

Report By:

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



**Report: TAB REPORT
Function: Test, Adjust, & Balance
Date: 06/14/2024**

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

National TAB

Project: Diamonds Direct (Oak Ridge North, TX)

Table Of Contents

Section	Page #
AHU/RTU	3
FAN - Exhaust	7

National TAB

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

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

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)

AHU/RTU



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	4	140	172	149	106.4
1-3	MAIN SALES	C	4	150	193	147	98.0
1-4	MAIN SALES	C	4	140	181	146	104.3
1-5	MAIN SALES	C	4	200	216	206	103.0
1-6	MAIN SALES	C	4	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	4	200	151	212	106.0
1-11	MAIN SALES	C	4	200	225	193	96.5
1-12	MAIN SALES	C	4	140	165	150	107.1
1-13	MAIN SALES	C	4	115	189	124	107.8
1-14	MAIN SALES	C	4	140	249	146	104.3
1-15	MAIN SALES	C	4	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%

Diffuser Ret/Exh (GRD)

(E)RTU-1/DIAMOND 1

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R1-1	D		155					-
R1-2	D		155					-
R1-3	D		155					-
R1-4	D		75					-
R1-5	D		75					-
R1-6	D		100					-
R1-7	D		155					-
R1-8	D		155					-
R1-9	D		155					-
R1-10	B	8X8	200					-
R1-11	D		155					-
R1-12	D		155					-
R1-13	D		155					-
R1-14	D		155					-
R1-15	B	8X8	200					-
R1-16	B	8X8	200					-
Total			2400		0	0	0	0%

National TAB

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	-	

National TAB

Project: Diamonds Direct (Oak Ridge North, TX)

AHU/RTU



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	254	101.6
2-2	HALL	A	8"	125	186	127	101.6
2-3	HALL	A	8"	125	182	134	107.2
2-4	VAULT	A	6"	100	118	104	104.0
2-5	MAIN SALES	C	4	100	238	108	108.0
2-6	MAIN SALES	C	4	100	249	109	109.0
2-7	CLERICAL	A	8"	175	145	175	100.0
2-8	CLERICAL	A	8"	175	194	171	97.7
2-9	CLERICAL	A	8"	175	166	180	102.9
2-10	CLERICAL	A	8"	175	188	172	98.3
2-11	HALL	A	8"	125	99	123	98.4
2-12	JEWELER WORK	A	8"	175	122	150	85.7
2-13	HALL	A	8"	125	125	122	97.6
2-14	JEWELER WORK	A	8"	175	123	148	84.6
2-15	GIFT WRAP	A	8"	200	83	101	50.5
2-16	REAR EXIT	A	8"	200	103	120	60.0
2-17	MAIN SALES	C	4	100	132	108	108.0
2-18	MAIN SALES	C	4	100	104	110	110.0
2-19	KIDS ROOM	A	8"	200	78	96	48.0
2-20	MENS RR	A	6"	50	47	52	104.0
2-21	WOMENS RR	A	6	50	48	53	106.0
2-22	RR VESTIBULE	A	6	100	45	91	91.0
Total				3100	3065	2808	90.58%

Diffuser Ret/Exh (GRD)

(E)RTU-2/RR VESTIBULE

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R2-1	B	8X8	150					-
R2-2	B	6X6	50					-
R2-3	B	12X12	500					-
R2-4	B	22X22	1750					-
R2-5	B	8X8	150					-
Total			2600		0	0	0	0%

National TAB

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	-	