

Report By:

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Report: Prelim Report
Function: Test, Adjust, & Balance
Date: 04/03/2026
Completed By: National TAB

PROJECT
Shell Shack (Arlington, TX)

4000 Five Points Blvd

Arlington, TX 76018

Client

NDT Heating and AC
2333 Lancecrest Dr.
Garland, TX 75044

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Project: Shell Shack (Arlington, TX)

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National TAB

Project: Shell Shack (Arlington, TX)

System/Unit: AHU/RTU

Asset: RTU-1

AREA:BAR DINING 104

Unit Data	
	Actual
MFG	DAIKIN
Serial Num	2602011503
Model Num	DHG1204LH00227CAA
Configuration	VERTICAL
Num OA Filters 1	2
OA Filter Size 1	25X16X1
Num Final Filter 1	2
Final Filter Size 1	25X25X2
Num Final Filter 2	2
Final Filter Size 2	20X25X2

Motor Data	
	Actual
Motor MFG	BROAD-OCEAN
Horsepower	3.5
Motor Rpm	300-1600
Phase	3
Rated Voltage	460
Rated Amperage	7.2

Test Data		
	Design	Actual
SF CFM	4000	4175
RA CFM	3125	3304
OA CFM	875	871
RL Voltage	460	483/483/483
RL Amperage	7.2	4.1/3.8/4.1
SF System SetPt	-	60%
OA Damper Position	-	13%
Brake Horse Power	-	1.94

Performance Data		
	Design	Actual
Fan Suction SP	-	-.83
Fan Discharge SP	-	0.71
Total ESP	1.18	1.26
Fan Total SP	-	1.54
Final Filters P.D.	-	0.28
Cooling Coil P.D.	-	[1]
OA Temp (db/wb)	-	75/68
MA Temp (db/wb)	-	73/66
SA Temp (db/wb)	-	56/53

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Notes:

[1] COOLING COIL PRESSURE DROP IS COMBINED WITH FINAL FILTER PRESSURE DROP SINCE THERE IS NO SPACE BETWEEN THE FILTERS AND COOLING COIL TO TAKE A PRESSURE READING.

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Unit Data - PHOTO LOG



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Project: Shell Shack (Arlington, TX)

AHU/RTU

Diffuser Supply (GRD)

RTU-1/BAR DINING 104

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	CFM(2)	FINAL CFM	% to design
1-1	RR VESTIVULE 106	S5	10	400	261	308	417	104.3
1-2	WOMENS RR 107	S3	6	100	107	114	101	101.0
1-3	MENS RR 108	S3	6	100	126	134	96	96.0
1-4	BAR DINING 104	S4	10	500	475	539	537	107.4
1-5	BAR DINING 104	S4	10	500	421	484	530	106.0
1-6	BAR 105	S1	10	400	299	336	381	95.3
1-7	BAR DINING 104	S4	10	500	391	457	520	104.0
1-8	BAR DINING 104	S4	10	500	375	426	550	110.0
1-9	BAR DINING 104	S4	10	500	436	497	532	106.4
1-10	BAR DINING 104	S4	10	500	501	526	511	102.2
Total				4000	3392	3821	4175	104.38%



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Project: Shell Shack (Arlington, TX)

System/Unit: AHU/RTU

Asset: RTU-2

AREA:DINING 102/103

Unit Data	
	Actual
MFG	DAIKIN
Serial Num	2602006871
Model Num	DHG1204LH00227CAA
Configuration	VERTICAL
Num OA Filters 1	2
OA Filter Size 1	25X16X1
Num Final Filter 1	2
Final Filter Size 1	25X25X2
Num Final Filter 2	2
Final Filter Size 2	20X25X2

Motor Data	
	Actual
Motor MFG	BROAD-OCEAN
Horsepower	3.5
Motor Rpm	300-1600
Phase	3
Rated Voltage	460
Rated Amperage	7.2

Test Data		
	Design	Actual
SF CFM	4000	4218
RA CFM	3125	3333
OA CFM	875	885
RL Voltage	460	477/477/478
RL Amperage	7.2	4.1/3.9/4.0
SF System SetPt	-	60%
OA Damper Position	-	10%
Brake Horse Power	-	1.94

Performance Data		
	Design	Actual
Fan Suction SP	-	-0.85
Fan Discharge SP	-	0.74
Total ESP	1.18	1.35
Fan Total SP	-	1.59
Final Filters P.D.	-	0.24
Cooling Coil P.D.	-	[1]
OA Temp (db/wb)	-	77/69
MA Temp (db/wb)	-	72/64
SA Temp (db/wb)	-	56/53

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Unit Data - PHOTO LOG



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Project: Shell Shack (Arlington, TX)

AHU/RTU

Diffuser Supply (GRD)

