

Report By:

National TAB



Report: Dutch Bros

Function: Test, Adjust, & Balance

Date: 08/12/2025

Completed By: National TAB

PROJECT

08-11-25 DUTCH BROTHERS MUNCIE, IN

1111 EAST MCGALLIARD RD

MUNCIE, IN

Client

NCA Consultants

6510 125TH AVE NORTH

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LARGO, FL 33773

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Project: 08-11-25 DUTCH BROTHERS MUNCIE, IN

System/Unit: AHU/RTU



Asset: RTU1

AREA:WHOLE BUILDING

Unit Data		
	Design	Actual
MFG	CARRIER	CARRIER
Serial Num	-	2824C05709
Model Num	50GCQJ04	50GCQJ04
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	28"x14"
Num Final Filter 1	-	2
Final Filter Size 1	-	16"x24"

Motor Data		
	Design	Actual
Motor MFG	-	INACCESSIBLE
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	5.1

Drive Data	
	Actual
Motor Sheave Size	DD
Motor Bore Size	DD
Motor Sheave SetPt	DD
Fan Sheave Size	DD
Fan Sheave Bore	DD
Belt CL Distance	DD
Num of Belts	DD
Belt Size	DD
Belt Alignment	DD

Test Data		
	Design	Actual
SF CFM	1200	1227
RA CFM	1080	1116
OA CFM	120	111
RL Voltage	-	211/210/213
RL Amperage	-	1.3/1.4/1.4
SF Rotation	-	CCW
SF System SetPt	-	8.8 VDC
RA Damper Position	-	MECHANICALLY LINKED
Min OA Damper Position	-	19%
Min OA Damper Type	-	OPPOSABLE BLADE

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.25"
Fan Suction SP	-	-0.40"
Fan Discharge SP	-	0.15"
Total ESP	-	0.65"
Fan Total SP	-	0.55"

General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	YES
Condensate Drain Installed	YES

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Project:08-11-25 DUTCH BROTHERS MUNCIE, IN

AHU/RTU



Diffuser Supply (GRD)

RTU1/WHOLE BUILDING

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	PRODUCTION	S1	10"	300	1	190	313	313	104.3
SGRD2	PRODUCTION	S1	10"	300	1	319	284	284	94.7
SGRD3	PRODUCTION	S1	10"	300	1	379	328	328	109.3
SGRD4	PRODUCTION	S1	10"	300	1	345	302	302	100.7
Total				1200		1233	1227	1227	102.25%

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Project: 08-11-25 DUTCH BROTHERS MUNCIE, IN

System/Unit: AHU/RTU



Asset: RTU2

AREA:WHOLE BUILDING

Unit Data		
	Design	Actual
MFG	CARRIER	CARRIER
Serial Num	-	1423C05445
Model Num	50GCQJ04	50GCQJ04
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	28"x14"
Num Final Filter 1	-	2
Final Filter Size 1	-	16"x24"

Motor Data		
	Design	Actual
Motor MFG	-	INACCESSIBLE
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	5.1

Drive Data	
	Actual
Motor Sheave Size	DD
Motor Bore Size	DD
Motor Sheave SetPt	DD
Fan Sheave Size	DD
Fan Sheave Bore	DD
Belt CL Distance	DD
Num of Belts	DD
Belt Size	DD
Belt Alignment	DD

Test Data		
	Design	Actual
SF CFM	1200	1179
RA CFM	1080	1049
OA CFM	120	130
RL Voltage	-	211/213/209
RL Amperage	-	1.25/1.3/1.2
SF Rotation	-	CCW
SF System SetPt	-	8.78 VDC
RA Damper Position	-	MECHANICALLY LINKED
Min OA Damper Position	-	18%
Min OA Damper Type	-	OPPOSABLE BLADE

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.19"
Fan Suction SP	-	-0.34"
Fan Discharge SP	-	0.24"
Total ESP	-	0.53"
Fan Total SP	-	0.58"

General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	YES
Condensate Drain Installed	YES

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Project:08-11-25 DUTCH BROTHERS MUNCIE, IN

AHU/RTU



Diffuser Supply (GRD)

RTU2/WHOLE BUILDING

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	RESTROOM	S2	6"	50	1	76	55	55	110.0
SGRD2	PRODUCTION	S1	10"	400	1	320	297	405	101.3
SGRD3	PRODUCTION	S1	10"	350	1	509	428	348	99.4
SGRD4	PRODUCTION	S1	10"	400	1	390	355	371	92.8
Total				1200		1295	1135	1179	98.25%

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Project: 08-11-25 DUTCH BROTHERS MUNCIE, IN

System/Unit: FAN - Exhaust



Asset: EF1

AREA:RESTROOM

Unit Data		
	Design	Actual
MFG	COOKE	COOKE
Model Num	GC-148	GC-148
Serial Num	-	GEMINI 140 SERIES
Type	CCW CEILING	CCW CIELING
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	QUEACE
Horsepower	29W	15W
Motor Rpm	-	1550
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	0.4

Test Data		
	Design	Actual
CFM	75	69
Fan Rotation	-	CCW
System SetPt	-	ONE SPEED
RL Voltage	-	INACCESSIBLE
RL Amperage	-	0.25
Total ESP	0.4"	CEILING MOUNTED
Fan Inlet SP	-	CEILING MOUNTED
Fan Discharge SP	-	ATM

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