

Report By:

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



Report: TAB Report
Function: Test, Adjust, & Balance
Date: 04/29/2025
Completed By: National TAB

PROJECT

04-28-25 Penn Station (Massillon, OH)

1139 Lincoln Way East

Massillon , OH 44646

Client

C&T DESIGN
4025 PORT UNION RD.
FAIRFIELD, OH 45014

National TAB

Project: 04-28-25 Penn Station (Massillon, OH)

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Project Summary

The summary below provides a quick understanding of our scope of work and general testing procedures. Enclosed in the report is further detail 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.

RTU's (Roof Top Units) w/ Diffusers

Each of the RTU's were measured at their terminal devices or via traverse to establish a total flow for that unit. Each RTU was adjusted to within tolerance of the engineer's design flow. Each outlet was then adjusted to within tolerance of the design flow. Outside air was measured by reading the intake air opening with a velocity grid and multiplying by the free area. The outside air damper was adjusted until the airflow was within the design requirements. Any equipment that fell outside of that tolerance is noted throughout the report.

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 equals 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.

MUA (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 manufacturer's corrected area. Adjustments to the fan speed were made in order 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 fell 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.

Issue List

- Hail Guards
- Hood 2 Tag
- RTU-1 Final Filters
- RTU-2 Final Filters



04-28-25 Penn Station (Massillon, OH)

Project Issue Information

Issue Name : Hail Guards
Description : RTU1 & RTU2 are missing their hail guards recommend installing
Created By : National TAB **Assigned To :** National TAB - Kristopher Passley
Status : Open
Priority : Medium **Asset Tag :**
Originated Date : 04/29/2025 - Kristopher Passley - National TAB

Project Issue File Details



04/29/2025



04/29/2025



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04-28-25 Penn Station (Massillon, OH)

Project Issue Information

Issue Name : Hood 2 Tag
Description : Tag is missing from hood
Created By : National TAB **Assigned To :** National TAB - Kristopher Passley
Status : Open
Priority : Low **Asset Tag :**
Originated Date : 04/29/2025 - Kristopher Passley - National TAB

Project Issue File Details



04/29/2025



04-28-25 Penn Station (Massillon, OH)

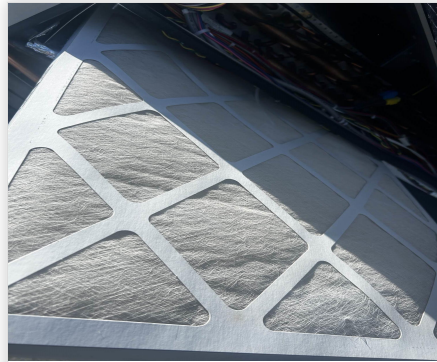
Project Issue Information

Issue Name : RTU-1 Final Filters
Description : Final filters are filled with construction dust and is currently a MERV 4 rated filter. Recommend replacing filters with MERV 8 or better.
Created By : National TAB **Assigned To :** National TAB - Kristopher Passley
Status : Open
Priority : Medium **Asset Tag :**
Originated Date : 04/29/2025 - Kristopher Passley - National TAB

Project Issue File Details



04/29/2025



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04-28-25 Penn Station (Massillon, OH)

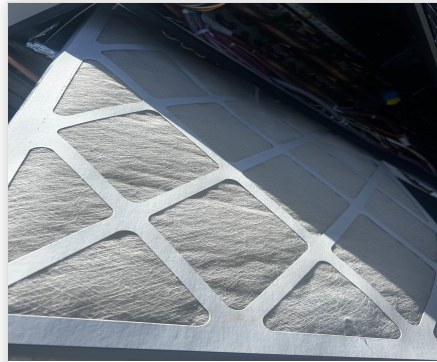
Project Issue Information

Issue Name : RTU-2 Final Filters
Description : Final filters are filled with construction dust and is currently a MERV 4 rated filter. Recommend replacing filters with MERV 8 or better.
Created By : National TAB **Assigned To :** National TAB - Kristopher Passley
Status : Open
Priority : Medium **Asset Tag :**
Originated Date : 04/29/2025 - Kristopher Passley - National TAB

Project Issue File Details



04/30/2025



04/30/2025

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
RTU-1	DINING	2940	3060	2190	2307	750	753	25.5%	24.6%						
RTU-2	KITCHEN	3000	3116	2250	2364	750	752	25.0%	24.1%						
MUA-1	COOKLINE									1650	1671				
KEF-1	GRILL											1120	1124		
KEF-2	OVEN											700	702		
KEF-3	FRY											660	685		
EF-WOMENS														75	74
EF-MENS														150	153
TOTALS		5940	6176	4440	4671	1500	1505			1650	1671	2480	2511	225	227

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	3150	3176
TOTAL EXHAUST	2705	2738
NET AIRFLOW	445	438

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H2O)
FRONT	0.009
SIDE	
REAR	0.001
AVERAGE	0.005

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

- STEP 1: INITIAL WALKTHROUGH
- STEP 2: UNIT DATA AND EVAL
- STEP 3: TEST, ADJUST AND BALANCE
- STEP 4: FINAL TESTS



04-28-25 Penn Station (Massillon, OH)

CheckList Information

Name : STEP 1: INITIAL WALKTHROUGH **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 04/23/2025 - Tara Metcalf - National TAB

Completed Date : 04/30/2025 - Kristopher Passley - National TAB

CheckList Item Details

INITIAL SITE WALKTHROUGH

Review Plan Review Checklist, has it been signed off and meets our standards to start balancing? If not contact processor to ensure job is ready.

Comment:

YES

All diffusers and grilles are installed and match design?

Comment:

YES

All hood filters installed and accounted for?

Comment:

YES

Hoods are wired and have power?

Comment:

YES

Hood is free of alarms?

Comment:

YES

Thermostats have power?

Comment:

YES

Have trades/general contractor been notified about any issues and are they created on FaciliBuild?

Comment:

YES



04-28-25 Penn Station (Massillon, OH)

CheckList Information

Name : STEP 2: UNIT DATA AND EVAL **Status :** Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 04/23/2025 - Tara Metcalf - National TAB
Completed Date : 04/30/2025 - Kristopher Passley - National TAB

CheckList Item Details

UNIT DATA AND EVALUATION WHILE GATHERING UNIT DATA CHECK THE FOLLOWING:

RTU's/AHU's

Economizers are assembled and functional?

Comment:

YES

DCV Max damper opening position is set to minimum?

Comment:

YES

Free cooling enthalpy set point set for lowest setting (Typically "D")

Comment:

YES

Motors are all operating below the FLA rating?

Comment:

YES

Are belts tight?

Comment:

NA

If direct drive unit is the speed controller working.

Comment:

YES

Is gas piping installed and valves turned on?

Comment:

YES

Unit free of noticeable noise and vibration

Comment:

YES

EF's

Rotation is correct?

Comment:

YES

Belts are tight?

Comment:

NA

Grease cup installed on hood fan?

Comment:

YES

Hinge kit installed installed on hood fan?

Comment:

YES

Lean fan back. Is grease duct installation adequate and is duct ran all the way to the base of the fan?

Comment:

YES

Flex conduit is long enough so that fan can be completely tilted back?

Comment:

YES

There is no major leakage around base of fan?

Comment:

YES

Is the motor operating below the motor FLA rating?

Comment:

YES

For restroom fan(s) is the back draft damper installed and can it fully open?

Comment:

YES

Unit free of noticeable noise and vibration?

Comment:

YES

MUA

Rotation is correct?

Comment:

YES

Gas piping is installed and valves are in on position?

Comment:

YES

Heater tested and is functional?

Comment:

YES

Internal motorized damper is fully opening?

Comment:

YES

Motor is operating below the FLA rating?

Comment:

YES

Unit free of noticeable noise and vibration?

Comment:

YES

HOODS

Kitchen equipment installed in proper places?

Comment:

YES

Can kitchen equipment be turned on for final smoke test?

Comment:

NO

DOCUMENTATION

Have trades/general contractor been notified about any issues and are they created on FaciliBuild?

Comment:

YES



04-28-25 Penn Station (Massillon, OH)

CheckList Information

Name : STEP 3: TEST, ADJUST AND BALANCE **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 04/23/2025 - Tara Metcalf - National TAB

Completed Date : 04/29/2025 - Kristopher Passley - National TAB

CheckList Item Details

TEST, ADJUST, AND BALANCE ALL EQUIPMENT:

DURING TESTING MAKE NOTE OF THE FOLLOWING:

Is space free of drafting? Yes

Comment:

Is space comfortable in all areas? Yes

Comment:

Is the space free of ventilation noise? Yes

Comment:

If deviations from design were necessary to resolve 1-3 what were they? Otherwise put "NA".

Comment:

NA



04-28-25 Penn Station (Massillon, OH)

CheckList Information

Name : STEP 4: FINAL TESTS **Status :** Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 04/23/2025 - Tara Metcalf - National TAB
Completed Date : 04/30/2025 - Kristopher Passley - National TAB

CheckList Item Details

FINAL TESTS

HOOD CAPTURE TEST

List equipment turned on for testing

Comment:

NONE

List smoke candle type used

Comment:

45 SECOND CANDLE

Smoke test capture - Perimeter of hood

Comment:

100% CAPTURE

Smoke test capture - Top of cooking surface

Comment:

100% CAPTURE

WITNESS

Date test was completed

04/29/2025

Comment:

TAB tech name / Firm

Comment:

Kristopher Passley / National TAB Int.

Site super name / Firm

Comment:

Reborn Nelson/

Owner representative name / Firm (if Applicable)

Comment:

NA

Building pressure at front & back doors (All Systems On)

Comment:

Front Door: 0.009" Back Door: 0.001"

ADDITIONAL

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

Comment:

YES

PROGRAM THERMOSTATS

Occupied 7:15AM-10:15PM: 68 Heat/72 Cool (NOTE: 3 degree MAX setback)

Yes

Comment:

Unoccupied 10:16PM-7:14AM: 65 Heat/75 Cool

Yes

Comment:

National TAB

Project: 04-28-25 Penn Station (Massillon, OH)

System/Unit: AHU/RTU



Asset: RTU1

AREA: DINING

Unit Data		
	Design	Actual
MFG	LENNOX	LENNEX
Serial Num	-	5625A01174
Model Num	LGH092H	LGT092H5EM2Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	16"X25"X1"
Num Final Filter 1	-	4
Final Filter Size 1	-	20"X25"X2"

Motor Data		
	Design	Actual
Motor MFG	-	EBMPAPST
Frame	-	IP55
Horsepower	-	3.8
Motor Rpm	-	1780
Phase	-	3
Rated Voltage	-	200-240
Rated Amperage	-	8.0

Drive Data	
	Actual
Motor Sheave SetPt	DD

Test Data		
	Design	Actual
SF CFM	2940	3060
SF RPM	-	1157
RA CFM	2190	2307
OA CFM	750	753
RL Voltage	-	208/28/208
RL Amperage	-	2.5/2.6/2.5
SF Rotation	-	CORRECT
SF System SetPt	-	65%
Min OA Damper Position	-	50%
Min OA Damper Type	-	SINGLE BLADE
OA Enthalpy Setpt	-	5mA

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.385"
Fan Suction SP	-	-0.582"
Fan Discharge SP	-	0.323"
Total ESP	-	0.708"
Fan Total SP	-	0.905"

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

Completed By: Kristopher Passley on 04/29/2025

Unit Data - PHOTO LOG



04/29/2025



04/29/2025



04/29/2025

Motor Data - PHOTO LOG



04/29/2025

National TAB

Project:04-28-25 Penn Station (Massillon, OH)

AHU/RTU



Diffuser Supply (GRD)

