Report By:

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

Report: TAB REPORT

Function: Test, Adjust, & Balance

Date: 02/02/2024

PROJECT

02-05-24 PERRY'S - VERNON HILLS, IL

122 HAWTHORN CENTER

VERNON HILLS, IL 60061

Client

Air Supply HVAC

8N450 TAMLING CT

UNIT B

BARTLETT, IL 60103

National TAB

Project: 02-05-24 PERRY'S - VERNON HILLS, IL

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02-05-24 PERRY'S - VERNON HILLS, IL

CheckList Information

Name : TECH - SITE PICTURES **Status :** Not Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 01/24/2024 - Brian Turnbough - National TAB

CheckList Item Details

STORE FRONT

Comment:

RTU-1

Comment:

RTU-2

Comment:

RTU-3

Comment:

RTU-4

Comment:

RTU-5

Comment:

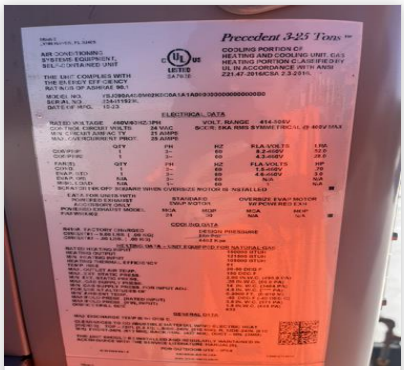
RTU-6

Comment:

RTU-7

Comment:

RTU-7
02/12/2024

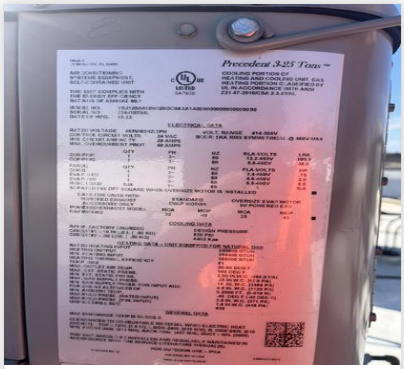


UnitLabel(1)
02/12/2024

RTU-8

Comment:

RTU-8
02/12/2024



UnitLabel(1)
02/12/2024

RTU-9

Comment:

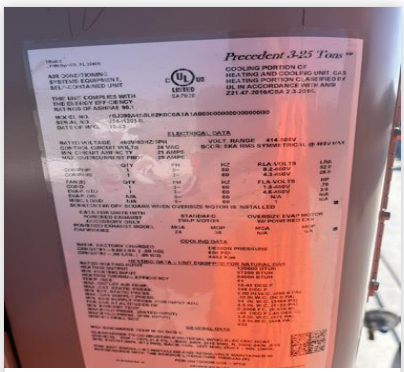
RTU-9
02/12/2024

UnitLabel(1)
02/12/2024

RTU-10

Comment:

RTU-10
02/12/2024

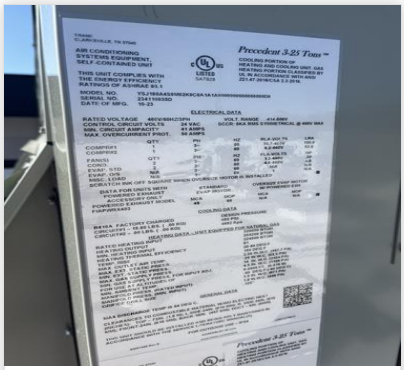


UnitLabel(1)
02/12/2024

RTU-11

Comment:

RTU-11
02/12/2024

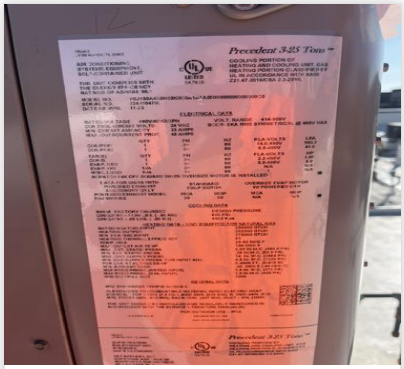


UnitLabel(1)
02/12/2024

RTU-12

Comment:

RTU-12
02/12/2024

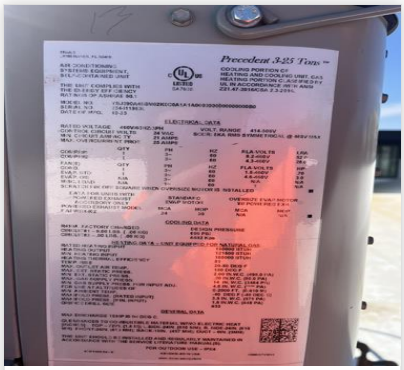


UnitLabel(1)
02/12/2024

RTU-13

Comment:

RTU-13
02/12/2024



UnitLabel(1)
02/12/2024

MAU-1

Comment:

EF-1

Comment:

EF-2

Comment:

EF-2-Dishwasher
02/12/2024

UnitLabel(1)
02/12/2024

EF-3

Comment:

EF-4

Comment:

EF-4
02/12/2024

UnitLabel(1)
02/12/2024

EF-5

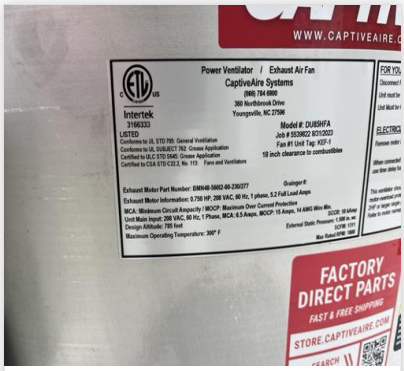
Comment:

EF-5-Smoker
02/12/2024

KEF-1

Comment:

KEF-1-HD3
02/12/2024



Label
02/12/2024

Curb
02/12/2024

KEF-2

Comment:

KEF-2-HD2
02/12/2024

Label
02/12/2024

Curb
02/12/2024

KEF-3

Comment:

KEF-3-HD1
02/12/2024

Label
02/12/2024

Curb
02/12/2024

KEF-4

Comment:

HOOD-1

Comment:

HD-1-Left(1)
02/12/2024

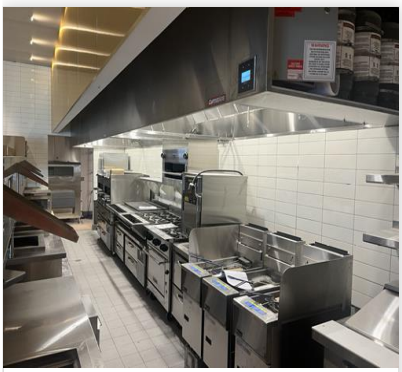
HOOD-2

Comment:

HD-2-Center
02/12/2024

HOOD-3

Comment:



HD-3-Right
02/12/2024

HOOD-4

Comment:

HD-4-Rear
02/12/2024

DISHWASHER

Comment:

DishwasherExhaust.jpe..
02/12/2024

02-05-24 PERRY'S - VERNON HILLS, IL

CheckList Information

Name :	TECH - STEP 1: INITIAL SITE WALKTHROUGH	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	01/24/2024 - Brian Turnbough - National TAB		

CheckList Item Details

INITIAL SITE WALKTHROUGH

All diffusers and grilles are installed and match design?	N/A
Comment: RTU-13 diffuser 13-4 installation incomplete. Diffuser was drywalled over.	
All hood filters installed and accounted for?	Yes
Comment:	
Hoods are wired and have power?	Yes
Comment:	
Hood is free of alarms?	No
Comment: No, hood has pressure switch and core fire system alarm. CAS scheduled for 2/13/24/	
Thermostats have power?	Yes
Comment:	
Have trades/general contractor been notified about any issues and are they created on FaciliBuild?	
Comment: Yes	

02-05-24 PERRY'S - VERNON HILLS, IL

CheckList Information

Name : TECH - STEP 2: UNIT DATA AND EVAL **Status :** Not Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 01/24/2024 - Brian Turnbough - 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?	No

Comment:

RTU-6 Economizer is not functional. Unit is giving a afresh air options module communication error. Needs Service.

DCV Max damper opening position is set to minimum?	Yes

Comment:

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

Comment:

Motors are all operating below the FLA rating?	Yes

Comment:

Are belts tight?

Comment:

Yes

If direct drive unit is the speed controller working.

Comment:

Yes

Is gas piping installed and valves turned on?	Yes

Comment:

Unit free of noticeable noise and vibration	Yes

Comment:

EF's

Rotation is correct?	Yes

Comment:

Belts are tight?

Comment:

NA, all fans are Direct Drive

Grease cup installed on hood fan?	Yes

Comment:

Hinge kit installed installed on hood fan?	Yes

Comment:

All fans lean to the West.

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

Comment:

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

Comment:

There is no major leakage around base of fan?	Yes

Comment:

Is the motor operating below the motor FLA rating?	Yes

Comment:

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

Comment:

Unit free of noticeable noise and vibration?	Yes

Comment:

MUA

Rotation is correct?	Yes

Comment:

Gas piping is installed and valves are in on position?	Yes

Comment:

Heater tested and is functional?	Yes

Comment:

Internal motorized damper is fully opening?	Yes

Comment:

Motor is operating below the FLA rating?	Yes

Comment:

Unit free of noticeable noise and vibration?	Yes

Comment:

HOODS

Kitchen equipment installed in proper places?	Yes

Comment:

Can kitchen equipment be turned on for final smoke test?	N/A

Comment:

cooking equipment not yet started up.

DOCUMENTATION

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

Comment:

Yes

02-05-24 PERRY'S - VERNON HILLS, IL

CheckList Information

Name :	TECH - STEP 3: TEST, ADJUST AND BALANCE	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	01/24/2024 - Brian Turnbough - National TAB		

CheckList Item Details

TEST, ADJUST, AND BALANCE ALL EQUIPMENT:

DURING TESTING MAKE NOTE OF THE FOLLOWING:

Is space free of drafting?

Comment:

Is space comfortable in all areas?

Comment:

Is the space free of ventilation noise?

Comment:

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

Comment:

02-05-24 PERRY'S - VERNON HILLS, IL

CheckList Information

Name :	TECH - STEP 4: FINAL TESTS	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	01/24/2024 - Brian Turnbough - National TAB		

CheckList Item Details

FINAL TESTS

HOOD CAPTURE TEST

List equipment turned on for testing

Comment:

List smoke candle type used

Comment:

Smoke test capture - Perimeter of hood

Comment:

Smoke test capture - Top of cooking surface

Comment:

WITNESS

Date test was completed

Comment:

TAB tech name / Firm

Comment:

Site super name / Firm

Comment:

Owner representative name / Firm (if Applicable)

Comment:

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

Comment:

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:

Thermostats are programmed?

Comment:

02-05-24 PERRY'S - VERNON HILLS, IL

CheckList Information

Name :	TECH - STEP 5: FINAL DOCUMENTATION	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	01/24/2024 - Brian Turnbough - National TAB		

CheckList Item Details

FINAL DOCUMENTATION

Marked Data capture complete for all assets?

Comment:

Picture file sent to processing team or uploaded?

Comment:

Balance schedule complete and uploaded?

Comment:

Prelim report generated and reviewed?

Comment:

National TAB

Project: 02-05-24 PERRY'S - VERNON HILLS, IL

System/Unit: AHU/RTU

Asset: RTU11 AREA:SCULLERY/RR/OFFICES/PREP/STORAGE/DELIVERY

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	234110035D
Model Num	YHD180	YHD180
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	65X17
Num Final Filter 1	-	8
Final Filter Size 1	-	20X24X2

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	NL
Horsepower	3.00	3.0
Motor Rpm	-	
Phase	3	3
Rated Voltage	408	460
Rated Amperage	-	4.6

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	DD
Motor Bore Size	-	DD
Motor Sheave SetPt	-	
Fan Sheave Size	-	DD
Fan Sheave Bore	-	DD
Belt CL Distance	-	DD
Num of Belts	-	DD
Belt Size	-	DD
Belt Alignment	-	DD

Test Data		
	Design	**Actual**
SF CFM	4800	4919
SF RPM	-	
RA CFM	3925	
OA CFM	875	
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	1.00	
Fan Total SP	-	

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

National TAB

Project:02-05-24 PERRY'S - VERNON HILLS, IL

AHU/RTU

Diffuser Supply (GRD)

RTU11/SCULLERY/RR/OFFICES/PREP/STORAGE/DELIVERY

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
RTU11-SGRD1	CHAIR STORAGE	SD-4	6"	100	1.0	124	86	108	108.0
RTU11-SGRD2	PREP	SD-1	10"	325	1.0	409	288	343	105.5
RTU11-SGRD3	PREP	SD-1	12"	325	1.0	665	444	354	108.9
RTU11-SGRD4	PREP	SD-1	12"	325	1.0	701	493	355	109.2
RTU11-SGRD5	PREP	SD-1	12"	325	1.0	451	336	351	108.0
RTU11-SGRD6	PREP	SD-1	12"	325	1.0	642	456	319	98.2
RTU11-SGRD7	PREP	SD-3	10X12	300	1.0	384	326	311	103.7
RTU11-SGRD8	PREP	SD-1	12"	325	1.0	422	287	331	101.8
RTU11-SGRD9	PREP	SD-1	12"	325	1.0	535	375	329	101.2
RTU11-SGRD10	COOLER I	SD-1	12"	325	1.0	326	224	318	97.8
RTU11-SGRD11	PREP	SD-1	10"	325	1.0	344	226	294	90.5
RTU11-SGRD12	SCULLERY	SD-1	10"	325	1.0	429	298	316	97.2
RTU11-SGRD13	SCULLERY	SD-1	12"	325	1.0	631	431	346	106.5
RTU11-SGRD14	UNISEX TOILET	SD-4	6"	25	1.0	105	67		-
RTU11-SGRD15	OFFICE I	SD-5	10"	250	1.0	336	229	262	104.8
RTU11-SGRD16	OFFICE II	SD-5	10"	250	1.0	108	81	267	106.8
RTU11-SGRD17	DELIVERY	SD-1	10"	300	1.0	346	240	292	97.3
Total				4800		6958	4887	4896	102%

Completed By: Michael McDonnell on 02/08/2024

National TAB

Project: 02-05-24 PERRY'S - VERNON HILLS, IL

System/Unit: AHU/RTU

Asset: RTU12 AREA:SERVICE

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	234510470L
Model Num	YHD150	YHD150
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	37.5X24
Num Final Filter 1	-	3
Final Filter Size 1	-	18X18X2
Num Final Filter 2	-	3
Final Filter Size 2	-	18X24X2

