

Report By:

**National TAB
1329 E. KEMPER ROAD
SUITE 4210
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Report: Burlington (Ft. Myers, FL)

Function: Test, Adjust, & Balance

Date: 10/23/2023

PROJECT

Burlington (Ft. Myers, FL)

400 Del Prado Blvd S

Ft. Myers, FL 33990

Client

Air Temp Inc

52 Riley Road #260

Celebration, FL 34747

National TAB

Project: Burlington (Ft. Myers, FL)
System/Unit: AHU/RTU



Asset: RTU-1

AREA: SALES

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	5122P12031
Model Num	NA	50LCEA12J2C6A4R4F0
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	22.5X25.5
Num PreFilter 1	-	6
PreFilter Size 1	-	18X24X2

Test Data		
	Design	Actual
SF CFM	3600	3608
SF RPM	591	572
RA CFM	2770	2854
OA CFM	830	754
RL Voltage	460	499/497/497
RL Amperage	3.8	1.7/1.7/1.6
OA Damper Position	-	40%
Brake Horse Power	1.21	1.27

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	-	2.9
Motor Rpm	-	1735
Phase	3	3
Rated Voltage	460	208-230/460
Rated Amperage	3.8	8.1-7.6/3.8
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.48"
Fan Suction SP	-	-0.75"
Fan Discharge SP	-	0.26"
Total ESP	0.60	0.74"
Fan Total SP	0.68	1.01"

Drive Data		
	Design	Actual
Motor Sheave Size	-	VP40
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	5.0 TURNS OUT
Fan Sheave Size	-	AK84
Fan Sheave Bore	-	1 3/16"
Belt CL Distance	-	20.25"
Num of Belts	-	1
Belt Size	-	AX56

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Project: Burlington (Ft. Myers, FL)

AHU/RTU



Diffuser Supply (GRD)

RTU-1/SALES

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-1	SALES	B	40X40	2860	3109	2930	102.4
1-2	CHECKOUT	J	8	150	119	136	90.7
1-3	CHECKOUT	J	8	220	138	203	92.3
1-4	CHECKOUT	J	8	150	117	138	92.0
1-5	CHECKOUT	J	8	220	141	201	91.4
Total				3600	3624	3608	100.22%

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Project: Burlington (Ft. Myers, FL)

System/Unit: AHU/RTU



Asset: RTU-2

AREA:SALES

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	4322P11049
Model Num	NA	50LCEA12J2C6A4RF0
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	22.5X25.5
Num PreFilter 1	-	6
PreFilter Size 1	-	18X24X2

Test Data		
	Design	Actual
SF CFM	3600	3526
SF RPM	591	576
RA CFM	2770	2766
OA CFM	830	760
RL Voltage	460	498/498/500
RL Amperage	3.8	1.6/1.7/1.6
OA Damper Position	-	40%
Brake Horse Power	1.21	1.24

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	-	2.9
Motor Rpm	-	1735
Phase	3	3
Rated Voltage	460	208-230/460
Rated Amperage	3.8	8.1-7.6/3.8
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.44"
Fan Suction SP	-	-0.67"
Fan Discharge SP	-	0.23"
Total ESP	0.60	0.67"
Fan Total SP	0.68	0.90"

Drive Data		
	Design	Actual
Motor Sheave Size	-	VP40
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	5.0 TURNS OUT
Fan Sheave Size	-	AK84
Fan Sheave Bore	-	1 3/16"
Belt CL Distance	-	20.25"
Num of Belts	-	1
Belt Size	-	AX56

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Project: Burlington (Ft. Myers, FL)

AHU/RTU



Diffuser Supply (GRD)

RTU-2/SALES

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-1	SALES	B	40X40	3300	3143	3228	97.8
2-2	VESTIBULE	A	8	150	201	136	90.7
2-3	VESTIBULE	A	8	150	186	162	108.0
Total				3600	3530	3526	97.94%

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Project: Burlington (Ft. Myers, FL)

System/Unit: AHU/RTU



Asset: RTU-3

AREA:SALES

Unit Data		
	Design	Actual
MFG	NA	YORK
Serial Num	-	N2F2537699
Model Num	NA	ZJ102E09R4D5EAA1R2
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	29X21
Num PreFilter 1	-	4
PreFilter Size 1	-	24X20X2

Test Data		
	Design	Actual
SF CFM	2900	2789
SF RPM	892	945
RA CFM	2240	2169
OA CFM	660	620
RL Voltage	460	497/499/497
RL Amperage	4.7	3.5/3.6/3.6
OA Damper Position	-	10%
Brake Horse Power	3.45	2.52

