

Report By:

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



**Report: Test 1**

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

**Date: 10/17/2023**

# PROJECT

**Sheakley Bldg Exp and Reno (Cincinnati,  
OH)**

505 MADISON RD

CINCINNATI, OH

## Client

Triton Services, Inc.  
8162 Duke Boulevard  
Mason, OH 45040

# National TAB

Project: Sheakley Bldg Exp and Reno (Cincinnati, OH)

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# National TAB

Project: Sheakley Bldg Exp and Reno (Cincinnati, OH)

## System/Unit: Split Sys Furnace



Asset: FC-3

AREA:CLASSROOM 10

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Model Num	NA	59TP6B06
Serial Num	-	5122A58370
Configuration	-	VERTICAL
Filter Size Size 1	-	16x20x1

Motor Data		
	Design	Actual
Horsepower	-	0.75
Phase	1	1
Voltage	120	120
Amperage	-	10.9

Test Data		
	Design	Actual
SF CFM	1200	1160
Motor Speed SetPt	-	HIGH COOLING
RL Voltage	-	120
RL Amperage	-	8.9
RA CFM	1020	975
OA CFM	180	185

Performance Data		
	Design	Actual
Suction ESP	-	-0.19
Discharge ESP	-	-0.28
Total ESP	-	0.21

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Project: Sheakley Bldg Exp and Reno (Cincinnati, OH)

## Split Sys Furnace



### Diffuser Supply (GRD)

#### FC-3/CLASSROOM 10

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
F3-1	CLASSROOM 10	S-2	8	200	154	184	92.0
F3-2	CLASSROOM 10	S-2	8	200	162	195	97.5
F3-3	CLASSROOM 9	S-2	8	200	175	199	99.5
F3-4	CLASSROOM 9	S-2	8	200	118	205	102.5
F3-5	CLASSROOM 8	S-2	8	200	192	187	93.5
F3-6	CLASSROOM 8	S-2	8	200	165	190	95.0
Total				1200	966	1160	96.67%

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Project: Sheakley Bldg Exp and Reno (Cincinnati, OH)

## System/Unit: Split Sys Furnace



Asset: FC-4

AREA:CLASSROOM 6

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Model Num	NA	59TP6B08
Serial Num	-	0223A47597
Configuration	-	VERTICAL
Filter Size Size 1	-	20x25x1

Motor Data		
	Design	Actual
Horsepower	-	1
Phase	1	1
Voltage	120	120
Amperage	-	14.7

Test Data		
	Design	Actual
SF CFM	1700	1618
Motor Speed SetPt	-	HIGH COOLING
RL Voltage	-	120
RL Amperage	-	11.9
RA CFM	1460	1391
OA CFM	240	256

Performance Data		
	Design	Actual
Suction ESP	-	-0.23
Discharge ESP	-	-0.51
Total ESP	-	0.22

**Notes:**

Diffuser 4-3 is not installed to the ductwork, although there is a hole cut in the ceiling and a diffuser installed.

Written By: Nick Payne on 10/17/2023

# National TAB

Project: Sheakley Bldg Exp and Reno (Cincinnati, OH)

## Split Sys Furnace



### Diffuser Supply (GRD)

#### FC-4/CLASSROOM 6

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
F4-1	CLASSROOM 7	S-2	8	200	230	207	103.5
F4-2	CLASSROOM 7	S-2	8	200	150	210	105.0
F4-3	W CORRIDOR	S-1	6	100	0	0	0.0
F4-4	CLASSROOM 5	S-2	8	200	188	195	97.5
F4-5	CLASSROOM 5	S-2	8	200	226	187	93.5
F4-6	CLASSROOM 4	S-2	8	200	186	209	104.5
F4-7	CLASSROOM 4	S-2	8	200	144	199	99.5
F4-8	CLASSROOM 6	S-2	8	200	163	199	99.5
F4-9	CLASSROOM 6	S-2	8	200	188	212	106.0
Total				1700	1475	1618	95.18%

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Project: Sheakley Bldg Exp and Reno (Cincinnati, OH)

## System/Unit: FAN - Supply



Asset: SF-1

AREA:FC-4

Unit Data		
	Design	Actual
MFG	NA	Cook
Model Num	NA	90SQN
Serial Num	-	108PK35691-010000701
Type	INLINE	INLINE

Motor Data		
	Design	Actual
Horsepower	-	0.125
Phase	1	1
Voltage (rated)	120	120
Amperage (rated)	-	2.9

Test Data		
	Design	Actual
CFM	445	441
RL Voltage	-	120
RL Amperage	-	2.0
Suction ESP	-	-0.17
Discharge ESP	-	0.05
Total ESP	0.25	0.22

# National TAB

Project: Sheakley Bldg Exp and Reno (Cincinnati, OH)

## FAN - Supply



### Diffuser Supply (GRD)

#### SF-1/FC-4

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SF1-1	FC-3	DUCT	8	180	209	185	102.8
SF1-2	FC-4	DUCT	10	260	222	256	98.5
Total				440	431	441	100.23%

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Project: Sheakley Bldg Exp and Reno (Cincinnati, OH)

## System/Unit: FAN - Exhaust



Asset: EF-1

AREA:M RESTROOM 17

Unit Data		
	Design	Actual
MFG	NA	COOK
Model Num	NA	90SQN
Serial Num	-	108PK35691-01/0000702
Type	INLINE	INLINE

