

Report By:

National TAB
1329 E. KEMPER ROAD
SUITE 4210
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Report: TAB Report
Function: Test, Adjust, & Balance
Date: 05/13/2025
Completed By: National TAB

PROJECT
Rosen Laundry (Orlando, FL)

4100 Destination Parkway

Orlando, FL 32819

Client

Shaw Mechanical Services
350 State Road 434 West

Longwood, FL 32750

National TAB

Project: Rosen Laundry (Orlando, FL)

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National TAB

Project: Rosen Laundry (Orlando, FL)
System/Unit: AHU/RTU



Asset: RTU-5

AREA:

Unit Data		
	Design	Actual
MFG	NA	CAPTIVE AIRE
Serial Num	-	6252085
Model Num	NA	CAS-HVAC4-E.904-30-40T
Configuration	VERTICAL	HORIZONTAL
Num OA Filters 1	-	8
OA Filter Size 1	-	20X20X2
Num PreFilter 1	-	24
PreFilter Size 1	-	20X20X2

Test Data		
	Design	Actual
SF CFM	8000	7919
RA CFM	4000	3861
OA CFM	4000	4058
RL Voltage	460	468V VFD
RL Amperage	-	9.6A VFD
OA Damper Position	-	4.70VDC
Brake Horse Power	-	-

Motor Data		
	Design	Actual
Motor MFG	-	TECO WESTINGHOUSE
Frame	-	254T
Horsepower	7.50	7.5
Motor Rpm	-	1170
Phase	3	3
Rated Voltage	460	230/460
Rated Amperage	-	20.2/10.1
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.16" [2]
Fan Suction SP	-	-0.92"
Fan Discharge SP	-	0.53"
Total ESP	1.00	
Fan Total SP	-	
Cooling Coil P.D.	-	

Notes:
[1] Setpoint: 60.6Hz - Set via duct traverse.
[2] Taken in return duct.

Written By: Stephen Tassinaro on 05/13/2025

Unit Data - PHOTO LOG



04/28/2025



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Project: Rosen Laundry (Orlando, FL)

AHU/RTU



Diffuser Supply (GRD)

RTU-5/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	111	U	12	600			-
SGRD2		J1	16	1480			-
SGRD3		J1	16	1480			-
SGRD4		J1	16	1480			-
SGRD5		J1	16	1480			-
SGRD6		J1	16	1480			-
Total				8000	0	0	0%

Diffuser Ret/Exh (GRD)

RTU-5/

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	M	24X24	4000					-
Total			4000		0	0	0	0%

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Project: Rosen Laundry (Orlando, FL)
System/Unit: AHU/RTU



Asset: RTU-6

AREA:

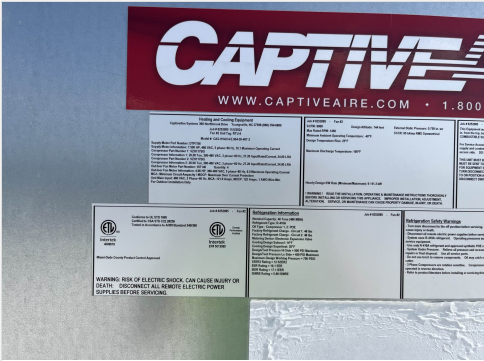
Unit Data		
	Design	Actual
MFG	NA	CAPTIVE AIRE
Serial Num	-	6252085
Model Num	NA	CAS-HVAC4-E.904-30-40T
Configuration	VERTICAL	HORIZONTAL
Num OA Filters 1	-	8
OA Filter Size 1	-	20X20X2
Num PreFilter 1	-	24
PreFilter Size 1	-	20X20X2

Test Data		
	Design	Actual
SF CFM	8000	8066
RA CFM	4000	3921
OA CFM	4000	
RL Voltage	460	448V VFD
RL Amperage	-	9.0A VFD
OA Damper Position	-	5.2V
Brake Horse Power	-	

Motor Data		
	Design	Actual
Motor MFG	-	TECO WESTINGHOUSE
Frame	-	254T
Horsepower	7.50	7.5
Motor Rpm	-	1170
Phase	3	3
Rated Voltage	460	230/460
Rated Amperage	-	20.2/10.1
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.22"
Fan Suction SP	-	-0.86"
Fan Discharge SP	-	0.47"
Total ESP	1.00	
Fan Total SP	-	
Cooling Coil P.D.	-	

