



## National TAB

**Project: Madeira HS Gym HVAC Repl (Cincinnati, OH)**  
**Address: 7465 Loannes Dr Cincinnati, OH 45243**

Scope of work includes (2) RTUs, (3) AHUs, all associated air devices, and (2) HW Coils. All units were placed into full cooling before readings were obtained. Once unit speeds were set, devices were balanced and final performance data were recorded. Note: AHU-2 Serve the wrestling room did not have access to balance the supply registers due to the wrestling mats already installed. The total of the unit was set and is within 10% of design. The Hot water system is not running yet, opposite season testing will be needed.



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Asset: RTU-1A

Unit Data	
Manufacturer	CARRIER
Model Num	50FC-M28B2A6-3F2A0
Serial Num	1423P21395
Configuration	VERTIAL
Num Return Filter	9
Final Return Size	20x25x2

Motor Data	
Horsepower	10
Phase	3
Rated Voltage	460
Rated Amperage	3.5
Service Factor	1.15

Test Data		
	Design	Actual
SF CFM	10000	9896
RA CFM	8000	7770
OA CFM	2000	2126
RL VOLTAGE	460	475/472/474
RL AMPERAGE	3.5	3.0/3.2/2.9
OA Damper Position		33%
Brake Horsepower	4.3	8.85

Performance Data		
	Design	Actual
Mixed Air SP		-0.36
Fan Suction SP		-0.77
Fan Discharge SP		0.35
Fan Total SP	0.6	1.12
Total ESP	0.50	0.71





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Asset: RTU-1B

Unit Data	
Manufacturer	CARRIER
Model Num	50FC-M28B2A6-3F2A0
Serial Num	1423P21396
Configuration	VERTIAL
Num Return Filter	9
Final Return Size	20x25x2

Motor Data	
Horsepower	10
Phase	3
Rated Voltage	460
Rated Amperage	3.5
Service Factor	1.15

Test Data		
	Design	Actual
SF CFM	10000	9642
RA CFM	8000	7723
OA CFM	2000	1919
RL VOLTAGE	460	469/471/473
RL AMPERAGE	3.5	3.3/3.2/3.1
OA Damper Position		1.25"
Brake Horsepower		9.2

Performance Data		
	Design	Actual
Mixed Air SP		-0.33
Fan Suction SP		-0.59
Fan Discharge SP		0.25
Fan Total SP	0.6	0.84
Total ESP	0.50	0.58

