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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: 09/26/2024

Completed By:

PROJECT

09-09-24 BURLINGTON COAT FACTORY #379 MERIDEN, CT

533 South Broad Street

Meriden, CT 06450

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 #379 Meriden CT	**System:**	RTU-1
Location:	Roof	**Serves:**	Ground Floor
Instrument:	Shortridge ADM-860c	**Date:**	09/19/24

Fan Data	
Make:	Trane
Model:	SFHMF754HA
Serial No.:	C23E03346

Air Flow Data		
	Design	Actual
Total	24,000	12,336

Static Pressure		
Total Design:		in.w.c.
Suction:	-0.60	in.w.c.
Discharge:	0.22	in.w.c.
Total Actual:	0.82	in.w.c.

Motor Data			
HP:	30.00	RPM:	1775
Phase:	3	SF:	1.15
	Rated		Actual
Volts:	230/460		466vfd
Amps:	72/36		15.2vfd
Hz:	60		22vfd

Drive Data		
	Size	Bore
Motor	3B66Q	1.88
Fan	3TB136	2.19
Belts	(3) BX98	
Centerline Dist.	32.00	
	Design	Actual
Fan RPM		1039

Duct					**Design**		**Actual**				**Notes**
No.	**Height**	**Width**	**Insul.**	**Area**	**FPM**	**CFM**	**AFPM**	**CFM**	**SP**	**%**	
1	30	102		19.13	1,255	24,000	645	12,336		51%	Cooling Coil

Notes:

Unit does not respond to controls commands, will not speed up.
Unit does not respond to controls commands; running in 100% return air mode.

Fan Test Sheet

Project:	Burlington Coat Factory #379 Meriden CT	**System:**	RTU-2
Location:	Roof	**Serves:**	Ground Floor
Instrument:	Shortridge ADM-860c	**Date:**	09/19/24

Fan Data	
Make:	Trane
Model:	SFHMF754HA
Serial No.:	C23E03347

Air Flow Data		
	Design	Actual
Total	24,000	11,877

Static Pressure		
Total Design:		in.w.c.
Suction:	-0.51	in.w.c.
Discharge:	0.22	in.w.c.
Total Actual:	0.73	in.w.c.

Motor Data			
HP:	30.00	RPM:	1775
Phase:	3	SF:	1.15
	Rated		Actual
Volts:	230/460		459vfd
Amps:	72/36		14.2vfd
Hz:	60		20vfd

Drive Data		
	Size	Bore
Motor	3B66Q	1.88
Fan	3TB136	2.19
Belts	(3) BX98	
Centerline Dist.	32.00	
	Design	Actual
Fan RPM		998

Duct					**Design**		**Actual**				**Notes**
No.	**Height**	**Width**	**Insul.**	**Area**	**FPM**	**CFM**	**AFPM**	**CFM**	**SP**	**%**	
1	30	102		19.13	1,255	24,000	621	11,877		49%	Cooling Coil

Notes:

Unit does not respond to controls commands, will not speed up.
Unit does not respond to controls commands; running in 100% return air mode.

Fan Test Sheet

Project:	Burlington Coat Factory #379 Meriden CT	**System:**	RTU-3
Location:	Roof	**Serves:**	Ground Floor
Instrument:	Shortridge ADM-860c	**Date:**	09/19/24

Fan Data	
Make:	Trane
Model:	YSJ102A4S0
Serial No.:	234810505L

Air Flow Data		
	Design	Actual
Total	3,400	3,073
Outside Air	510	524

Static Pressure		
Total Design:		in.w.c.
Suction:	-0.33	in.w.c.
Discharge:	0.97	in.w.c.
Total Actual:	1.30	in.w.c.

Motor Data			
HP:	3.00	RPM:	
Phase:	3	SF:	1.15
	Rated		Actual
Volts:	460		491-492-491
Amps:	4.60		2.1-1.9-2.0
Hz:	60		60

Drive Data		
	Size	Bore
Motor		
Fan		
Belts	Direct Drive	
Centerline Dist.		
	Design	Actual
Fan RPM		100%

Duct					**Design**		**Actual**				**Notes**
No.	**Height**	**Width**	**Insul.**	**Area**	**FPM**	**CFM**	**AFPM**	**CFM**	**SP**	**%**	
1	16	36		4.00	850	3,400	768	3,073		90%	Total Flow
2	16	36		4.00	128	510	131	524		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 20%.

