Report By:
Ferris Street Services
308 Ferris Street
Peekskill, NY 10566

NATIONAL TAB
INTELLIGENCE

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

Report: TAB REPORT

Function: Test, Adjust, & Balance

Date: 09/26/2024

Completed By:

PROJECT

09-09-24 BURLINGTON COAT FACTORY #0545 COLONIE, NY

1440 Central Ave.

Clolonie, NY 12205

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 #545 Colonie NY	**System:**	RTU-1
Location:	Roof	**Serves:**	Various
Instrument:	Shortridge ADM-860c	**Date:**	09/20/24

Fan Data	
Make:	Carrier
Model:	48LCFA07
Serial No.:	5123P8863

Motor Data			
HP:	-	RPM:	1690
Phase:	3	SF:	1.15
	Rated		Actual
Volts:	460		468-467-463
Amps:	9.2/4.6		1.17vfd
Hz:	60		60

Air Flow Data		
	Design	Actual
Total	2,400	2,286
Outside Air	360	379

Drive Data		
	Size	Bore
Motor	3.00	56H
Fan	5.50	1.00
Belts	AX45	
Centerline Dist.	17.25	
	Design	Actual
Fan RPM		100%

Static Pressure		
Total Design:	1.00	in.w.c.
Suction:	-0.46	in.w.c.
Discharge:	0.46	in.w.c.
Total Actual:	0.93	in.w.c.

Duct					**Design**		**Actual**				**Notes**
No.	**Height**	**Width**	**Insul.**	**Area**	**FPM**	**CFM**	**AFPM**	**CFM**	**SP**	**%**	
1	19	35		4.62	520	2,400	495	2,286		95%	Total Flow
2	19	35		4.62	78	360	82	379		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 25%.
Unit tags from field.

Fan Test Sheet

Project:	Burlington Coat Factory #545 Colonie NY	**System:**	RTU-2
Location:	Roof	**Serves:**	Various
Instrument:	Shortridge ADM-860c	**Date:**	09/20/24

Fan Data	
Make:	Carrier
Model:	48LCFA07
Serial No.:	5123P8863

Air Flow Data		
	Design	Actual
Total	2,400	2,286
Outside Air	360	379

Static Pressure		
Total Design:	1.00	in.w.c.
Suction:	-0.46	in.w.c.
Discharge:	0.46	in.w.c.
Total Actual:	0.93	in.w.c.

Motor Data			
HP:	-	RPM:	1690
Phase:	3	SF:	1.15
	Rated		Actual
Volts:	460		468-467-463
Amps:	9.2/4.6		1.17vfd
Hz:	60		60

Drive Data		
	Size	Bore
Motor	3.00	56H
Fan	5.50	1.00
Belts	AX45	
Centerline Dist.	17.25	
	Design	Actual
Fan RPM		100%

Duct					**Design**		**Actual**				**Notes**
No.	**Height**	**Width**	**Insul.**	**Area**	**FPM**	**CFM**	**AFPM**	**CFM**	**SP**	**%**	
1	19	35		4.62	520	2,400	495	2,286		95%	Total Flow
2	19	35		4.62	78	360	82	379		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 tags from field.

Fan Test Sheet

Project:	Burlington Coat Factory #545 Colonie NY	**System:**	RTU-3
Location:	Roof	**Serves:**	Various
Instrument:	Shortridge ADM-860c	**Date:**	09/20/24

Fan Data	
Make:	Carrier
Model:	48LCEA17J2M6-4S4C0
Serial No.:	3223P26251

Air Flow Data		
	Design	Actual
Total	5,000	4,999
Outside Air	750	775

Static Pressure		
Total Design:	1.00	in.w.c.
Suction:	-0.56	in.w.c.
Discharge:	0.20	in.w.c.
Total Actual:	0.76	in.w.c.

Motor Data			
HP:	5.00	RPM:	1765
Phase:	3	SF:	1.15
	Rated		Actual
Volts:	230/460		455-457-456.7
Amps:	12.6/6.3		3.28vfd
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	87%

Duct					**Design**		**Actual**				**Notes**
No.	**Height**	**Width**	**Insul.**	**Area**	**FPM**	**CFM**	**AFPM**	**CFM**	**SP**	**%**	
1	23.5	57.25		9.34	535	5,000	535	4,999		100%	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 32%.
Unit tags from field.

Fan Test Sheet

Project:	Burlington Coat Factory #545 Colonie NY	**System:**	RTU-4
Location:	Roof	**Serves:**	Various
Instrument:	Shortridge ADM-860c	**Date:**	09/20/24

Fan Data	
Make:	Carrier
Model:	48LCE017J2A6A4S4C0
Serial No.:	2723P25098

Air Flow Data		
	Design	Actual
Total	5,000	

Static Pressure		
Total Design:	1.00	in.w.c.
Suction:		in.w.c.
Discharge:		in.w.c.
Total Actual:		in.w.c.

Motor Data			
HP:	5.00	RPM:	1765
Phase:	3	SF:	1.15
	Rated		Actual
Volts:	230/460		
Amps:	12.6/6.3		
Hz:	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	

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

Notes:

Fan is powered not runnng.
Controller error "Invalid Image - Boot to LEN/CCN Waiting for Instructions"

Fan Test Sheet

Project:	Burlington Coat Factory #545 Colonie NY	**System:**	RTU-5
Location:	Roof	**Serves:**	Various
Instrument:	Shortridge ADM-860c	**Date:**	09/20/24

Fan Data	
Make:	Carrier
Model:	48LCE017J2A6A4S4C0
Serial No.:	2723P25099

Air Flow Data		
	Design	Actual
Total	5,000	

Static Pressure		
Total Design:	1.00	in.w.c.
Suction:		in.w.c.
Discharge:		in.w.c.
Total Actual:		in.w.c.

