Report By:

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

Report: TAB Report

Function: Test, Adjust, & Balance

Date: 01/17/2026

Completed By: National TAB

PROJECT

01-12-26 UCHI - WASHINGTON, DC

1700 M ST, NW

WASHINGTON, DC 20036

Client

Total Mechanical Services, LLC

National TAB

Project: 01-12-26 UCHI - WASHINGTON, DC

Table Of Contents

Project Summary

Project Summary
The summary below provides a quick understanding of our scope of work and general testing procedures. Enclosed in the report are further details about your building performance including recommendations, asset data, and pictures. Our focus is to work with the trades to remedy any issues or deficiencies during the actual field balancing and not after the balancing has occurred to achieve a positive environment and outcome. The level of success is determined by the availability of the trades, possible parts needed, or time constraints.

WSHP's w/ Diffusers
Each of the WSHP were measured via traverse or at their terminal devices utilizing a flow hood. The sum of these readings is equal to the total flow for that particular unit. The total flow of each WSHP was then adjusted to within tolerance of the specified design. Each terminal diffuser was balanced to within tolerance of the engineer's design volume utilizing the provided hand damper located at the takeoff of the main & branch trunk line(s). Any equipment that fell outside of this tolerance is noted throughout the report. Condenser water flow is provided by the landlord and Proper autoflow valve sizing was confirmed.

Kitchen Exhaust Hood & Associated Fans
Each kitchen exhaust fan was measured at the hood filter bay utilizing a velocity matrix and a manufacturer's correction factor. Each filter velocity is multiplied by the manufacturer's corrected area. The sum of these readings equal the total flow of the exhaust fans. The total flow of the exhaust was then adjusted to within tolerance of the design flow. Any EF's that fell outside of this tolerance is noted throughout the report.

MAU (Make Up Air Unit) w/PSP
Total flow for the MAU (Make-up Air Unit) unit was measured by readings taken at the discharge of the hood's perforated supply plenum. Readings taken with a velocity matrix were averaged and multiplied by a manufacturers corrected area. Adjustments to the fan speed were made to bring the unit to within design tolerance. Any MUA's that fell outside of this tolerance is noted throughout the report.

General Exhaust Fans w/Grilles
The general exhaust fans were measured by reading each air device with a flow hood. The total airflow for each fan is equivalent to the sum of these readings. Fan speed was then adjusted so that the airflow was within tolerance of design. Each terminal device was balanced to within tolerance of the design volume using the installed volume dampers. Any equipment that feel outside of this tolerance is noted throughout the report.

Final Building Tests
After completing the test and balance the final building pressure was measured. It was confirmed that the building pressure fell within acceptable tolerances of -0.02" wc to +0.02" wc and that the pressure measurement coincides with the actual and design net airflow. Any deviations from these standards are noted throughout the report.
The hood capture was tested at the perimeter of the hood and the cook top level with the equipment heat on to ensure satisfactory hood capture and containment.

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AIR BALANCE SCHEDULE

UNIT	AREA SERVED	HVAC SUPPLY		HVAC RETURN		HVAC OUTDOOR		OA %		HOOD MAKE-UP		HOOD EXHAUST		GENERAL EXH.	
		DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
HP-1	PRIVATE DINING	2400	2388	1650	2211	750	177	31.3%	7.4%						
HP-2	MAIN DINING	2900	2740	2125	2740	775	0	26.7%	0.0%						
HP-3	SUSHI BAR	2400	2195	1800	2195	600	0	25.0%	0.0%						
HP-4	MAIN DINING	2800	2625	2025	1863	775	762	27.7%	29.0%						
HP-5	ENTRY / BAR	3700	3429	2775	2823	925	606	25.0%	17.7%						
HP-6	KITCHEN	4000	4113	4000	4113	0	0	0.0%	0.0%						
MUA-1	KITCHEN HD									4200	4165				
KEF-1	KITCHEN HD											5300	4816		
KEF-2	KITCHEN HD											1300	1179		
KEF-3	KITCHEN HD											800	746		
EF-4	RESTROOM													150	149
EF-5	RESTROOM													150	148
TOTALS		18200	17490	14375	15945	3825	1545			4200	4165	7400	6741	300	297

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	8025	5710
TOTAL EXHAUST	7700	7038
NET AIRFLOW	325	-1328

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H20)
FRONT	-0.078
SIDE	-0.071
REAR	-0.073
AVERAGE	**-0.074**

FINAL CHECKS

ACTUAL NET AIRFLOW COINCIDES WITH DESIGN: ✗

MEASURED PRESSURES COINCIDES WITH ACTUAL NET AIRFLOW: ✓

PRESSURE FALLS WITHIN IMC TOLERANCE OF +/-0.02" W.C. ✗

NOTES:

CheckList List

- 01: RTU’S/AHU’S
- 02: EF’S
- 03: MUA
- 04: HOODS
- 05: FINAL TESTS

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CheckList Information

Name :	01: RTU’S/AHU’S	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	10/09/2025 - Tyce Fox - National TAB		
Completed Date :	01/16/2026 - Tyler Youells - National TAB		

CheckList Item Details

RTU's/AHU's

Thermostats installed and have power?	Pass
Comment:	
All diffusers and grilles are installed and match design?	Pass
Comment:	
Economizer blank plate is installed below the ouside air intake (Trane only) (N/A = not applicable)	N/A
Comment:	
Economizers are assembled and functional?	Pass
Comment:	
Economizers not initially operational, NTi had to jumper R to OCC to make them occupied so the damper would move	
Free cooling enthalpy set point set for lowest setting (Typically "D")	N/A
Comment:	
Motors are all operating below the FLA rating?	Pass
Comment:	

Are belts tight?	Pass
Comment:	
If direct drive unit is the speed controller working?	N/A
Comment:	
Is gas piping installed and valves turned on?	Pass
Comment: Water piping is all on	
Unit free of noticeable noise and vibration	Pass
Comment:	
Final outside air damper position is marked with permanent marker?	Pass
Comment:	