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR RELIANCE
Frame	-	56HZ
Horsepower	3.00	3.0
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	460	208-230/460
Rated Amperage	4.7	8.3-8.2/4.1
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.68"
Fan Suction SP	-	-1.02"
Fan Discharge SP	-	0.38"
Total ESP	0.70	1.06"
Fan Total SP	-	1.40"

Drive Data		
	Design	Actual
Motor Sheave Size	-	VM50
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	3.0 TURNS OUT
Fan Sheave Size	-	7.25"
Fan Sheave Bore	-	1.0"
Belt CL Distance	-	19.0"
Num of Belts	-	1
Belt Size	-	A54

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Project: Burlington (Ft. Myers, FL)

System/Unit: AHU/RTU



Asset: RTU-4

AREA:SALES

Unit Data		
	Design	Actual
MFG	NA	YORK
Serial Num	-	N2F2537700
Model Num	NA	ZJ102E09R4D5EAA1R2
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	29X21
Num PreFilter 1	-	4
PreFilter Size 1	-	24X20X2

Test Data		
	Design	Actual
SF CFM	2900	3014
SF RPM	892	974
RA CFM	2240	2415
OA CFM	660	599
RL Voltage	460	496/496/499
RL Amperage	4.7	3.1/3.0/3.7
OA Damper Position	-	19%
Brake Horse Power	3.45	2.39

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR RELIANCE
Frame	-	56HZ
Horsepower	3.00	3.0
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	460	208-230/460
Rated Amperage	4.7	8.3-8.2/4.1
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.68"
Fan Suction SP	-	-1.04"
Fan Discharge SP	-	0.45"
Total ESP	0.70	1.13"
Fan Total SP	-	1.49"

Drive Data		
	Design	Actual
Motor Sheave Size	-	VM50
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	3.0 TURNS OUT
Fan Sheave Size	-	7.25"
Fan Sheave Bore	-	1.0"
Belt CL Distance	-	19.0"
Num of Belts	-	1
Belt Size	-	A54

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Project: Burlington (Ft. Myers, FL)

System/Unit: AHU/RTU



Asset: RTU-5

AREA:WOMENS RR

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	1323C10407
Model Num	NA	50GCQM06J3B6A3W4F0
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	28.25X14
Num PreFilter 1	-	4
PreFilter Size 1	-	16X16X2

Motor Data		
	Design	Actual
Motor MFG	-	N/L
Frame	-	N/L
Horsepower	-	N/L
Motor Rpm	-	N/L
Phase	3	3
Rated Voltage	460	460
Rated Amperage	2.9	2.9
Service Factor	-	N/L

Test Data		
	Design	Actual
SF CFM	1750	1772
RA CFM	1485	1501
OA CFM	265	271
RL Voltage	460	499/497/497
RL Amperage	2.9	1.3/1.4/1.3
OA Damper Position	-	20%

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.61"
Fan Suction SP	-	-0.82"
Fan Discharge SP	-	0.81"
Total ESP	0.80	1.42"
Fan Total SP	0.89	1.63"

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AHU/RTU



Diffuser Supply (GRD)

RTU-5/WOMENS RR

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
5-1	LAYAWAY	H	12X8	310	270	314	101.3
5-2	LAYAWAY	H	12X8	310	359	304	98.1
5-3	LAYAWAY	H	12X8	310	350	336	108.4
5-4	LAYAWAY	H	12X8	310	269	300	96.8
5-5	LAYAWAY	H	12X8	310	412	316	101.9
5-6	LAYAWAY	M	12X4	200	138	202	101.0
Total				1750	1798	1772	101.26%

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Project: Burlington (Ft. Myers, FL)

System/Unit: AHU/RTU



Asset: RTU-6

AREA:LAYAWAY

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	1423C08955
Model Num	NA	50GCQM04J3B6A3W4F0
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	28X14.25
Num PreFilter 1	-	2
PreFilter Size 1	-	16X25X2

Motor Data		
	Design	Actual
Motor MFG	-	N/L
Frame	-	N/L
Horsepower	-	N/L
Motor Rpm	-	N/L
Phase	3	3
Rated Voltage	460	460
Rated Amperage	1.5	1.5
Service Factor	-	N/L

Test Data		
	Design	Actual
SF CFM	900	952
RA CFM	790	833
OA CFM	110	119
RL Voltage	460	500/498/498
RL Amperage	1.5	0.5/0.6/0.5
OA Damper Position	-	15%

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.23"
Fan Suction SP	-	-0.34"
Fan Discharge SP	-	0.33"
Total ESP	0.80	0.56"
Fan Total SP	0.82	0.67"

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Project: Burlington (Ft. Myers, FL)