Unit Data - PHOTO LOG



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Project: Rosen Laundry (Orlando, FL)

AHU/RTU



Diffuser Supply (GRD)

RTU-6/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1		J3	16	2700			-
SGRD2		J3	16	2700			-
SGRD3		J3	16	2600			-
Total				8000	0	0	0%

Diffuser Ret/Exh (GRD)

RTU-6/

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	M	24X24	4000					-
Total			4000		0	0	0	0%

National TAB

Project: Rosen Laundry (Orlando, FL)
System/Unit: FAN - Exhaust



Asset: EF-1

AREA:

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	CUBE-300XP-20-1-40-X
Serial Num	-	25726271 24K
Type	CRE	CENTRIFUGAL

Test Data		
	Design	Actual
CFM	3000	NOT ACCESSIBLE
Fan RPM	-	1107
RL Voltage	460	491/492/491
RL Amperage	-	2.6/2.6/2.6
Suction ESP	-	-0.85"
Discharge ESP	-	ATM
Total ESP	2.0	0.85"
Brake Horse Power	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	2.0	
Motor Rpm	1151	
Phase	3	
Voltage (rated)	460	
Amperage (rated)	-	
Service Factor	-	

Drive Data	
	Actual
Motor Sheave Size	VP44
Motor Bore Size	5/8"
Motor Sheave SetPt	3.0 TURNS OUT
Fan Sheave Size	5.5"
Fan Sheave Bore	1 7/16"
Belt CL Distance	11.0"
Num of Belts	1
Belt Size	A34

Unit Data - PHOTO LOG



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Project: Rosen Laundry (Orlando, FL)
System/Unit: FAN - Exhaust



Asset: EF-2

AREA:

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	CUBE-300XP-20-1-40-X
Serial Num	-	2572673 24K
Type	CRE	CENTRIFUGAL

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	2.0	
Motor Rpm	1769	
Phase	3	
Voltage (rated)	460	
Amperage (rated)	-	
Service Factor	-	

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

Test Data		
	Design	Actual
CFM	2500	NOT ACCESSIBLE
Fan RPM	-	996
RL Voltage	460	491/492/493
RL Amperage	-	2.6/2.7/2.6
Suction ESP	-	[1]
Discharge ESP	-	ATM
Total ESP	2.0	
Brake Horse Power	-	

Notes:

[1] Static pressure not reading accurately. Potentially due to lack of exhaust grille and very short duct run.

Written By: Stephen Tassinaro on 05/02/2025

Unit Data - PHOTO LOG



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Project: Rosen Laundry (Orlando, FL)
System/Unit: FAN - Exhaust



Asset: EF-3-1

AREA:

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	USF-10-5-B6-0-02-02
Serial Num	-	25742559 24K
Type	CRE	CENTRIFUGAL

Test Data		
	Design	Actual
CFM	1200	1123
System SetPt	-	50Hz
RL Voltage	460	319V VFD
RL Amperage	-	1.3A VFD
Suction ESP	-	-3.83"
Discharge ESP	-	0.09"
Total ESP	3.0	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	1.5	1.5
Motor Rpm	2941	
Phase	3	3
Voltage (rated)	460	460
Amperage (rated)	-	
Service Factor	-	

Unit Data - PHOTO LOG



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Project: Rosen Laundry (Orlando, FL)
System/Unit: FAN - Exhaust



Asset: EF-3-2

AREA:

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	USF-10-5-B6-0-02-02
Serial Num	-	25742554 24K
Type	-	CENTRIFUGAL

Test Data		
	Design	Actual
CFM	1200	1151
System SetPt	-	50Hz
RL Voltage	-	319V VFD
RL Amperage	-	1.3A VFD
Suction ESP	-	-3.66"
Discharge ESP	-	0.10"
Total ESP	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	1.5	1.5
Motor Rpm	-	
Phase	3	3
Voltage (rated)	460	460
Amperage (rated)	-	
Service Factor	-	

Unit Data - PHOTO LOG



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Project: Rosen Laundry (Orlando, FL)
System/Unit: FAN - Exhaust