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CheckList Information

Name :	02: EF’S	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	10/09/2025 - Tyce Fox - National TAB		
Completed Date :	02/26/2026 - Tyler Youells - National TAB		

CheckList Item Details

EF's

Rotation is correct?	Pass
Comment:	
Belts are tight?	N/A
Comment:	
Hinge kit installed installed on hood fan?	N/A
Comment:	
Lean any hood fans back. Is grease duct installation adequate and is duct ran all the way to the base of the fan?	N/A
Comment:	
Flex conduit is long enough so that fan can be completely tilted back?	N/A
Comment:	
There is no major leakage around base of fans?	N/A
Comment:	

Is the motor operating below the motor FLA rating?	Pass
Comment:	
For restroom fan(s) is the back draft damper installed if specified and can it fully open?	N/A
Comment:	
Unit free of noticeable noise and vibration?	Pass
Comment:	
For direct drive fans, mark the final setting on the speed controller with permanent marker	Pass
Comment:	
Set on controllers	

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CheckList Information

Name :	03: MUA	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	10/09/2025 - Tyce Fox - National TAB		
Completed Date :	01/16/2026 - Tyler Youells - National TAB		

CheckList Item Details

MUA

Rotation is correct?	Pass
Comment:	
Gas piping is installed and valves are in on position?	N/A
Comment: Electric heat	
Internal motorized damper is fully opening?	Pass
Comment:	
Motor is operating below the FLA rating?	Pass
Comment:	
Unit free of noticeable noise and vibration?	Pass
Comment:	
If unit is heated is the heater functional? (If not heated put N/A)	Pass
Comment:	

If unit has cooling, is cooling functional (If no cooling installed put N/A)	

Comment:

Unable to test due to low ambient

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CheckList Information

Name :	04: HOODS	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	10/09/2025 - Tyce Fox - National TAB		
Completed Date :	01/17/2026 - Tyler Youells - National TAB		

CheckList Item Details

HOODS

All hood filters installed and accounted for?	Pass
Comment:	
Hoods are wired and have power?	Pass
Comment:	
Hood is free of alarms?	Pass
Comment:	
Hood is free of damage?	Pass
Comment:	
Quarter or full vertical end panels are installed if specified?	Pass
Comment:	

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CheckList Information

Name :	05: FINAL TESTS	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	10/09/2025 - Tyce Fox - National TAB		
Completed Date :	02/26/2026 - Tyler Youells - National TAB		

CheckList Item Details

FINAL CHECKS

Is space free of drafting?	Pass
Comment:	

Is space comfortable in all areas?	Pass
Comment:	
Space is comfortable in all areas upon return trip 2/24/26	

Is the space free of ventilation noise?	Pass
Comment:	

HOOD CAPTURE TEST

List kitchen equipment turned on for testing
Comment:
None

List smoke candle type used
Comment:
45 Sec Smoke

Smoke test capture % - Perimeter of hood

Comment:

All 100%

Smoke test capture % - Top of cooking surface

Comment:

All 100%

WITNESS

Date test was completed	01/16/2026

Comment:

TAB tech name / Firm

Comment:

Tyler + Roman/NTi

Site super name / Firm

Comment:

Not onsite at time of test

Owner representative name / Firm (if Applicable)

Comment:

N/A

BUILDING PRESSURE

Building pressure at all doors:

Comment:

-0.07" Avg

Do actual net building airflow, design net building airflow, and pressure coincide? If not why? (All three should either be positive or negative)	Fail

Comment:

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Project: 01-12-26 UCHI - WASHINGTON, DC

System/Unit: AHU/RTU

Asset: HP1 AREA:PRIVATE DINING

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	W25F10863
Model Num	GEH090	GEHK09041A0CB0BRD0101001
Type	HP	WSHP
Configuration	VERTICAL	HORIZONTAL
Num Final Filter 1	-	3
Final Filter Size 1	-	20X25X1

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR RELIANCE
Frame	-	56
Horsepower	-	1.5
Motor Rpm	-	1760
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	2.2

Drive Data	
	Actual
Motor Sheave Size	1VT0
Motor Bore Size	0.625"
Motor Sheave SetPt	3 TURNS OUT
Fan Sheave Size	AK51
Fan Sheave Bore	1.0"
Belt CL Distance	14.25"
Num of Belts	1
Belt Size	AX40
Belt Alignment	GOOD

Test Data		
	Design	**Actual**
SF CFM	2400	2388
SF RPM	-	1101
RA CFM	1650	2211
OA CFM	750	177
RL Voltage	-	478.2/483.1/478.2
RL Amperage	-	2.2/2.2/2.1
SF Rotation	-	CCW
RA Damper Position	-	MECHANICAL LINKAGE
Min OA Damper Position	-	75%
Min OA Damper Type	-	MOTORIZED

Performance Data		
	Design	**Actual**
Fan Suction SP	-	-0.35"
Fan Discharge SP	-	0.56"
Total ESP	-	0.91"

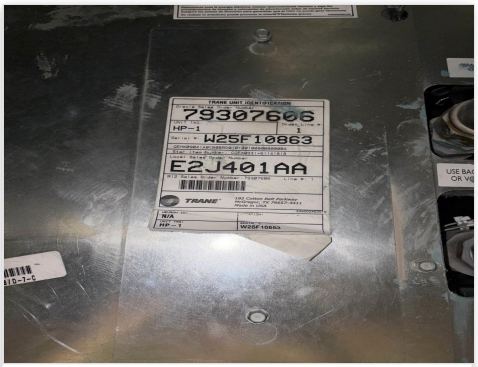
General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	YES
Condensate Drain Installed	YES