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	NL
Horsepower	3.00	5.0
Motor Rpm	-	
Phase	3	3
Rated Voltage	480	460
Rated Amperage	-	5.5

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	DD
Motor Bore Size	-	DD
Motor Sheave SetPt	-	
Fan Sheave Size	-	DD
Fan Sheave Bore	-	DD
Belt CL Distance	-	DD
Num of Belts	-	DD
Belt Size	-	DD
Belt Alignment	-	DD

Test Data		
	Design	**Actual**
SF CFM	4800	4651
SF RPM	-	
RA CFM	3925	
OA CFM	875	
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	1.00"	
Fan Total SP	-	

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

National TAB

Project:02-05-24 PERRY'S - VERNON HILLS, IL

AHU/RTU

Diffuser Supply (GRD)

RTU12/SERVICE

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
RTU12-SGRD1	BUSSER/BREAD	SD-1	12"	375	1.0	570	341	370	98.7
RTU12-SGRD2	SERVICE	SD-1	12"	425	1.0	487	426	445	104.7
RTU12-SGRD3	SERVICE	SD-1	12"	475	1.0	451	544	438	92.2
RTU12-SGRD4	SERVICE	SD-1	12"	475	1.0	546	431	509	107.2
RTU12-SGRD5	SERVICE	SD-1	12"	475	1.0	489	417	461	97.1
RTU12-SGRD6	SERVICE	SD-1	12"	475	1.0	511	417	436	91.8
RTU12-SGRD7	SERVICE	SD-1	12"	475	1.0	423	419	447	94.1
RTU12-SGRD8	SERVICE	SD-1	12"	475	1.0	279	419	486	102.3
RTU12-SGRD9	SERVICE	SD-1	12"	350	1.0	349	384	367	104.9
RTU12-SGRD10	SERVICE BAR	SD-1	12"	375	1.0	504	544	341	90.9
RTU12-SGRD11	SERVICE BAR	SD-1	12"	375	1.0	250	267	351	93.6
Total				4750		4859	4609	4651	97.92%

Completed By: Michael McDonnell on 02/08/2024

National TAB

Project: 02-05-24 PERRY'S - VERNON HILLS, IL

System/Unit: AHU/RTU

Asset: RTU1 AREA:ENTRY/HOST/LOBBY

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	233610941L
Model Num	YHC060	YHC060
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	37.5X24
Num Final Filter 1	-	4
Final Filter Size 1	-	16X25X2

Motor Data		
	Design	**Actual**
Motor MFG	-	MARATHON
Frame	-	56
Horsepower	1.00	1.0
Motor Rpm	-	1725
Phase	3	3
Rated Voltage	480	460
Rated Amperage	-	1.6

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	3"
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	
Fan Sheave Size	-	AK49
Fan Sheave Bore	-	3/4"
Belt CL Distance	-	10.5"
Num of Belts	-	1
Belt Size	-	AX29
Belt Alignment	-	VERIFIED

Test Data		
	Design	**Actual**
SF CFM	1600	
SF RPM	-	904
RA CFM	1400	
OA CFM	200	
RL Voltage	-	
RL Amperage	-	1.4
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	0.75"	
Fan Total SP	-	

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

National TAB

Project:02-05-24 PERRY'S - VERNON HILLS, IL

AHU/RTU

Diffuser Supply (GRD)

RTU1/ENTRY/HOST/LOBBY

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
RTU1-SGRD1	LOBBY	PSD-1	8"	200					-
RTU1-SGRD2	LOBBY	PSD-1	8"	200					-
RTU1-SGRD3	VESTIBULE	PSD-1	8"	150					-
RTU1-SGRD4	VESTIBULE	PSD-1	8"	150					-
RTU1-SGRD5	HOST	PSD-1	8"	200					-
RTU1-SGRD6	HOST	PSD-1	8"	75					-
RTU1-SGRD7	HOST	PSD-1	8"	200					-
RTU1-SGRD8	HOST	PSD-1	8"	150					-
RTU1-SGRD9	HOST	PSD-1	8"	125					-
RTU1-SGRD10	HOST	PSD-1	8"	150					-
Total				1600		0	0	0	0%

National TAB

Project: 02-05-24 PERRY'S - VERNON HILLS, IL

System/Unit: AHU/RTU

Asset: RTU2 AREA:BAR DINING

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	234510437L
Model Num	YHD150	YSJ150
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	37.5X24
Num Final Filter 1	-	3
Final Filter Size 1	-	18X24X2
Num Final Filter 2	-	3
Final Filter Size 2	-	18X18X2

Test Data		
	Design	**Actual**
SF CFM	4000	3884
SF RPM	-	
RA CFM	3240	
OA CFM	760	
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	-	
Frame	-	NL
Horsepower	3.00	5.0
Motor Rpm	-	1940
Phase	3	3
Rated Voltage	480	460
Rated Amperage	-	5.5

Performance Data		
	Design	**Actual**
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.75	
Fan Total SP	-	

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	DD
Motor Bore Size	-	DD
Motor Sheave SetPt	-	
Fan Sheave Size	-	DD
Fan Sheave Bore	-	DD
Belt CL Distance	-	DD
Num of Belts	-	DD
Belt Size	-	DD
Belt Alignment	-	DD

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

National TAB

Project:02-05-24 PERRY'S - VERNON HILLS, IL

AHU/RTU

Diffuser Supply (GRD)

RTU2/BAR DINING

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
RTU2-SGRD1	BAR DINING	PSD-3	12"	575	1.0	753	690	582	101.2
RTU2-SGRD2	BAR DINING	PSD-3	12"	570	1.0	619	567	561	98.4
RTU2-SGRD3	BAR DINING	PSD-3	12"	570	1.0	579	555	542	95.1
RTU2-SGRD4	BAR DINING	PSD-3	12"	570	1.0	590	551	566	99.3
RTU2-SGRD5	BAR DINING	PSD-3	12"	570	1.0	689	585	557	97.7
RTU2-SGRD6	BAR DINING	PSD-3	12"	570	1.0	649	613	548	96.1
RTU2-SGRD7	BAR DINING	PSD-3	12"	575	1.0	532	474	528	91.8
Total				4000		4411	4035	3884	97.1%

Completed By: Michael McDonnell on 02/12/2024

National TAB

Project: 02-05-24 PERRY'S - VERNON HILLS, IL

System/Unit: AHU/RTU

Asset: RTU3 AREA:BAR

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	233610933L
Model Num	YHC048	YHC048
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	37.5X24
Num Final Filter 1	-	4
Final Filter Size 1	-	16X25X2

Motor Data		
	Design	**Actual**
Motor MFG	-	MARATHON
Frame	-	56
Horsepower	1.00	1.0
Motor Rpm	-	1725
Phase	3	3
Rated Voltage	480	460
Rated Amperage	-	1.6

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	3"
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	
Fan Sheave Size	-	AK51
Fan Sheave Bore	-	3/4"
Belt CL Distance	-	10.5"
Num of Belts	-	1
Belt Size	-	AX29
Belt Alignment	-	VERIFIED

Test Data		
	Design	**Actual**
SF CFM	1280	
SF RPM	-	
RA CFM	1080	
OA CFM	200	
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	0.75"	
Fan Total SP	-	

