

Report By:

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Report: TEST

Function: Test, Adjust, & Balance

Date: 02/10/2026

Completed By: National TAB

PROJECT

Dayton Public Radio TI (Dayton, OH)

9181 N Dixie Dr

Dayton, OH 45414

Client

Detmer Mechanical

9181 Dixie Drive

Dayton, OH 45414

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Project: Dayton Public Radio TI (Dayton, OH)

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Project: Dayton Public Radio TI (Dayton, OH)

System/Unit: AHU/RTU



Asset: AHU-1

AREA:OFFICE 122

Unit Data		
	Design	Actual
MFG	NA	NA
Serial Num	-	
Model Num	NA	NA
Type	-	
Configuration	-	
Num PreFilter 1	-	
PreFilter Size 1	-	
Num PreFilter 2	-	
PreFilter Size 2	-	
Num Final Filter 1	-	
Final Filter Size 1	-	
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	
Motor Rpm	-	
Phase	-	
Rated Voltage	-	
Rated Amperage	-	
Service Factor	-	

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

Test Data		
	Design	Actual
SF CFM	-	
SF RPM	-	
RA CFM	-	
OA CFM	-	
Relief CFM	-	
RL Voltage	-	
RL Amperage	-	
VFD Max SetPt	-	
VFD Min SetPt	-	
SF Motor Freq(HZ)	-	
SF Flow Station (Kv)	-	
OA Flow Station (Kv)	-	
SF System SetPt	-	
RA Flow Station (Kv)	-	
RA Damper Position	-	
OA Damper Position	-	
Brake Horse Power	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	-	
Fan Total SP	-	
Pre-Filter P.D.	-	
Final Filters P.D.	-	
Cooling Coil P.D.	-	
CHW Coil P.D.	-	
PreHeat Coil P.D.	-	
Heating Coil P.D.	-	
HW Coil P.D.	-	
Heat Wheel (Sup) P.D.	-	
OA Temp (db/wb)	-	
RA Temp (db/wb)	-	
MA Temp (db/wb)	-	
SA Temp (db/wb)	-	

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Project: Dayton Public Radio TI (Dayton, OH)

AHU/RTU



VAV - Single Duct

AHU-1/OFFICE 122

Asset											
Asset Name	MFG	Model Num	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
V1-1	NA	NA			990						
V1-2	NA	NA									
V1-3	NA	NA			600						
V1-4	NA	NA									

Diffuser Supply (GRD)

V1-1/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-1-1	OFFICE 122	A1	8	100			-
1-1-2			8	270			-
1-1-3	OPEN OFFICE AREA 121	A1	8	175			-
1-1-4	RECEPTION 102	A1	8	175			-
1-1-5			8	270			-
Total				990	0	0	0%

V1-2/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-2-1	MEN 125						
1-2-2	WOMEN 126						
1-2-3							
Total				0	0	0	0%

V1-3/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-3-1	OFFICE 123	A1	8	175			-
1-3-2	OFFICE 119	A1	8	175			-
1-3-3	RECEPTION 102	A1	8	250			-
Total				600	0	0	0%

V1-4/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-4-1	RECEPTION 102	A1	8	250			-
1-4-2	OPEN SPACE 103	LINEAR SLOT	12X48				
Total				250	0	0	0%

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Project: Dayton Public Radio TI (Dayton, OH)

System/Unit: FAN - Exhaust



Asset: VF-1

AREA:CORRIDOR 110

Unit Data		
	Design	Actual
MFG	NA	NA
Model Num	NA	NA
Serial Num	-	
Type	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	0.5	
Motor Rpm	-	
Phase	1	
Voltage (rated)	120	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	Actual
CFM	265	
Motor Frequency	-	
System SetPt	-	
RL Voltage	120	
RL Amperage	-	
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.75	
Brake Horse Power	-	

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Project: Dayton Public Radio TI (Dayton, OH)

System/Unit: Split Sys Furnace



Asset: AC-1

AREA: BREAK ROOM 111

Unit Data		
	Design	Actual
MFG	NA	NA
Model Num	NA	NA
Serial Num	-	
Configuration	-	
Filter Size Size 1	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	
Motor Rpm	-	
Phase	-	
Voltage	-	
Amperage	-	