Motor Data			
HP:	5.00	RPM:	1765
Phase:	3	SF:	1.15
	Rated		Actual
Volts:	230/460		
Amps:	12.6/6.3		
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	

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

Notes:

Fan is powered not runnng.
Controller error "511-IDF Off When Cammand On"

Fan Test Sheet

Project:	Burlington Coat Factory #545 Colonie NY	**System:**	RTU-6
Location:	Roof	**Serves:**	Various
Instrument:	Shortridge ADM-860c	**Date:**	09/20/24

Fan Data	
Make:	Carrier
Model:	48LCE017J2A6A4S4C0
Serial No.:	3223P26253

Air Flow Data		
	Design	Actual
Total	5,000	5,379
Outside Air	750	803

Static Pressure		
Total Design:	1.00	in.w.c.
Suction:	-0.57	in.w.c.
Discharge:	0.29	in.w.c.
Total Actual:	0.86	in.w.c.

Motor Data			
HP:	5.00	RPM:	1765
Phase:	3	SF:	1.15
	Rated		Actual
Volts:	230/460		466-466-467
Amps:	12.6/6.3		3.07vfd
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	576	5,379		108%	Total Flow
2	23.5	57.25		9.34	80	750	86	803		107%	Outside Air

Notes:

Flow calculated by the difference of discharge static in economizer mode and minimum outside air mode.
Minimum outside air damper position 17%.
Unit tags from field.

Fan Test Sheet

Project:	Burlington Coat Factory #545 Colonie NY	**System:**	RTU-7
Location:	Roof	**Serves:**	Various
Instrument:	Shortridge ADM-860c	**Date:**	09/20/24

Fan Data	
Make:	Carrier
Model:	48LCE017J2A6A4S4C0
Serial No.:	2723P25099

Air Flow Data		
	Design	Actual
Total	5,000	5,234
Outside Air	750	794

Static Pressure		
Total Design:	1.00	in.w.c.
Suction:	-0.46	in.w.c.
Discharge:	0.32	in.w.c.
Total Actual:	0.79	in.w.c.

Motor Data			
HP:	5.00	RPM:	1765
Phase:	3	SF:	1.15
	Rated		Actual
Volts:	230/460		459-459-458
Amps:	12.6/6.3		2.95vfd
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	83%

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	5,234		105%	Total Flow
2	23.5	57.25		9.34	80	750	85	794		106%	Outside Air

Notes:

Flow calculated by the difference of discharge static in economizer mode and minimum outside air mode.
Minimum outside air damper position 25%.
Unit tags from field.

Fan Test Sheet

Project:	Burlington Coat Factory #545 Colonie NY	**System:**	RTU-8
Location:	Roof	**Serves:**	Various
Instrument:	Shortridge ADM-860c	**Date:**	09/20/24

Fan Data	
Make:	Carrier
Model:	48GCEN04J2M6-3W4F0
Serial No.:	3523C10135

Air Flow Data		
	Design	Actual
Total	1,200	1,156
Outsider	180	181

Static Pressure		
Total Design:	1.00	in.w.c.
Suction:	-0.98	in.w.c.
Discharge:	0.41	in.w.c.
Total Actual:	1.39	in.w.c.

Motor Data			
HP:		RPM:	
Phase:	3	SF:	1.15
	Rated		Actual
Volts:	460		464-461-465
Amps:	1.20		1.2-1-1
Hz:	60		60

Drive Data		
	Size	Bore
Motor		
Fan		
Belts	Direct Drive	
Centerline Dist.		
	Design	Actual
Fan RPM		2075

Duct					**Design**		**Actual**				**Notes**
No.	**Height**	**Width**	**Insul.**	**Area**	**FPM**	**CFM**	**AFPM**	**CFM**	**SP**	**%**	
1	14	28.25		2.75	437	1,200	421	1,156		96%	Total Flow
2	14	28.25		2.75	66	180	66	181		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 19%.
Unit tags from field.

Fan Test Sheet

Project:	Burlington Coat Factory #545 Colonie NY	**System:**	RTU-9
Location:	Roof	**Serves:**	Various
Instrument:	Shortridge ADM-860c	**Date:**	09/20/24

Fan Data	
Make:	Carrier
Model:	48LCE012J2M6-4R4F0
Serial No.:	2623P01226

Air Flow Data		
	Design	Actual
Total	4,000	3,726
Outside Air	600	614

Static Pressure		
Total Design:	0.80	in.w.c.
Suction:	0.64	in.w.c.
Discharge:	-0.53	in.w.c.
Total Actual:	-1.17	in.w.c.

Motor Data			
HP:		RPM:	1750
Phase:	3	SF:	1.15
	Rated		Actual
Volts:	230/460		452-452-482
Amps:	9.2/4.6		3.7vfd
Hz:	60		60

Drive Data		
	Size	Bore
Motor	4.25	56HZ
Fan	8.00	1.25
Belts	AX56	
Centerline Dist.	20.25	
	Design	Actual
Fan RPM		100%

Duct					**Design**		**Actual**				**Notes**
No.	**Height**	**Width**	**Insul.**	**Area**	**FPM**	**CFM**	**AFPM**	**CFM**	**SP**	**%**	
1	25.5	45		7.97	502	4,000	468	3,726		93%	Total Flow
2	25.5	45			75	600	77	614		102%	Outside Air

Notes:

Flow calculated by the difference of discharge static in economizer mode and minimum outside air mode.
Minimum outside air damper position 40%.
Unit tags from field.