Report By:
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NATIONAL TAB
INTELLIGENCE

For:
National TAB
1126 Swift Street
North Kansas City, MO 64116

Report: TAB REPORT

Function: Test, Adjust, & Balance

Date: 09/23/2024

PROJECT

09-16-24 BURLINGTON COAT FACTORY #1544 CLIFTON, NJ

404 State Route 3 West

Clifton , NJ 07014

Client

Brinco Mechanical Management Services, Inc.

125 South Main St

Freeport, NY 11520

National TAB

Project Summary

The summary below provides a quick understanding of our scope of work and general testing procedures. Enclosed in the report is further detail about your building performance including recommendations, asset data, and pictures. Our focus is to work with the trades to remedy any issues or deficiencies during the actual field balancing and not after the balancing has occurred to achieve a positive environment and outcome. The level of success is determined by the availability of the trades, possible parts needed, or time constraints.

RTU's (Roof Top Units)
Each of the RTU's were measured at their terminal devices or via traverse to establish a total flow for that unit. Each RTU was adjusted to within tolerance of the engineer's design flow. Outside air was measured by reading the intake air opening with a velocity grid and multiplying by the free area. The outside air damper was adjusted until the airflow was within the design requirements. Any equipment that fell outside of that tolerance is noted throughout the report.

Fan Test Sheet

Project:	Burlington Coat Factory #1544 Clifton NJ	**System:**	RTU-1
Location:	Rooftop	**Serves:**	Various
Instrument:	Shortridge ADM-860c	**Date:**	09/17/24

Fan Data	
Make:	Carrier
Model:	48GCEM06J3A6-3W4F0
Serial No.:	3623C09124

Air Flow Data		
	Design	Actual
Total	2,000	1,856
Outside Air	300	313

Static Pressure		
Total Design:	0.80	in.w.c.
Suction:	-0.67	in.w.c.
Discharge:	0.37	in.w.c.
Total Actual:	1.04	in.w.c.

Motor Data			
HP:		RPM:	
Phase:	3	SF:	1.15
	Rated		Actual
Volts:	460		467.2-474.3-481.4
Amps:	3.10		6.8-6.1-5.8
Hz:	60		60

Drive Data		
	Size	Bore
Motor		
Fan		
Belts	Direct Drive	
Centerline Dist.		
	Design	Actual
Fan RPM		2836

Duct					**Design**		**Actual**				**Notes**
No.	**Height**	**Width**	**Insul.**	**Area**	**FPM**	**CFM**	**AFPM**	**CFM**	**SP**	**%**	
1	14	28		2.72	735	2,000	682	1,856		93%	Total Flow
2	14	28		2.72	110	300	115	313		104%	Outside Air

Notes:

Flow calculated by the difference of discharge static in economizer mode and minimum outside air mode.
Minimum outside air damper position 14%.
Unit tagged by Ferris Street, use serial number to identify unit.

Fan Test Sheet

Project:	Burlington Coat Factory #1544 Clifton NJ	**System:**	RTU-2
Location:	Rooftop	**Serves:**	Various
Instrument:	Shortridge ADM-860c	**Date:**	09/17/24

Fan Data	
Make:	Carrier
Model:	48LCF017J2C6-4S4C0
Serial No.:	4823P16193

Air Flow Data		
	Design	Actual
Total	5,000	5,239
Outside Air	750	757

Static Pressure		
Total Design:	1.00	in.w.c.
Suction:	-0.53	in.w.c.
Discharge:	0.40	in.w.c.
Total Actual:	0.93	in.w.c.

Motor Data			
HP:	5.00	RPM:	1765
Phase:	3	SF:	1.15
	Rated		Actual
Volts:	460		468.1-465.3-470
Amps:	9.8/4.9		3.34vfd
Hz:	60		60

Drive Data		
	Size	Bore
Motor	6.00	184T
Fan	12.00	1.25
Belts	BX-50	
Centerline Dist.	13.00	
	Design	Actual
Fan RPM	1765	92%

Duct					**Design**		**Actual**				**Notes**
No.	**Height**	**Width**	**Insul.**	**Area**	**FPM**	**CFM**	**AFPM**	**CFM**	**SP**	**%**	
1	23.5	57.25		9.34	535	5,000	561	5,239		105%	Total Flow
2	23.5	57.25		9.34	80	750	81	757		101%	Outside Air

Notes:

Flow calculated by the difference of discharge static in economizer mode and minimum outside air mode.
Minimum outside air damper position 41%.
Unit tagged by Ferris Street, use serial number to identify unit.

Fan Test Sheet

Project:	Burlington Coat Factory #1544 Clifton NJ	**System:**	RTU-3
Location:	Rooftop	**Serves:**	Various
Instrument:	Shortridge ADM-860c	**Date:**	09/17/24

Fan Data	
Make:	Carrier
Model:	48LCEA17J2A6-4S4C0
Serial No.:	2823P25349

Air Flow Data		
	Design	Actual
Total	5,000	5,256
Outside Air	750	747

Static Pressure		
Total Design:	1.00	in.w.c.
Suction:	-0.51	in.w.c.
Discharge:	0.34	in.w.c.
Total Actual:	0.85	in.w.c.

