

**Report By:**

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**Report: Homesense (Knoxville, TN) - TAB Report**

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

**Date: 09/27/2024**

**Completed By: National TAB**

# PROJECT

## HomeSense (Knoxville, TN)

11263 Parkside Dr

Knoxville, TN 37934

### Client

Triton Services, Inc.

8162 Duke Boulevard

Mason, OH 45040

# National TAB

Project: HomeSense (Knoxville, TN)

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# National TAB

Project: HomeSense (Knoxville, TN)  
System/Unit: AHU/RTU



Asset: RTU-1

AREA: SALES

Unit Data		
	Design	Actual
MFG	NA	YORK
Serial Num	-	N2F4422419
Model Num	NA	ZLG14E4C3AB2C224A3
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	
Num PreFilter 1	-	4
PreFilter Size 1	-	20x20x2"

Test Data		
	Design	Actual
SF CFM	5000	4233
SF RPM	1139	1125
RA CFM	3750	2952
OA CFM	1250	1281
RL Voltage	460	488/491/492
RL Amperage	6.7	5.5/5.6/5.6
OA Damper Position	-	30%
Brake Horse Power	4.41	

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	184TZ
Horsepower	5.25	5.25
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	460	460
Rated Amperage	6.7	6.7
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-1.19"
Fan Suction SP	-	-1.65"
Fan Discharge SP	-	1.01"
Total ESP	0.36	2.20"
Fan Total SP	1.40	2.66"

Drive Data	
	Actual
Motor Sheave Size	5.5"
Motor Bore Size	3/4"
Motor Sheave SetPt	2 TURNS OUT
Fan Sheave Size	8.5"
Fan Sheave Bore	1"
Belt CL Distance	18"
Num of Belts	1
Belt Size	BX54

Notes:

Initial setpoints  
Fan 90%  
Econ 25%

Current setpoints  
Fan 100%  
Econ 30%

Suspected return restriction. MA plenum pressures at economizer setpoints as follows:

- 0%: -1.33"
- 20%: -1.28"
- 30%: -1.19"
- 40%: -1.10"
- 50%: -1.04"
- 60%: -1.00"
- 70%: -1.05"

Least resistance at 60% OA damper despite the OA opening being 38x7"

Motor RPM 1755

Amperage when door is opened is over 7A, speeding up motor any more could cause spikes above FLA during balance.

Written By: Riley Frady on 09/18/2024



# National TAB

Project: HomeSense (Knoxville, TN)

## AHU/RTU



### Diffuser Supply (GRD)

#### RTU-1/SALES

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-1	SALES	SD-1	10	400	117	76	19.0
1-2	SALES	SR-1		840	801	764	91.0
1-3	SALES	SR-1		840	773	707	84.2
1-4	SALES	SR-1		400	761	334	83.5
1-5	SALES	SR-1		840	169	851	101.3
1-6	SALES	SR-1		840	561	733	87.3
1-7	SALES	SR-1		840	860	768	91.4
Total				5000	4042	4233	84.66%

### Diffuser Ret/Exh (GRD)

#### RTU-1/SALES

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R1-1	R2	30X16	1875		1156		1451	77.4
R1-2	R2	30X16	1875		1209		1501	80.1
Total			3750		2365	0	2952	78.72%



# National TAB

Project: HomeSense (Knoxville, TN)  
System/Unit: AHU/RTU



Asset: RTU-2

AREA: SALES

Unit Data		
	Design	Actual
MFG	NA	YORK
Serial Num	-	N2D4314499
Model Num	NA	ZYG09E4C3AB2C224A2
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	36x22"
Num PreFilter 1	-	4
PreFilter Size 1	-	20X20X2

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	182TZ
Horsepower	3.70	3.7
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	460	460
Rated Amperage	4.7	4.7
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	4.75"
Motor Bore Size	0.75"
Motor Sheave SetPt	31/32" EDGE TO EDGE
Fan Sheave Size	7.25"
Fan Sheave Bore	1"
Belt CL Distance	17.25"
Num of Belts	1
Belt Size	A50