Completed By: Roman Ilovski on 01/15/2026

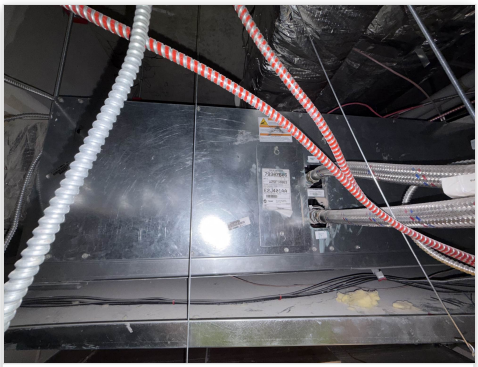
Notes:
[1] DAMPER POSITION SET TO 75%, ACTUAL DAMPER POSITION LOOKS TO BE 45-50%, EVEN AT 50 % OPEN UNIT DOES NOT HAVE ENOUGH SUCTION PRESSURE TO PULL OA AND OVERCOME THE MUA UNIT PULLING FROM THE SAME DUCT. PRESSURE IN OA DUCT IS -0.28" WITH MUA UNIT RUNNING

Written By: Roman Ilovski on 01/15/2026

Unit Data - PHOTO LOG



01/14/2026



01/14/2026

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Project: 01-12-26 UCHI - WASHINGTON, DC

System/Unit: AHU/RTU

Asset: HP2 AREA:MAIN DINING

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	W25F10864
Model Num	GEH090	GEHK09041A0BB0RLD0101001
Type	HP	WSHP
Configuration	VERTICAL	HORIZONTAL
Num Final Filter 1	-	3
Final Filter Size 1	-	20X25X1

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR RELIANCE
Frame	-	56
Horsepower	-	1.5
Motor Rpm	-	1760
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	2.2

Drive Data	
	Actual
Motor Sheave Size	1VP40
Motor Bore Size	0.65"
Motor Sheave SetPt	0 TURNS
Fan Sheave Size	AK64
Fan Sheave Bore	1.0"
Belt CL Distance	15"
Num of Belts	1
Belt Size	A43
Belt Alignment	GOOD

Test Data		
	Design	**Actual**
SF CFM	2900	2740
SF RPM	-	1032
RA CFM	2125	2740
OA CFM	775	0
RL Voltage	-	477.0/478.2/480.0
RL Amperage	-	2.2/2.2/2.2
SF Rotation	-	CCW
RA Damper Position	-	MECHANICAL LINKAGE
Min OA Damper Position	-	50%
Min OA Damper Type	-	MOTORIZED

Performance Data		
	Design	**Actual**
Fan Suction SP	-	-0.23"
Fan Discharge SP	-	0.25"
Total ESP	-	0.48"

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

Completed By: Roman Ilovski on 01/15/2026

Notes:
[1] OA Damper position set to 0%, MUA Is pulling from the mixing box
[2] No accurate way to read the linear diffusers du to configuration in soffit. ensured all were full open and balanced restrooms to design

Written By: Tyler Youells on 02/26/2026

National TAB

Project: 01-12-26 UCHI - WASHINGTON, DC

System/Unit: AHU/RTU

Asset: HP3 AREA:SUSHI BAR

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	W25F10865
Model Num	GEH072	GEHK07241A0AB0LRD0101001
Type	HP	WSHP
Configuration	VERTICAL	HORIZONTAL
Num Final Filter 1	-	3
Final Filter Size 1	-	20X25X1

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR RELIANCE
Frame	-	56
Horsepower	-	1.0
Motor Rpm	-	1760
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	1.6

Drive Data	
	Actual
Motor Sheave Size	1VL40
Motor Bore Size	0.625”
Motor Sheave SetPt	3 TURNS OUT
Fan Sheave Size	AK69
Fan Sheave Bore	1.0”
Belt CL Distance	15.5”
Num of Belts	1
Belt Size	AX44
Belt Alignment	GOOD

Test Data		
	Design	**Actual**
SF CFM	2400	2195
SF RPM	-	874
RA CFM	1800	
OA CFM	600	
RL Voltage	-	477.5/476.4/480.2
RL Amperage	-	1.6/1.4/1.6
SF Rotation	-	CW
RA Damper Position	-	MECHANICAL LINKAGE
Min OA Damper Position	-	50%
Min OA Damper Type	-	MOTORIZED

Performance Data		
	Design	**Actual**
Fan Suction SP	-	-0.17"
Fan Discharge SP	-	0.37"
Total ESP	-	0.54"

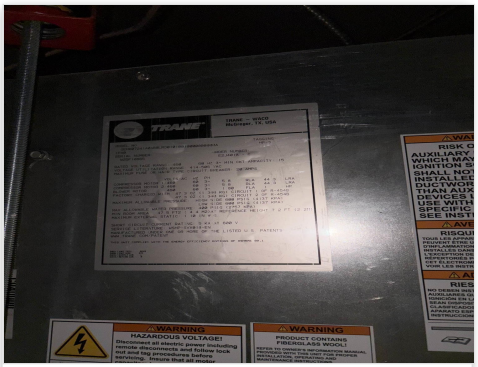
General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	YES
Condensate Drain Installed	YES

Completed By: Roman Ilovski on 01/15/2026

Notes:
[1] OA Damper position set to 0%, MUA Is pulling from the mixing box
[2] No accurate way to read the linear diffusers due to configuration in soffit. ensured all were full open

Written By: Tyler Youells on 02/26/2026

Unit Data - PHOTO LOG



01/14/2026

01/14/2026

National TAB

Project: 01-12-26 UCHI - WASHINGTON, DC

System/Unit: AHU/RTU

Asset: HP4 AREA:MAIN DINING

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	W25F10866
Model Num	GEH090	GEHK09041A0BB0RLD0101001
Type	HP	WSHP
Configuration	VERTICAL	HORIZONTAL
Num Final Filter 1	-	3
Final Filter Size 1	-	20X25X1

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR RELIANCE
Frame	-	56
Horsepower	-	1.5
Motor Rpm	-	1760
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	2.2