RTU1/DINING

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	DINING		10"	400	1	585	388	408	102.0
SGRD2	DINING		10"	400	1	585	381	400	100.0
SGRD3	DINING		16"	300	1	412	342	330	110.0
SGRD4	DINING		16"	300	1	379	300	314	104.7
SGRD5	DINING		10"	300	1	349	281	291	97.0
SGRD6	DINING		18"	300	1	385	312	323	107.7
SGRD7	DINING		18"	240	1	376	320	258	107.5
SGRD8	DINING		10"	240	1	420	346	254	105.8
SGRD9	HALL		10"	250	1	413	332	255	102.0
SGRD10	RESTROOMS		12"	70	1	130	126	74	105.7
SGRD11	RESTROOMS		12"	140	1	176	168	153	109.3
Total				2940		4210	3296	3060	104.08%

Completed By: Kristopher Passley on 04/28/2025

National TAB

Project: 04-28-25 Penn Station (Massillon, OH)

System/Unit: AHU/RTU



Asset: RTU2

AREA: KITCHEN

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	5625A01173
Model Num	LGH092H	LGT092H5EM2Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	16"X25"X1"
Num Final Filter 1	-	4
Final Filter Size 1	-	20"X25"X2"

Test Data		
	Design	Actual
SF CFM	3000	3116
SF RPM	-	1104
RA CFM	2250	2364
OA CFM	750	752
RL Voltage	-	208/208/208
RL Amperage	-	2.4/2.5/2.5
SF Rotation	-	CORREXT
SF System SetPt	-	62%
Min OA Damper Position	-	50%
Min OA Damper Type	-	SINGLE BLADE
OA Enthalpy Setpt	-	5mA

Motor Data		
	Design	Actual
Motor MFG	-	EBMPAPST
Frame	-	IP55
Horsepower	-	3.8
Motor Rpm	-	1780
Phase	-	3
Rated Voltage	-	200-240
Rated Amperage	-	8.7

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.309"
Fan Suction SP	-	-0.550"
Fan Discharge SP	-	0.361"
Total ESP	-	0.67"
Fan Total SP	-	0.911"

Drive Data	
	Actual
Motor Sheave SetPt	DD

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

Completed By: Kristopher Passley on 04/30/2025

Unit Data - PHOTO LOG



04/29/2025



04/29/2025



04/29/2025

Motor Data - PHOTO LOG



04/29/2025

National TAB

Project:04-28-25 Penn Station (Massillon, OH)

AHU/RTU



Diffuser Supply (GRD)

RTU2/KITCHEN

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	MUA	ACPSP	6"X84"	600	3.5	499	683	649	108.2
SGRD2	KITCHEN		10"	350	1	433	371	352	100.6
SGRD3	KITCHEN		10"	350	1	526	364	346	98.9
SGRD4	KITCHEN		10"	350	1	439	386	367	104.9
SGRD5	KITCHEN	ACPSP	6"X50"	350	2.08	275	384	365	104.3
SGRD6	KITCHEN		10"	300	1	300	327	310	103.3
SGRD7	KITCHEN		10"	300	1	363	327	311	103.7
SGRD8	KITCHEN		8"	200	1	232	218	207	103.5
SGRD9	KITCHEN		8"	200	1	233	220	209	104.5
Total				3000		3300	3280	3116	103.87%

Completed By: Kristopher Passley on 04/29/2025

National TAB

Project: 04-28-25 Penn Station (Massillon, OH)

System/Unit: FAN - Exhaust



Asset: EF1

AREA: Women Restroom

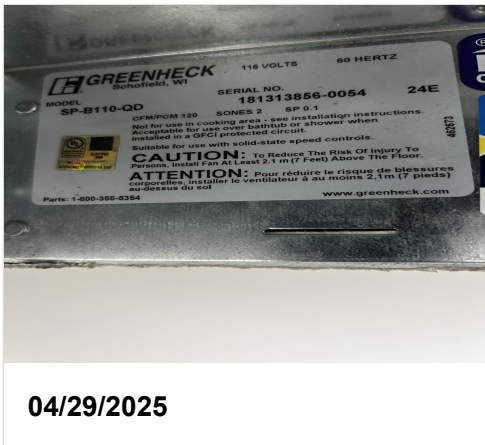
Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	SP-B110-QD
Serial Num	-	181313856-0054
Type	-	CEILING