Test Data		
	Design	Actual
SF CFM	3400	3125
SF RPM	901	908
RA CFM	2720	2547
OA CFM	680	619
RL Voltage	460	490/491/489 LINE SIDE
RL Amperage	4.7	3.33/3.27/3.31
OA Damper Position	-	18%
Brake Horse Power	2.06	

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.86"
Fan Suction SP	-	-1.16"
Fan Discharge SP	-	0.56"
Total ESP	0.6	1.42"
Fan Total SP	1.07	1.72"

Completed By: Riley Frady on 09/19/2024

Notes:

Initial setpoints

Fan 100%

Econ 20%

Final setpoints

Fan 100%

Econ 18%

Motor RPM 1775

Written By: Riley Frady on 09/19/2024



# National TAB

Project: HomeSense (Knoxville, TN)

## AHU/RTU



### Diffuser Supply (GRD)

#### RTU-2/SALES

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-1	SALES		3.5x24	850	788	787	92.6
2-2	SALES		3.5x24	850	814	805	94.7
2-3	SALES		3.5x24	850	797	782	92.0
2-4	SALES		3.5x24	850	795	792	93.2
Total				3400	3194	3166	93.12%

### Diffuser Ret/Exh (GRD)

#### RTU-2/SALES

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R2-1	R-2	24X12	1360		1159		1231	90.5
R2-2	R-2	24X12	1360		1246		1316	96.8
Total			2720		2405	0	2547	93.64%



# National TAB

Project: HomeSense (Knoxville, TN)  
System/Unit: AHU/RTU



Asset: RTU-3

AREA:SALES

Unit Data		
	Design	Actual
MFG	NA	YORK
Serial Num	-	N2D4314500
Model Num	NA	ZYG09E4C3AB2C224A2
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	36x22"
Num PreFilter 1	-	4
PreFilter Size 1	-	20X20X2

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	182TZ
Horsepower	3.70	3.7
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	460	460
Rated Amperage	4.7	4.7
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	4.75"
Motor Bore Size	0.75"
Motor Sheave SetPt	
Fan Sheave Size	7.25"
Fan Sheave Bore	1"
Belt CL Distance	17.25"
Num of Belts	1
Belt Size	A50

Test Data		
	Design	Actual
SF CFM	3400	3295
SF RPM	901	913
RA CFM	2720	2574
OA CFM	680	721
RL Voltage	460	489 / 491 / 492 LINE SIDE
RL Amperage	4.7	3.55 / 3.53 / 3.51
OA Damper Position	-	20%
Brake Horse Power	2.06	

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.86"
Fan Suction SP	-	-1.17"
Fan Discharge SP	-	0.55"
Total ESP	0.6	1.41"
Fan Total SP	1.07	1.72"

Completed By: Riley Frady on 09/19/2024

Notes:

Initial setpoints:

Fan 95%

Econ 30%

Current setpoints:

Fan 100%

Econ 20%

Motor RPM 1774

Written By: Riley Frady on 09/18/2024



# National TAB

Project: HomeSense (Knoxville, TN)

## AHU/RTU



### Diffuser Supply (GRD)

#### RTU-3/SALES

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3-1	SALES		3.5x24	850	760	793	93.3
3-2	SALES		3.5x24	850	792	848	99.8
3-3	SALES		3.5x24	850	791	826	97.2
3-4	SALES		3.5x24	850	778	828	97.4
Total				3400	3121	3295	96.91%

### Diffuser Ret/Exh (GRD)

#### RTU-3/SALES

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R3-1	R-2	24X12	1360		1007	1119	1305	96.0
R3-2	R-2	24X12	1360		982	1088	1269	93.3
Total			2720		1989	2207	2574	94.63%



# National TAB

Project: HomeSense (Knoxville, TN)  
System/Unit: AHU/RTU



Asset: RTU-4

AREA:SALES

Unit Data		
	Design	Actual
MFG	NA	YORK
Serial Num	-	N2F4472464
Model Num	NA	ZYG12E4C3AB2C224A3
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	36x22"
Num PreFilter 1	-	4
PreFilter Size 1	-	20X20X2

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	184TZ
Horsepower	5.25	5.25
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	460	460
Rated Amperage	6.7	6.7
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	5.25"
Motor Bore Size	0.75"
Motor Sheave SetPt	1.0625" EDGE TO EDGE
Fan Sheave Size	8.25"
Fan Sheave Bore	1"
Belt CL Distance	17"
Num of Belts	1
Belt Size	BX52

