

National TAB

Project: 08-11-25 WHATABURGER #1589 FULSHEAR, TX

System/Unit: AHU/RTU



Asset: RTU1

AREA:KITCHEN

Unit Data		
	Design	Actual
MFG	AAON	AAON
Serial Num	-	202505-BNEP33657
Model Num	RN-020-8-0-GB04-179	RN-020-3-0-FABY-S0-21
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	3
OA Filter Size 1	-	20X25X1
Num Final Filter 1	-	6
Final Filter Size 1	-	20X25X2

Motor Data		
	Design	Actual
Motor MFG	-	NIDEC MOTOR
Frame	-	213T
Horsepower	3.00	3.00
Motor Rpm	-	1175
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	9.4

Drive Data	
	Actual
Motor Sheave Size	DIRECT DRIVE

Test Data		
	Design	Actual
SF CFM	3850	3932
SF RPM	928	1135
RA CFM	1390	1453
OA CFM	2460	2479
RL Voltage	-	298 VFD
RL Amperage	-	8.1 VFD
SF Rotation	-	CW
SF System SetPt	-	58 HZ
RA Damper Position	-	80%
Min OA Damper Position	-	20%
Min OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	Actual
MA Plenum SP	-	-1.11"
Fan Suction SP	-	-1.42"
Fan Discharge SP	-	0.38"
Total ESP	0.75'	1.49"
Fan Total SP	-	1.80"

General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	YES
Condensate Drain Installed	YES

Completed By: Oscar Ventura on 08/11/2025

Unit Data - PHOTO LOG



08/11/2025

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Project:08-11-25 WHATABURGER #1589 FULSHEAR, TX

AHU/RTU



Diffuser Supply (GRD)

RTU1/KITCHEN

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	KITCHEN	H10	12"	150	1	124	148	153	102.0
SGRD2	KITCHEN	A5	10"	175	1	145	167	179	102.3
SGRD3	KITCHEN	A5	10"	320	1	166	199	309	96.6
SGRD4	KITCHEN	A3	6"	190	1	82	103	176	92.6
SGRD5	KITCHEN	A6	12"	450	1	472	553	459	102.0
SGRD6	KITCHEN	A3	6"	70	1	44	54	74	105.7
SGRD7	KITCHEN	A6	12"	450	1	398	542	476	105.8
SGRD8	KITCHEN	A6	12"	450	1	459	485	481	106.9
SGRD9	KITCHEN	A6	12"	450	1	397	457	463	102.9
SGRD10	KITCHEN	P1	8"	200	1	124	187	211	105.5
SGRD11	KITCHEN	A5	10"	345	1	276	341	340	98.6
SGRD12	KITCHEN	A6	12"	450	1	390	461	458	101.8
SGRD13	RESTROOM	B3	6"	75	1	66	79	77	102.7
SGRD14	RESTROOM	B3	6"	75	1	82	92	76	101.3
Total				3850		3225	3868	3932	102.13%

Completed By: Oscar Ventura on 08/11/2025

National TAB

Project: 08-11-25 WHATABURGER #1589 FULSHEAR, TX

System/Unit: AHU/RTU



Asset: RTU2

AREA:DINING

Unit Data		
	Design	Actual
MFG	AAON	AAON
Serial Num	-	202504-ANEK33645
Model Num	RN-013-8-0-GB04-159	RN-013-3-0-FABY-S0-21
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	20X25X1
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2

Test Data		
	Design	Actual
SF CFM	2050	2136
SF RPM	1184	1173
RA CFM	500	514
OA CFM	1550	1597
RL Voltage	-	303 VFD
RL Amperage	-	1.9 VFD
SF Rotation	-	CCW
SF System SetPt	-	59 HZ
RA Damper Position	-	85%
Min OA Damper Position	-	15%
Min OA Damper Type	-	ECONOMIZER

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR RELIANCE
Frame	-	184T
Horsepower	2.00	2.0
Motor Rpm	-	1175
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	6.8

Performance Data		
	Design	Actual
MA Plenum SP	-	-1.08"
Fan Suction SP	-	-1.26"
Fan Discharge SP	-	0.48"
Total ESP	0.5"	1.56"
Fan Total SP	-	1.74"

Drive Data	
	Actual
Motor Sheave Size	DIRECT DRIVE

General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	YES
Condensate Drain Installed	YES

Completed By: Oscar Ventura on 08/12/2025

Unit Data - PHOTO LOG



08/11/2025

National TAB

Project:08-11-25 WHATABURGER #1589 FULSHEAR, TX

AHU/RTU



Diffuser Supply (GRD)