Drive Data	
	Actual
Motor Sheave Size	1VP40
Motor Bore Size	0.625”
Motor Sheave SetPt	0 TURNS OUT
Fan Sheave Size	AK64
Fan Sheave Bore	1.0”
Belt CL Distance	15.0”
Num of Belts	1
Belt Size	A43
Belt Alignment	GOOD

Test Data		
	Design	**Actual**
SF CFM	2800	2625
SF RPM	-	1034
RA CFM	2025	1863
OA CFM	775	762
RL Voltage	-	475.5/474.8/478.9
RL Amperage	-	2.1/2.1/2.0
SF Rotation	-	CCW
RA Damper Position	-	MECHANICAL LINKAGE
Min OA Damper Position	-	40%
Min OA Damper Type	-	MOTORIZED

Performance Data		
	Design	**Actual**
Fan Suction SP	-	-0.16"
Fan Discharge SP	-	0.22"
Total ESP	-	0.38"

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

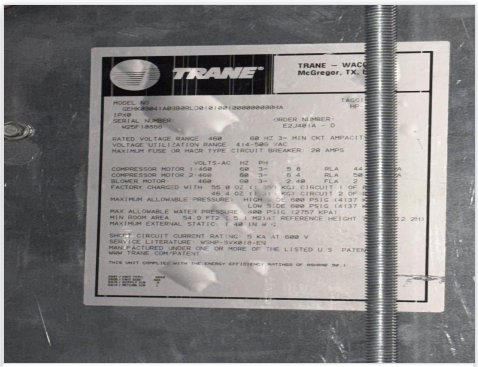
Completed By: Roman Ilovski on 01/16/2026

Notes:
[1] No accurate way to read the linear diffusers due to configuration in soffit. ensured all were full open

Written By: Tyler Youells on 02/26/2026

Unit Data - PHOTO LOG

01/14/2026



01/14/2026

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Project: 01-12-26 UCHI - WASHINGTON, DC

System/Unit: AHU/RTU

Asset: HP5 AREA:ENTRY/BAR

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	W25F10867
Model Num	GEH120	GEHK12041A0BB0BRD0101001
Type	HP	WSHP
Configuration	VERTICAL	HORIZONTAL
Num Final Filter 1	-	3
Final Filter Size 1	-	20X25X1

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR RELIANCE
Frame	-	56H
Horsepower	-	2
Motor Rpm	-	1760
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	2.9

Drive Data	
	Actual
Motor Sheave Size	1VL40
Motor Bore Size	0.625"
Motor Sheave SetPt	3 TURNS OUT
Fan Sheave Size	AK54
Fan Sheave Bore	1"
Belt CL Distance	15.75"
Num of Belts	1
Belt Size	A41
Belt Alignment	GOOD

Test Data		
	Design	**Actual**
SF CFM	3700	3429
SF RPM	-	1100
RA CFM	2775	2823
OA CFM	925	606
RL Voltage	-	475.5/474.8/478.9
RL Amperage	-	2.9/3.0/3.0
SF Rotation	-	CCW
RA Damper Position	-	MECHANICAL LINKAGE
Min OA Damper Position	-	80%
Min OA Damper Type	-	MOTORIZED

Performance Data		
	Design	**Actual**
Fan Suction SP	-	-0.28"
Fan Discharge SP	-	0.28"
Total ESP	-	0.56

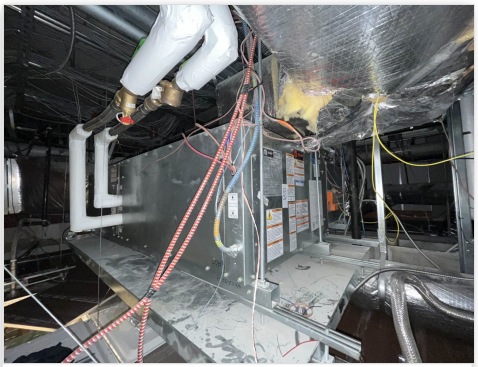
General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	YES
Condensate Drain Installed	YES

Completed By: Tyler Youells on 01/16/2026

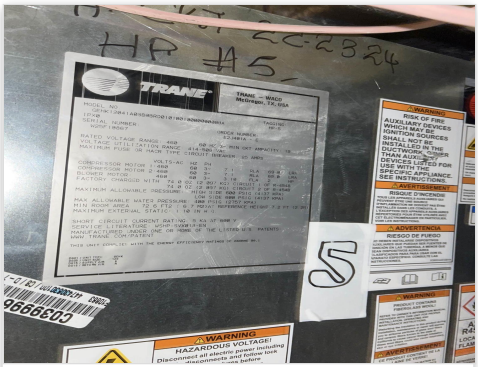
Notes:
[1] No accurate way to read the linear diffusers due to configuration in soffit. ensured all were full open and balanced restrooms to design

Written By: Tyler Youells on 02/26/2026

Unit Data - PHOTO LOG



01/14/2026



01/14/2026

National TAB

Project: 01-12-26 UCHI - WASHINGTON, DC

System/Unit: AHU/RTU

Asset: HP6 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	W25F10868
Model Num	GEH120	GEHK12041A0CB0BRD0101001
Type	HP	WSHP
Configuration	VERTICAL	HORIZONTAL
Num Final Filter 1	-	3
Final Filter Size 1	-	20X25X1

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR RELIANCE
Frame	-	56HZ
Horsepower	-	3
Motor Rpm	-	1725
Phase	3	3
Rated Voltage	460	460
Rated Amperage	4.1	4.1

Drive Data	
	Actual
Motor Sheave Size	1VP50
Motor Bore Size	1.125"
Motor Sheave SetPt	3 TURNS OUT
Fan Sheave Size	BK60
Fan Sheave Bore	1.0"
Belt CL Distance	15"
Num of Belts	1
Belt Size	B44
Belt Alignment	GOOD

