

Report By:

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



Report: INSPECTION REPORTT
Function: Test, Adjust, & Balance
Date: 11/22/2024
Completed By: National TAB

PROJECT
Everon-ADT 9 (West Chester, OH)

9466 MERIDIAN WAY

West Chester, OH 45069

Client

Tri-State Mechanical
4783 Brewer Ln.

Petersburg, KY 41080

National TAB

Project: Everon-ADT 9 (West Chester, OH)

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Issue List

- Dampers missing or damaged
- Ef1 faceplate
- Rtu 1 oa



Everon-ADT 9 (West Chester, OH)

Project Issue Information

Issue Name : Dampers missing or damaged
Description : Dampers missing or damaged for rooms 106 and 107.
Created By : National TAB **Assigned To :** National TAB - Nick Payne
Status : Open
Priority : Medium **Asset Tag :**
Originated Date : 11/22/2024 - Gabe Merk - National TAB

Project Issue File Details



11/22/2024



Everon-ADT 9 (West Chester, OH)

Project Issue Information

Issue Name : Ef1 faceplate
Description : Missing exhaust fan face plate.
Created By : National TAB **Assigned To :** National TAB - Nick Payne
Status : Open
Priority : Low **Asset Tag :**
Originated Date : 11/22/2024 - Gabe Merk - National TAB

Project Issue File Details



11/22/2024



Everon-ADT 9 (West Chester, OH)

Project Issue Information

Issue Name : Rtu 1 oa
Description : Oa inlet for Rtu 1 sealed off with sheet metal.
Created By : National TAB **Assigned To :** National TAB - Nick Payne
Status : Open
Priority : Urgent **Asset Tag :**
Originated Date : 11/22/2024 - Gabe Merk - National TAB

Project Issue File Details



11/22/2024

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Project: Everon-ADT 9 (West Chester, OH)
System/Unit: AHU/RTU



Asset: RTU-1

AREA: CONFERENCE RM

Unit Data		
	Design	Actual
MFG	NA	YORK
Serial Num	-	ILLEGIBLE
Model Num	NA	ILLEGIBLE
Configuration	-	VERTICAL
Num OA Filters 1	-	0
OA Filter Size 1	-	N/A
Num PreFilter 1	-	2/1
PreFilter Size 1	-	15"X20"X2"/14"X25"X2"

Test Data		
	Design	Actual
SF CFM	-	1609
RA CFM	-	1609
OA CFM	-	0
RL Voltage	-	480
RL Amperage	-	1.6
OA Damper Position	-	N/A

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.21"
Fan Suction SP	-	-0.53"
Fan Discharge SP	-	0.71"
Total ESP	-	0.92"
Fan Total SP	-	1.24"

Motor Data		
	Design	Actual
Motor MFG	-	SMITH
Frame	-	48Y
Horsepower	-	3/4
Motor Rpm	-	1050
Phase	-	1
Rated Voltage	-	460
Rated Amperage	-	2.2
Service Factor	-	1.0

Completed By: Gabe Merk on 11/22/2024

Notes:
SERVES CONFERENCE ROOM

Written By: Gabe Merk on 11/22/2024

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Project:Everon-ADT 9 (West Chester, OH)

AHU/RTU



Diffuser Supply (GRD)

RTU-1/CONFERENCE RM

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
AHU4-SGRD1	CONFERENCE							477	-
AHU4-SGRD2	CONFERENCE							455	-
AHU4-SGRD3	CONFERENCE							267	-
AHU4-SGRD4	CONFERENCE							410	-
Total				0		0	0	1609	0%

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Project: Everon-ADT 9 (West Chester, OH)

System/Unit: AHU/RTU



Asset: RTU-2

AREA:PLAN SOUTH ZONE

Unit Data		
	Design	Actual
MFG	NA	YORK
Serial Num	-	NFCM066484
Model Num	NA	D1NA024N056
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	13"X14"
Num PreFilter 1	-	1
PreFilter Size 1	-	20"X20"X2"

Motor Data		
	Design	Actual
Horsepower	1.0	1/2
Phase	3	1
Rated Voltage	460	208
Rated Amperage	-	2.6

Test Data		
	Design	Actual
SF CFM	-	767
RA CFM	-	622
OA CFM	-	145
RL Voltage	-	207
RL Amperage	-	1.7
OA Damper Position	-	N/A

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.36"
Fan Suction SP	-	-0.36"
Fan Discharge SP	-	0.08"
Total ESP	-	0.44"
Fan Total SP	-	0.44"

Completed By: Gabe Merk on 11/22/2024

Notes:
 VERIFIED 1-9 DAMPER OPEN NO OBSTRUCTIONS.
 MIXED AIR=FAN SUCTION
 FILTER OVER RETURN DUCT.