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

Diffuser Supply (GRD)

RTU3/BAR

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
RTU3-SGRD1	BAR	PSD-1	8"	140	1.0	149			-
RTU3-SGRD2	BAR	PSD-1	8"	140	1.0	173			-
RTU3-SGRD3	BAR	PSD-2	8"	100	1.0	141			-
RTU3-SGRD4	BAR	PSD-1	8"	140	1.0	204			-
RTU3-SGRD5	BAR	PSD-1	8"	140	1.0	129			-
RTU3-SGRD6	BAR	PSD-2	8"	100	1.0	103			-
RTU3-SGRD7	BAR	PSD-1	8"	140	1.0	154			-
RTU3-SGRD8	BAR	PSD-2	8"	100	1.0	161			-
RTU3-SGRD9	BAR	PSD-1	8"	140	1.0	198			-
RTU3-SGRD10	BAR	PSD-1	8"	140	1.0	134			-
Total				1280		1546	0	0	0%

National TAB

Project: 02-05-24 PERRY'S - VERNON HILLS, IL

System/Unit: AHU/RTU

Asset: RTU4 AREA:WOMENS RR

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	23332116FA
Model Num	4YCC4030	4YCC4030
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	14.5X18.5
Num Final Filter 1	-	
Final Filter Size 1	-	
Num Final Filter 2	-	
Final Filter Size 2	-	

Test Data		
	Design	**Actual**
SF CFM	600	
SF RPM	-	
RA CFM	450	
OA CFM	150	
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	-	
Frame	-	NL
Horsepower	0.33	0.5
Motor Rpm	-	
Phase	1	1
Rated Voltage	208	208/230
Rated Amperage	-	3.9

Performance Data		
	Design	**Actual**
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.75"	
Fan Total SP	-	

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	DD
Motor Bore Size	-	DD
Motor Sheave SetPt	-	
Fan Sheave Size	-	DD
Fan Sheave Bore	-	DD
Belt CL Distance	-	DD
Num of Belts	-	DD
Belt Size	-	DD
Belt Alignment	-	DD

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

Notes:
NO FINAL FILTER INSTALLED

Written By: Michael McDonnell on 02/05/2024

Diffuser Supply (GRD)

RTU4/WOMENS RR

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
RTU4-SGRD1	WOMENS RR	PSD-1	8"	150					-
RTU4-SGRD2	MENS RR	PSD-1	8"	150					-
RTU4-SGRD3	MENS RR	PSD-1	8"	150					-
RTU4-SGRD4	MENS RR	PSD-1	8"	150					-
Total				600		0	0	0	0%

National TAB

Project: 02-05-24 PERRY'S - VERNON HILLS, IL

System/Unit: AHU/RTU

Asset: RTU5 AREA:PRIVATE DINING I

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	233610167L
Model Num	YHC037	YHC037
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	26.75X15.25
Num Final Filter 1	-	2
Final Filter Size 1	-	20X30X2

Motor Data		
	Design	**Actual**
Motor MFG	-	
Horsepower	0.75	0.75
Motor Rpm	-	
Phase	3	1
Rated Voltage	480	460
Rated Amperage	-	3.7

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	DD
Motor Bore Size	-	DD
Motor Sheave SetPt	-	
Fan Sheave Size	-	DD
Fan Sheave Bore	-	DD
Belt CL Distance	-	DD
Num of Belts	-	DD
Belt Size	-	DD
Belt Alignment	-	DD

Test Data		
	Design	**Actual**
SF CFM	960	
SF RPM	-	
RA CFM	760	
OA CFM	200	
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	0.75"	
Fan Total SP	-	

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

Diffuser Supply (GRD)

RTU5/PRIVATE DINING I

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
RTU5-SGRD1	PRIVATE DINING I	PSD-1	8"	120					-
RTU5-SGRD2	PRIVATE DINING I	PSD-1	8"	120					-
RTU5-SGRD3	PRIVATE DINING I	PSD-1	8"	120					-
RTU5-SGRD4	PRIVATE DINING I	PSD-1	8"	120					-
RTU5-SGRD5	PRIVATE DINING I	PSD-1	8"	120					-
RTU5-SGRD6	PRIVATE DINING I	PSD-1	8"	120					-
RTU5-SGRD7	PRIVATE DINING I	PSD-1	8"	120					-
RTU5-SGRD8	PRIVATE DINING I	PSD-1	8"	120					-
RTU5-SGRD9	PRIVATE DINING I	PSD-1	8"	120					-
Total				1080		0	0	0	0%

National TAB

Project: 02-05-24 PERRY'S - VERNON HILLS, IL

System/Unit: AHU/RTU

Asset: RTU6 AREA:PRIVATE DINING II

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	234412019L
Model Num	YHC092	YSJ090
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	37.5X24
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	2400	
SF RPM	-	
RA CFM	1990	
OA CFM	410	
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	-	
Horsepower	1.00	3.0
Motor Rpm	-	1850
Phase	3	3
Rated Voltage	480	460
Rated Amperage	-	4.6

Performance Data		
	Design	**Actual**
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.75"	
Fan Total SP	-	

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	DD
Motor Bore Size	-	DD
Motor Sheave SetPt	-	
Fan Sheave Size	-	DD
Fan Sheave Bore	-	DD
Belt CL Distance	-	DD
Num of Belts	-	DD
Belt Size	-	DD
Belt Alignment	-	DD

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

National TAB

Project:02-05-24 PERRY'S - VERNON HILLS, IL

AHU/RTU

Diffuser Supply (GRD)

RTU6/PRIVATE DINING II

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
RTU6-SGRD1	PRIVATE DINING II	PSD-1	8"	200					-
RTU6-SGRD2	PRIVATE DINING II	PSD-1	8"	200					-
RTU6-SGRD3	PRIVATE DINING II	PSD-1	8"	200					-
RTU6-SGRD4	PRIVATE DINING II	PSD-1	8"	200					-
RTU6-SGRD5	PRIVATE DINING II	PSD-1	8"	200					-
RTU6-SGRD6	PRIVATE DINING II	PSD-1	8"	200					-
RTU6-SGRD7	PRIVATE DINING II	PSD-1	8"	200					-
RTU6-SGRD8	PRIVATE DINING II	PSD-1	8"	200					-
RTU6-SGRD9	PRIVATE DINING II	PSD-1	8"	200					-
RTU6-SGRD10	PRIVATE DINING II	PSD-1	8"	200					-
RTU6-SGRD11	PRIVATE DINING II	PSD-1	8"	200					-
RTU6-SGRD12	PRIVATE DINING II	PSD-1	8"	200					-
Total				2400		0	0	0	0%

National TAB

Project: 02-05-24 PERRY'S - VERNON HILLS, IL

System/Unit: AHU/RTU

Asset: RTU7 AREA:PRIVATE DINING III

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	234411929L
Model Num	YHC092	YHC092
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	37.5X24
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	2400	2524
SF RPM	-	
RA CFM	1880	
OA CFM	520	
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	-	
Frame	-	NL
Horsepower	2.75	3.0
Motor Rpm	-	1850
Phase	3	3
Rated Voltage	480	460
Rated Amperage	-	4.6

Performance Data		
	Design	**Actual**
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.75"	
Fan Total SP	-	