Test Data		
	Design	**Actual**
SF CFM	4000	4113
SF RPM	-	1241
RA CFM	-	4113
OA CFM	0	0
RL Voltage	-	NA
RL Amperage	-	4.1/4.1/4.1
SF Rotation	-	CCW
RA Damper Position	-	FULL RETURN
Min OA Damper Position	-	NA

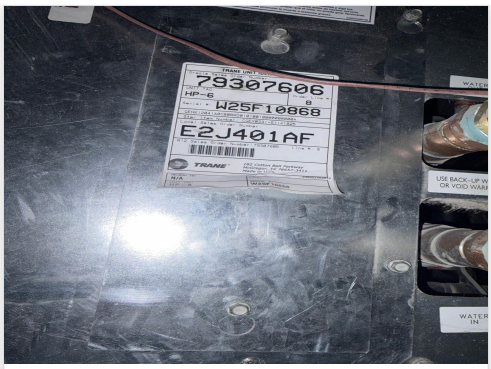
Performance Data		
	Design	**Actual**
Fan Suction SP	-	NA
Fan Discharge SP	-	NA
Total ESP	-	NA

General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	NO REMOVED FOR TAB
Condensate Drain Installed	YES

Completed By: Tyler Youells on 01/16/2026

Unit Data - PHOTO LOG

01/13/2026



01/13/2026

Diffuser Supply (GRD)

HP6/KITCHEN

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	KITCHEN	CD1	10"	250	1	88	188	256	102.4
SGRD2	KITCHEN	CD1	10"	300	1	270	367	297	99.0
SGRD3	KITCHEN	CD1	10"	300	1	313	410	310	103.3
SGRD4	KITCHEN	CD1	10"	350	1	171	224	329	94.0
SGRD5	KITCHEN	CD1	10"	350	1	241	319	360	102.9
SGRD6	KITCHEN	CD1	10"	350	1	255	334	385	110.0
SGRD7	KITCHEN	CD1	10"	350	1	309	408	385	110.0
SGRD8	KITCHEN	CD1	10"	350	1	241	305	355	101.4
SGRD9	KITCHEN	CD1	10"	350	1	288	362	365	104.3
SGRD10	KITCHEN	CD	10"	350	1	273	368	361	103.1
SGRD11	KITCHEN	CD1	10"	350	1	270	355	375	107.1
SGRD12	KITCHEN	CD1	10"	350	1	347	476	335	95.7
Total				4000		3066	4116	4113	102.83%

Completed By: Tyler Youells on 02/24/2026

Asset	Notes	Date	Written By
SGRD2	[1] NO DAMPER INSTALLED	01/15/2026	Roman Ilovski
SGRD3	[1] NO DAMPER INSTALLED	01/15/2026	Roman Ilovski

National TAB

Project: 01-12-26 UCHI - WASHINGTON, DC

System/Unit: FAN - Exhaust

Asset: EF4 AREA:RESTROOM

Unit Data		
	Design	**Actual**
MFG	CAPTIVE AIRE	CAPTIVE AIRE
Model Num	SIF10DD-SS	SIF10DD-SS
Serial Num	-	7368826
Type	INLINE	INLINE
Configuration	VERTICAL	HORIZONTAL

Test Data		
	Design	**Actual**
CFM	150	149
Fan RPM	1220	918
Motor RPM	-	918
System SetPt	-	50%

Motor Data		
	Design	**Actual**
Motor MFG	-	CAPTIVAIRE
Frame	-	NL
Horsepower	0.250	0.250
Motor Rpm	-	NL
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	3.5
Service Factor	-	NL

Completed By: Tyler Youells on 02/26/2026

National TAB

Project:01-12-26 UCHI - WASHINGTON, DC

FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF4/RESTROOM

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	RESTROOM	ER1	6/6	75	1	82	77	77	102.7
EGRD2	RESTOOM	ER1	6/6	75	1	160	76	76	101.3
Total				150		242	153	153	102%

National TAB

Project: 01-12-26 UCHI - WASHINGTON, DC

System/Unit: FAN - Exhaust

Asset: EF5 AREA:RESTROOM

Unit Data		
	Design	**Actual**
MFG	CAPTIVE AIRE	CAPTIVE AIRE
Model Num	SIF10DD-SS	SIF10DD-SS
Serial Num	-	7368826
Type	INLINE	INLINE
Configuration	VERTICAL	HORIZONTAL

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Frame	-	NL
Horsepower	.250	0.25
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	3.5
Service Factor	-	1

Test Data		
	Design	**Actual**
CFM	150	148
Fan RPM	1220	989
Motor RPM	-	989
System SetPt	-	54%
Total ESP	0.500"	0.26"
Fan Inlet SP	-	-0.24"
Fan Discharge SP	-	0.02"

Completed By: Roman Ilovski on 01/15/2026

Unit Data - PHOTO LOG

01/15/2026

01/15/2026

National TAB

Project:01-12-26 UCHI - WASHINGTON, DC

FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF5/RESTROOM

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	RESTROOM	ER1	6/6	75	1	93	71	71	94.7
EGRD2	RESTROOM	ER1	6/6	75	1	95	77	77	102.7
Total				150		188	148	148	98.67%

Completed By: Tyler Youells on 02/26/2026

National TAB

Project: 01-12-26 UCHI - WASHINGTON, DC

System/Unit: FAN - Exhaust

Asset: KEF1 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	CAPTIVE AIRE	CAPTIVE AIRE
Model Num	SIF24DD	SIF24DD
Serial Num	-	7368826
Type	INLINE	INLINE
Configuration	VERTICAL	HORIZONTAL

Motor Data		
	Design	**Actual**
Motor MFG	-	CAPTIVAIRE
Frame	-	213T
Horsepower	7.500	7.5
Motor Rpm	-	1800
Phase	3	3
Voltage (rated)	460	460
Amperage (rated)	-	9.3
Service Factor	-	NL

