

National TAB

Project: 11-06-23 HOMEWARD KITCHEN - SOUTHERN PINES, NC



System/Unit: AHU/RTU

Asset: EX RTU1

AREA:

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	5602K00444
Model Num	LGA102HH3Y	LGA102HH3Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	23.375X14.375
Num Final Filter 1	-	4
Final Filter Size 1	-	18X24X2

Motor Data		
	Design	Actual
Motor MFG	-	EMERSON
Frame	-	56 HZ
Horsepower	2	2
Motor Rpm	1725	1725
Phase	3	3
Rated Voltage	208	208
Rated Amperage	7.6	7.6

Drive Data		
	Design	Actual
Motor Sheave Size	-	3.5"
Motor Bore Size	-	0.875"
Motor Sheave SetPt	-	3 TO
Fan Sheave Size	-	AK63
Fan Sheave Bore	-	1"
Belt CL Distance	-	16"
Num of Belts	-	1
Belt Size	-	AX46
Belt Alignment	-	CORRECT

Test Data		
	Design	Actual
SF CFM	2720	
SF RPM	-	
RA CFM	-	
OA CFM	750	
RL Voltage	-	
RL Amperage	-	
SF Rotation	-	
RA Damper Position	-	
Min OA Damper Position	-	
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	D

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

General		
	Design	Actual
Fan Rotation Correct	-	
Unit Filters Clean	-	NO
Condensate Drain Installed	-	YES

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Project:11-06-23 HOMEWARD KITCHEN - SOUTHERN PINES, NC

AHU/RTU



Diffuser Supply (GRD)

EX RTU1/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	DINING	NA	NA	175	1	338	187	187	106.9
SGRD2	DINING	NA	NA	175	1	245	184	184	105.1
SGRD3	DINING	NA	NA	590	1	448	456	469	79.5
SGRD4	DINING	NA	NA	590	1	563	598	560	94.9
SGRD5	DINING	NA	NA	595	1	518	550	556	93.4
SGRD6	DINING	NA	NA	595	1	543	568	560	94.1
Total				2720		2655	2543	2516	92.5%

Diffuser Ret/Exh (GRD)

EX RTU1/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	ENTRY	NA	NA	860	1	1060	1060	1060	123.3
EGRD2	ENTRY	NA	NA	860	1	937	937	937	109.0
Total				1720		1997	1997	1997	116.1%

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Project: 11-06-23 HOMEWARD KITCHEN - SOUTHERN PINES, NC

System/Unit: AHU/RTU



Asset: EX RTU2

AREA:

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	5615F08094
Model Num	LGH150S4BH4Y	LGH150S4BH4Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	-
Num Final Filter 1	-	4
Final Filter Size 1	-	-

Motor Data		
	Design	Actual
Motor MFG	-	US MOTORS
Frame	-	184 TZ
Horsepower	5	5
Motor Rpm	1765	1765
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	15.8

Drive Data		
	Design	Actual
Motor Sheave Size	-	5"
Motor Bore Size	-	1"
Motor Sheave SetPt	-	1 TO
Fan Sheave Size	-	7.5"
Fan Sheave Bore	-	0.875"
Belt CL Distance	-	21"
Num of Belts	-	1
Belt Size	-	BX59
Belt Alignment	-	CORRECT

Test Data		
	Design	Actual
SF CFM	3800	-
SF RPM	-	-
RA CFM	-	-
OA CFM	-	-
RL Voltage	-	-
RL Amperage	-	-
SF Rotation	-	-
RA Damper Position	-	-
Min OA Damper Position	-	-
Min OA Damper Type	-	-
OA Enthalpy Setpt	-	-

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

General		
	Design	Actual
Fan Rotation Correct	-	-
Unit Filters Clean	-	NO
Condensate Drain Installed	-	YES

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Project:11-06-23 HOMEWARD KITCHEN - SOUTHERN PINES, NC

AHU/RTU



Diffuser Supply (GRD)

EX RTU2/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	KITCHEN	NA	NA	350					-
SGRD2	KITCHEN	NA	NA	350					-
SGRD3	KITCHEN	NA	NA	400					-
SGRD4	KITCHEN	NA	NA	150					-
SGRD5	KITCHEN	NA	NA	400					-
SGRD6	KITCHEN	NA	NA	400					-
SGRD7	KITCHEN	NA	NA	400					-
SGRD8	KITCHEN	NA	NA	300					-
SGRD9	KITCHEN	NA	NA	300					-
SGRD10	KITCHEN	NA	NA	250					-
SGRD11	KITCHEN	NA N	NA	250					-
SGRD12	KITCHEN	NA	NA	250					-
Total				3800		0	0	0	0%

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Project: 11-06-23 HOMEWARD KITCHEN - SOUTHERN PINES, NC

System/Unit: AHU/RTU



Asset: EX RTU4

AREA:

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	5602K00411
Model Num	LGA90HH2Y	LGA90HH2Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	23.125X14.5
Num Final Filter 1	-	4
Final Filter Size 1	-	18X24X2

Motor Data		
	Design	Actual
Motor MFG	-	EMERSON
Frame	-	56 HZ
Horsepower	2	2
Motor Rpm	1725	1725
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	7.6

Drive Data		
	Design	Actual
Motor Sheave Size	-	3.75"
Motor Bore Size	-	0.875"
Motor Sheave SetPt	-	4 TO
Fan Sheave Size	-	AK69
Fan Sheave Bore	-	0.875"
Belt CL Distance	-	17"
Num of Belts	-	1
Belt Size	-	AX46
Belt Alignment	-	CORRECT

Test Data		
	Design	Actual
SF CFM	2400	
SF RPM	-	
RA CFM	1800	
OA CFM	600	
RL Voltage	-	
RL Amperage	-	
SF Rotation	-	
RA Damper Position	-	
Min OA Damper Position	-	
Min OA Damper Type	-	
OA Enthalpy Setpt	-	

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

General		
	Design	Actual
Fan Rotation Correct	-	YES
Unit Filters Clean	-	NO
Condensate Drain Installed	-	YES

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Project:11-06-23 HOMEWARD KITCHEN - SOUTHERN PINES, NC

AHU/RTU



Diffuser Supply (GRD)

EX RTU4/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	DINING	NA	NA	200	1	203	185	174	87.0
SGRD2	DINING	NA	NA	350	1	418	322	316	90.3
SGRD3	DINING	NA	NA	350	1	305	317	317	90.6
SGRD4	DINING	NA	NA	440	1	359	359	379	86.1
SGRD5	DINING	NA	NA	440	1	340	356	357	81.1
SGRD6	DINING	NA	NA	440	1	424	432	391	88.9
Total				2220		2049	1971	1934	87.12%

Diffuser Ret/Exh (GRD)

EX RTU4/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	DINING	NA	NA	200	1	114	120	120	60.0
Total				200		114	120	120	60%

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Project: 11-06-23 HOMEWARD KITCHEN - SOUTHERN PINES, NC



System/Unit: AHU/RTU

Asset: EX RTU5

AREA:

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	5602J07687
Model Num	LGA060HH2Y	LGA060HH2Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	23.5X14.5
Num Final Filter 1	-	
Final Filter Size 1	-	
Num Final Filter 2	-	
Final Filter Size 2	-	

Test Data		
	Design	Actual
SF CFM	1750	
SF RPM	-	
RA CFM	-	
OA CFM	-	
RL Voltage	-	
RL Amperage	-	
SF Rotation	-	
RA Damper Position	-	
Min OA Damper Position	-	
Min OA Damper Type	-	
OA Enthalpy Setpt	-	