Asset: EF-3-3

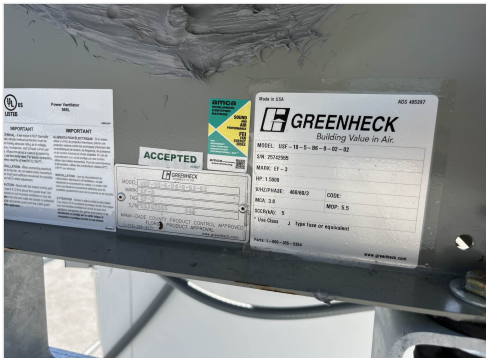
AREA:

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	USF-10-5-B6-0-02-02
Serial Num	-	25742555 24K
Type	-	CENTRIFUGAL

Test Data		
	Design	Actual
CFM	1200	1173
System SetPt	-	50Hz
RL Voltage	-	319V VFD
RL Amperage	-	1.2A VFD
Suction ESP	-	-3.83"
Discharge ESP	-	0.13"
Total ESP	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	1.5	
Motor Rpm	-	
Phase	3	
Voltage (rated)	460	
Amperage (rated)	-	
Service Factor	-	

Unit Data - PHOTO LOG



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Project: Rosen Laundry (Orlando, FL)
System/Unit: FAN - Exhaust



Asset: EF-3-4

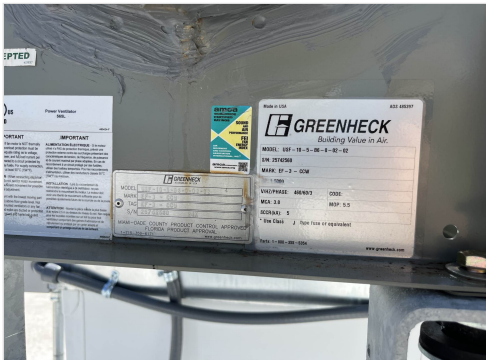
AREA:

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	USF-10-5-B6-0-02-02
Serial Num	-	25742560 24K
Type	-	CENTRIFUGAL

Test Data		
	Design	Actual
CFM	1200	1189
System SetPt	-	50Hz
RL Voltage	-	318V VFD
RL Amperage	-	1.3A
Suction ESP	-	-3.75"
Discharge ESP	-	0.10"
Total ESP	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	1.5	
Motor Rpm	-	
Phase	3	
Voltage (rated)	460	
Amperage (rated)	-	
Service Factor	-	

Unit Data - PHOTO LOG



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Project: Rosen Laundry (Orlando, FL)
System/Unit: Fan Coil



Asset: FCU-1

AREA:IDF ROOM 110

Unit Data		
	Design	Actual
MFG	NA	DAIKEN
Model Num	NA	AMST24BU1300AA
Serial Num	-	2407264284
Configuration	-	VERTICAL

Motor Data		
	Design	Actual
Horsepower	0.75	0.75
Phase	1	1
Voltage (rated)	208	208/240
Amperage (rated)	-	4.6

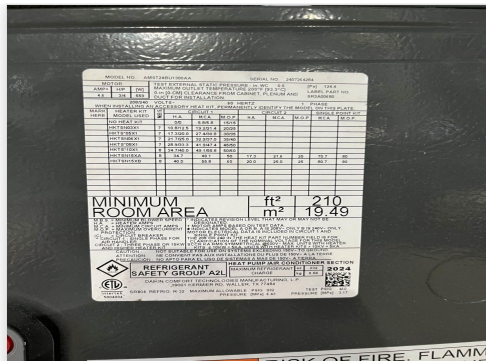
Test Data		
	Design	Actual
SFAN CFM	750	781
Motor Speed SetPt	-	TAP 6
RL Voltage	208	208
RL Amperage	-	1.9
RA CFM	750	781
OA CFM	0	0

Performance Data		
	Design	Actual
Suction ESP	-	-0.31"
Discharge ESP	-	0.11"
Total ESP	0.50	0.42"

Unit Data - PHOTO LOG



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Project: Rosen Laundry (Orlando, FL)

Fan Coil



Diffuser Supply (GRD)

FCU-1/IDF ROOM 110

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	112	A	8	115	229	137	119.1
SGRD2	110	L	10	400	312	369	92.3
SGRD3	107	A	6	85	147	85	100.0
SGRD4	108	A	6	150	308	190	126.7
Total				750	996	781	104.13%

Diffuser Ret/Exh (GRD)

FCU-1/IDF ROOM 110

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	C		350	1	510	380	380	108.6
EGRD2	F	12X12	400	1	368	403	398	99.5
Total			750		878	783	778	103.73%