

Report By:

**National TAB
1329 E. KEMPER ROAD
SUITE 4210
CINCINNATI, OH 45246**

NATIONAL

TAB

Comfort. Under control.

**Report: PRELIM REPORT
Function: Test, Adjust, & Balance
Date: 02/03/2023**

**PROJECT
LoveSac (Mason, OH)**

5595 Deerfield Blvd

Mason, OH

Client

Champion Commercial HVAC

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Project: LoveSac (Mason, OH)

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SUMMARY

Included in this TAB report for Lovesac is TAB data for one rooftop unit, and one restroom ceiling fan. Rooftop units were balanced to within +/-10% by reading air devices and adjusting fan speed via motor pulley adjustment. It will be noted that the terminal devices added to 2800 cfm and were each proportionally raised to obtain 3000cfm total, per unit design. Air devices were then balanced to within +/- 10% unless noted. Due to shipping delays the economizer for the RTU has not arrived and minimum Outdoor air could not be set. NTAB will return to set minimum Outdoor air once the economizer is installed. Restroom ceiling exhaust fans were read with a flow hood and confirmed to be within +/-10% of design flow.

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Project: LoveSac (Mason, OH)
System/Unit: AHU/RTU



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Asset: RTU-1

AREA:101

Unit Data		
	Design	Actual
MFG	TRANE	BRYANT
Serial Num	-	3322P36423
Model Num	YSJ090	580JE08N180A2
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	-
OA Filter Size 1	-	-
Num PreFilter 1	-	4
PreFilter Size 1	-	20X16

Test Data		
	Design	Actual
SF CFM	3000	3021
RA CFM	2485	3021
OA CFM	515	0
RL Voltage	-	480/481/480
RL Amperage	-	3.21/2.9/2.94
OA Damper Position	-	NOT YET INSTALLED
Brake Horse Power	-	2.03

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	3.1	2.9
Motor Rpm	-	1725
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	4.3
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.28"
Fan Suction SP	-	-0.60"
Fan Discharge SP	-	0.54"
Total ESP	0.8	0.82"
Fan Total SP	-	1.14"

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Notes:

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Project: LoveSac (Mason, OH)

AHU/RTU



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Diffuser Supply (GRD)

RTU-1/101

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-1	100	SR-2	12X6	187	150	179	95.7
1-2	100	SR-2	12X6	170	162	181	106.5
1-3	100	SR-2	12X6	187	154	174	93.0
1-4	100	SR-2	12X6	170	155	177	104.1
1-5	100	SR-2	12X6	187	146	194	103.7
1-6	100	SR-2	12X6	182	152	188	103.3
1-7	100	SR-2	12X6	119	170	124	104.2
1-8	100	SR-2	12X6	107	162	111	103.7
1-9	100B	SD-1	6	54	64	54	100.0
1-10	100A	SD-1	6	96	79	89	92.7
1-11	100	SR-2	12X6	182	164	189	103.8
1-12	100	SR-2	12X6	170	182	170	100.0
1-13	100	SR-2	12X6	182	190	174	95.6
1-14	100	SR-2	12X6	170	180	169	99.4
1-15	101	SR-2	12X6	170	190	164	96.5
1-16	101	SR-2	12X6	187	199	188	100.5
1-17	101	SR-2	12X6	160	180	170	106.3
1-18	101	SR-2	12X6	160	179	164	102.5
1-19	101	SR-2	12X6	160	101	162	101.3

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Project: LoveSac (Mason, OH)

System/Unit: FAN - Exhaust



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Asset: EF-1

AREA:102

Unit Data		
	Design	Actual
MFG	NA	BROAN
Model Num	NA	NOT ACCESSIBLE
Serial Num	-	22L15H
Type	CEILING	CEILING

Test Data		
	Design	Actual
CFM	75	81
RL Voltage	-	122.1
RL Amperage	-	1.24

Motor Data		
	Design	Actual
Motor MFG	-	BROAN
Phase	1	1
Voltage (rated)	120	120
Amperage (rated)	-	1.3
Service Factor	-	

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Notes: