

**Report By:**

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



**Report: TAB Report**  
**Function: Test, Adjust, & Balance**  
**Date: 04/01/2026**  
**Completed By: National TAB**

# PROJECT

## Bassett - Deerfield (Mason, OH)

5455 Deerfield Blvd

Mason, OH 45040

### Client

Champion Commercial HVAC  
2638 Tem Mile Rd.  
Melbourne, KY 41059

# National TAB

Project: Bassett - Deerfield (Mason, OH)

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## Issue List

- TEFB-1 & TEFB-2 High on flow



**Bassett - Deerfield (Mason, OH)**

**Project Issue Information**

**Issue Name :** TEFB-1 & TEFB-2 High on flow  
**Description :** Both ceiling mounted exhaust fans are high on flow @ ~180/75cfm. Recommend installing speed controllers to both to allow for balance.  
**Created By :** National TAB                      **Assigned To :** National TAB - Nick Payne  
**Status :** Open  
**Priority :** High                                      **Asset Tag :**  
**Originated Date :** 04/01/2026 - Aaron Cosby - National TAB

# National TAB

Project: Bassett - Deerfield (Mason, OH)  
System/Unit: AHU/RTU



Asset: EX-RTU-3

AREA:SALES

Unit Data	
	Actual
MFG	ICP
Serial Num	C155156
Model Num	RGS048
Configuration	VERTICAL
Num OA Filters 1	1
OA Filter Size 1	24"X8"
Num OA Filters 2	2
Num PreFilter 1	2
PreFilter Size 1	16"X25"X2"

Motor Data	
	Actual
Phase	3
Rated Voltage	460
Rated Amperage	2.6

Test Data		
	Design	Actual
SF CFM	1600	1596
SF RPM	-	1156
RA CFM	-	1596
OA CFM	0	0
RL Voltage	-	489/492/491
RL Amperage	-	1.1/1.2/1.1
SF System SetPt	-	2 TURNS OUT
OA Damper Position	-	0%

Performance Data		
	Design	Actual
Fan Suction SP	-	-1.16"
Fan Discharge SP	-	0.15"
Total ESP	-	1.31"

Completed By: Aaron Cosby on 04/01/2026

**National TAB**  
 Project: Bassett - Deerfield (Mason, OH)  
**AHU/RTU**



**Diffuser Supply (GRD)**

**EX-RTU-3/SALES**

<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>
3-1	BOH	CD	12	400	0	425	106.3
3-2	BOH	CD	12	400	0	404	101.0
3-3	BOH	CD	12	400	0	389	97.3
3-4	BOH	CD	12	400	0	378	94.5
<b>Total</b>				1600	0	1596	99.75%

# National TAB

Project: Bassett - Deerfield (Mason, OH)

## System/Unit: AHU/RTU



Asset: EX-RTU-4

AREA:SALES

Unit Data	
	Actual
MFG	ICP
Serial Num	C161766
Model Num	RGS036
Configuration	VERTICAL
Num OA Filters 1	1
OA Filter Size 1	24"X8"
Num PreFilter 1	2
PreFilter Size 1	16"X25"X2"

Motor Data	
	Actual
Phase	3
Rated Voltage	460
Rated Amperage	2.6

Test Data		
	Design	Actual
SF CFM	940	944
SF RPM	-	1101
RA CFM	-	944
OA CFM	0	0
RL Voltage	-	487/491/489
RL Amperage	-	1.0/NA/NA
SF System SetPt	-	3 TURNS OUT
OA Damper Position	-	0%

Performance Data		
	Design	Actual
Fan Suction SP	-	-1.00"
Fan Discharge SP	-	0.12"
Total ESP	-	1.12"

Completed By: Aaron Cosby on 04/01/2026

# National TAB

Project: Bassett - Deerfield (Mason, OH)

## AHU/RTU



**Diffuser Supply (GRD)**

**EX-RTU-4/SALES**

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
4-1	CD	CD	8	180	122	176	97.8
4-2	CD	CD	8	200	97	192	96.0
4-3	CD	CD	8	180	133	189	105.0
4-4	CD-B	CD-B	8	55	132	54	98.2
4-5	CD-B	CD-B	8	55	112	57	103.6
4-6	CD-B	CD-B	8	150	112	154	102.7
4-7	CD	CD	8	120	134	122	101.7
Total				940	842	944	100.43%

# National TAB

Project: Bassett - Deerfield (Mason, OH)  
System/Unit: AHU/RTU



Asset: EX-RTU-7

AREA:

Unit Data	
	Actual
<b>MFG</b>	CARRIER
<b>Serial Num</b>	3519C619
<b>Model Num</b>	48FCEA05
<b>Configuration</b>	VERTICAL
<b>Num OA Filters 1</b>	0
<b>Num PreFilter 1</b>	2
<b>PreFilter Size 1</b>	16"X25"X2"

Motor Data	
	Actual
<b>Phase</b>	3
<b>Rated Voltage</b>	460
<b>Rated Amperage</b>	1.5

Test Data		
	Design	Actual
<b>SF CFM</b>	1600	1528
<b>SF RPM</b>	-	2121
<b>RA CFM</b>	-	1528
<b>OA CFM</b>	0	0
<b>RL Voltage</b>	-	489/491/489
<b>RL Amperage</b>	-	1.5/1.4/1.4
<b>SF System SetPt</b>	-	9.8 VDC
<b>OA Damper Position</b>	-	0%

Performance Data		
	Design	Actual
<b>Fan Suction SP</b>	-	-1.54"
<b>Fan Discharge SP</b>	-	0.35"
<b>Total ESP</b>	-	1.89"

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# National TAB

Project: Bassett - Deerfield (Mason, OH)

## AHU/RTU



**Diffuser Supply (GRD)**

**EX-RTU-7/**

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
7-1	SALES	CD	12	400	327	382	95.5
7-2	SALES	CD	12	400	304	376	94.0
7-3	SALES	CD	12	400	322	392	98.0
7-4	SALES	CD	12	400	327	378	94.5
Total				1600	1280	1528	95.5%

# National TAB

Project: Bassett - Deerfield (Mason, OH)  
System/Unit: AHU/RTU



Asset: EX-RTU-8

AREA:

Unit Data	
	Actual
MFG	ICP
Serial Num	C161766860
Model Num	RGS036
Configuration	VERTICAL
Num OA Filters 1	1
OA Filter Size 1	24"X8"
Num PreFilter 1	2
PreFilter Size 1	16"X25"X2"

Motor Data	
	Actual
Phase	3
Rated Voltage	460
Rated Amperage	2.6

Test Data		
	Design	Actual
SF CFM	1200	1251
SF RPM	-	1079
RA CFM	-	1251
OA CFM	0	0
RL Voltage	-	491/491/492
RL Amperage	-	1.0/NA/NA
SF System SetPt	-	100%

Performance Data		
	Design	Actual
Fan Suction SP	-	-1.00"
Fan Discharge SP	-	0.13"
Total ESP	-	1.13"

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**National TAB**  
 Project: Bassett - Deerfield (Mason, OH)  
**AHU/RTU**



**Diffuser Supply (GRD)**

**EX-RTU-8/**

<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>
8-1	SALES	CD	10	300	312	312	104.0
8-2	SALES	CD	10	300	322	322	107.3
8-3	SALES	CD	10	300	309	309	103.0
8-4	SALES	CD	10	300	308	308	102.7
Total				1200	1251	1251	104.25%

# National TAB

Project: Bassett - Deerfield (Mason, OH)

## System/Unit: AHU/RTU



Asset: RTU-1

AREA:

Unit Data	
	Actual
<b>MFG</b>	CARRIER
<b>Serial Num</b>	5225P694
<b>Model Num</b>	48FEEN08
<b>Configuration</b>	VERTICAL
<b>Num OA Filters 1</b>	1
<b>OA Filter Size 1</b>	35"X21"
<b>Num PreFilter 1</b>	4
<b>PreFilter Size 1</b>	20"X25"X2"

Motor Data	
	Actual
<b>Horsepower</b>	2.4
<b>Phase</b>	3
<b>Rated Voltage</b>	460
<b>Rated Amperage</b>	3.0

Test Data		
	Design	Actual
<b>SF CFM</b>	3000	3031
<b>SF RPM</b>	-	1893
<b>RA CFM</b>	2847	2870
<b>OA CFM</b>	153	161
<b>RL Voltage</b>	460	490/491/489
<b>RL Amperage</b>	-	2.9/2.9/.28
<b>SF System SetPt</b>	-	8.9 VDC
<b>OA Damper Position</b>	-	2.2 V

Performance Data		
	Design	Actual
<b>Fan Suction SP</b>	-	-1.29"
<b>Fan Discharge SP</b>	-	0.78"
<b>Total ESP</b>	1.0	2.07"

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**National TAB**  
 Project: Bassett - Deerfield (Mason, OH)  
**AHU/RTU**