Motor Data			
HP:	5.00	RPM:	1765
Phase:	3	SF:	1.15
	Rated		Actual
Volts:	230-460		463-463-466
Amps:	9.8/4.9		3.24vfd
Hz:	60		60

Drive Data		
	Size	Bore
Motor	6.00	184T
Fan	12.00	1.25
Belts	BX-50	
Centerline Dist.	13.00	
	Design	Actual
Fan RPM	1765	92%

Duct					**Design**		**Actual**				**Notes**
No.	**Height**	**Width**	**Insul.**	**Area**	**FPM**	**CFM**	**AFPM**	**CFM**	**SP**	**%**	
1	23.5	57.25		9.34	535	5,000	563	5,256		105%	Total Flow
2	23.5	57.25		9.34	80	750	80	747		100%	Outside Air

Notes:

Flow calculated by the difference of discharge static in economizer mode and minimum outside air mode.
Minimum outside air damper position 27%.
Unit tagged by Ferris Street, use serial number to identify unit.

Fan Test Sheet

Project:	Burlington Coat Factory #1544 Clifton NJ	**System:**	RTU-4
Location:	Rooftop	**Serves:**	Various
Instrument:	Shortridge ADM-860c	**Date:**	09/17/24

Fan Data	
Make:	Carrier
Model:	48LCE017J2A6-4S4C0
Serial No.:	5123P17268

Air Flow Data		
	Design	Actual
Total	5,000	5,337
Outside Air	750	785

Static Pressure		
Total Design:	1.00	in.w.c.
Suction:	-0.53	in.w.c.
Discharge:	0.37	in.w.c.
Total Actual:	0.91	in.w.c.

Motor Data			
HP:	5.00	RPM:	1765
Phase:	3	SF:	1.15
	Rated		Actual
Volts:	230-460		459.1-462.4-461.1
Amps:	9.8/4.9		3.53vfd
Hz:	60		60

Drive Data		
	Size	Bore
Motor	6.00	184T
Fan	12.00	1.25
Belts	BX-50	
Centerline Dist.	13.00	
	Design	Actual
Fan RPM	1765	92%

Duct					**Design**		**Actual**				**Notes**
No.	**Height**	**Width**	**Insul.**	**Area**	**FPM**	**CFM**	**AFPM**	**CFM**	**SP**	**%**	
1	23.5	57.25		9.34	535	5,000	571	5,337		107%	Total Flow
2	23.5	57.25		9.34	80	750	84	785		105%	Outside Air

Notes:

Flow calculated by the difference of discharge static in economizer mode and minimum outside air mode.
Minimum outside air damper position 27%.
Unit tagged by Ferris Street, use serial number to identify unit.

Fan Test Sheet

Project:	Burlington Coat Factory #1544 Clifton NJ	**System:**	RTU-5
Location:	Rooftop	**Serves:**	Various
Instrument:	Shortridge ADM-860c	**Date:**	09/17/24

Fan Data	
Make:	Carrier
Model:	48LCE017J2A6-4S4C0
Serial No.:	3223P26186

Air Flow Data		
	Design	Actual
Total	5,000	5,233
Outside Air	750	775

Static Pressure		
Total Design:	1.00	in.w.c.
Suction:	-0.52	in.w.c.
Discharge:	0.30	in.w.c.
Total Actual:	0.81	in.w.c.

Motor Data			
HP:	5.00	RPM:	1765
Phase:	3	SF:	1.15
	Rated		Actual
Volts:	230-460		459.4-461.2-468.3
Amps:	9.8/4.9		3.2vfd
Hz:	60		60

Drive Data		
	Size	Bore
Motor	6.00	184T
Fan	12.00	1.25
Belts	BX-50	
Centerline Dist.	13.00	
	Design	Actual
Fan RPM	1765	91%

Duct					**Design**		**Actual**				**Notes**
No.	**Height**	**Width**	**Insul.**	**Area**	**FPM**	**CFM**	**AFPM**	**CFM**	**SP**	**%**	
1	23.5	57.25		9.34	535	5,000	560	5,233		105%	Total Flow
2	23.5	57.25		9.34	80	750	83	775		103%	Outside Air

Notes:

Flow calculated by the difference of discharge static in economizer mode and minimum outside air mode.
Minimum outside air damper position 27%.
Unit tagged by Ferris Street, use serial number to identify unit.

Fan Test Sheet

Project:	Burlington Coat Factory #1544 Clifton NJ	**System:**	RTU-6
Location:	Rooftop	**Serves:**	Various
Instrument:	Shortridge ADM-860c	**Date:**	09/17/24

Fan Data	
Make:	Carrier
Model:	48LCE017J2A6-4S4C0
Serial No.:	3123P26116

Air Flow Data		
	Design	Actual
Total	5,000	4,941
Outside Air	750	813

Static Pressure		
Total Design:	1.00	in.w.c.
Suction:	-0.52	in.w.c.
Discharge:	0.29	in.w.c.
Total Actual:	0.81	in.w.c.

Motor Data			
HP:	5.00	RPM:	1765
Phase:	3	SF:	1.15
	Rated		Actual
Volts:	230-460		458.3-456.9-456.8
Amps:	9.8/4.9		3.3vfd
Hz:	60		60

Drive Data		
	Size	Bore
Motor	6.00	184T
Fan	12.00	1.25
Belts	BX-50	
Centerline Dist.	13.00	
	Design	Actual
Fan RPM	1765	92%

Duct					**Design**		**Actual**				**Notes**
No.	**Height**	**Width**	**Insul.**	**Area**	**FPM**	**CFM**	**AFPM**	**CFM**	**SP**	**%**	
1	23.5	57.25		9.34	535	5,000	529	4,941		99%	Total Flow
2	23.5	57.25		9.34	80	750	87	813		108%	Outside air

Notes:

Flow calculated by the difference of discharge static in economizer mode and minimum outside air mode.
Minimum outside air damper position 27%.
Unit tagged by Ferris Street, use serial number to identify unit.