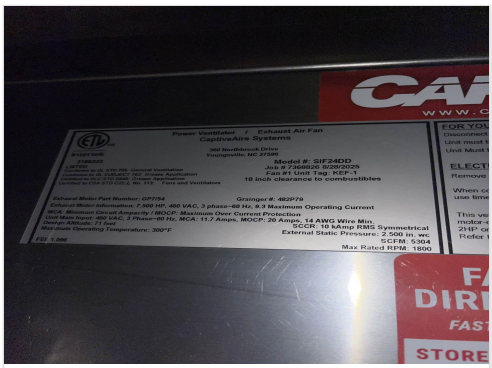
Test Data		
	Design	**Actual**
CFM	5304	4666
Fan RPM	1424	1665
Fan Rotation	-	CCW
Motor RPM	-	1665
System SetPt	-	55.5HZ
RL Voltage	-	448VFD
RL Amperage	-	8.0VFD

Completed By: Tyler Youells on 01/16/2026

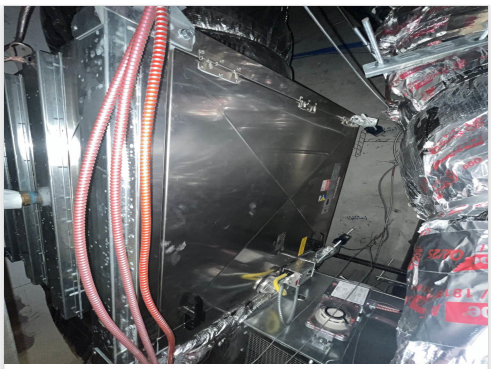
Notes:
[1] MAXED OUT ON AMPERAGE PER VFD

Written By: Tyler Youells on 01/16/2026

Unit Data - PHOTO LOG



01/13/2026



01/13/2026

National TAB

Project: 01-12-26 UCHI - WASHINGTON, DC

System/Unit: FAN - Exhaust

Asset: KEF2 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	CAPTIVE AIRE	CAPTIVE AIRE
Model Num	SIF18DD	SIF18DD
Serial Num	-	7388826
Type	INLINE	INLINE
Configuration	VERTICAL	HORIZONTAL

Motor Data		
	Design	**Actual**
Motor MFG	-	CAPTIVEAIRE
Frame	-	145T
Horsepower	2.000	2
Motor Rpm	-	1740
Phase	3	3
Voltage (rated)	460	460
Amperage (rated)	-	2.6
Service Factor	-	NL

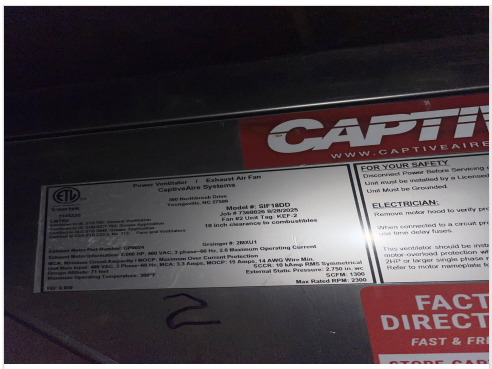
Test Data		
	Design	**Actual**
CFM	1300	1179
Fan RPM	1839	1171
Fan Rotation	-	CCW
Motor RPM	-	1171
System SetPt	-	40.4HZ
RL Voltage	-	279VFD
RL Amperage	-	2.3VFD
Total ESP	2.750"	NA
Fan Inlet SP	-	NA
Fan Discharge SP	-	NA

Completed By: Tyler Youells on 01/16/2026

Notes:
[1] FAN SPEED IS AT MAXIMUM LIMITED BY VFD AMPERAGE

Written By: Roman Ilovski on 01/13/2026

Unit Data - PHOTO LOG



01/13/2026

01/13/2026

National TAB

Project: 01-12-26 UCHI - WASHINGTON, DC

System/Unit: FAN - Exhaust

Asset: KEF3 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	CAPTIVE AIRE	CAPTIVE AIRE
Model Num	SIF13DD-HE	SIF13DD-HE
Serial Num	-	7368826
Type	INLINE	INLINE
Configuration	VERTICAL	HORIZONTAL

Motor Data		
	Design	**Actual**
Motor MFG	-	CAPTIVEAIRE
Frame	-	NL
Horsepower	0.500	1.0
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	12.4
Service Factor	-	NL

Test Data		
	Design	**Actual**
CFM	800	746
Fan RPM	1536	1422
Fan Rotation	-	CCW
Motor RPM	-	1422
System SetPt	-	78%
RL Voltage	-	NA
RL Amperage	-	NA
Total ESP	1.000"	NA
Fan Inlet SP	-	NA
Fan Discharge SP	-	NA

Completed By: Tyler Youells on 01/16/2026

Notes:
[1] DISCHARGE DUCTWORK OF THE FAN HAS A VERY RESTRICTIVE TRANSITION PREVENTING THE FAN OF REACHING DESIGN FLOW.

Written By: Roman Ilovski on 01/13/2026

Unit Data - PHOTO LOG

01/13/2026

01/13/2026

National TAB

Project: 01-12-26 UCHI - WASHINGTON, DC

System/Unit: FAN - Supply

Asset: MAU1 AREA:KITCHEN HD

Unit Data		
	Design	**Actual**
MFG	CAPTIVE AIRE	CAPTIVE AIRE
Model Num	A2-E.734-20Z	A2-E.734-20Z
Serial Num	-	7368826
Type	MAU	MAU
Configuration	VERTICAL	HORIZONTAL

Motor Data		
	Design	**Actual**
Motor MFG	-	CAPTIVEAIRE
Frame	-	NL
Horsepower	4.800	4.8
Motor Rpm	-	NL
Phase	3	3
Voltage (rated)	460	460
Amperage (rated)	-	6.6
Service Factor	-	NL

Gas Heat	
	Actual
Heater Operates (y/n)	YES
Flame Status (pass/fail)	ELECTRIC HEAT