Fan Test Sheet

Project:	Burlington Coat Factory #379 Meriden CT	**System:**	RTU-4
Location:	Roof	**Serves:**	Ground floor
Instrument:	Shortridge ADM-860c	**Date:**	09/19/24

Fan Data	
Make:	Trane
Model:	YSJ120A4S0
Serial No.:	234810526L

Motor Data			
HP:	3.00	RPM:	
Phase:	3	SF:	1.15
	Rated		Actual
Volts:	460		494-495-494
Amps:	4.60		2.5-2.4-2.5
Hz:	60		60

Air Flow Data		
	Design	Actual
Total	4,000	3,782
Outside Air	600	624

Drive Data		
	Size	Bore
Motor		
Fan		
Belts	Direct Drive	
Centerline Dist.		
	Design	Actual
Fan RPM		100%

Static Pressure		
Total Design:		in.w.c.
Suction:	-0.18	in.w.c.
Discharge:	0.62	in.w.c.
Total Actual:	0.80	in.w.c.

Duct					**Design**		**Actual**				**Notes**
No.	**Height**	**Width**	**Insul.**	**Area**	**FPM**	**CFM**	**AFPM**	**CFM**	**SP**	**%**	
1	16	36		4.00	1,000	4,000	945	3,782		95%	Total Flow
2	16	36		4.00	150	600	156	624		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 15%.

Fan Test Sheet

Project:	Burlington Coat Factory #379 Meriden CT	**System:**	RTU-5
Location:	Roof	**Serves:**	Ground Floor
Instrument:	Shortridge ADM-860c	**Date:**	09/19/24

Fan Data	
Make:	Trane
Model:	YSJ102A4S0
Serial No.:	234810518L

Motor Data			
HP:	3.00	RPM:	
Phase:	3	SF:	1.15
	Rated		Actual
Volts:	460		490-492-492
Amps:	4.60		2.2-2.1-2.2
Hz:	60		60

Air Flow Data		
	Design	Actual
Total	3,400	3,692
Outside Air	510	524

Drive Data		
	Size	Bore
Motor		
Fan		
Belts	Direct Drive	
Centerline Dist.		
	Design	Actual
Fan RPM		100%

Static Pressure		
Total Design:		in.w.c.
Suction:	-0.22	in.w.c.
Discharge:	0.54	in.w.c.
Total Actual:	0.76	in.w.c.

Duct					**Design**		**Actual**				**Notes**
No.	**Height**	**Width**	**Insul.**	**Area**	**FPM**	**CFM**	**AFPM**	**CFM**	**SP**	**%**	
1	16	36		4.00	850	3,400	923	3,692		109%	Total Flow
2	16	36		4.00	128	510	131	524		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 20%.

Fan Test Sheet

Project:	Burlington Coat Factory #379 Meriden CT	**System:**	RTU-6
Location:	Roof	**Serves:**	Ground Floor
Instrument:	Shortridge ADM-860c	**Date:**	09/19/24

Fan Data	
Make:	Trane
Model:	YSC048G4RH
Serial No.:	234710378L

Air Flow Data		
	Design	Actual
Total	1,600	1,595
Outside Air	240	249

Static Pressure		
Total Design:		in.w.c.
Suction:	-0.24	in.w.c.
Discharge:	0.51	in.w.c.
Total Actual:	0.75	in.w.c.

Motor Data			
HP:	1.00	RPM:	
Phase:	3	SF:	1.15
	Rated		Actual
Volts:	460		464-465-464
Amps:	2.50		1.8-1.9-1.8
Hz:	60		60

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

Duct					**Design**		**Actual**				**Notes**
No.	**Height**	**Width**	**Insul.**	**Area**	**FPM**	**CFM**	**AFPM**	**CFM**	**SP**	**%**	
1	10	28		1.94	823	1,600	820	1,595		100%	Total Flow
2	10	28		1.94	123	240	128	249		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 25%.