Test Data		
	Design	Actual
CFM	300	319
RL Voltage	-	121
RL Amperage	-	2.3

Motor Data		
	Design	Actual
Horsepower	-	0.125
Phase	1	1
Voltage (rated)	120	120
Amperage (rated)	-	2.9

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Project: Sheakley Bldg Exp and Reno (Cincinnati, OH)

## FAN - Exhaust



Diffuser Ret/Exh (GRD)

### EF-1/M RESTROOM 17

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
E1-1	E-1	8	150		120		167	111.3
E1-2	E-1	8	150		101		152	101.3
Total			300		221	0	319	106.33%

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Project: Sheakley Bldg Exp and Reno (Cincinnati, OH)

## System/Unit: FAN - Exhaust



Asset: EF-2

AREA:RESTROOM 25

Unit Data		
	Design	Actual
MFG	NA	Cook
Model Num	NA	SQ50
Type	CEILING	CEILING

Test Data		
	Design	Actual
CFM	50	47

Motor Data		
	Design	Actual
Phase	1	1
Voltage (rated)	120	120

# National TAB

Project: Sheakley Bldg Exp and Reno (Cincinnati, OH)

## System/Unit: FAN - Exhaust



Asset: EF-3

AREA: JANITOR 24

Unit Data		
	Design	Actual
MFG	NA	COOK
Model Num	NA	SQ50
Type	CEILING	CEILING

Test Data		
	Design	Actual
CFM	50	52

Motor Data		
	Design	Actual
Phase	1	1
Voltage (rated)	120	120

Notes:  
Not installed

Written By: Nick Payne on 09/15/2023

# National TAB

Project: Sheakley Bldg Exp and Reno (Cincinnati, OH)



## Diffuser Supply (GRD)

### BC1 AIR DEV/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
B1-1	BREAK	S-2	8	150	139	140	93.3
B1-2	S LOBBY	EX	8	180	162	178	98.9
B1-3	PRIV OFFICE 1	EX	6	100	185	105	105.0
B1-4	PRIV OFFICE 2	EX	8	150	138	152	101.3
B1-5	CLASSROOM 11	S-2	8	200	159	180	90.0
B1-6	CLASSROOM 11	S-2	8	200	162	184	92.0
B1-7	CLASSROOM 3	S-2	8	200	148	189	94.5
B1-8	COMFORT	S-1	6	60	117	62	103.3
B1-9	CLASSROOM 3	S-2	8	200	190	187	93.5
Total				1440	1400	1377	95.62%

### BC-2 AIR DEV/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
B2-1	N LOBBY 01N	EX	8	225	175	217	96.4
B2-2	F RESTROOM 15	S-2	8	100	182	106	106.0
B2-3	CLASSROOM 2	S-2	8	200	169	210	105.0
B2-4	CLASSROOM 2	S-2	8	200	192	204	102.0
B2-5	CLASSROOM 1	S-2	8	150	188	156	104.0
B2-6	CLASSROOM 1	S-2	8	150	205	158	105.3
B2-7	E CORRIDOR	EX	8	100	215	102	102.0
B2-8	BREAK	S-1	8	100	226	109	109.0
B2-9	BREAK	S-2	8	150	125	148	98.7
B2-10	CONFERENCE 22	S-2	8	200	184	192	96.0
B2-11	CONFERENCE 22	S-2	8	200	115	202	101.0
B2-12	COMFORT #1	EX	8	205	162	217	105.9
B2-13	STORAGE 20	EX	6	50	70	52	104.0
B2-14	E CORRIDOR	EX	8	100	117	94	94.0
Total				2130	2325	2167	101.74%

### FC-3/CLASSROOM 10

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
F3-1	CLASSROOM 10	S-2	8	200	154	184	92.0
F3-2	CLASSROOM 10	S-2	8	200	162	195	97.5
F3-3	CLASSROOM 9	S-2	8	200	175	199	99.5
F3-4	CLASSROOM 9	S-2	8	200	118	205	102.5
F3-5	CLASSROOM 8	S-2	8	200	192	187	93.5
F3-6	CLASSROOM 8	S-2	8	200	165	190	95.0
Total				1200	966	1160	96.67%

### FC-4/CLASSROOM 6

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
F4-1	CLASSROOM 7	S-2	8	200	230	207	103.5
F4-2	CLASSROOM 7	S-2	8	200	150	210	105.0
F4-3	W CORRIDOR	S-1	6	100	0	0	0.0
F4-4	CLASSROOM 5	S-2	8	200	188	195	97.5
F4-5	CLASSROOM 5	S-2	8	200	226	187	93.5
F4-6	CLASSROOM 4	S-2	8	200	186	209	104.5
F4-7	CLASSROOM 4	S-2	8	200	144	199	99.5
F4-8	CLASSROOM 6	S-2	8	200	163	199	99.5
F4-9	CLASSROOM 6	S-2	8	200	188	212	106.0
Total				1700	1475	1618	95.18%

**SF-1/FC-4**

<b>Asset</b>							
<b>Asset Name</b>	<b>Location</b>	<b>Type</b>	<b>Size</b>	<b>DESIGN CFM</b>	<b>CFM(1)</b>	<b>FINAL CFM</b>	<b>% to design</b>
SF1-1	FC-3	DUCT	8	180	209	185	102.8
SF1-2	FC-4	DUCT	10	260	222	256	98.5
Total				440	431	441	100.23%