Motor Data		
	Design	Actual
Motor MFG	-	EMERSON
Frame	-	56 HZ
Horsepower	1.5	1.5
Motor Rpm	1725	1725
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	5.4

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

Drive Data		
	Design	Actual
Motor Sheave Size	-	3.75"
Motor Bore Size	-	0.875"
Motor Sheave SetPt	-	2 TO
Fan Sheave Size	-	AK59
Fan Sheave Bore	-	1"
Belt CL Distance	-	15.5"
Num of Belts	-	1
Belt Size	-	A43
Belt Alignment	-	CORRECT

General		
	Design	Actual
Fan Rotation Correct	-	
Unit Filters Clean	-	NO
Condensate Drain Installed	-	YES

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Project:11-06-23 HOMEWARD KITCHEN - SOUTHERN PINES, NC

AHU/RTU



Diffuser Supply (GRD)

EX RTU5/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	DINING	NA	NA	350	1	0	0	0	0.0
SGRD2	DINING	NA	NA	350	1	367	411	411	117.4
SGRD3	DINING	NA	NA	350	1	314	352	352	100.6
SGRD4	DINING	NA	NA	350	1	340	380	380	108.6
SGRD5	DINING	NA	NA	350	1	353	395	395	112.9
Total				1750		1374	1538	1538	87.89%

Diffuser Ret/Exh (GRD)

EX RTU5/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	DINING	NA	NA	450					-
EGRD2	DINING	NA	NA	450					-
Total				900		0	0	0	0%

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Project: 11-06-23 HOMEWARD KITCHEN - SOUTHERN PINES, NC

System/Unit: AHU/RTU



Asset: RTU3

AREA:

Unit Data		
	Design	Actual
MFG	LENNOX	TRANE
Serial Num	-	232614581L
Model Num	LGT072H4E	YSJ072A3S
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	
OA Filter Size 1	-	
Num Final Filter 1	-	3
Final Filter Size 1	-	16X24X2
Num Final Filter 2	-	2
Final Filter Size 2	-	18X24X2

Test Data		
	Design	Actual
SF CFM	2275	
SF RPM	-	
RA CFM	1170	
OA CFM	750	
RL Voltage	-	
RL Amperage	-	
SF Rotation	-	
RA Damper Position	-	
Min OA Damper Position	-	
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	D

Motor Data		
	Design	Actual
Motor MFG	-	NA
Frame	-	NA
Horsepower	-	3
Motor Rpm	-	-
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	8.8

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

Drive Data		
	Design	Actual
Motor Sheave Size	-	DD

General		
	Design	Actual
Fan Rotation Correct	-	
Unit Filters Clean	-	YES
Condensate Drain Installed	-	NO

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Project:11-06-23 HOMEWARD KITCHEN - SOUTHERN PINES, NC

AHU/RTU



Diffuser Supply (GRD)

RTU3/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	DINING	NA	NA	355	1	433	405	428	120.6
SGRD2	DINING	NA	NA	355	1	430	402	421	118.6
SGRD3	DINING	NA	NA	355	1	0	0	0	0.0
SGRD4	DINING	NA	NA	355	1	401	374	383	107.9
SGRD5	DINING	NA	NA	355	1	418	390	411	115.8
SGRD6	DINING	NA	NA	355	1	474	443	462	130.1
SGRD7	DINING	NA	NA	145	1	306	286	301	207.6
Total				2275		2462	2300	2406	105.76%

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Project: 11-06-23 HOMEWARD KITCHEN - SOUTHERN PINES, NC

System/Unit: FAN - Exhaust



Asset: EF1

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU180HFA	DU180HFA
Serial Num	-	5956469
Type	UPBLAST	UPBLAST
Configuration	VERTIICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	WESTINGHOUSE
Frame	-	184T
Horsepower	2	2
Motor Rpm	1165	1165
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	7.51
Service Factor	-	1.15