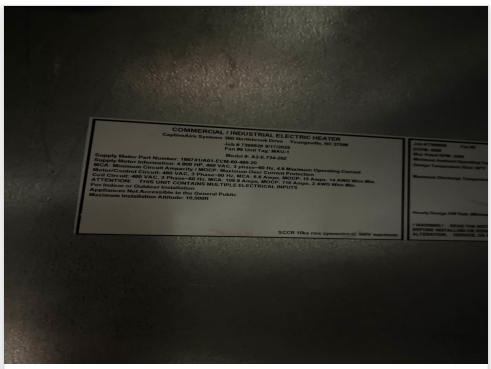
Test Data		
	Design	**Actual**
CFM	4200	4165
SF RPM	1890	1606
Motor RPM	-	1606
SF System SetPt	-	73%
RL Voltage	-	480.6/484.1/480.7
RL Amperage	-	1.8/1.7/1.8
Total ESP	-	0.35"
Fan Discharge SP	-	0.053"

General	
	Actual
Fan Rotation Correct	YES

Completed By: Roman Ilovski on 01/16/2026

Unit Data - PHOTO LOG

01/13/2026



01/13/2026

01/13/2026

National TAB

Project: 01-12-26 UCHI - WASHINGTON, DC

System/Unit: Kitchen Hood Type I

Asset: HD21 AREA:KITCHEN HD

Unit Data		
	Design	**Actual**
MFG	CAPTIVE AIRE	CAPTIVE AIRE
Model Num	6630-ND-2-PSP-F	6630-ND-2-PSP-F
Job / Serial Num	-	7368826
Type	TYPE II CANOPY	TYPE I CANOPY
Hood length	52"	52"
Hood Width	66"	66"
Supply Plenum Type	-	PSP
Supply Plenum Width	14"	14"
Supply Plenum Length	54"	54"

Test Data Exhaust		
	Design	**Actual**
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	20X16	20X16
Filter Qty 1	3	3
Filter AK factor size 1	2.08	2.08
Filter Total AK Area	6.24	6.24
Filter1 FPM	-	195
Filter2 FPM	-	181
Filter3 FPM	-	191
Filter Ave FPM(corr)	-	189
CFM	1300	1179

Cooking Equipment	
	Actual
Item 1	LIVE FUEL STOVE

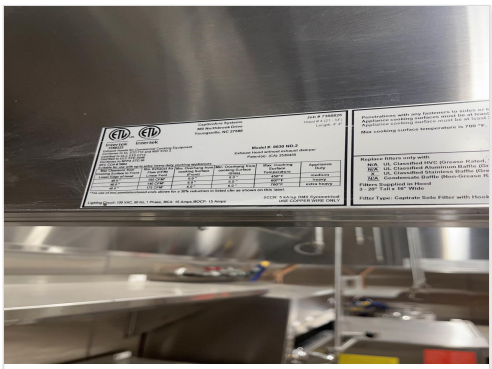
Test Data Supply		
	Design	**Actual**
Total Area	5.25	5.25
Kv factor (Vel)	0.89	0.9
Num of Readings	-	4
Reading1 FPM	-	161
Reading2 FPM	-	175
Reading3 FPM	-	145
Reading4 FPM	-	197
Ave FPM(corr)	-	169
CFM	800	799

Completed By: Roman Ilovski on 01/13/2026

Notes:
[1] FAN IS AT MAX HZ ALLOWABLE.

Written By: Roman Ilovski on 01/13/2026

Unit Data - PHOTO LOG



01/13/2026

01/13/2026

National TAB

Project: 01-12-26 UCHI - WASHINGTON, DC

System/Unit: Kitchen Hood Type I

Asset: HD144 AREA:KITCHEN HD

Unit Data		
	Design	**Actual**
MFG	CAPTIVE AIRE	CAPTIVE AIRE
Model Num	3630-ND-2	3630-ND-2
Job / Serial Num	-	7368826
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	50"	50"
Hood Width	36"	36"

Test Data Exhaust		
	Design	**Actual**
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	20X16	20X16
Filter Qty 1	3	3
Filter AK factor size 1	2.08	2.08
Filter Total AK Area	6.24	6.24
Filter1 FPM	-	151
Filter2 FPM	-	152
Filter3 FPM	-	152
Filter Ave FPM(corr)	-	152
CFM	1354	948

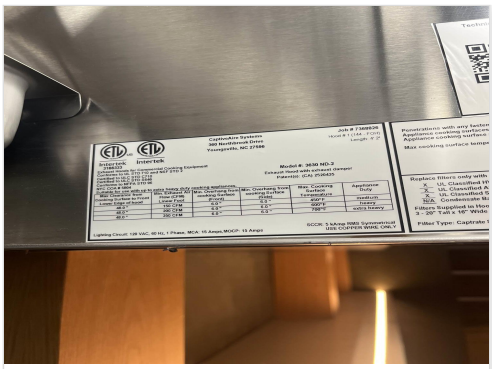
Cooking Equipment	
	Actual
Item 1	RANGE GRILL

Completed By: Roman Ilovski on 01/13/2026

Notes:
[1] Smoke capture is 100%

Written By: Tyler Youells on 02/26/2026

Unit Data - PHOTO LOG



01/13/2026

01/13/2026

National TAB

Project: 01-12-26 UCHI - WASHINGTON, DC

System/Unit: Kitchen Hood Type I

Asset: HD L50 AREA:KITCHEN HD

Unit Data		
	Design	**Actual**
MFG	CAPTIVE AIRE	CAPTIVE AIRE
Model Num	6630-ND-2-PSP-F	6630-ND-2-PSP-F
Job / Serial Num	-	7368826
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	103"	103"
Hood Width	66"	66"
Supply Plenum Type	-	PSP
Supply Plenum Width	14"	14"
Supply Plenum Length	103"	103"