Test Data		
	Design	Actual
CFM	75	74
RL Voltage	-	118
RL Amperage	-	1.0
Discharge ESP	-	-0.137"
Total ESP	-	0.137"

Motor Data		
	Design	Actual
Motor MFG	-	GREENHECK
Frame	-	24E
Horsepower	-	NL
Motor Rpm	-	950
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	1.15
Service Factor	-	NL

Completed By: Kristopher Passley on 04/29/2025

Unit Data - PHOTO LOG



National TAB

Project: 04-28-25 Penn Station (Massillon, OH)

System/Unit: FAN - Exhaust



Asset: EF2

AREA: MENS RESTROOM

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	SP-B150-QD
Serial Num	-	188955247-0054
Type	-	CEILING

Test Data		
	Design	Actual
CFM	150	153
RL Voltage	-	119
RL Amperage	-	1.5
Discharge ESP	-	-0.179"
Total ESP	-	0.179"

Motor Data		
	Design	Actual
Motor MFG	-	GREENHECK
Frame	-	24J
Horsepower	-	NL
Motor Rpm	-	1050
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	1.8
Service Factor	-	NL

Completed By: Kristopher Passley on 04/29/2025

Unit Data - PHOTO LOG



National TAB

Project: 04-28-25 Penn Station (Massillon, OH)

System/Unit: FAN - Exhaust



Asset: KEF1

AREA:GRIDDLE FAN

Unit Data		
	Design	Actual
MFG	CAPTIVAIRE	ECON-AIR
Model Num	DU85HFA	EADU85H
Serial Num	-	69222359
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Test Data		
	Design	Actual
CFM	1120	1124
Fan RPM	-	829
Fan Rotation	-	CORRECT
Motor RPM	-	829
System SetPt	-	47%
RL Voltage	-	120
RL Amperage	-	2.1
Total ESP	1.100"	0.281"
Fan Inlet SP	-	-0.281"
Fan Discharge SP	-	ATM

Motor Data		
	Design	Actual
Motor MFG	-	TELCO GREEN
Frame	-	NL
Horsepower	0.750	0.750
Motor Rpm	1217	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	8.9
Service Factor	-	NL

Completed By: Kristopher Passley on 04/29/2025

Unit Data - PHOTO LOG



04/29/2025



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National TAB

Project: 04-28-25 Penn Station (Massillon, OH)

System/Unit: FAN - Exhaust



Asset: KEF2

AREA:OVEN FAN

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	ECON-AIR
Model Num	DU33HFA	EDU33HFA
Serial Num	-	6922359
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Test Data		
	Design	Actual
CFM	700	702
Fan RPM	-	1475
Fan Rotation	-	CORRECT
Motor RPM	-	1475
System SetPt	-	82%
RL Voltage	-	120
RL Amperage	-	3.6
Total ESP	0.730"	0.572"
Fan Inlet SP	-	-0.572"
Fan Discharge SP	-	ATM

Motor Data		
	Design	Actual
Motor MFG	-	TELCO GREEN
Frame	-	NL
Horsepower	-	0.33
Motor Rpm	1203	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	4.3
Service Factor	-	NL

Completed By: Kristopher Passley on 04/29/2025

Unit Data - PHOTO LOG



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04/29/2025



National TAB

Project: 04-28-25 Penn Station (Massillon, OH)

System/Unit: FAN - Exhaust

Asset: KEF3

AREA:FRYER PAN

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	ECON-AIR
Model Num	DU50HFA	EDU85H
Serial Num	-	6922359
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Test Data		
	Design	Actual
CFM	660	685
Fan RPM	-	668
Fan Rotation	-	CORRECT
Motor RPM	-	668
System SetPt	-	37%
RL Voltage	-	120
RL Amperage	-	1.0
Total ESP	1.100"	0.157"
Fan Inlet SP	-	-0.157"
Fan Discharge SP	-	ATM