RTU-2/DINING 102/103

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	CFM(2)	FINAL CFM	% to design
2-1	DINING 102	S4	10	500	525	484	536	107.2
2-2	DINING 103	S4	10	500	560	499	541	108.2
2-3	DINING 103	S4	10	500	670	590	530	106.0
2-4	DINING 102	S4	10	500	560	481	539	107.8
2-5	DINING 102	S4	10	500	550	482	536	107.2
2-6	DINING 102	S4	10	500	586	515	526	105.2
2-7	ENTRY 100	S4	10	500	614	578	504	100.8
2-8	HOST 101	S4	10	500	671	594	506	101.2
Total				4000	4736	4223	4218	105.45%



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Project: Shell Shack (Arlington, TX)

System/Unit: AHU/RTU

Asset: DOAS-1

AREA:KITCHEN

Unit Data	
	Actual
MFG	CAPTIVEAIRE
Serial Num	7569549
Model Num	CAS-HVAC3-I.300-20-20T
Configuration	VERTICAL
Num PreFilter 1	4
PreFilter Size 1	16X25X2
Num Final Filter 1	8
Final Filter Size 1	20X25X2

Motor Data	
	Actual
Motor MFG	TECO WESTINGHOUSE
Frame	213T
Horsepower	3
Motor Rpm	1175
Phase	3
Rated Voltage	460
Rated Amperage	4.60
Service Factor	1.15

Test Data		
	Design	Actual
SF CFM	3250	3363
RA CFM	0	0
OA CFM	3250	3363
RL Voltage	460	463/464/462
RL Amperage	4.60	4.1/3.9/4.2
SF Motor Freq(HZ)	-	68.3
RA Damper Position	-	0%
OA Damper Position	-	100%
Min OA Damper Position	-	100%
Brake Horse Power	-	2.65

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.14
Fan Suction SP	-	-0.94
Fan Discharge SP	-	0.15
Total ESP	0.650	0.29
Fan Total SP	-	1.09
Final Filters P.D.	-	0.80
Cooling Coil P.D.	-	[1]
OA Temp (db/wb)	-	75/69
MA Temp (db/wb)	-	74/69
SA Temp (db/wb)	-	55/52

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Unit Data - PHOTO LOG



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National TAB

Project: Shell Shack (Arlington, TX)

AHU/RTU

Diffuser Supply (GRD)

DOAS-1/KITCHEN

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
D1-1	PREP AREA 112	S2	10	315	261	340	107.9
D1-2	COOKLINE 113	S2	10	315	266	315	100.0
D1-3	PREP AREA 112	S2	10	315	256	334	106.0
D1-4	PREP AREA 112	S2	10	315	253	331	105.1
D1-5	COOKLINE 113	S2	10	315	236	314	99.7
D1-6	KITCHEN 109	S2	10	315	264	344	109.2
D1-7	KITCHEN 109	S2	10	315	264	341	108.3
D1-8	DISH AREA 114	S2	10	315	221	303	96.2
D1-9	DISH AREA 114	S2	10	315	253	324	102.9
D1-10	OFFICE 115	S3	6	100	90	102	102.0
D1-11	DISH AREA 114	S2	10	315	235	315	100.0
Total				3250	2599	3363	103.48%



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Project: Shell Shack (Arlington, TX)

System/Unit: FAN - Exhaust

Asset: EF-1

AREA:SERVES HD-1

Unit Data	
	Actual
MFG	CAPTIVEAIRE
Model Num	DU85HFA
Serial Num	7569549
Type	CENTRIFUGAL

Motor Data	
	Actual
Motor MFG	TELCO GREEN
Horsepower	1.00
Motor Rpm	1800
Phase	1
Voltage (rated)	115
Amperage (rated)	11.7

Test Data		
	Design	Actual
CFM	1800	1847
System SetPt	-	68%
RL Voltage	115	120
RL Amperage	11.7	5.7
Suction ESP	-	-0.40
Discharge ESP	-	ATM
Total ESP	1.000	0.40
Brake Horse Power	-	0.49

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Project: Shell Shack (Arlington, TX)

System/Unit: FAN - Exhaust

Asset: EF-2

AREA:SERVES HD-2

Unit Data	
	Actual
MFG	CAPTIVEAIRE
Model Num	DU85HFA
Serial Num	7569549
Type	CENTRIFUGAL

Motor Data	
	Actual
Motor MFG	TELCO GREEN
Horsepower	1.00
Motor Rpm	1800
Phase	1
Voltage (rated)	115
Amperage (rated)	11.6

Test Data		
	Design	Actual
CFM	2025	2034
System SetPt	-	75%
RL Voltage	115	119
RL Amperage	11.6	7.0
Suction ESP	-	-0.58
Discharge ESP	-	ATM
Total ESP	1.000	0.58
Brake Horse Power	-	0.60

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Unit Data - PHOTO LOG



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Project: Shell Shack (Arlington, TX)

