
Fan Sheave Bore	
Belt CL Distance	
Num of Belts	
Belt Size	

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	CFM(1)	FINAL CFM	% to design
SGRD1	PROCESSING	SR-2	14X8	400			-
SGRD2	PROCESSING	SR-2	14X8	500			-
SGRD3	PROCESSING	SR-2	14X8	500			-
SGRD4	PROCESSING	SR-2	14X8	300			-
SGRD5	PROCESSING	SR-2	14X8	500			-
SGRD6	PROCESSING	SR-2	14X8	400			-
SGRD7	PROCESSING	SR-2	14X8	250			-
SGRD8	PROCESSING	SR-2	14X8	250			-
SGRD9	PROCESSING	SR-2	14X8	400			-
SGRD10	PROCESSING	SR-2	14X8	400			-
SGRD11	PROCESSING	SR-2	14X8	250			-
SGRD12	PROCESSING	SR-2	14X8	400			-
SGRD13	PROCESSING	SR-2	14X8	450			-
Total				5000	0	0	0%

Diffuser Ret/Exh (GRD)

RTU-8/PROCESSING

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
EGRD1	PROCESSING	R-2	36X18	2150				-
EGRD2	PROCESSING	R-2	36X18	2150				-
Total				4300		0	0	0%

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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	-	
Model Num	NA	ZT037N08P4B5HCA1R3
Configuration	VERTICAL	
Num OA Filters 1	-	
OA Filter Size 1	-	
Num PreFilter 1	-	4
PreFilter Size 1	-	24X16

Test Data		
	Design	Actual
SF CFM	1200	
SF RPM	736	
RA CFM	984	
OA CFM	216	
RL Voltage	460	
RL Amperage	2.1	
OA Damper Position	-	
Brake Horse Power	0.50	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	1.50	
Motor Rpm	-	
Phase	3	
Rated Voltage	460	
Rated Amperage	2.1	
Service Factor	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.60	
Fan Total SP	-	
Cooling Coil P.D.	-	

Drive Data	
	Actual
Motor Sheave Size	
Motor Bore Size	
Motor Sheave SetPt	
Fan Sheave Size	
Fan Sheave Bore	
Belt CL Distance	
Num of Belts	
Belt Size	

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			-
SGRD2	WOMENS	SD-2	8	150			-
SGRD3	MENS	SD-2	8	150			-
SGRD4	HALL	SD-2	8	150			-
SGRD5	LOUNGE	SD-1	10	320			-
SGRD6	LOUNGE	SD-1	10	320			-
Total				1200	0	0	0%

Diffuser Ret/Exh (GRD)

RTU-9/DRESSING RMS

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
EGRD1	HALL	R-1	10	344				-
EGRD2	HALL	R-1	12	640				-
Total				984		0	0	0%

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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	-	
Type	CRE DNBLAST	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	0.167	
Motor Rpm	1547	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	Actual
CFM	650	
Motor Frequency	-	
System SetPt	-	
RL Voltage	115	
RL Amperage	4.4	
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.62	
Brake Horse Power	-	0.15

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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				-
EGRD2	WOMENS	EG-1	10X10	250				-
EGRD3	JAN	EG-2	6	150				-
Total				650		0	0	0%

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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	-	
Type	CRE DNBLAST	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	0.083	
Motor Rpm	1357	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	Actual
CFM	220	
Motor Frequency	-	
System SetPt	-	
RL Voltage	115	
RL Amperage	-	
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.50	
Brake Horse Power	-	0.06

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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				-
Total				220		0	0	0%

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	NA
Serial Num	-	
Type	CRE DNBLAST	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	0.083	
Motor Rpm	1329	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	Actual
CFM	200	
Motor Frequency	-	
System SetPt	-	
RL Voltage	115	
RL Amperage	-	
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.50	
Brake Horse Power	-	0.05

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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				-
EGRD2	MENS DRESS	EG-2	6	100				-
Total				200		0	0	0%

