

Report By:

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



Report: PRELIMINARY TAB REPORT

Function: Test, Adjust, & Balance

Date: 06/04/2024

PROJECT

Diamonds Direct (Oak Ridge North, TX)

N Freeway Service Rd & Woodson Rd

Oak Ridge North, TX 77381

Client

Bayside Mechanical Contractors

3514 Pinemont Dr

Houston, TX 77018

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Project: Diamonds Direct (Oak Ridge North, TX)

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Project: Diamonds Direct (Oak Ridge North, TX)

System/Unit: AHU/RTU

Asset: (E)RTU-1

AREA:DIAMOND 1

Unit Data		
	Design	Actual
MFG	NA	CaptiveAire
Serial Num	-	6025121
Model Num	NA	CAS-HVAC2-I.200-18-10T
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	20x30x2
Num PreFilter 1	-	4
PreFilter Size 1	-	30x20x2

Test Data		
	Design	Actual
SF CFM	3000	3390
SF RPM	-	
RA CFM	2400	
OA CFM	600	
RL Voltage	-	
RL Amperage	-	
OA Damper Position	-	4.4V
Brake Horse Power	-	

Motor Data		
	Design	Actual
Motor MFG	-	TECO Westinghouse
Frame	-	184T
Horsepower	-	5
Motor Rpm	-	1750
Phase	-	3
Rated Voltage	-	230
Rated Amperage	-	13.6
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	-	
Fan Total SP	-	

Notes:

Damper handle on 1-8 is free spinning, does not adjust airflow.

Written By: Riley Frady on 06/05/2024



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Project: Diamonds Direct (Oak Ridge North, TX)

Diffuser Supply (GRD)

(E)RTU-1/DIAMOND 1

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-1	MAIN SALES	C	4	150	255	153	102.0
1-2	MAIN SALES	C		140	172	149	106.4
1-3	MAIN SALES	C		150	193	147	98.0
1-4	MAIN SALES	C		140	181	146	104.3
1-5	MAIN SALES	C		200	216	206	103.0
1-6	MAIN SALES	C		200	251	220	110.0
1-7	ENTRY	C	4	100	123	106	106.0
1-8	RECEPTION	A	8	145	149	215	148.3
1-9	ENTRY	C	4	100	158	106	106.0
1-10	MAIN SALES	C		200	151	212	106.0
1-11	MAIN SALES	C		200	225	193	96.5
1-12	MAIN SALES	C		140	165	150	107.1
1-13	MAIN SALES	C		115	189	124	107.8
1-14	MAIN SALES	C		140	249	146	104.3
1-15	MAIN SALES	C		200	200	218	109.0
1-16	DIAMOND 3	A	10	230	166	214	93.0
1-17	DIAMOND 2	A	10	225	180	237	105.3
1-18	DIAMOND 1	A	10	225	150	197	87.6
Total				3000	3373	3139	104.63%



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Project: Diamonds Direct (Oak Ridge North, TX)

System/Unit: AHU/RTU

Asset: (E)RTU-2

AREA:RR VESTIBULE

Unit Data		
	Design	Actual
MFG	NA	CaptiveAire
Serial Num	-	6025121
Model Num	NA	CAS-HVAC2-I.200-18-10T
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	20x30x2
Num PreFilter 1	-	4
PreFilter Size 1	-	16x20x2

Motor Data		
	Design	Actual
Motor MFG	-	TECO Westinghouse
Frame	-	184T
Horsepower	-	5
Motor Rpm	-	1750
Phase	-	3
Rated Voltage	-	230
Rated Amperage	-	13.6
Service Factor	-	1.15

Test Data		
	Design	Actual
SF CFM	3100	2899
SF RPM	-	
RA CFM	2600	
OA CFM	500	
RL Voltage	-	
RL Amperage	-	
OA Damper Position	-	4.2V
Brake Horse Power	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	-	
Fan Total SP	-	



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Project: Diamonds Direct (Oak Ridge North, TX)

Diffuser Supply (GRD)

(E)RTU-2/RR VESTIBULE

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-1	EMPLOYEE LOUNGE	A	10	250	290		-
2-2	HALL	A	8	125	186		-
2-3	HALL	A	8	125	182		-
2-4	VAULT	A	6	100	118		-
2-5	MAIN SALES	C		100	238		-
2-6	MAIN SALES	C		100	249		-
2-7	CLERICAL	A	8	175	145		-
2-8	CLERICAL	A	8	175	194		-
2-9	CLERICAL	A	8	175	166		-
2-10	CLERICAL	A	8	175	188		-
2-11	HALL	A	8	125	99		-
2-12	JEWELER WORK	A	8	175	122		-
2-13	HALL	A	8	125	125		-
2-14	JEWELER WORK	A	8	175	123		-
2-15	GIFT WRAP	A	8	200	83		-
2-16	REAR EXIT	A	8	200	103		-
2-17	MAIN SALES	C		100	132		-
2-18	MAIN SALES	C		100	104		-
2-19	KIDS ROOM	A	8	200	78		-
2-20	MENS RR	A	6	50	47		-
2-21	WOMENS RR	A	6	50	48		-
2-22	RR VESTIBULE	A	6	100	45		-
Total				3100	3065	0	0%

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Project: Diamonds Direct (Oak Ridge North, TX)

System/Unit: FAN - Exhaust



Asset: EF-4

AREA:EMPLOYEE LOUNGE

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	SP-A90
Serial Num	-	
Type	CEILING	

Test Data		
	Design	Actual
CFM	70	
RL Voltage	-	120
RL Amperage	-	
Total ESP	0.20	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	15W	
Motor Rpm	900	
Phase	1	
Voltage (rated)	120	
Amperage (rated)	-	
Service Factor	-	