Test Data		
	Design	Actual
CFM	2100	2187
Fan RPM	-	DD
Fan Rotation	-	CCW
Motor RPM	-	DD
System SetPt	-	59.3 Hz
RL Voltage	-	212/212/211
RL Amperage	-	5.8/5.8/5.9
Total ESP	1.75"	
Fan Inlet SP	-	
Fan Discharge SP	-	ATM

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Project: 11-06-23 HOMEWARD KITCHEN - SOUTHERN PINES, NC

System/Unit: FAN - Exhaust



Asset: EF2

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU50HFA	DU50HFA
Serial Num	-	5956469
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	TELCO GREEN
Frame	-	NL
Horsepower	0.50	0.50
Motor Rpm	1800	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	3.91
Service Factor	-	1.15

Test Data		
	Design	Actual
CFM	875	889
Fan RPM	-	DD
Fan Rotation	-	CCW
Motor RPM	-	DD
System SetPt	-	71% POWER
RL Voltage	-	120
RL Amperage	-	2.8
Total ESP	1.1"	
Fan Inlet SP	-	
Fan Discharge SP	-	ATM

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Project: 11-06-23 HOMEWARD KITCHEN - SOUTHERN PINES, NC

System/Unit: FAN - Exhaust



Asset: EX EF3

AREA:

Unit Data		
	Design	Actual
MFG	NA	JEN FAN
Model Num	NA	NBRTD14CF3724
Serial Num	-	B11985
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	CENTURY
Frame	-	56
Horsepower	-	0.75
Motor Rpm	-	1725
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	6.6
Service Factor	-	1.25

Test Data		
	Design	Actual
CFM	1531	1528
Fan RPM	-	1273
Fan Rotation	-	CCW
Motor RPM	-	1790
System SetPt	-	2 TO
RL Voltage	-	120
RL Amperage	-	2.1
Total ESP	-	
Fan Inlet SP	-	
Fan Discharge SP	-	ATM

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Project: 11-06-23 HOMEWARD KITCHEN - SOUTHERN PINES, NC

System/Unit: FAN - Exhaust



Asset: EX EF4

AREA:RESTROOMS

Unit Data		
	Design	Actual
MFG	LOREN COOK	LOREN COOK
Model Num	100ACEH	100ACEH
Serial Num	-	050S177687-01/0001603
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	US MOTORS
Frame	-	48Y
Horsepower	0.125	0.125
Motor Rpm	1600	1600
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	1.7
Service Factor	-	1

Test Data		
	Design	Actual
CFM	300	312
Fan RPM	-	DD
Fan Rotation	-	CCW
Motor RPM	-	DD
System SetPt	-	75% ON DIAL
RL Voltage	-	120
RL Amperage	-	1.3
Total ESP	-	
Fan Inlet SP	-	
Fan Discharge SP	-	ATM

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Project:11-06-23 HOMEWARD KITCHEN - SOUTHERN PINES, NC

FAN - Exhaust



Diffuser Ret/Exh (GRD)

EX EF4/RESTROOMS

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	MENS RR	EX	-	150	1	85	135	155	103.3
EGRD2	WOMENS RR	EX	-	150	1	251	120	157	104.7
Total				300		336	255	312	104%

Completed By: Antonio Flores-De La Cruz on 11/07/2023

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Project: 11-06-23 HOMEWARD KITCHEN - SOUTHERN PINES, NC

System/Unit: FAN - Supply



Asset: SF1

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	SP-B90	SP-B90
Serial Num	-	5956469
Type	MUA	
Configuration	VERTICAL	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	
Motor Rpm	-	
Phase	3	
Voltage (rated)	208	
Amperage (rated)	-	
Service Factor	-	

Gas Heat		
	Design	Actual
Heater Operates (y/n)	-	
Flame Status (pass/fail)	-	
Inlet Air Temp SetPt	-	
Discharge Air Temp SetPt	-	
Air Flow Switch SP Actual	-	