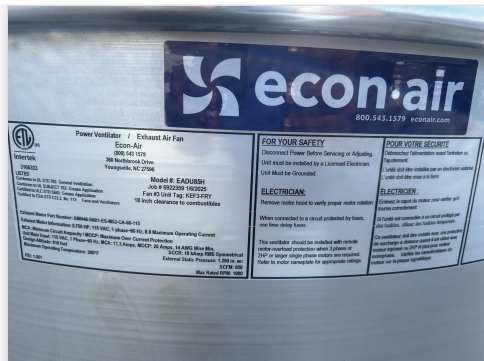
Motor Data		
	Design	Actual
Motor MFG	-	TELCO GREEN
Frame	-	NL
Horsepower	-	0.750
Motor Rpm	1433	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	8.9
Service Factor	-	NL

Completed By: Kristopher Passley on 04/29/2025

Unit Data - PHOTO LOG



04/29/2025



04/29/2025

National TAB

Project: 04-28-25 Penn Station (Massillon, OH)

System/Unit: FAN - Supply



Asset: MUA1

AREA: HEATED MUA HOOD

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	A1-D.250 15D	EA1-D.250 15D
Serial Num	-	6922359
Type	MUA	MUA
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	TECO WESTINGHOUSE
Frame	-	145T
Horsepower	1.500	1.5
Motor Rpm	1855	1740
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	4.4
Service Factor	-	1.15

Gas Heat		
	Design	Actual
Heater Operates (y/n)	-	Y
Flame Status (pass/fail)	-	PASS
Inlet Air Temp SetPt	55	55
Discharge Air Temp SetPt	60	60
Air Flow Switch SP Actual	-	0.335"

Test Data		
	Design	Actual
CFM	1650	1671
SF RPM	-	1394
Motor RPM	-	1394
SF System SetPt	-	48.4 HZ
RL Voltage	-	208/208/208
RL Amperage	-	2.1/2.0/2.2
Total ESP	-	0.487"
Fan Discharge SP	-	0.487"

General	
	Actual
Fan Rotation Correct	YES

Completed By: Kristopher Passley on 04/29/2025

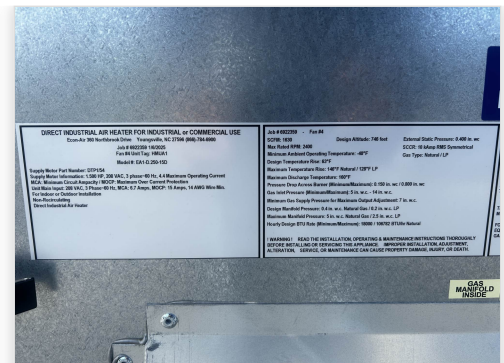
Unit Data - PHOTO LOG



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National TAB

Project: 04-28-25 Penn Station (Massillon, OH)

System/Unit: Kitchen Hood Type I



Asset: HD1

AREA:GRILL HOOD

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	ECON-AIR
Model Num	3650 BD-2	3650 ELPX-2
Job / Serial Num	-	6922359
Type	TYPE - LOW PROXIMITY	TYPE I CANOPY
Hood length	72"	84"
Hood Width	-	36"
Supply Plenum Type	-	MUA.ACPSP
Supply Plenum Width	-	14"
Supply Plenum Length	-	84"

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO FILTER	CAPTRATE SOLO FILTER
Filter Size 1	16"X16"	16"X16"
Filter Qty 1	5	5
Filter AK factor size 1	1.62	1.62
Filter Total AK Area	8.1	8.1
Filter1 FPM	-	134
Filter2 FPM	-	144
Filter3 FPM	-	149
Filter4 FPM	-	140
Filter5 FPM	-	127
Filter Ave FPM(corr)	-	138.6
CFM	-	1124