Written By: Gabe Merk on 11/22/2024

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Project:Everon-ADT 9 (West Chester, OH)

AHU/RTU



Diffuser Supply (GRD)

RTU-2/PLAN SOUTH ZONE

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
RTU-1-SGRD11	100			75	69	79	105.3
SGRD2	109	(X)		135	49	51	37.8
SGRD7	105	SD-1	8	200	216	215	107.5
SGRD8	104	SD-1	8	200	209	218	109.0
SGRD9	103	SD-1	8	180	83	108	60.0
SGRD10	109	(X)	8	180	85	96	53.3
Total				970	711	767	79.07%

Diffuser Ret/Exh (GRD)

RTU-2/PLAN SOUTH ZONE

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD4	105	RG-1	8	200			186		-
EGRD5	104	RG-1	8	200			190		-
EGRD6	103	RG-1	8	200			254		-
Total				600		0	630	0	0%

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Project: Everon-ADT 9 (West Chester, OH)

System/Unit: AHU/RTU



Asset: RTU-3

AREA:PLAN WEST ZONE

Unit Data		
	Design	Actual
MFG	NA	YORK
Serial Num	-	ILLEGIBLE
Model Num	NA	ILLEGIBLE
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	10"x18"
Num PreFilter 1	-	2/1
PreFilter Size 1	-	15"x20"x2"/14"x25"x2"

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	0.75	1/2
Motor Rpm	-	975
Phase	3	1
Rated Voltage	460	460
Rated Amperage	-	2.2
Service Factor	-	1.0

Test Data		
	Design	Actual
SF CFM	-	1304
RA CFM	-	692
OA CFM	-	612
RL Voltage	-	480
RL Amperage	-	1.7
OA Damper Position	-	N/A

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.08"
Fan Suction SP	-	-0.43"
Fan Discharge SP	-	0.37"
Total ESP	-	0.45"
Fan Total SP	-	0.80"

Completed By: Gabe Merk on 11/22/2024

Notes:
UNABLE TO REDUCE OA. ALL RETURN DAMPERS VERIFIED OPEN

Written By: Gabe Merk on 11/22/2024

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Project:Everon-ADT 9 (West Chester, OH)

AHU/RTU



Diffuser Supply (GRD)

RTU-3/PLAN WEST ZONE

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD2	120	(X)	6	30	64	64	213.3
SGRD3	125	SD-1	8	200	117	117	58.5
SGRD4	125	SD-1	6	100	114	114	114.0
SGRD5	125	SD-1	6	100	128	128	128.0
SGRD6	118	(X)	6	30	136	136	453.3
SGRD7	117	(X)	6	30	113	113	376.7
SGRD8	111	SD-1	8	150	219	219	146.0
SGRD9	111	SD-1	8	150	263	263	175.3
SGRD10	119	SD-1	8	150	150	150	100.0
Total				940	1304	1304	138.72%

Diffuser Ret/Exh (GRD)

RTU-3/PLAN WEST ZONE

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	123	RG-1	14	500					-
EGRD2	119	(X)	10	200					-
EGRD3	111	(X)	10	300					-
Total				1000		0	0	0	0%

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Project: Everon-ADT 9 (West Chester, OH)

System/Unit: AHU/RTU



Asset: RTU-4

AREA:INTERIOR ZONE

Unit Data		
	Design	Actual
MFG	NA	YORK
Serial Num	-	N1K8216983
Model Num	NA	ZE072H12B4A1
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	18"x10"
Num PreFilter 1	-	2/1
PreFilter Size 1	-	15"x20"x2"/14"x25"x2"

Motor Data		
	Design	Actual
Horsepower	1.0	1.5
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	2.1

Test Data		
	Design	Actual
SF CFM	1600	1653
RA CFM	1120	1541
OA CFM	480	112
RL Voltage	460	481/484/482
RL Amperage	-	1.4/1.3/1.7
OA Damper Position	-	N/A

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.01"
Fan Suction SP	-	-0.17"
Fan Discharge SP	-	1.15"
Total ESP	1.2	1.16"
Fan Total SP	-	1.32"

Completed By: Gabe Merk on 11/22/2024

Notes:

- Labeled 4 on roof
- missing damper handle 3-9
- missing damper 3-10
- Verified damper open no obstructions 3-4

Written By: Gabe Merk on 11/22/2024

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Project:Everon-ADT 9 (West Chester, OH)

AHU/RTU



Diffuser Supply (GRD)

RTU-4/INTERIOR ZONE

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	116	SD-1	8	185	185	175	94.6
SGRD2	116	SD-1	8	185	161	203	109.7
SGRD3	115	SD-1	8	185	177	199	107.6
SGRD4	115	SD-1	8	185	20	144	77.8
SGRD5	114	SD-1	8	200	175	191	95.5
SGRD6	114	SD-1	8	200	167	206	103.0
SGRD7	113	SD-1	6	100	81	93	93.0
SGRD8	108	SD-1	6	110	98	112	101.8
SGRD9	107	SD-1	6	110	136	174	158.2
SGRD10	106	SD-1	6	100	135	156	156.0
Total				1560	1335	1653	105.96%

Diffuser Ret/Exh (GRD)

RTU-4/INTERIOR ZONE

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	116	RG-1		350				411	117.4
EGRD2	116	RG-1		350				390	111.4
EGRD3	112	RG-1	12	400				322	80.5
EGRD4	113	RG-1	8	100				127	127.0
EGRD5	108	RG-1	8	110				80	72.7
EGRD6	107	RG-1	8	100				50	50.0
EGRD7	106	RG-1	8	100				105	105.0
Total				1510		0	0	1485	98.34%

Completed By: Gabe Merk on 11/22/2024

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Project: Everon-ADT 9 (West Chester, OH)
System/Unit: FAN - Exhaust



Asset: EF-1

AREA:JAN CLS

Unit Data		
	Design	Actual
MFG	NA	BROAN
Model Num	NA	AE80B-B
Serial Num	-	42G24T
Type	CEILING	CEILING

Test Data		
	Design	Actual
CFM	50	86

Motor Data		
	Design	Actual
Motor Rpm	800	NA
Phase	1	1
Voltage (rated)	115	120
Amperage (rated)	-	0.3

Completed By: Gabe Merk on 11/22/2024