System/Unit: FAN - Exhaust

Asset: EF-3

AREA:SERVES HD-3

Unit Data	
	Actual
MFG	CAPTIVEAIRE
Model Num	DU33HFA
Serial Num	7569549
Type	CENTRIFUGAL

Motor Data	
	Actual
Motor MFG	TELCO GREEN
Horsepower	0.33
Motor Rpm	1800
Phase	1
Voltage (rated)	115
Amperage (rated)	4.3

Test Data		
	Design	Actual
CFM	525	523
System SetPt	-	55%
RL Voltage	115	121
RL Amperage	4.3	1.1
Suction ESP	-	-0.15
Discharge ESP	-	ATM
Total ESP	0.500	0.15
Brake Horse Power	-	0.08

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Project: Shell Shack (Arlington, TX)

System/Unit: FAN - Exhaust

Asset: EF-4

AREA:RR

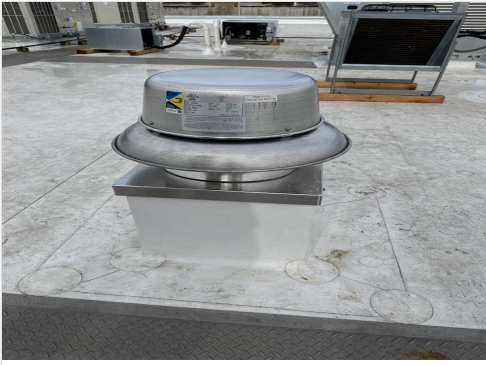
Unit Data	
	Actual
MFG	JENCO FAN
Model Num	SDBD07
Serial Num	Y170665
Type	CENTRIFUGAL

Motor Data	
	Actual
Horsepower	0.10
Motor Rpm	1550
Phase	1
Voltage (rated)	115
Amperage (rated)	0.96

Test Data		
	Design	Actual
CFM	300	310
RL Voltage	115	120
RL Amperage	0.96	0.7
Suction ESP	-	-0.12
Discharge ESP	-	ATM
Total ESP	0.375	0.12
Brake Horse Power	-	0.07

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Unit Data - PHOTO LOG



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National TAB

Project:Shell Shack (Arlington, TX)

FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF-4/RR

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
E4-1	MEN'S RR 108	X1	6	75		95	81	108.0
E4-2	MEN'S RR 108	X1	6	75		68	77	102.7
E4-3	WOMEN'S RR 107	X1	6	75		59	70	93.3
E4-4	WOMEN'S RR 107	X1	6	75		86	82	109.3
Total				300		308	310	103.33%



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Project: Shell Shack (Arlington, TX)

System/Unit: Kitchen Hood Type I

Asset: HOOD-1

AREA:COOKLINE 113

Unit Data	
	Actual
MFG	CAPTIVEAIRE
Model Num	6630 ND-2
Job / Serial Num	7569549
Type	TYPE I
Hood length	108"
Hood Width	66"

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	20"X16"	20"X16"
Filter Qty 1	6	6
Filter AK factor size 1	-	2.08
Filter Total AK Area	-	12.48
Filter1 FPM	-	148
Filter2 FPM	-	150
Filter3 FPM	-	155
Filter4 FPM	-	158
Filter5 FPM	-	141
Filter6 FPM	-	141
Filter Ave FPM(corr)	-	148
CFM	1800	1847

Cooking Equipment	
	Actual
Item 1	GAS STOVE/FLAT TOP GRILL
Item 2	GAS STOVE

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Unit Data - PHOTO LOG



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Project: Shell Shack (Arlington, TX)

System/Unit: Kitchen Hood Type I

Asset: HOOD-2

AREA:

Unit Data	
	Actual
MFG	CAPTIVEAIRE
Model Num	6030 ND-2
Job / Serial Num	7569549
Type	TYPE I
Hood length	108"
Hood Width	60"

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	20"X16"	20"X16"
Filter Qty 1	6	6
Filter AK factor size 1	-	2.08
Filter Total AK Area	-	12.48
Filter1 FPM	-	155
Filter2 FPM	-	162
Filter3 FPM	-	175
Filter4 FPM	-	168
Filter5 FPM	-	157
Filter6 FPM	-	163
Filter Ave FPM(corr)	-	163
CFM	2025	2034

Cooking Equipment	
	Actual
Item 1	DOUBLE STACKED OVENS
Item 2	FRYER (X3)

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Unit Data - PHOTO LOG



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Project: Shell Shack (Arlington, TX)

System/Unit: Kitchen Hood Type II

Asset: HOOD-3

AREA:

Unit Data	
	Actual
MFG	CAPTIVEAIRE
Model Num	4230 VHB-G
Serial Num	7569549
Type	TYPE II
Hood length	42"
Hood Width	42"

Test Data		
	Design	Actual
Exhaust CFM	525	523

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Unit Data - PHOTO LOG



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