

**Report By:**

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



**Report: Preliminary**  
**Function: Test, Adjust, & Balance**  
**Date: 07/19/2024**  
**Completed By: National TAB**

# PROJECT

## Sycamore HS Seger Natatorium (Montgomery, OH)

7400 Cornell Rd

Montgomery, OH 45242

### Client

TP Mechanical  
1500 Kemper Meadow Drive  
Cincinnati, OH 45240

# National TAB

Project: Sycamore HS Seger Natatorium (Montgomery, OH)

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# National TAB

Project: Sycamore HS Seger Natatorium (Montgomery, OH)

## System/Unit: AHU-DUAL FAN



Asset: AC-1

AREA:1201

UNIT DATA - SUPPLY		
	Design	Actual
Manufacturer	NA	SERESCO
Model Number	NA	CWT-061-NB-X-A6BBG303G2E5AF01H
Serial Number	-	23041810
No. Pre-Filters / Size (1)	-	(32) 20x20x2
No. Pre-Filters / Size (2)	-	(8) 16x20x2

TEST DATA - EXHAUST/RETURN		
	Design	Actual
Total CFM	25773	25454

MOTOR DATA - SUPPLY	
	Actual
Horsepower / RPM	7.5 x6
Rated Volts / Phase	460 / 3
Rated Amperage / SF	11.0 / 1.15

TEST DATA - SUPPLY		
	Design	Actual
Total CFM	30000	29330
OA CFM	6570	6274
VFD Speed	-	84%
RL Voltage	460	472 av
RL Amperage	11	6.8 av
Motor B.H.P.	-	5.4

PERFORMANCE DATA - SUPPLY		
	Design	Actual
Static Pressure Stpt	-	Na
Suction S.P.	-	-1.62
Discharge S.P.	-	1.65
Total S.P.	-	3.37
DX Coil P.D.	-	0.59
Total ESP	1.12	2.05

Completed By: Riley Frady on 09/10/2024

Notes:

Refrig Coil Temp Drop:

Inlet Temp = 84.3 DB / 67.1 WB with 41%RH

Outlet Temp = 55.7 DB / 50.1 WB with 69% RH

Written By: Nick Payne on 11/05/2024

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## AHU-DUAL FAN



### Diffuser Supply (GRD)

#### AC-1/1201

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-1	1201	SD-2	8	40	384	42	105.0
1-2	1201	SG-6	36X18	2000	3815	2088	104.4
1-3	1201	SD-2	8	100	283	105	105.0
1-4	1201	SG-6	36X18	2000	5101	2062	103.1
1-5	1201	SD-2	8	100	386	95	95.0
1-6	1201	SG-6	36X18	2000	6606	2085	104.3
1-7	1201	SD-2	8	100	449	101	101.0
1-8	1201	SG-6	36X18	2000	6636	1999	100.0
1-9	1201	DUCT		10830	4660	10448	96.5
1-10	1201	DUCT		10830	4216	10305	95.2
Total				30000	32536	29330	97.77%

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Project: Sycamore HS Seger Natatorium (Montgomery, OH)

System/Unit: FAN - Exhaust



Asset: EF-98-1

AREA:1201

Unit Data		
	Design	Actual
MFG	NA	Greenheck
Model Num	NA	CUE-140-7-VG-1-22-X
Serial Num	-	23787477
Type	CRE	UPBLAST

Test Data		
	Design	Actual
CFM	690	703
RL Voltage	-	120
RL Amperage	-	5.5
Total ESP	1.00	0.81

Motor Data		
	Design	Actual
Motor MFG	-	Varigreen
Frame	-	48
Horsepower	0.75	0.75
Motor Rpm	1550	1750
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	8.8
Service Factor	-	1.15

Completed By: Nick Payne on 11/05/2024

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## FAN - Exhaust



### Diffuser Ret/Exh (GRD)

#### EF-98-1/1201

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EF-98-1-EGRD1	EG	24X12	600		775	652	609	101.5
EF-98-1-EGRD2	EG	6X6	20		52	116	21	105.0
EF-98-1-EGRD3	EG	6X6	20		48	104	21	105.0
EF-98-1-EGRD4	EG	6X6	50		77	99	52	104.0
Total			690		952	971	703	101.88%