Cooking Equipment	
	Actual
Item 1	GRILL

Test Data Supply		
	Design	Actual
Total Area	-	8.17
Kv factor (Vel)	-	0.89
Num of Readings	-	7
Reading1 FPM	-	138
Reading2 FPM	-	127
Reading3 FPM	-	132
Reading4 FPM	-	115
Reading5 FPM	-	117
Reading6 FPM	-	164
Reading7 FPM	-	178
Ave FPM(corr)	-	138.7
CFM	-	1008

Completed By: Kristopher Passley on 04/29/2025

Unit Data - PHOTO LOG



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National TAB

Project: 04-28-25 Penn Station (Massillon, OH)
System/Unit: Kitchen Hood Type I



Asset: HD2

AREA:OVEN HOOD

Unit Data		
	Design	Actual
MFG	CAPTIVAIRE	CAPTIVAIRE
Model Num	4412 QUIZNO	4412 QUIZNO
Job / Serial Num	-	6922359
Type	TYPE -CANOPY	TYPE
Hood length	98"	44"
Hood Width	-	21"

Test Data Exhaust		
	Design	Actual
Filter Type	SS BAFFLE W/HANDLES	KLEEN GUARD GREASE FILTER
Filter Size 1	10"X20"	10"X20"
Filter Qty 1	2	2
Filter AK factor size 1	-	1.2
Filter Total AK Area	-	2.4
Filter1 FPM	-	293
Filter2 FPM	-	292
Filter Ave FPM(corr)	-	292.5
CFM	-	702

Cooking Equipment	
	Actual
Item 1	OVEN

Completed By: Kristopher Passley on 04/29/2025

Unit Data - PHOTO LOG



04/29/2025

National TAB

Project: 04-28-25 Penn Station (Massillon, OH)

System/Unit: Kitchen Hood Type I



Asset: HD3

AREA:FRY HOOD

Unit Data		
	Design	Actual
MFG	CAPTIVAIRE	ECON-AIR
Model Num	3650 BD-2	3650 ELPX-2
Job / Serial Num	-	6922359
Type	TYPE- LOW PROXIMITY	TYPE I CANOPY
Hood length	60"	50"
Hood Width	-	36"
Supply Plenum Type	-	MUAACPSP
Supply Plenum Width	-	14"
Supply Plenum Length	-	50"

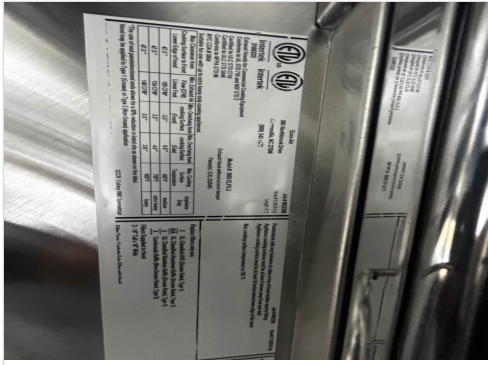
Test Data Supply		
	Design	Actual
Total Area	-	4.86
Kv factor (Vel)	-	0.89
Num of Readings	-	4
Reading1 FPM	-	151
Reading2 FPM	-	162
Reading3 FPM	-	154
Reading4 FPM	-	146
Ave FPM(corr)	-	153.25
CFM	-	663

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO FILTER	CAPTRATE SOLO FILTER
Filter Size 1	16"x16"	16"X16"
Filter Qty 1	3	3
Filter AK factor size 1	1.62	1.62
Filter Total AK Area	4.86	4.86
Filter1 FPM	-	145
Filter2 FPM	-	140
Filter3 FPM	-	138
Filter Ave FPM(corr)	-	141
CFM	-	685

Cooking Equipment	
	Actual
Item 1	FRYER
Item 2	FRYER

Completed By: Kristopher Passley on 04/29/2025

Unit Data - PHOTO LOG



04/29/2025



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