Test Data		
	Design	Actual
SF CFM	742	
Motor Speed SetPt	-	
RL Voltage	208	
RL Amperage	-	
RA CFM	687	
OA CFM	55	

Performance Data		
	Design	Actual
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.4	
OA Temp (db/wb)	-	
RA Temp (db/wb)	-	
MA Temp (db/wb)	-	
SA Temp (db/wb)	-	

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 Project: Dayton Public Radio TI (Dayton, OH)
Split Sys Furnace



Diffuser Supply (GRD)

AC-1/BREAK ROOM 111

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
A1-1	BREAK ROOM 111			225			-
A1-2	BREAK ROOM 111			225			-
A1-3	STORAGE 112			100			-
A1-4	STAIRS VESTIBULE			200			-
Total				750	0	0	0%

Diffuser Ret/Exh (GRD)

AC-1/BREAK ROOM 111

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
RA1-1	CORRIDOR 110	B3	10	500				-
Total				500		0	0	0%

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Project: Dayton Public Radio TI (Dayton, OH)

System/Unit: Split Sys Furnace



Asset: AC-2

AREA:OFFICE 115

Unit Data		
	Design	Actual
MFG	NA	NA
Model Num	NA	NA
Serial Num	-	
Configuration	-	
Filter Size Size 1	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	
Motor Rpm	-	
Phase	-	
Voltage	-	
Amperage	-	

Test Data		
	Design	Actual
SF CFM	742	
Motor Speed SetPt	-	
RL Voltage	208	
RL Amperage	-	
RA CFM	707	
OA CFM	35	

Performance Data		
	Design	Actual
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.4	
OA Temp (db/wb)	-	
RA Temp (db/wb)	-	
MA Temp (db/wb)	-	
SA Temp (db/wb)	-	

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Project: Dayton Public Radio TI (Dayton, OH)

Split Sys Furnace



Diffuser Supply (GRD)

AC-2/OFFICE 115

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
A2-1	OFFICE 113	A1	8	150			-
A2-2	OFFICE 114	A1	8	150			-
A2-3	OFFICE 115	A1	8	250			-
Total				550	0	0	0%

Diffuser Ret/Exh (GRD)

AC-2/OFFICE 115

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
RA2-1	OFFICE 113	B1	24X12	150				-
RA2-2	OFFICE 114	B1	24X12	150				-
RA2-3	OFFICE 115	B1	24X12	250				-
Total				550		0	0	0%

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Project: Dayton Public Radio TI (Dayton, OH)

System/Unit: Split Sys Furnace



Asset: AC-3

AREA:OFFICE 117

Unit Data		
	Design	Actual
MFG	NA	NA
Model Num	NA	NA
Serial Num	-	
Configuration	-	
Filter Size Size 1	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	
Motor Rpm	-	
Phase	-	
Voltage	-	
Amperage	-	

Test Data		
	Design	Actual
SF CFM	1077	
Motor Speed SetPt	-	
RL Voltage	208	
RL Amperage	-	
RA CFM	1027	
OA CFM	50	

Performance Data		
	Design	Actual
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.4	
OA Temp (db/wb)	-	
RA Temp (db/wb)	-	
MA Temp (db/wb)	-	
SA Temp (db/wb)	-	

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Diffuser Supply (GRD)

AC-3/OFFICE 117

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
A3-1	OFFICE 116	A1	8	200			-
A3-2	OFFICE 117	A1	8	200			-
A3-3	OFFICE 118	A1	8	200			-
A3-4	OPEN SPACE 103	LINEAR SLOT	12X48				
Total				600	0	0	0%

Diffuser Ret/Exh (GRD)

AC-3/OFFICE 117

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
RA3-1	OFFICE 118	B1	8	200				-
RA3-2	OFFICE 116	B1	8	200				-
RA3-3	OFFICE 117	B1	8	200				-
RA3-4	CORRIDOR 109	B2		400				-
Total				1000		0	0	0%

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Project: Dayton Public Radio TI (Dayton, OH)