RTU2/DINING

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	DINING	P3	8"	100	1	243	158	106	106.0
SGRD2	DINING	P3	8"	100	1	236	142	99	99.0
SGRD3	DINING	P3	8"	100	1	329	177	103	103.0
SGRD4	DINING	P3	8"	100	1	127	132	106	106.0
SGRD5	DINING	P3	8"	100	1	184	193	105	105.0
SGRD6	DINING	P3	8"	100	1	166	122	95	95.0
SGRD7	DINING	P3	8"	100	1	179	149	101	101.0
SGRD8	DINING	P3	8"	100	1	240	188	106	106.0
SGRD9	DINING	P3	8"	100	1	259	193	103	103.0
SGRD10	DINING	P3	8"	100	1	306	204	104	104.0
SGRD11	DINING	P3	8"	100	1	237	155	105	105.0
SGRD12	DINING	P3	8"	100	1	211	183	104	104.0
SGRD13	DINING	P3	8"	100	1	106	88	105	105.0
SGRD14	DINING	P3	8"	170	1	68	103	183	107.6
SGRD15	DINING	A4	8"	145	1	93	113	156	107.6
SGRD16	DINING	A4	8"	145	1	88	159	147	101.4
SGRD17	DINING	A4	8"	145	1	36	139	153	105.5
SGRD18	DINING	A4	8"	145	1	102	118	155	106.9
Total				2050		3210	2716	2136	104.2%

National TAB

Project:08-11-25 WHATABURGER #1589 FULSHEAR, TX



Diffuser Supply (GRD)

RTU1/KITCHEN

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	KITCHEN	H10	12"	150	1	124	148	153	102.0
SGRD2	KITCHEN	A5	10"	175	1	145	167	179	102.3
SGRD3	KITCHEN	A5	10"	320	1	166	199	309	96.6
SGRD4	KITCHEN	A3	6"	190	1	82	103	176	92.6
SGRD5	KITCHEN	A6	12"	450	1	472	553	459	102.0
SGRD6	KITCHEN	A3	6"	70	1	44	54	74	105.7
SGRD7	KITCHEN	A6	12"	450	1	398	542	476	105.8
SGRD8	KITCHEN	A6	12"	450	1	459	485	481	106.9
SGRD9	KITCHEN	A6	12"	450	1	397	457	463	102.9
SGRD10	KITCHEN	P1	8"	200	1	124	187	211	105.5
SGRD11	KITCHEN	A5	10"	345	1	276	341	340	98.6
SGRD12	KITCHEN	A6	12"	450	1	390	461	458	101.8
SGRD13	RESTROOM	B3	6"	75	1	66	79	77	102.7
SGRD14	RESTROOM	B3	6"	75	1	82	92	76	101.3
Total				3850		3225	3868	3932	102.13%

Completed By: Oscar Ventura on 08/11/2025

RTU2/DINING

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	DINING	P3	8"	100	1	243	158	106	106.0
SGRD2	DINING	P3	8"	100	1	236	142	99	99.0
SGRD3	DINING	P3	8"	100	1	329	177	103	103.0
SGRD4	DINING	P3	8"	100	1	127	132	106	106.0
SGRD5	DINING	P3	8"	100	1	184	193	105	105.0
SGRD6	DINING	P3	8"	100	1	166	122	95	95.0
SGRD7	DINING	P3	8"	100	1	179	149	101	101.0
SGRD8	DINING	P3	8"	100	1	240	188	106	106.0
SGRD9	DINING	P3	8"	100	1	259	193	103	103.0
SGRD10	DINING	P3	8"	100	1	306	204	104	104.0
SGRD11	DINING	P3	8"	100	1	237	155	105	105.0
SGRD12	DINING	P3	8"	100	1	211	183	104	104.0
SGRD13	DINING	P3	8"	100	1	106	88	105	105.0
SGRD14	DINING	P3	8"	170	1	68	103	183	107.6
SGRD15	DINING	A4	8"	145	1	93	113	156	107.6
SGRD16	DINING	A4	8"	145	1	88	159	147	101.4
SGRD17	DINING	A4	8"	145	1	36	139	153	105.5
SGRD18	DINING	A4	8"	145	1	102	118	155	106.9
Total				2050		3210	2716	2136	104.2%

TRAVERSES/

Asset					
Asset Name	Size	DESIGN CFM	VEL(1)	FINAL CFM	% to design
RETURN TRAVERSE - RTU 1	20X20	1390	527	1467	105.5
Total		1390		1467	105.54%

National TAB

Project: 08-11-25 WHATABURGER #1589 FULSHEAR, TX

System/Unit: FAN - Exhaust



Asset: EF1

AREA:RESTROOM

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	G-080-VG	90C15DH90
Serial Num	-	060PL62333
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	US MOTORS
Frame	-	48Y
Horsepower	0.10	1/8
Motor Rpm	-	1600
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	1.7
Service Factor	-	NL

Test Data		
	Design	Actual
CFM	300	303
Fan RPM	1680	DIRECT DRIVE
Fan Rotation	-	CCW
Motor RPM	-	DIRECT DRIVE
System SetPt	-	80%(SPEED DIAL)
RL Voltage	-	121
RL Amperage	-	1.1
Total ESP	0.50"	0.16"
Fan Inlet SP	-	-0.16"
Fan Discharge SP	-	ATM