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	DD
Motor Bore Size	-	DD
Motor Sheave SetPt	-	DD
Fan Sheave Size	-	DD
Fan Sheave Bore	-	DD
Belt CL Distance	-	DD
Num of Belts	-	DD
Belt Size	-	DD
Belt Alignment	-	DD

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

National TAB

Project:02-05-24 PERRY'S - VERNON HILLS, IL

AHU/RTU

Diffuser Supply (GRD)

RTU7/PRIVATE DINING III

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
RTU7-SGRD1	PRIVATE DINING III	PSD-1	8"	175	1.0	188	166	161	92.0
RTU7-SGRD2	PRIVATE DINING III	PSD-1	8"	175	1.0	249	184	172	98.3
RTU7-SGRD3	PRIVATE DINING III	PSD-1	8"	175	1.0	244	167	161	92.0
RTU7-SGRD4	PRIVATE DINING III	PSD-2	8"	100	1.0	218	178	116	116.0
RTU7-SGRD5	PRIVATE DINING III	PSD-1	8"	175	1.0	275	197	193	110.3
RTU7-SGRD6	PRIVATE DINING III	PSD-1	8"	175	1.0	223	179	198	113.1
RTU7-SGRD7	PRIVATE DINING III	PSD-1	8"	175	1.0	230	233	201	114.9
RTU7-SGRD8	PRIVATE DINING III	SD-1	6"	50	1.0	132	116	54	108.0
RTU7-SGRD9	PRIVATE DINING III	PSD-1	8"	175	1.0	274	190	193	110.3
RTU7-SGRD10	PRIVATE DINING III	PSD-1	8"	175	1.0	218	144	154	88.0
RTU7-SGRD11	PRIVATE DINING III	PSD-1	8"	175	1.0	229	197	185	105.7
RTU7-SGRD12	PRIVATE DINING III	PSD-2	8"	75	1.0	166	130	98	130.7
RTU7-SGRD13	PRIVATE DINING III	PSD-1	8"	175	1.0	208	180	184	105.1
RTU7-SGRD14	PRIVATE DINING III	PSD-1	8"	175	1.0	167	154	178	101.7
RTU7-SGRD15	PRIVATE DINING III	PSD-1	8"	175	1.0	184	179	184	105.1
RTU7-SGRD16	PRIVATE DINING III	PSD-2	8"	75	1.0	112	103	92	122.7
Total				2400		3317	2697	2524	105.17%

Completed By: Michael McDonnell on 02/07/2024

National TAB

Project: 02-05-24 PERRY'S - VERNON HILLS, IL

System/Unit: AHU/RTU

Asset: RTU8 AREA:MAIN DINING II

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	234410704L
Model Num	YHC120	YSJ120
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	37.5X24
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	3200	
SF RPM	-	
RA CFM	2160	
OA CFM	1040	
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	-	
Frame	-	NL
Horsepower	2.75	3.0
Motor Rpm	-	
Phase	3	3
Rated Voltage	480	460
Rated Amperage	-	4.6

Performance Data		
	Design	**Actual**
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.75	
Fan Total SP	-	

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	DD
Motor Bore Size	-	DD
Motor Sheave SetPt	-	
Fan Sheave Size	-	DD
Fan Sheave Bore	-	DD
Belt CL Distance	-	DD
Num of Belts	-	DD
Belt Size	-	DD
Belt Alignment	-	DD

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

Diffuser Supply (GRD)

RTU8/MAIN DINING II

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
RTU8-SGRD1	MAIN DINING II	PSD-1	8"	200					-
RTU8-SGRD2	MAIN DINING II	PSD-1	8"	200					-
RTU8-SGRD3	MAIN DINING II	PSD-1	8"	200					-
RTU8-SGRD4	MAIN DINING II	PSD-1	8"	200					-
RTU8-SGRD5	MAIN DINING II	PSD-1	8"	200					-
RTU8-SGRD6	MAIN DINING II	PSD-2	8"	100					-
RTU8-SGRD7	MAIN DINING II	PSD-1	8"	130					-
RTU8-SGRD8	MAIN DINING II	PSD-1	8"	130					-
RTU8-SGRD9	MAIN DINING II	PSD-1	8"	170					-
RTU8-SGRD10	MAIN DINING II	PSD-1	8"	170					-
RTU8-SGRD11	MAIN DINING II	PSD-2	8"	100					-
RTU8-SGRD12	MAIN DINING II	PSD-1	8"	200					-
RTU8-SGRD13	MAIN DINING II	PSD-1	8"	200					-
RTU8-SGRD14	MAIN DINING II	PSD-1	8"	200					-
RTU8-SGRD15	MAIN DINING II	PSD-1	8"	200					-
RTU8-SGRD16	MAIN DINING II	PSD-1	8"	200					-
RTU8-SGRD17	MAIN DINING II	PSD-1	8"	200					-
RTU8-SGRD18	MAIN DINING II	PSD-1	8"	200					-
Total				3200		0	0	0	0%

National TAB

Project: 02-05-24 PERRY'S - VERNON HILLS, IL

System/Unit: AHU/RTU

Asset: RTU9 AREA:MAIN DINING I

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	
Model Num	YHD150	YSJ150
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	37.5X24
OA Filter Size 1	-	3
Num Final Filter 1	-	3
Final Filter Size 1	-	18X24X2
Num Final Filter 2	-	3
Final Filter Size 2	-	18X18X2

Test Data		
	Design	**Actual**
SF CFM	4000	
SF RPM	-	
RA CFM	3160	
OA CFM	840	
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	-	
Frame	-	NL
Horsepower	3.00	5.0
Motor Rpm	-	
Phase	3	3
Rated Voltage	480	460
Rated Amperage	-	5.5

Performance Data		
	Design	**Actual**
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.75"	
Fan Total SP	-	

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	DD
Motor Bore Size	-	DD
Motor Sheave SetPt	-	
Fan Sheave Size	-	DD
Fan Sheave Bore	-	DD
Belt CL Distance	-	DD
Num of Belts	-	DD
Belt Size	-	DD
Belt Alignment	-	DD

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

National TAB

Project:02-05-24 PERRY'S - VERNON HILLS, IL

AHU/RTU

Diffuser Supply (GRD)