AHU/RTU



Diffuser Supply (GRD)

RTU-6/LAYAWAY

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
6-1	FITTING RM	C	10	250	388	274	109.6
6-2	FITTING RM	C	10	250	384	271	108.4
6-3	HALLWAY	C	10	200	350	218	109.0
6-4	MENS RR	J	6	100	131	98	98.0
6-5	WOMENS RR	J	6	100	123	91	91.0
Total				900	1376	952	105.78%

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Project: Burlington (Ft. Myers, FL)

System/Unit: AHU/RTU



Asset: RTU-7

AREA:OFFICES

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	1623C09782
Model Num	NA	50GCQM04J3B6A3W4F0
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	28X14.25
Num PreFilter 1	-	2
PreFilter Size 1	-	16X25X2

Motor Data		
	Design	Actual
Motor MFG	-	N/L
Frame	-	N/L
Horsepower	-	N/L
Motor Rpm	-	N/L
Phase	3	3
Rated Voltage	460	460
Rated Amperage	1.5	1.5
Service Factor	-	N/L

Test Data		
	Design	Actual
SF CFM	900	882
RA CFM	790	780
OA CFM	110	102
RL Voltage	460	499/498/500
RL Amperage	1.5	0.4/0.5/0.4
OA Damper Position	-	12%

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.15"
Fan Suction SP	-	-0.24"
Fan Discharge SP	-	0.30"
Total ESP	0.80	0.45"
Fan Total SP	0.82	0.54"

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Project: Burlington (Ft. Myers, FL)

AHU/RTU



Diffuser Supply (GRD)

RTU-7/OFFICES

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
7-1	E-LEARN	C	8	150	180	146	97.3
7-2	CASH	C	8	100	175	101	101.0
7-3	HALLWAY	C	6	100	149	98	98.0
7-4	LOUNGE	C	10	200	322	201	100.5
7-5	LOUNGE	C	8	150	250	148	98.7
7-6	OFFICE	C	10	200	408	188	94.0
Total				900	1484	882	98%

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National TAB

Project: Burlington (Ft. Myers, FL)

System/Unit: FAN - Exhaust



Asset: EF-1

AREA: LOUNGE

Unit Data		
	Design	Actual
MFG	NA	COOK
Model Num	NA	101 ACE 101C17DEC
Serial Num	-	047PK57202- 00/0000701
Type	CRE DNBLAST	CENTRIFUGAL

Test Data		
	Design	Actual
CFM	600	652
RL Voltage	-	115
RL Amperage	-	INACCESSIBLE
Total ESP	0.35	0.26"

Motor Data		
	Design	Actual
Motor MFG	-	COOK
Frame	-	N/L
Horsepower	0.25	0.25
Motor Rpm	1725	1725
Phase	1	1
Voltage (rated)	115	120
Amperage (rated)	-	3.4
Service Factor	-	N/L

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National TAB

Project: Burlington (Ft. Myers, FL)

FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF-1/LOUNGE

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
E1-1	E	22X22	600	1	652	652	652	108.7
Total			600		652	652	652	108.67%

Completed By: Stephen Tassinaro on 10/17/2023

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Project: Burlington (Ft. Myers, FL)

System/Unit: FAN - Exhaust



Asset: EF-2

AREA: LOUNGE

Unit Data		
	Design	Actual
MFG	NA	COOK
Model Num	NA	101 ACE 101C15D
Serial Num	-	047PK57202- 00/0002101
Type	CRE DNBLAST	CENTRIFUGAL

Test Data		
	Design	Actual
CFM	460	530
RL Voltage	-	115
RL Amperage	-	INACCESSIBLE
Total ESP	0.50	0.12"

Motor Data		
	Design	Actual
Motor MFG	-	US MOTORS
Frame	-	48Y
Horsepower	0.125	1/8
Motor Rpm	1550	1600
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	1.7
Service Factor	-	N/L

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Notes:

NO SPEED CONTROLLER TO REDUCE TOTAL TO DESIGN. NOT EXPECTED TO CAUSE COMFORT ISSUES. BATHROOMS AND JANITOR ROOM REMAIN SLIGHTLY NEGATIVE AS PER DESIGN. FITTING ROOMS REMAIN POSITIVE PER DESIGN.

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National TAB

Project: Burlington (Ft. Myers, FL)

FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF-2/LOUNGE

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
E2-1	F	10X10	140	1	192	159	169	120.7
E2-2	F	10X10	140	1	161	180	150	107.1
E2-3	F	10X10	130	1	131	136	142	109.2
E2-4	F	10X10	50	1	53	59	69	138.0
Total			460		537	534	530	115.22%

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