Completed By: Oscar Ventura on 08/11/2025

Unit Data - PHOTO LOG



08/11/2025

National TAB

Project:08-11-25 WHATABURGER #1589 FULSHEAR, TX

FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF1/RESTROOM

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	RESTROOM	F1	6X6	150	1	57	129	147	98.0
EGRD2	RESTROOM	F1	6X6	150	1	146	196	156	104.0
Total				300		203	325	303	101%

Completed By: Oscar Ventura on 08/11/2025

National TAB

Project: 08-11-25 WHATABURGER #1589 FULSHEAR, TX

System/Unit: FAN - Exhaust



Asset: KEF1

AREA:KITCHEN GRILL HD

Unit Data		
	Design	Actual
MFG	GEENHECK	CAPTIVEAIRE
Model Num	CUE-140-VG	DU180HFA
Serial Num	-	7379589
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	TELCO GREEN
Frame	-	NL
Horsepower	0.75	2
Motor Rpm	-	1200
Phase	1	1
Voltage (rated)	208	208
Amperage (rated)	-	14
Service Factor	-	NL

Test Data		
	Design	Actual
CFM	1995	1884
Fan RPM	1517	684
Fan Rotation	-	CCW
Motor RPM	-	684
System SetPt	-	48%
RL Voltage	-	213
RL Amperage	-	2.2
Total ESP	1.00"	0.34"
Fan Inlet SP	-	-0.34"
Fan Discharge SP	-	ATM

Completed By: Oscar Ventura on 08/11/2025

Unit Data - PHOTO LOG



08/11/2025

National TAB

Project: 08-11-25 WHATABURGER #1589 FULSHEAR, TX

System/Unit: FAN - Exhaust



Asset: KEF2

AREA: KITCHEN FRYER HD

Unit Data		
	Design	Actual
MFG	GREENHECK	CAPTIVEAIRE
Model Num	CUE-120-VG	DU50HFA
Serial Num	-	7379589
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Test Data		
	Design	Actual
CFM	1216	1188
Fan RPM	1415	1208
Fan Rotation	-	CCW
Motor RPM	-	1208
System SetPt	-	60%
RL Voltage	-	213
RL Amperage	-	2.2
Total ESP	0.75"	0.29"
Fan Inlet SP	-	-0.29"
Fan Discharge SP	-	ATM

Motor Data		
	Design	Actual
Motor MFG	-	TELCO GREEN
Frame	-	NL
Horsepower	0.50	1/2
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	208	208
Amperage (rated)	-	3.8
Service Factor	-	NL

Completed By: Oscar Ventura on 08/11/2025

Unit Data - PHOTO LOG



08/11/2025

National TAB

Project: 08-11-25 WHATABURGER #1589 FULSHEAR, TX

System/Unit: Kitchen Hood Type I



Asset: HD1

AREA: KITCHEN GRILL

Unit Data		
	Design	Actual
MFG	H&K DALLAS INC.	H&K INTERNATIONAL
Model Num	CUSTOM	HKD027
Job / Serial Num	-	8167683-001
Type	TYPE 1 CANOPY	TYPE I CANOPY
Hood length	-	166"
Hood Width	-	56"

Test Data Exhaust		
	Design	Actual
Filter Type	-	BAFFLE
Filter Size 1	-	12X20
Filter Qty 1	-	8
Filter AK factor size 1	-	1.5
Filter Total AK Area	-	12
Filter1 FPM	-	132
Filter2 FPM	-	160
Filter3 FPM	-	173
Filter4 FPM	-	140
Filter5 FPM	-	150
Filter6 FPM	-	181
Filter7 FPM	-	173
Filter8 FPM	-	150
Filter Ave FPM(corr)	-	157
CFM	1994	1884

Cooking Equipment	
	Actual
Item 1	GRILLS

Completed By: Oscar Ventura on 08/11/2025

Unit Data - PHOTO LOG



08/11/2025

National TAB

Project: 08-11-25 WHATABURGER #1589 FULSHEAR, TX

System/Unit: Kitchen Hood Type I



Asset: HD2

AREA: KITCHEN FRYER

Unit Data		
	Design	Actual
MFG	H&K DALLAS INC.	H&K INTERNATIONAL INC.
Model Num	CUSTOM	HKD023
Job / Serial Num	-	8168759-001
Type	TYPE 1 CANOPY	TYPE I CANOPY
Hood length	-	72"
Hood Width	-	26"

Test Data Exhaust		
	Design	Actual
Filter Type	-	BAFFLE
Filter Size 1	-	12X16
Filter Qty 1	-	4
Filter AK factor size 1	-	1.16
Filter Total AK Area	-	4.64
Filter1 FPM	-	238
Filter2 FPM	-	279
Filter3 FPM	-	272
Filter4 FPM	-	235
Filter Ave FPM(corr)	-	256
CFM	1216	1188

Cooking Equipment	
	Actual
Item 1	FRYERS

Completed By: Oscar Ventura on 08/11/2025

Unit Data - PHOTO LOG



08/11/2025