Test Data		
	Design	Actual
CFM	1890	1775
SF RPM	-	DD
Motor RPM	-	
SF System SetPt	-	74.3 Hz
RL Voltage	-	212/212/211
RL Amperage	-	5.0/5.0/5.1
Total ESP	-	NA
Fan Discharge SP	-	NA

General		
	Design	Actual
Fan Rotation Correct	-	

National TAB

Project: 11-06-23 HOMEWARD KITCHEN - SOUTHERN PINES, NC



System/Unit: Kitchen Hood Type I

Asset: HD1

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	5424 ND-2	5424 ND-2
Job / Serial Num	-	5956469
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	144"	144"
Hood Width	54"	54"
Supply Plenum Type	-	PERFORATED
Supply Plenum Width	14"	14"
Supply Plenum Length	156"	156"

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	16X16	16X16
Filter Qty 1	9	9
Filter AK factor size 1	1.62	1.62
Filter Total AK Area	14.58	14.58
Filter1 FPM	-	135
Filter2 FPM	-	150
Filter3 FPM	-	166
Filter4 FPM	-	161
Filter5 FPM	-	173
Filter6 FPM	-	160
Filter7 FPM	-	140
Filter8 FPM	-	136
Filter9 FPM	-	136
Filter Ave FPM(corr)	-	150
CFM	2100	2187

Cooking Equipment		
	Design	Actual
Item 1	-	FRYER
Item 2	-	GRILL
Item 3	-	OVEN
Item 4	-	PRESSURE COOKER

Test Data Supply		
	Design	Actual
Total AK Area	-	15.2
Kv factor (Vel)	-	0.89
Num of Readings	-	9
Reading1 FPM	-	142
Reading2 FPM	-	126
Reading3 FPM	-	120
Reading4 FPM	-	141
Reading5 FPM	-	150
Reading6 FPM	-	121
Reading7 FPM	-	121
Reading8 FPM	-	122
Reading9 FPM	-	137
Ave FPM(corr)	-	131
CFM	1890	1775

Completed By: Antonio Flores-De La Cruz on 11/07/2023

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Project: 11-06-23 HOMEWARD KITCHEN - SOUTHERN PINES, NC

System/Unit: Kitchen Hood Type I



Asset: HD2

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	5424 ND-2	5424 ND-2
Job / Serial Num	-	5956469
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	60"	60"
Hood Width	54"	54"

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	16X16	16X16
Filter Qty 1	3	3
Filter AK factor size 1	1.62	1.62
Filter Total AK Area	4.86	4.86
Filter1 FPM	-	180
Filter2 FPM	-	183
Filter3 FPM	-	184
Filter Ave FPM(corr)	-	182
CFM	875	889

Cooking Equipment		
	Design	Actual
Item 1	-	OVEN
Item 2	-	OVEN

Completed By: Antonio Flores-De La Cruz on 11/07/2023

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Project: 11-06-23 HOMEWARD KITCHEN - SOUTHERN PINES, NC

System/Unit: Kitchen Hood Type I



Asset: HD3

AREA:

Unit Data		
	Design	Actual
MFG	NA	HALTON
Model Num	NA	NA
Job / Serial Num	-	20241-1
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	-	105"
Hood Width	-	51"

Test Data Exhaust		
	Design	Actual
Filter Type	-	BAFFLED
Filter Size 1	-	13X20
Filter Qty 1	-	5
Filter AK factor size 1	-	2.08
Filter Total AK Area	-	10.4
Filter1 FPM	-	155
Filter2 FPM	-	149
Filter3 FPM	-	139
Filter4 FPM	-	144
Filter5 FPM	-	148
Filter Ave FPM(corr)	-	147
CFM	1531	1528

Cooking Equipment		
	Design	Actual
Item 1	-	OVEN
Item 2	-	OVEN

Completed By: Antonio Flores-De La Cruz on 11/07/2023