System/Unit: Split Sys Furnace



Asset: AC-5

AREA:PRODUCTION STUDIO 106

Unit Data		
	Design	Actual
MFG	NA	NA
Model Num	NA	NA
Serial Num	-	
Configuration	-	
Filter Size Size 1	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	
Motor Rpm	-	
Phase	-	
Voltage	-	
Amperage	-	

Test Data		
	Design	Actual
SF CFM	625	
Motor Speed SetPt	-	
RL Voltage	208	
RL Amperage	-	
RA CFM	589	
OA CFM	36	

Performance Data		
	Design	Actual
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.4	
OA Temp (db/wb)	-	
RA Temp (db/wb)	-	
MA Temp (db/wb)	-	
SA Temp (db/wb)	-	

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Split Sys Furnace



Diffuser Supply (GRD)

AC-5/PRODUCTION STUDIO 106

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
A5-1	PRODUCTION STUDIO 106	A1	10	235			-
A5-2	PRODUCTION STUDIO 106	A1	10	235			-
A5-3	EDIT BOOTH 107	A1	10	150			-
Total				620	0	0	0%

Diffuser Ret/Exh (GRD)

AC-5/PRODUCTION STUDIO 106

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
RA5-1	EDIT BOOTH 107	B3	10	150				-
RA5-2	PRODUCTION STUDIO 106	B3	14	470				-
Total				620		0	0	0%

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Project: Dayton Public Radio TI (Dayton, OH)

System/Unit: Split Sys Furnace



Asset: AC-6

AREA:PERFORMANCE STUDIO 104

Unit Data		
	Design	Actual
MFG	NA	NA
Model Num	NA	NA
Serial Num	-	
Configuration	-	
Filter Size Size 1	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	
Motor Rpm	-	
Phase	-	
Voltage	-	
Amperage	-	

Test Data		
	Design	Actual
SF CFM	625	
Motor Speed SetPt	-	
RL Voltage	208	
RL Amperage	-	
RA CFM	595	
OA CFM	30	

Performance Data		
	Design	Actual
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.4	
OA Temp (db/wb)	-	
RA Temp (db/wb)	-	
MA Temp (db/wb)	-	
SA Temp (db/wb)	-	

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Split Sys Furnace



Diffuser Supply (GRD)

AC-6/PERFORMANCE STUDIO 104

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
A6-1	PERFORMANCE STUDIO 104	A1	12	300			-
A6-2	PERFORMANCE STUDIO 104	A1	12	300			-
Total				600	0	0	0%

Diffuser Ret/Exh (GRD)

AC-6/PERFORMANCE STUDIO 104

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
RA6-1	PERFORMANCE STUDIO 104	B3	21	300				-
RA6-2	PERFORMANCE STUDIO 104	B3	12	300				-
Total				600		0	0	0%

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Project: Dayton Public Radio TI (Dayton, OH)

System/Unit: Split Sys Furnace



Asset: AC-7

AREA: AIR STUDIO 105

Unit Data		
	Design	Actual
MFG	NA	NA
Model Num	NA	NA
Serial Num	-	
Configuration	-	
Filter Size Size 1	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	
Motor Rpm	-	
Phase	-	
Voltage	-	
Amperage	-	

Test Data		
	Design	Actual
SF CFM	495	
Motor Speed SetPt	-	
RL Voltage	208	
RL Amperage	-	
RA CFM	465	
OA CFM	30	

Performance Data		
	Design	Actual
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.4	
OA Temp (db/wb)	-	
RA Temp (db/wb)	-	
MA Temp (db/wb)	-	
SA Temp (db/wb)	-	

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Project: Dayton Public Radio TI (Dayton, OH)

Split Sys Furnace



Diffuser Supply (GRD)

AC-7/AIR STUDIO 105

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
A7-1	AIR STUDIO 105	A1	10	250			-
A7-2	AIR STUDIO 105	A1	10	250			-
Total				500	0	0	0%

Diffuser Ret/Exh (GRD)

AC-7/AIR STUDIO 105

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
RA7-1	AIR STUDIO 105	B3	14	500				-
Total				500		0	0	0%