RTU9/MAIN DINING I

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
RTU9-SGRD1	MAIN DINING I	PSD-1	8"	180	1.0	201			-
RTU9-SGRD2	MAIN DINING I	PSD-1	8"	180	1.0	185			-
RTU9-SGRD3	MAIN DINING I	PSD-1	8"	180	1.0	211			-
RTU9-SGRD4	MAIN DINING I	PSD-1	8"	200	1.0	261			-
RTU9-SGRD5	MAIN DINING I	PSD-2	6"	85	1.0	54			-
RTU9-SGRD6	MAIN DINING I	PSD-1	8"	180	1.0	103			-
RTU9-SGRD7	MAIN DINING I	PSD-1	8"	180	1.0	231			-
RTU9-SGRD8	MAIN DINING I	PSD-1	8"	180	1.0	157			-
RTU9-SGRD9	MAIN DINING I	PSD-1	8"	180	1.0	266			-
RTU9-SGRD10	MAIN DINING I	PSD-1	8"	180	1.0	138			-
RTU9-SGRD11	MAIN DINING I	PSD-1	8"	180	1.0	154			-
RTU9-SGRD12	MAIN DINING I	PSD-1	8"	180	1.0	172			-
RTU9-SGRD13	MAIN DINING I	PSD-1	8"	180	1.0	130			-
RTU9-SGRD14	MAIN DINING I	PSD-1	8"	180	1.0	316			-
RTU9-SGRD15	MAIN DINING I	PSD-1	8"	180	1.0	245			-
RTU9-SGRD16	MAIN DINING I	PSD-1	8"	180	1.0	167			-
RTU9-SGRD17	MAIN DINING I	PSD-1	8"	180	1.0	199			-
RTU9-SGRD18	MAIN DINING I	PSD-1	8"	180	1.0	174			-
RTU9-SGRD19	MAIN DINING I	PSD-1	8"	180	1.0	159			-
RTU9-SGRD20	MAIN DINING I	PSD-2	8"	115	1.0	56			-
RTU9-SGRD21	MAIN DINING I	PSD-1	8"	180	1.0	167			-
RTU9-SGRD22	MAIN DINING I	PSD-1	8"	180	1.0	112			-
RTU9-SGRD23	MAIN DINING I	PSD-1	8"	180	1.0	162			-
Total				4000		4020	0	0	0%

National TAB

Project: 02-05-24 PERRY'S - VERNON HILLS, IL

System/Unit: AHU/RTU

Asset: RTU10 AREA:ROOM 79

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	234412034L
Model Num	YHC092	YSJ090A
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	37.5X24
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	2400	2505
SF RPM	-	
RA CFM	2185	
OA CFM	215	
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	-	
Frame	-	NL
Horsepower	1.00	3.0
Motor Rpm	-	
Phase	3	3
Rated Voltage	480	460
Rated Amperage	-	4.6

Performance Data		
	Design	**Actual**
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.75"	
Fan Total SP	-	

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	DD
Motor Bore Size	-	DD
Motor Sheave SetPt	-	
Fan Sheave Size	-	DD
Fan Sheave Bore	-	DD
Belt CL Distance	-	DD
Num of Belts	-	DD
Belt Size	-	DD
Belt Alignment	-	DD

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

Notes:
090 SINGLE COMPRESSOR, PLANS CALL FOR 092= 7.5 TON, DUAL COMPRESSOR.

Written By: Michael McDonnell on 02/05/2024

National TAB

Project:02-05-24 PERRY'S - VERNON HILLS, IL

AHU/RTU

Diffuser Supply (GRD)

RTU10/ROOM 79

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
RTU10-SGRD1	ROOM 79	PSD-1	8"	190	1.0	281	199	208	109.5
RTU10-SGRD2	ROOM 79	PSD-1	8"	190	1.0	262	250	214	112.6
RTU10-SGRD3	ROOM 79	PSD-1	8"	205	1.0	271	195	200	97.6
RTU10-SGRD4	ROOM 79	PSD-1	8"	205	1.0	249	209	219	106.8
RTU10-SGRD5	ROOM 79	PSD-1	8"	205	1.0	211	210	221	107.8
RTU10-SGRD6	ROOM 79	PSD-1	8"	205	1.0	279	187	218	106.3
RTU10-SGRD7	ROOM 79	PSD-1	8"	205	1.0	313	178	203	99.0
RTU10-SGRD8	ROOM 79	PSD-1	8"	205	1.0	426	248	214	104.4
RTU10-SGRD9	ROOM 79	PSD-1	8"	205	1.0	340	214	226	110.2
RTU10-SGRD10	ROOM 79	PSD-1	8"	205	1.0	187	271	214	104.4
RTU10-SGRD11	ROOM 79	PSD-1	8"	190	1.0	300	239	194	102.1
RTU10-SGRD12	ROOM 79	PSD-1	8"	190	1.0	204	130	174	91.6
Total				2400		3323	2530	2505	104.38%

Completed By: Michael McDonnell on 02/07/2024

National TAB

Project: 02-05-24 PERRY'S - VERNON HILLS, IL

System/Unit: AHU/RTU

Asset: RTU13 AREA:BAR

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	234411963L
Model Num	YHC102	YSJ090
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	37.5X24
Num Final Filter 1	-	3
Final Filter Size 1	-	16X24X2
Num Final Filter 2	-	3
Final Filter Size 2	-	18X24X2

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	NL
Horsepower	2.00	3.0
Motor Rpm	-	1850
Phase	3	3
Rated Voltage	480	460
Rated Amperage	-	4.6

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	DD
Motor Bore Size	-	DD
Motor Sheave SetPt	-	
Fan Sheave Size	-	DD
Fan Sheave Bore	-	DD
Belt CL Distance	-	DD
Num of Belts	-	DD
Belt Size	-	DD
Belt Alignment	-	DD

Test Data		
	Design	**Actual**
SF CFM	2720	
SF RPM	-	
RA CFM	2260	
OA CFM	480	
RL Voltage	-	
RL Amperage	-	2.3
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	0.75"	
Fan Total SP	-	

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

National TAB

Project:02-05-24 PERRY'S - VERNON HILLS, IL

AHU/RTU

Diffuser Supply (GRD)

RTU13/BAR

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
RTU13-SGRD1	BAR	PSD-1	8"	165	1.0	282			-
RTU13-SGRD2	BAR	PSD-1	8"	165	1.0	293			-
RTU13-SGRD3	BAR	PSD-1	8"	165	1.0	253			-
RTU13-SGRD4	BAR	PSD-4	8"	150	1.0	0			-
RTU13-SGRD5	BAR	PSD-1	8"	200	1.0	154			-
RTU13-SGRD6	BAR	PSD-1	8"	200	1.0	157			-
RTU13-SGRD7	BAR	PSD-1	8"	200	1.0	236			-
RTU13-SGRD8	BAR	PSD-1	8"	200	1.0	178			-
RTU13-SGRD9	BAR	PSD-1	8"	200	1.0	200			-
RTU13-SGRD10	BAR	PSD-1	8"	200	1.0	101			-
RTU13-SGRD11	BAR	PSD-1	8"	200	1.0	135			-
RTU13-SGRD12	BAR	PSD-1	8"	160	1.0	172			-
RTU13-SGRD13	BAR	PSD-1	8"	170	1.0	198			-
RTU13-SGRD14	BAR	PSD-1	8"	170	1.0	153			-
RTU13-SGRD15	BAR	PSD-1	8"	170	1.0	221			-
Total				2715		2733	0	0	0%

National TAB

Project: 02-05-24 PERRY'S - VERNON HILLS, IL

System/Unit: FAN - Exhaust

Asset: EF2 AREA:DISHWASHER

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU33HFA	DU33HFA
Serial Num	-	5539822
Type	UPBLASTE	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TELCO GREEN
Horsepower	0.33	1/3
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	4.3
Service Factor	-	NL

Test Data		
	Design	**Actual**
CFM	600	608
Fan RPM	1227	1340
Fan Rotation	-	CCW, CORRECT
Motor RPM	-	1340
System SetPt	-	65%
RL Voltage	-	120
RL Amperage	-	1.4
Total ESP	0.4"	0.48"
Fan Inlet SP	-	-0.48"
Fan Discharge SP	-	ATM