**Diffuser Supply (GRD)**

**RTU-1/**

<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>
1-1	SALES	CD	12	375	322	377	100.5
1-2	SALES	CD	12	375	278	401	106.9
1-3	SALES	CD	12	375	309	392	104.5
1-4	SALES	CD	12	375	354	371	98.9
1-5	SALES	CD	12	375	382	378	100.8
1-6	SALES	CD	12	375	396	356	94.9
1-7	SALES	CD	12	375	309	389	103.7
1-8	SALES	CD	12	375	318	367	97.9
<b>Total</b>				<b>3000</b>	<b>2668</b>	<b>3031</b>	<b>101.03%</b>

# National TAB

Project: Bassett - Deerfield (Mason, OH)  
System/Unit: AHU/RTU



Asset: RTU-2

AREA:

Unit Data	
	Actual
<b>MFG</b>	CARRIER
<b>Serial Num</b>	5225P69
<b>Model Num</b>	48FEEN08
<b>Configuration</b>	VERTICAL
<b>Num OA Filters 1</b>	1
<b>OA Filter Size 1</b>	35"X19"
<b>Num PreFilter 1</b>	4
<b>PreFilter Size 1</b>	20"X25"X2"

Motor Data	
	Actual
<b>Horsepower</b>	2.4
<b>Phase</b>	3
<b>Rated Voltage</b>	460
<b>Rated Amperage</b>	3

Test Data		
	Design	Actual
<b>SF CFM</b>	3000	3114
<b>SF RPM</b>	-	1650
<b>RA CFM</b>	2143	2286
<b>OA CFM</b>	857	828
<b>RL Voltage</b>	460	491/490/490
<b>RL Amperage</b>	-	0.7/0.8/0.6
<b>SF System SetPt</b>	-	7.7 VDC
<b>OA Damper Position</b>	-	5.0 V

Performance Data		
	Design	Actual
<b>Fan Suction SP</b>	-	-0.98"
<b>Fan Discharge SP</b>	-	0.41"
<b>Total ESP</b>	1.0	1.39"

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**National TAB**  
 Project: Bassett - Deerfield (Mason, OH)  
**AHU/RTU**



**Diffuser Supply (GRD)**

**RTU-2/**

<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>
2-1	SALES	CD	10	300	304	304	101.3
2-2	SALES	CD	10	300	314	314	104.7
2-3	SALES	CD	10	300	322	322	107.3
2-4	SALES	CD	10	300	307	307	102.3
2-5	SALES	CD	10	300	289	289	96.3
2-6	SALES	CD	10	300	301	301	100.3
2-7	SALES	CD	10	300	327	327	109.0
2-8	SALES	CD	10	300	313	313	104.3
2-9	SALES	CD	10	300	317	317	105.7
2-10	SALES	CD	10	300	320	320	106.7
<b>Total</b>				3000	3114	3114	103.8%

# National TAB

Project: Bassett - Deerfield (Mason, OH)  
System/Unit: AHU/RTU



Asset: RTU-5

AREA:

Unit Data	
	Actual
<b>MFG</b>	CARRIER
<b>Serial Num</b>	5225P6
<b>Model Num</b>	NA
<b>Configuration</b>	VERTICAL
<b>Num OA Filters 1</b>	1
<b>OA Filter Size 1</b>	36"X20"
<b>Num PreFilter 1</b>	4
<b>PreFilter Size 1</b>	20"X25"X2"

Motor Data	
	Actual
<b>Horsepower</b>	2.4
<b>Phase</b>	3
<b>Rated Voltage</b>	460
<b>Rated Amperage</b>	3.0

Test Data		
	Design	Actual
<b>SF CFM</b>	2470	2575
<b>SF RPM</b>	-	1594
<b>RA CFM</b>	1684	1769
<b>OA CFM</b>	786	806
<b>RL Voltage</b>	460	496/498/498
<b>RL Amperage</b>	-	1.8/1.5/1.6
<b>SF System SetPt</b>	-	7.4 VDC
<b>OA Damper Position</b>	-	4.4 V

Performance Data		
	Design	Actual
<b>Fan Suction SP</b>	-	-0.96"
<b>Fan Discharge SP</b>	-	0.28"
<b>Total ESP</b>	1.0	1.24"

Completed By: Aaron Cosby on 03/10/2026

**National TAB**  
 Project: Bassett - Deerfield (Mason, OH)  
**AHU/RTU**



**Diffuser Supply (GRD)**

**RTU-5/**

<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>
5-1	LOBBY	CD	12	470	515	515	109.6
5-2	LOBBY	CD	12	470	502	502	106.8
5-3	LOBBY	CD	10	255	274	274	107.5
5-4	LOBBY	CD	10	255	262	262	102.7
5-5	LOBBY	CD	10	255	269	269	105.5
5-6	LOBBY	CD	10	255	251	251	98.4
5-7	LOBBY	CD	10	255	244	244	95.7
5-8	LOBBY	CD	10	255	258	258	101.2
<b>Total</b>				<b>2470</b>	<b>2575</b>	<b>2575</b>	<b>104.25%</b>