Test Data		
	Design	Actual
SF CFM	4000	4005
SF RPM	1001	941
RA CFM	3200	3193
OA CFM	800	812
RL Voltage	460	496/500/500 LINE SIDE
RL Amperage	6.7	4.60 / 4.47 / 4.45
OA Damper Position	-	27%
Brake Horse Power	2.97	

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.78"
Fan Suction SP	-	-1.22"
Fan Discharge SP	-	0.60"
Total ESP	0.6	1.38"
Fan Total SP	0.72	1.82"

Completed By: Riley Frady on 09/17/2024

Notes:

Initial setpoints:

Fan 80%

Econ 40%

Current setpoints:

Fan 94%

Econ 27%

Motor RPM 1669

Unable to measure sheave setpoint in rotations due to key recessed too far into sheave to remove and adjust.

Written By: Riley Frady on 09/19/2024



# National TAB

Project: HomeSense (Knoxville, TN)

## AHU/RTU



### Diffuser Supply (GRD)

#### RTU-4/SALES

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
4-1	SALES		20x6	1000	928	1054	105.4
4-2	SALES		20x6	1000	867	983	98.3
4-3	SALES		20x6	1000	885	1014	101.4
4-4	SALES		20x6	1000	872	954	95.4
Total				4000	3552	4005	100.12%

### Diffuser Ret/Exh (GRD)

#### RTU-4/SALES

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R4-1	R-2	30X12	1600		1152	1520	1520	95.0
R4-2	R-2	30X12	1600		1247	1672	1672	104.5
Total			3200		2399	3192	3192	99.75%

Completed By: Riley Frady on 09/17/2024



# National TAB

Project: HomeSense (Knoxville, TN)  
System/Unit: AHU/RTU



Asset: RTU-5

AREA:SALES

Unit Data		
	Design	Actual
MFG	NA	YORK
Serial Num	-	N2F4472463
Model Num	NA	ZYG12E4C3AB2C224A3
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	36x22"
Num PreFilter 1	-	4
PreFilter Size 1	-	20X20X2

Test Data		
	Design	Actual
SF CFM	4000	
SF RPM	1001	
RA CFM	3200	
OA CFM	800	
RL Voltage	460	
RL Amperage	6.7	
OA Damper Position	-	
Brake Horse Power	2.97	

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	184TZ
Horsepower	5.25	5.25
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	460	460
Rated Amperage	6.7	6.7
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.6	
Fan Total SP	0.72	

Drive Data	
	Actual
Motor Sheave Size	5.25"
Motor Bore Size	0.75"
Motor Sheave SetPt	
Fan Sheave Size	8.25"
Fan Sheave Bore	1"
Belt CL Distance	17"
Num of Belts	1
Belt Size	BX52

**Notes:**

RTU-5 NOT FUNCTIONAL 2024-09-19. MISSING FAN PULLEY KEY INSTALLED EARLIER TODAY, TECHNICIAN NOTING PULLEY WOBBLE. AFTER INITIAL READINGS, UNIT WAS PUT INTO COMMISSIONING MODE, AND FAN POWER CYCLED WHILE ECONOMIZER ADJUSTED. UPON FAN STARTUP, FAN PULLEY WOBBLED LOOSE. AFTER REINSTALLATION, PULLEY REPEATED BEHAVIOR. UNIT DISCONNECTED FOR SAFETY.

**INITIAL SETPOINTS:**

FAN 100%  
ECON 27%

**CURRENT SETPOINTS:**

DAN 100%  
ECON 24%

Written By: Riley Frady on 09/19/2024



# National TAB

Project: HomeSense (Knoxville, TN)

## AHU/RTU



### Diffuser Supply (GRD)

#### RTU-5/SALES

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
5-1	SALES			1000	1053		-
5-2	SALES			1000	999		-
5-3	SALES			1000	1028		-
5-4	SALES			1000	983		-
Total				4000	4063	0	0%

