

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

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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

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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

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



Diffuser Supply (GRD)

EX-RTU-3/SALES

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
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
Total				1600	0	1596	99.75%

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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

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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%

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



Asset: EX-RTU-7

AREA:

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

Motor Data	
	Actual
Phase	3
Rated Voltage	460
Rated Amperage	1.5

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

Performance Data		
	Design	Actual
Fan Suction SP	-	-1.54"
Fan Discharge SP	-	0.35"
Total ESP	-	1.89"

Completed By: Aaron Cosby on 04/01/2026

Notes:
Missing diffusers

Written By: Aaron Cosby on 03/10/2026

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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%

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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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Project: Bassett - Deerfield (Mason, OH)

AHU/RTU



Diffuser Supply (GRD)

EX-RTU-8/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
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%

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



Asset: RTU-1

AREA:

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

Motor Data	
	Actual
Horsepower	2.4
Phase	3
Rated Voltage	460
Rated Amperage	3.0

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

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

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



Diffuser Supply (GRD)

RTU-1/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
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
Total				3000	2668	3031	101.03%

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



Asset: RTU-2

AREA:

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

Motor Data	
	Actual
Horsepower	2.4
Phase	3
Rated Voltage	460
Rated Amperage	3

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

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

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Project: Bassett - Deerfield (Mason, OH)

AHU/RTU



Diffuser Supply (GRD)

RTU-2/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
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
Total				3000	3114	3114	103.8%

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Project: Bassett - Deerfield (Mason, OH)

System/Unit: AHU/RTU



Asset: RTU-5

AREA:

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

Motor Data	
	Actual
Horsepower	2.4
Phase	3
Rated Voltage	460
Rated Amperage	3.0

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

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

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Project: Bassett - Deerfield (Mason, OH)

AHU/RTU



Diffuser Supply (GRD)

RTU-5/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
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
Total				2470	2575	2575	104.25%

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Project: Bassett - Deerfield (Mason, OH)

System/Unit: AHU/RTU



Asset: RTU-6

AREA:

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

Motor Data	
	Actual
Horsepower	2.4
Phase	3
Rated Voltage	460
Rated Amperage	3.0

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

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

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Project: Bassett - Deerfield (Mason, OH)

AHU/RTU



Diffuser Supply (GRD)

RTU-6/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
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
Total				3000	3103	3103	103.43%

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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
Motor Frequency	-	
System SetPt	-	
RL Voltage	115	115
RL Amperage	-	NA
Suction ESP	-	NA
Discharge ESP	-	ATM
Total ESP	0.40	NA
Brake Horse Power	-	

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

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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
Frame	-	
Horsepower	-	0.025
Motor Rpm	-	900
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	0.46
Service Factor	-	

Test Data		
	Design	Actual
CFM	75	176
Motor Frequency	-	
System SetPt	-	
RL Voltage	115	115
RL Amperage	-	NA
Suction ESP	-	NA
Discharge ESP	-	ATM
Total ESP	0.40	NA
Brake Horse Power	-	

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



Asset: TEFB-2

AREA:

Unit Data	
	Actual
MFG	GREENHECK
Model Num	SP-A200
Serial Num	284923386
Type	CEILING

Motor Data	
	Actual
Motor MFG	GREENHECK
Frame	
Horsepower	0.025
Motor Rpm	900
Phase	1
Voltage (rated)	115
Amperage (rated)	0.46
Service Factor	

Test Data		
	Design	Actual
CFM	75	188
Motor Frequency	-	
System SetPt	-	
RL Voltage	115	115
RL Amperage	-	NA
Suction ESP	-	NA
Discharge ESP	-	ATM
Total ESP	0.40	NA
Brake Horse Power	-	

Completed By: Aaron Cosby on 04/01/2026