# National TAB

Project: Bassett - Deerfield (Mason, OH)  
System/Unit: AHU/RTU



Asset: RTU-6

AREA:

Unit Data	
	Actual
<b>MFG</b>	CARRIER
<b>Serial Num</b>	5225P69
<b>Model Num</b>	48FEEN08
<b>Configuration</b>	VERTICAL
<b>Num OA Filters 1</b>	1
<b>OA Filter Size 1</b>	36"X20"
<b>Num PreFilter 1</b>	4
<b>PreFilter Size 1</b>	20"X25"X2"

Motor Data	
	Actual
<b>Horsepower</b>	2.4
<b>Phase</b>	3
<b>Rated Voltage</b>	460
<b>Rated Amperage</b>	3.0

Test Data		
	Design	Actual
<b>SF CFM</b>	3000	3103
<b>SF RPM</b>	-	1822
<b>RA CFM</b>	2578	2694
<b>OA CFM</b>	422	409
<b>RL Voltage</b>	460	489/489/486
<b>RL Amperage</b>	-	1.9/2.2/2.5
<b>SF System SetPt</b>	-	8.5 VDC
<b>OA Damper Position</b>	-	3.2 V

Performance Data		
	Design	Actual
<b>Fan Suction SP</b>	-	-1.11"
<b>Fan Discharge SP</b>	-	0.73"
<b>Total ESP</b>	1.0	1.84"

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**National TAB**  
 Project: Bassett - Deerfield (Mason, OH)  
**AHU/RTU**



**Diffuser Supply (GRD)**

**RTU-6/**

<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>
6-1	LOBBY	CD	12	500	505	505	101.0
6-2	LOBBY	CD	12	500	533	533	106.6
6-3	LOBBY	CD	12	500	540	540	108.0
6-4	LOBBY	CD	12	500	524	524	104.8
6-5	LOBBY	CD	12	500	512	512	102.4
6-6	LOBBY	CD	12	500	489	489	97.8
<b>Total</b>				<b>3000</b>	<b>3103</b>	<b>3103</b>	<b>103.43%</b>

# National TAB

Project: Bassett - Deerfield (Mason, OH)  
System/Unit: FAN - Exhaust



Asset: TEFA-1

AREA:

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	SP-A200
Serial Num	-	28492348
Type	-	CEILING

Test Data		
	Design	Actual
CFM	200	189
RL Voltage	115	115
RL Amperage	-	NA
Suction ESP	-	NA
Discharge ESP	-	ATM
Total ESP	0.40	NA

Motor Data	
	Actual
Motor MFG	GREENHECK
Horsepower	0.0025
Motor Rpm	900
Phase	1
Voltage (rated)	115
Amperage (rated)	0.46

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# National TAB

Project: Bassett - Deerfield (Mason, OH)  
System/Unit: FAN - Exhaust



Asset: TEFB-1

AREA:

Unit Data	
	Actual
MFG	GREENHECK
Model Num	SP-A200
Serial Num	284923339
Type	CEILING

Motor Data		
	Design	Actual
Motor MFG	-	GREENHECK
Horsepower	-	0.025
Motor Rpm	-	900
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	0.46

Test Data		
	Design	Actual
CFM	75	176
RL Voltage	115	115
RL Amperage	-	NA
Suction ESP	-	NA
Discharge ESP	-	ATM
Total ESP	0.40	NA

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# National TAB

Project: Bassett - Deerfield (Mason, OH)  
System/Unit: FAN - Exhaust



Asset: TEFB-2

AREA:

Unit Data	
	Actual
<b>MFG</b>	GREENHECK
<b>Model Num</b>	SP-A200
<b>Serial Num</b>	284923386
<b>Type</b>	CEILING

Motor Data	
	Actual
<b>Motor MFG</b>	GREENHECK
<b>Horsepower</b>	0.025
<b>Motor Rpm</b>	900
<b>Phase</b>	1
<b>Voltage (rated)</b>	115
<b>Amperage (rated)</b>	0.46

Test Data		
	Design	Actual
<b>CFM</b>	75	188
<b>RL Voltage</b>	115	115
<b>RL Amperage</b>	-	NA
<b>Suction ESP</b>	-	NA
<b>Discharge ESP</b>	-	ATM
<b>Total ESP</b>	0.40	NA

Completed By: Aaron Cosby on 04/01/2026