### Diffuser Ret/Exh (GRD)

#### RTU-5/SALES

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R5-1	R-2	30X12	1600		1450		1450	90.6
R5-2	R-2	30X12	1600		1445		1445	90.3
Total			3200		2895	0	2895	90.47%



# National TAB

Project: HomeSense (Knoxville, TN)  
System/Unit: AHU/RTU



Asset: RTU-6

AREA:MGR OFFICE

Unit Data		
	Design	Actual
MFG	NA	YORK
Serial Num	-	N2F4451706
Model Num	NA	ZLG06E4C3AB2C224A2
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	30x16"
Num PreFilter 1	-	4
PreFilter Size 1	-	20X20X2

Test Data		
	Design	Actual
SF CFM	2000	
SF RPM	1414	
RA CFM	1600	
OA CFM	400	
RL Voltage	460	
RL Amperage	4.1	
OA Damper Position	-	25%
Brake Horse Power	1.62	

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	56HZ
Horsepower	2.90	2.9 AIR OVER
Motor Rpm	-	1745
Phase	3	3
Rated Voltage	460	460
Rated Amperage	4.1	4.1
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.8	
Fan Total SP	0.89	

Drive Data	
	Actual
Motor Sheave Size	4"
Motor Bore Size	0.75"
Motor Sheave SetPt	2 TURNS OUT
Fan Sheave Size	4.5"
Fan Sheave Bore	0.75"
Belt CL Distance	14.5"
Num of Belts	1
Belt Size	A39

Notes:

Initial setpoints:

Fan 80%

Econ 30%

Current setpoints:

Fan 90%

Econ 25%

Written By: Riley Frady on 09/19/2024



# National TAB

Project: HomeSense (Knoxville, TN)

## AHU/RTU



### Diffuser Supply (GRD)

#### RTU-6/MGR OFFICE

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
6-1	LP	SD-1		100	73	69	69.0
6-2	LOUNGE	SD-1	10	300	239	246	82.0
6-3	CASH HALL	SD-1		125	40	196	156.8
6-4	CASH	SD-1	8	150	204	217	144.7
6-5	JAN	SD-1	6	75	93	94	125.3
6-6	WOMENS	SD-2	8	150	134	138	92.0
6-7	HALL	SD-1		300	40	34	11.3
6-8	MENS	SD-2	8	150	205	219	146.0
6-9	LOUNGE	SD-1		300	85	319	106.3
6-10	MGR OFFICE	SD-1	10	350	385	429	122.6
Total				2000	1498	1961	98.05%

### Diffuser Ret/Exh (GRD)

#### RTU-6/MGR OFFICE

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R6-1	R-1	12	275		427			-
R6-2	R-1	6	100		43			-
R6-3	R-1	12	600		499			-
R6-4	R-1	10	350		90			-
R6-5	R-1	6	125		13			-
R6-6	R-1	8	150		67			-
Total			1600		1139	0	0	0%



# National TAB

Project: HomeSense (Knoxville, TN)  
System/Unit: AHU/RTU



Asset: RTU-7

AREA:PROCESSING

Unit Data		
	Design	Actual
MFG	NA	YORK
Serial Num	-	N2D4314498
Model Num	NA	ZYG09E4C3AB2C224A2
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	36x22"
Num PreFilter 1	-	4
PreFilter Size 1	-	20X20X2

Test Data		
	Design	Actual
SF CFM	3400	
SF RPM	955	
RA CFM	2900	
OA CFM	500	
RL Voltage	460	
RL Amperage	4.7	
OA Damper Position	-	
Brake Horse Power	2.23	

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	182TZ
Horsepower	3.70	3.7
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	460	460
Rated Amperage	4.7	4.7
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.8	
Fan Total SP	1.27	

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	

Notes:

Initial setpoints  
Fan 100%  
Econ 25%

Current setpoints after pulley sheave adjustment:

Fan 100%  
Econ 25%

Written By: Riley Frady on 09/19/2024



# National TAB

Project: HomeSense (Knoxville, TN)