Completed By: Michael McDonnell on 02/15/2024

National TAB

Project: 02-05-24 PERRY'S - VERNON HILLS, IL

System/Unit: FAN - Exhaust

Asset: EF3 AREA:MOP

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DR10HFA	DR10HFA
Serial Num	-	5539822
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TELCO GREEN
Frame	-	NL
Horsepower	0.17	1/6
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	1.9

Test Data		
	Design	**Actual**
CFM	100	107
Fan RPM	1124	1123
Fan Rotation	-	CCW
Motor RPM	-	1123
System SetPt	-	59P
RL Voltage	-	118
RL Amperage	-	1.6
Total ESP	0.3"	0.11"
Fan Inlet SP	-	-0.11"
Fan Discharge SP	-	ATM

Completed By: Michael McDonnell on 02/12/2024

National TAB

Project: 02-05-24 PERRY'S - VERNON HILLS, IL

System/Unit: FAN - Exhaust

Asset: EF4 AREA:TOILET

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DR10HFA	DR10HFA
Serial Num	-	5539822
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TELCO GREEN
Horsepower	0.17"	1/6
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	1.9

Test Data		
	Design	**Actual**
CFM	75	78
Fan RPM	1087	1094
Fan Rotation	-	CCW
Motor RPM	-	1094
System SetPt	-	58P
RL Voltage	-	118
RL Amperage	-	1.6
Total ESP	0.3"	0.16"
Fan Inlet SP	-	-0.16"
Fan Discharge SP	-	ATM

Completed By: Michael McDonnell on 02/12/2024

National TAB

Project: 02-05-24 PERRY'S - VERNON HILLS, IL

System/Unit: FAN - Exhaust

Asset: EF5 AREA:SMOKER

Unit Data		
	Design	**Actual**
MFG	ENERVEX	ENERVEX
Model Num	GSV014	GSV014
Serial Num	-	1210016
Type	DOWNBLAST	FLUE
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Horsepower	0.25	NL
Motor Rpm	-	1600
Phase	1	1
Voltage (rated)	120	120
Amperage (rated)	-	NL

Test Data		
	Design	**Actual**
CFM	1000	1343
Fan RPM	-	1600
Fan Rotation	-	CORRECT
Motor RPM	-	1600
System SetPt	-	SINGLE SPEED
RL Voltage	-	NA
RL Amperage	-	NA
Total ESP	0.5"	NR
Fan Inlet SP	-	NR
Fan Discharge SP	-	ATM

Completed By: Michael McDonnell on 02/15/2024

National TAB

Project: 02-05-24 PERRY'S - VERNON HILLS, IL

System/Unit: FAN - Exhaust

Asset: KEF1 AREA:EXH-L

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU85HFA	DU85HFA
Serial Num	-	5539822
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TELCO GREEN
Horsepower	0.750	0.75
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	5.2

Test Data		
	Design	**Actual**
CFM	1311	1315
Fan RPM	-	1080
Fan Rotation	-	CCW, CORRECT
Motor RPM	-	1080
System SetPt	-	60%
RL Voltage	-	210
RL Amperage	-	1.8
Total ESP	1.500"	0.61"
Fan Inlet SP	-	-0.61"
Fan Discharge SP	-	ATM

Completed By: Michael McDonnell on 02/15/2024

National TAB

Project: 02-05-24 PERRY'S - VERNON HILLS, IL

System/Unit: FAN - Exhaust

Asset: KEF2 AREA:EXH-M

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU85HFA	DU85HFA
Serial Num	-	5539822
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TELCO GREEN
Horsepower	1.000	1.0
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	208	208
Amperage (rated)	-	6.9

Test Data		
	Design	**Actual**
CFM	2288	2271
Fan RPM	-	1494
Fan Rotation	-	CCW, CORRECT
Motor RPM	-	1494
System SetPt	-	83%
RL Voltage	-	209
RL Amperage	-	1.8
Total ESP	1.200"	0.91"
Fan Inlet SP	-	-0.91"
Fan Discharge SP	-	ATM

Completed By: Michael McDonnell on 02/15/2024

National TAB

Project: 02-05-24 PERRY'S - VERNON HILLS, IL

System/Unit: FAN - Exhaust

Asset: KEF3 AREA:EXH-R

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU85HFA	DU85HFA
Serial Num	-	5539822
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TELCO GREEN
Horsepower	0.75	0.75
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	208	208
Amperage (rated)	-	5.2

Test Data		
	Design	**Actual**
CFM	1808	1835
Fan RPM	-	1224
Fan Rotation	-	CCW, CORRECT
Motor RPM	-	1224
System SetPt	-	68%
RL Voltage	-	211
RL Amperage	-	2.2
Total ESP	1.300"	0.56"
Fan Inlet SP	-	-0.56"
Fan Discharge SP	-	ATM

Completed By: Michael McDonnell on 02/15/2024

Notes:
LABELED KEF-1 ON ROOF

Written By: Michael McDonnell on 02/15/2024

National TAB

Project: 02-05-24 PERRY'S - VERNON HILLS, IL

System/Unit: FAN - Exhaust

Asset: KEF4 AREA:PREP

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU180HFA	DU180HFA
Serial Num	-	5539822
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TELCO GREEN
Frame	-	184T
Horsepower	2.000	2.0
Motor Rpm	-	1165
Phase	3	3
Voltage (rated)	208	230
Amperage (rated)	-	7.51
Service Factor	-	1.15

Test Data		
	Design	**Actual**
CFM	1800	1864
Fan RPM	-	922
Fan Rotation	-	CCW, CORRECT
Motor RPM	-	922
System SetPt	-	47.5 HZ
RL Voltage	-	89 @VFD
RL Amperage	-	4.9
Total ESP	1.900"	0.73"
Fan Inlet SP	-	-0.73"
Fan Discharge SP	-	ATM

Completed By: Michael McDonnell on 02/15/2024

National TAB

Project: 02-05-24 PERRY'S - VERNON HILLS, IL

System/Unit: FAN - Exhaust

Asset: EF1 AREA:RR

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DR33HFA	DR33HFA
Serial Num	-	5539822
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TELCO-GREEN
Frame	-	NL
Horsepower	0.33	0.33
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	4.3
Service Factor	-	1.15

Test Data		
	Design	**Actual**
CFM	600	551
Fan RPM	1227	1240
Fan Rotation	-	CCW
Motor RPM	-	1240
System SetPt	-	62P
RL Voltage	-	119
RL Amperage	-	3.7
Total ESP	0.4"	0.20"
Fan Inlet SP	-	-0.20"
Fan Discharge SP	-	ATM

Completed By: Michael McDonnell on 02/12/2024

Notes:
1. 80
2. 83
3. 84
4. 76
5. 78
6. 73
7. 77

Written By: Michael McDonnell on 02/12/2024

National TAB

Project:02-05-24 PERRY'S - VERNON HILLS, IL

FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF1/RR

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EF1-EGRD1	RR	LSD-2	6"	75	1.0	80	80	80	106.7
EF1-EGRD2	RR	LSD-2	6"	75	1.0	82	82	82	109.3
EF1-EGRD3	RR	LSD-2	6"	75	1.0	82	82	82	109.3
EF1-EGRD4	RR	LSD-2	6"	75	1.0	76	76	76	101.3
EF1-EGRD5	RR	LSD-2	6"	75	1.0	78	78	78	104.0
EF1-EGRD6	RR	LSD-2	6"	75	1.0	76	76	76	101.3
EF1-EGRD7	RR	LSD-2	6"	75	1.0	77	77	77	102.7
Total				525		551	551	551	104.95%

