

Report By:

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



Report: Prelim

Function: Test, Adjust, & Balance

Date: 03/10/2026

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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National TAB

Project: Bassett- Deerfield (Mason, OH)

System/Unit: AHU/RTU



Asset: EX-RTU-3

AREA:

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	
SF RPM	-	
RA CFM	-	
OA CFM	-	
RL Voltage	-	
RL Amperage	-	
SF System SetPt	-	
OA Damper Position	-	

Performance Data		
	Design	Actual
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	-	

Notes:
Missing diffusers

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Project: Bassett- Deerfield (Mason, OH)

AHU/RTU



Diffuser Supply (GRD)

EX-RTU-3/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3-1		CD	12	400			-
3-2		CD	12	400			-
3-3		CD	12	400			-
3-4		CD	12	400			-
Total				1600	0	0	0%

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Project: Bassett- Deerfield (Mason, OH)

System/Unit: AHU/RTU



Asset: EX-RTU-4

AREA:

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	
SF RPM	-	
RA CFM	-	
OA CFM	-	
RL Voltage	-	
RL Amperage	-	
SF System SetPt	-	
OA Damper Position	-	

Performance Data		
	Design	Actual
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)	-	

Notes:
Missing diffusers

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Project: Bassett- Deerfield (Mason, OH)

AHU/RTU



Diffuser Supply (GRD)

EX-RTU-4/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
4-1	CD	CD	8	180			-
4-2	CD	CD	8	200			-
4-3	CD	CD	8	180			-
4-4	CD-B	CD-B	8	55			-
4-5	CD-B	CD-B	8	55			-
4-6	CD-B	CD-B	8	150			-
4-7	CD	CD	8	120			-
Total				940	0	0	0%

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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	
SF RPM	-	
RA CFM	-	
OA CFM	-	
RL Voltage	-	
RL Amperage	-	
SF System SetPt	-	
OA Damper Position	-	

Performance Data		
	Design	Actual
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	-	

Notes:
Missing diffusers

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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		CD	12	400			-
7-2		CD	12	400			-
7-3		CD	12	400			-
7-4		CD	12	400			-
Total				1600	0	0	0%

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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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AHU/RTU



Diffuser Supply (GRD)

EX-RTU-8/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
8-1		CD	10	300	312	312	104.0
8-2		CD	10	300	322	322	107.3
8-3		CD	10	300	309	309	103.0
8-4		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	
SF RPM	-	
RA CFM	2847	
OA CFM	153	
RL Voltage	460	
RL Amperage	-	
SF System SetPt	-	
OA Damper Position	-	

Performance Data		
	Design	Actual
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	1.0	

Notes:
Missing diffusers

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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		CD	12	375			-
1-2		CD	12	375			-
1-3		CD	12	375			-
1-4		CD	12	375			-
1-5		CD	12	375			-
1-6		CD	12	375			-
1-7		CD	12	375			-
1-8		CD	12	375			-
Total				3000	0	0	0%

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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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AHU/RTU



Diffuser Supply (GRD)

RTU-2/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-1		CD	10	300	304	304	101.3
2-2		CD	10	300	314	314	104.7
2-3		CD	10	300	322	322	107.3
2-4		CD	10	300	307	307	102.3
2-5		CD	10	300	289	289	96.3
2-6		CD	10	300	301	301	100.3
2-7		CD	10	300	327	327	109.0
2-8		CD	10	300	313	313	104.3
2-9		CD	10	300	317	317	105.7
2-10		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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AHU/RTU



Diffuser Supply (GRD)

RTU-5/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
5-1		CD	12	470	515	515	109.6
5-2		CD	12	470	502	502	106.8
5-3		CD	10	255	274	274	107.5
5-4		CD	10	255	262	262	102.7
5-5		CD	10	255	269	269	105.5
5-6		CD	10	255	251	251	98.4
5-7		CD	10	255	244	244	95.7
5-8		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		CD	12	500	505	505	101.0
6-2		CD	12	500	533	533	106.6
6-3		CD	12	500	540	540	108.0
6-4		CD	12	500	524	524	104.8
6-5		CD	12	500	512	512	102.4
6-6		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	NA
Model Num	NA	NA
Serial Num	-	
Type	-	CEILING

Test Data		
	Design	Actual
CFM	200	
Motor Frequency	-	
System SetPt	-	
RL Voltage	115	
RL Amperage	-	
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.40	
Brake Horse Power	-	

Motor Data	
	Actual
Motor MFG	
Frame	
Horsepower	
Motor Rpm	
Phase	
Voltage (rated)	
Amperage (rated)	
Service Factor	

Notes:

Ducted but fan not installed

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



Asset: TEFB-1

AREA:

Unit Data	
	Actual
MFG	NA
Model Num	NA
Serial Num	
Type	CEILING

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

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

Notes:

Ducted but fan not installed

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



Asset: TEFB-2

AREA:

Unit Data	
	Actual
MFG	NA
Model Num	NA
Serial Num	
Type	CEILING

Motor Data	
	Actual
Motor MFG	
Frame	
Horsepower	
Motor Rpm	
Phase	
Voltage (rated)	
Amperage (rated)	
Service Factor	

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

Notes:
Ducted but fan not installed

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