## AHU/RTU



### Diffuser Supply (GRD)

#### RTU-7/PROCESSING

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
RTU-7-SGRD1		SR-2		150	180	180	120.0
RTU-7-SGRD2		SR-2		350	229	229	65.4
RTU-7-SGRD3		SR-2		400	407	407	101.8
RTU-7-SGRD4		SR-2		400	421	421	105.3
RTU-7-SGRD5		SR-2		340	426	426	125.3
RTU-7-SGRD6		SR-2		340	333	333	97.9
RTU-7-SGRD7		SD-1		60	85	85	141.7
RTU-7-SGRD8		SR-2		340	184	184	54.1
RTU-7-SGRD9		SR-2		340	233	233	68.5
RTU-7-SGRD10		SR-2		340	311	311	91.5
RTU-7-SGRD11		SR-2		340		330	97.1
Total				3400	2809	3139	92.32%



# National TAB

Project: HomeSense (Knoxville, TN)

## System/Unit: FAN - Exhaust



Asset: EF-1

AREA:JAN

Unit Data		
	Design	Actual
<b>MFG</b>	NA	YORK
<b>Model Num</b>	NA	EVD13R
<b>Serial Num</b>	-	F24GZ96593
<b>Type</b>	CRE	DOWNBLAST

Test Data		
	Design	Actual
<b>CFM</b>	575	447
<b>RL Voltage</b>	-	122.1
<b>RL Amperage</b>	-	1.96
<b>Total ESP</b>	0.50	0.25"

Motor Data		
	Design	Actual
<b>Motor MFG</b>	-	FASCO
<b>Frame</b>	-	NL
<b>Horsepower</b>	0.167	1/6
<b>Motor Rpm</b>	1550	1550
<b>Phase</b>	1	1
<b>Voltage (rated)</b>	120	120
<b>Amperage (rated)</b>	-	2.1
<b>Service Factor</b>	-	NL

Completed By: Riley Frady on 09/19/2024

**Notes:**

- 2024-09-16 - NO POWER TO UNIT
- 2024-09-17 - ELECTRICIANS CONNECTED SPEED CONTROLLER INCORRECTLY, FRIED BOARD. UNIT HARD WIRED ON.
- 2024-09-18 - SPEED CONTROLLER REPLACED. UNIT STILL NOT ACHIEVING DESIGN FLOW.

Written By: Riley Frady on 09/19/2024



# National TAB

Project: HomeSense (Knoxville, TN)

## FAN - Exhaust



### Diffuser Ret/Exh (GRD)

#### EF-1/JAN

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
E1-1	EG-1	8	225		211	175	174	77.3
E1-2	EG-1	8	225		161	172	169	75.1
E1-3	EG-2	6	125		116	104	104	83.2
Total			575		488	451	447	77.74%



# National TAB

Project: HomeSense (Knoxville, TN)  
**System/Unit: FAN - Exhaust**



Asset: EF-2

AREA:MGR OFFICE

Unit Data		
	Design	Actual
<b>MFG</b>	NA	YORK
<b>Model Num</b>	NA	EVD10R
<b>Serial Num</b>	-	G24IZ66467
<b>Type</b>	CRE	DOWNBLAST

Test Data		
	Design	Actual
<b>CFM</b>	225	211
<b>RL Voltage</b>	-	122.7
<b>RL Amperage</b>	-	1.24
<b>Total ESP</b>	0.50	0.14"

Motor Data		
	Design	Actual
<b>Motor MFG</b>	-	FASCO
<b>Frame</b>	-	NL
<b>Horsepower</b>	0.083	1/12
<b>Motor Rpm</b>	1550	1550
<b>Phase</b>	1	1
<b>Voltage (rated)</b>	120	115
<b>Amperage (rated)</b>	-	1.1
<b>Service Factor</b>	-	NL

Completed By: Riley Frady on 09/17/2024

**Notes:**

2024-09-16 - NO POWER TO UNIT

2024-09-17 - ELECTRICIANS CONNECTED SPEED CONTROLLER INCORRECTLY, FRIED BOARD. UNIT HARD WIRED ON.

Written By: Riley Frady on 09/19/2024



# National TAB

Project: HomeSense (Knoxville, TN)

## FAN - Exhaust



### Diffuser Ret/Exh (GRD)

#### EF-2/MGR OFFICE

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
E2-1	EG-2	24x24"	225	1	170	211	211	93.8
Total			225		170	211	211	93.78%