Completed By: Michael McDonnell on 02/12/2024

National TAB

Project: 02-05-24 PERRY'S - VERNON HILLS, IL

System/Unit: FAN - Supply

Asset: MAU1 AREA:HOOD 1-3

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	CASRTU3-I.400-18-20T	CASRTU3-I.400-18-20T
Serial Num	-	5539822
Type	MUA	MUA
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TECO WESTINGHOUSE
Frame	-	184T
Horsepower	2.000	2.0
Motor Rpm	-	1165
Phase	3	3
Voltage (rated)	460	460
Amperage (rated)	-	3.76
Service Factor	-	1.15

Gas Heat		
	Design	**Actual**
Heater Operates (y/n)	-	YES
Flame Status (pass/fail)	-	PASS

Test Data		
	Design	**Actual**
CFM	3000	2993
SF RPM	-	1146
Motor RPM	-	1146
SF System SetPt	-	59.5 HZ
RL Voltage	-	346 V @ VFD
RL Amperage	-	2.7 @ VFD
Total ESP	-	
Fan Discharge SP	-	

General		
	Design	**Actual**
Fan Rotation Correct	-	YES, CORRECT

National TAB

Project: 02-05-24 PERRY'S - VERNON HILLS, IL

System/Unit: Kitchen Hood Type I

Asset: HD1 AREA:EXH-L

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	6030 ND-2-PSP-F	6030 ND-2-PSP-F
Job / Serial Num	-	5539822
Type	TYPE 1 CANOPY	TYPE I CANOPY
Hood length	69"	69"
Hood Width	60"	60"
Supply Plenum Type	-	ACPSP
Supply Plenum Width	9"	9"
Supply Plenum Length	70"	70"

Test Data Exhaust		
	Design	**Actual**
Filter Type	CAPTRATE SOLO FILTER	CAPTRATE SOLO
Filter Size 1	20X16	20X16
Filter Qty 1	4	4
Filter AK factor size 1	2.08	2.08
Filter Total AK Area	8.32	8.32
Filter1 FPM	-	158
Filter2 FPM	-	162
Filter3 FPM	-	165
Filter4 FPM	-	150
Filter Ave FPM(corr)	-	158
CFM	1311	1315

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

Test Data Supply		
	Design	**Actual**
Total AK Area	4.375	4.375
Kv factor (Vel)	0.81	0.81
Num of Readings	-	4
Reading1 FPM	-	139
Reading2 FPM	-	132
Reading3 FPM	-	156
Reading4 FPM	-	173
Ave FPM(corr)	-	121.5
CFM	564	532

Completed By: Michael McDonnell on 02/12/2024

National TAB

Project: 02-05-24 PERRY'S - VERNON HILLS, IL

System/Unit: Kitchen Hood Type I

Asset: HD2 AREA:EXH-M

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	6030 ND-2-PSP-F	6030 ND-2-PSP-F
Job / Serial Num	-	5539822
Type	TYPE 1 CANOPY	TYPE I CANOPY
Hood length	120"	120"
Hood Width	60"	60"
Supply Plenum Type	-	PSP
Supply Plenum Width	9"	9"
Supply Plenum Length	120*	120"

Test Data Exhaust		
	Design	**Actual**
Filter Type	CAPTRATE SOLO FILTER	CAPTRATE SOLO
Filter Size 1	20X16	20X16
Filter Qty 1	7	7
Filter AK factor size 1	2.08	2.08
Filter Total AK Area	14.56	14.56
Filter1 FPM	-	148
Filter2 FPM	-	160
Filter3 FPM	-	167
Filter4 FPM	-	165
Filter5 FPM	-	156
Filter6 FPM	-	149
Filter7 FPM	-	148
Filter Ave FPM(corr)	-	156
CFM	2250	2271

Cooking Equipment		
	Design	**Actual**
Item 1	-	BROILER
Item 2	-	RANGE/OVEN
Item 3	-	STOVE

Test Data Supply		
	Design	**Actual**
Total AK Area	7.5	7.5
Kv factor (Vel)	0.81	0.81
Num of Readings	-	6
Reading1 FPM	-	179
Reading2 FPM	-	170
Reading3 FPM	-	167
Reading4 FPM	-	169
Reading5 FPM	-	173
Reading6 FPM	-	172
Ave FPM(corr)	-	139.053
CFM	990	1043

Completed By: Michael McDonnell on 02/12/2024

National TAB

Project: 02-05-24 PERRY'S - VERNON HILLS, IL

System/Unit: Kitchen Hood Type I

Asset: HD3 AREA:EXH-R

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	6030 ND-2-PSP-F	6030 ND-2-PSP-F
Job / Serial Num	-	5539822
Type	TYPE 1 CANOPY	TYPE I CANOPY
Hood length	124"	124"
Hood Width	60"	60"
Supply Plenum Type	-	PSP
Supply Plenum Width	9"	9"
Supply Plenum Length	136"	136"

Test Data Exhaust		
	Design	**Actual**
Filter Type	CAPTRATE SOLO FILTER	CAPTRATE SOLO
Filter Size 1	20X16	20X16
Filter Qty 1	7	7
Filter AK factor size 1	2.08	2.08
Filter Total AK Area	14.56	14.56
Filter1 FPM	-	116
Filter2 FPM	-	113
Filter3 FPM	-	141
Filter4 FPM	-	133
Filter5 FPM	-	127
Filter6 FPM	-	134
Filter7 FPM	-	121
Filter Ave FPM(corr)	-	126
CFM	1808	1835

Cooking Equipment		
	Design	**Actual**
Item 1	-	BROILER
Item 2	-	FRYER
Item 3	-	FRYER

Test Data Supply		
	Design	**Actual**
Total AK Area	8.5	8.5
Kv factor (Vel)	0.81	0.81
Num of Readings	-	6
Reading1 FPM	-	178
Reading2 FPM	-	150
Reading3 FPM	-	150
Reading4 FPM	-	158
Reading5 FPM	-	155
Reading6 FPM	-	162
Ave FPM(corr)	-	128.65
CFM	1139	1094

Completed By: Michael McDonnell on 02/12/2024

National TAB

Project: 02-05-24 PERRY'S - VERNON HILLS, IL

System/Unit: Kitchen Hood Type I

Asset: HD4 AREA:PREP

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	6030 ND-2	6030 ND-2
Job / Serial Num	-	5539822
Type	TYPE 1 CANOPY	TYPE I CANOPY
Hood length	142"	138"
Hood Width	60"	60"

Test Data Exhaust		
	Design	**Actual**
Filter Type	CAPTRATE SOLO FILTER	CAPTRATE SOLO
Filter Size 1	20X16	20X16
Filter Qty 1	8	8
Filter AK factor size 1	2.08	2.08
Filter Total AK Area	16.64	16.64
Filter1 FPM	-	110
Filter2 FPM	-	110
Filter3 FPM	-	111
Filter4 FPM	-	122
Filter5 FPM	-	121
Filter6 FPM	-	117
Filter7 FPM	-	108
Filter8 FPM	-	103
Filter Ave FPM(corr)	-	112
CFM	1800	1864

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

Completed By: Michael McDonnell on 02/12/2024