Test Data Exhaust		
	Design	**Actual**
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	20X16	20X16
Filter Qty 1	6	6
Filter AK factor size 1	2.08	2.08
Filter Total AK Area	12.48	12.48
Filter1 FPM	-	142
Filter2 FPM	-	159
Filter3 FPM	-	158
Filter4 FPM	-	156
Filter5 FPM	-	159
Filter6 FPM	-	134
Filter Ave FPM(corr)	-	151
CFM	1950	1884

Cooking Equipment	
	Actual
Item 1	JADE BROILER
Item 2	6 BURNER STOVE
Item 3	FLAT TOP
Item 4	STOVE

Test Data Supply		
	Design	**Actual**
Total Area	10.01	10.01
Kv factor (Vel)	0.89	0.9
Num of Readings	-	8
Reading1 FPM	-	159
Reading2 FPM	-	164
Reading3 FPM	-	156
Reading4 FPM	-	170
Reading5 FPM	-	146
Reading6 FPM	-	144
Reading7 FPM	-	175
Reading8 FPM	-	175
Ave FPM(corr)	-	161
CFM	1600	1450

Completed By: Roman Ilovski on 01/13/2026

Unit Data - PHOTO LOG

01/13/2026

01/13/2026

National TAB

Project: 01-12-26 UCHI - WASHINGTON, DC

System/Unit: Kitchen Hood Type I

Asset: HD R50 AREA:KITCHEN HD

Unit Data		
	Design	**Actual**
MFG	CAPTIVE AIRE	CAPTIVE AIRE
Model Num	6630-ND-2-PSP-F	6630-ND-2-PSP-F
Job / Serial Num	-	7368826
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	144"	144"
Hood Width	66"	66"
Supply Plenum Type	-	PSP
Supply Plenum Width	14"	14"
Supply Plenum Length	145"	145"

Test Data Exhaust		
	Design	**Actual**
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	20X16	20X16
Filter Qty 1	9	9
Filter AK factor size 1	2.08	2.08
Filter Total AK Area	18.72	18.72
Filter1 FPM	-	104
Filter2 FPM	-	111
Filter3 FPM	-	107
Filter4 FPM	-	108
Filter5 FPM	-	110
Filter6 FPM	-	109
Filter7 FPM	-	107
Filter8 FPM	-	98
Filter9 FPM	-	101
Filter Ave FPM(corr)	-	106
CFM	2000	1984

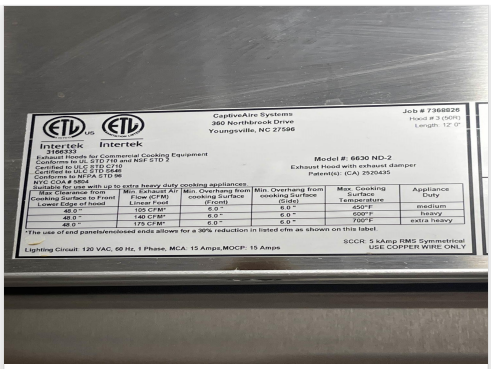
Cooking Equipment	
	Actual
Item 1	2 X RICE COOKERS
Item 2	JADE RANGE
Item 3	SINGLE BANK FRYER
Item 4	OVEN

Test Data Supply		
	Design	**Actual**
Total Area	14.10	14.10
Kv factor (Vel)	0.89	0.9
Num of Readings	-	12
Reading1 FPM	-	129
Reading2 FPM	-	142
Reading3 FPM	-	131
Reading4 FPM	-	123
Reading5 FPM	-	149
Reading6 FPM	-	151
Reading7 FPM	-	157
Reading8 FPM	-	137
Reading9 FPM	-	173
Reading10 FPM	-	173
Reading11 FPM	-	193
Reading12 FPM	-	152
Ave FPM(corr)	-	151
CFM	1800	1916

Completed By: Roman Ilovski on 01/13/2026

Unit Data - PHOTO LOG

01/13/2026



01/13/2026

National TAB

Project: 01-12-26 UCHI - WASHINGTON, DC

System/Unit: Kitchen Hood Type II

Asset: HD(Type2)1 AREA:KITCHEN HD

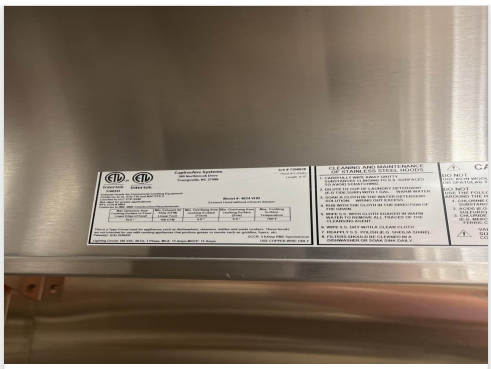
Unit Data		
	Design	**Actual**
MFG	CAPTIVE AIRE	CAPTIVE AIRE
Model Num	4824 VHB-ND	4824 VHB-ND
Serial Num	-	7368826
Type	TYPE II CANOPY	TYPE II CANOPY
Hood length	96"	96"
Hood Width	48"	48"

Test Data		
	Design	**Actual**
Exhaust CFM	800	746

Completed By: Roman Ilovski on 01/16/2026

Unit Data - PHOTO LOG

01/13/2026



01/13/2026

A
B
C
OA INTAKE
EXHAUST DISCHARGE
EXHAUST DISCHARGE
OA INTAKE
EF 5-2
EF 5-1
MAU-1
HP-2
HP-3
HP-4
HP-5
HP-6
HD SHR
HD DOL
HD 2
HD 144
HD 1
EF 4-1
EF 4-2
EF-1
EF-2
EF-3
EF-4
EF-5
AD-1
AD-2
CORE 34"
ANSUL 36"
25 PROVIDE EXHAUST DUCT AS SHOWN TO DIRECT DISCHARGE OF CONDENSING UNIT TO THE EXTERIOR LOUVER AS SHOWN. FIELD COORDINATE EXACT ROUTING WITH EXISTING CONDITIONS.