

Report By:

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



**Report: Tom James TAB Report
Function: Test, Adjust, & Balance
Date: 07/25/2023**

PROJECT

Tom James Space (Cincinnati, OH)

120 EAST 4TH STREET

CINCINNATI, OH 45202

Client

**Mechanical Services & Design (MSD)
4401 Springfield St
Dayton, OH 45431**

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Project: Tom James Space (Cincinnati, OH)

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Project: Tom James Space (Cincinnati, OH)

System/Unit: AHU/RTU



Asset: RTU-1

AREA:581

Unit Data		
	Design	Actual
MFG	NA	Carrier
Serial Num	-	0723C05668
Model Num	NA	48FCEA06
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	29.5"X15"
Num PreFilter 1	-	2
PreFilter Size 1	-	16"X25"

Test Data		
	Design	Actual
SF CFM	2000	1950
RA CFM	1580	1546
OA CFM	420	394
RL Voltage	208	212
RL Amperage	9.2	7.3
OA Damper Position	-	4.2v low, 3.9v high

Motor Data		
	Design	Actual
Phase	3	1
Rated Voltage	208	208
Rated Amperage	-	9.2
Service Factor	-	1

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.54
Fan Suction SP	-	-1.01
Fan Discharge SP	-	0.53
Total ESP	0.5	1.07
Fan Total SP	-	1.54

Completed By: Nick Payne on 07/25/2023

Notes:
Supply Grille 1-3 not installed. Duct relocated out into open office. Grille not relocated or installed.

Written By: Nick Payne on 07/25/2023

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Project: Tom James Space (Cincinnati, OH)

AHU/RTU



Diffuser Supply (GRD)

RTU-1/581

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-1		SR-1	12X8	185	225	197	106.5
1-2		SR-2	10X8	250	216	255	102.0
1-3		SR-1	12X8	150	0	0	0.0
1-4		SR-1	12X8	75	206	80	106.7
1-5		SR-2	10X8	250	189	262	104.8
1-6		SR-1	12X8	150	205	152	101.3
1-7		SR-1	12X8	180	226	190	105.6
1-8		SR-1	12X8	180	206	194	107.8
1-9		SR-1	12X8	180	188	189	105.0
1-10		SR-1	12X8	200	215	219	109.5
1-11		SR-1	12X8	200	202	212	106.0
Total				2000	2078	1950	97.5%

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Project: Tom James Space (Cincinnati, OH)

System/Unit: AHU/RTU



Asset: RTU-2

AREA:211

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	0723C05671
Model Num	NA	48FCEA06A2A5
Configuration	-	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	30"x16"
Num PreFilter 1	-	2
PreFilter Size 1	-	16X25X2

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	NL
Motor Rpm	-	NL
Phase	3	1
Rated Voltage	208	208
Rated Amperage	9.2	9.2
Service Factor	-	NL

Test Data		
	Design	Actual
SF CFM	1490	1480
RA CFM	1110	1107
OA CFM	380	373
RL Voltage	208	207.5
RL Amperage	9.2	4.6
OA Damper Position	-	MANUALLY SET

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.38"
Fan Suction SP	-	-0.49"
Fan Discharge SP	-	0.53"
Total ESP	0.50	0.91"
Fan Total SP	-	1.02"

Completed By: Gabe Merk on 11/14/2023

Notes:
Economizer disabled to enable fan. Oa manually set.

7.3dcv fan setpt

Written By: Gabe Merk on 11/14/2023

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Project: Tom James Space (Cincinnati, OH)

AHU/RTU



Diffuser Supply (GRD)

RTU-2/211

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-1	214	CD-1	8	100	149	90	90.0
2-2	210	CD-1	8	185	144	167	90.3
2-3	210	CD-1	8	185	151	172	93.0
2-4	210	CD-1	8	185	168	193	104.3
2-5	210	CD-1	8	180	222	195	108.3
2-6	210	CD-1	8	180	218	179	99.4
2-7	210	CD-1	8	185	206	179	96.8
2-8	213	CD-1	8	60	201	64	106.7
2-9	212	CD-1	8	110	200	121	110.0
2-10	211	CD-1	8	120	252	120	100.0
Total				1490	1911	1480	99.33%

Completed By: Gabe Merk on 11/14/2023