Report By:

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

Report: (PHASE I)

Function: Test, Adjust, & Balance

Date: 06/27/2024

PROJECT

06-24-24 DOMINICKS SCOTTSDALE, AZ

15169 N Scottsdale Rd

Scottsdale, AZ 85254

Client

Prime Steak Concepts

National TAB

Project: 06-24-24 DOMINICKS SCOTTSDALE, AZ

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Summary – Phase I

The Purpose of the visit to Dominick's Steakhouse in Scottsdale, AZ was to balance two replacement WSHP's located in the kitchen space as well as investigate / address comfort issues in the office and 2nd floor pool area. During this initial visit we were able to take preliminary airflow measurements of the HVAC, exhaust, and kitchen ventilation systems. Mechanical Drawings were provided, but significant deviations exist between the plans and actual system installation. After the summary, contents of the report include pictures, asset pages with test data, and then the marked-up floor plan. Specific notes are in the tables below for each unit regarding the condition of the equipment. The general notes below pertain to overall condition or status of the HVAC System. The issue section describes areas of specific concern in more detail.

Contact Will Turnbough w/ National TAB for any further questions: will@nationaltab.com 314-954-6244

General Notes

1. Significant deviations from provided mechanical plans including: additional WSHPs installed, exhaust fans and MUA not installed, location of ductwork and routing, additional 2nd floor pool room and associated HVAC.
2. All WSHP/RTUs are operating in Fan Auto and managed by controls company (AZ Control Specialists). Typically, supply fans run continuously during occupied hours (when hood exhaust is operational) to maintain building pressurization.
3. Kitchen Exhaust Hoods (HD-1 and HD-2) are not controlled by Hood Switch. Respective fans (KEF-1 and MAU) appear to run 24/7, only controlled by roof disconnect.
4. Dishwasher exhaust (HD-3) and its respective fan is not operating. The fan is functional but has no controls in the space below and can only be operated by roof disconnect.
5. Return Grills Serving WSHPs and RTUS were found dirty, recommend they are cleaned.
6. Access to interior WSHPs is very limited. On those ducted for Outside air, the manual OA damper is not, or not easily, accessible.
7. Several multispeed WSHPs are low on airflow; ductwork and units themselves not easily accessible. We were unable to verify filter condition or speed setpoint on several of these units.
8. WSHP-1 and WSHP-2 returns are all centrally located creating a significant draft to their location (beverage preparation area-Liquor Storage) when they are operational.
9. The Wine room is served by several units. Due to limited access, unable to determine exact routing of installed WSHP / Chillers. Per controls company / facilities tech, there is a red wine chiller, white wine chiller, and a large and a small WSHP. It only appeared one WSHP (WSHP-5) was ducted to the supply diffusers in dining space. Other units appeared ducted into wine chiller racks.
10. Un-ducted WSHP installed above walk-in cooler in liquor storage. Unit has power but was not observed to be operating and was not listed as visible by controls company.

Unit Specific Notes:

***WSHPs and RTUS should typically perform at 350-400 cfm/ton for performance and efficiency.

RTUs /WSHPs

Unit	Area Served	Tons	CFM/Ton	Notes
WSHP-1	UPPER DINING	20	268	Located on Roof, coil / blower wheel in need of cleaning. Manual OA inlet fully closed. Dining room diffusers feed wall plenum-see issue.
WSHP-2	BAR	20	334	Located on Roof, coil / blower wheel in need of cleaning. Manual OA inlet fully closed.
WSHP-3	2nd Floor Private Dining	3	458	Located in neighboring tenant space. Return pulls from ceiling plenum in that space.
WSHP-4	Front kitchen	5	365	Return Filter found clogged initially. Not Listed on original plans.
WSHP-5	Wine Room	3	480	Very limited access, unclear on exact duct routing as wine chillers are also mounted above this space. Possibly Served by second WSHP. Controls company listed Small and Large Wine units, only one appeared ducted to diffusers in space.
WSHP-6	South Dining	3	407	Not listed on original plans.
WSHP-7	Private Dining	3	266	
WSHP-8	Lobby / RR	5	320	
WSHP-9	Rear Kitchen	5	339	Missing Electrical Panel Cover / Unit Label
WSHP-10	South Dining Host Wall	?	831 total cfm	Unable to access unit to determine model / tonnage. Not listed on original Plans.
RTU-1	Stairwell	3	385	Return Filters found dirty, removed for testing. Recommend replacement.
RTU-2	Pool South	5	462	Cooling not operational at time of Visit. Service company called. Discharges through 3 grilles, air not distributed.
RTU-3	Pool North	5	454	Discharges through 3 grilles, air not distributed.

Exhaust Fans / MAU

Unit	Area Served	CFM	Notes
KEF-1	HD-1 and HD-2	7,214	No control in space. Fan appears to operate 24/7. Only Roof disconnect controls operation.

KEF-2	HD-3	1026	Not operating. No controls in space. Only Roof Disconnect controls. Powered on to measure, left off at disconnect.
Common Building Exhaust	Restrooms / Beverage Area	0	Fan does not appear operational. Recommend consulting Building management.
MAU	HD-1 and HD-2	4617	No Control in space. Fan appears to operate 24/7. Roof Disconnect controls operation.

Specific Areas of Concern:

1. Office Space:

The manager's office is located at the top of a stairwell located in the rear of the kitchen. The space is fully enclosed in hard ceiling and walls. There are no pass-throughs or ventilation save two small supply grilles ducted from WSHP-4, which serves the kitchen space diagonally below. These grilles supply 401 cfm to the office space. A portable AC unit is also installed in the office and is exhausting its heat into the ceiling plenum of the kitchen below. The stereo system and other computers / electronics systems located in the office generate a significant amount of heat. Adding a transfer fan, or ducting returns to this office (if possible), could help alleviate some of the comfort issues it experiences. As is, the heat in the office has nowhere to go. The portable AC unit is only moving heat from the office, into the kitchen space, which is then being supplied back into the office through WSHP-4.

2. **Pool Room:**

The pool dining room / bar was not listed on the original plans. This space struggles to achieve a comfortable temperature during hot days and is sometimes closed for dining on particularly hot days. The space has a shallow reflecting pool positioned in the center of the room as well as a removable roof. It does not appear insulated or sealed sufficiently from the exterior environment. Two 5-ton Carrier RTUs serve the space through 3 grilles each, discharging from a supply drop box at one end of the pool. There are also numerous split systems mounted on the walls. A rear dining room on the pool level is served by WSHP-3, which is located in, and pulls air from, the neighboring tenant's space. This unit appears to be operating sufficiently. The two carrier RTUS were found to be high on airflow, operating at or above 450 cfm/ton. We recommend these units are slowed to sufficiently cool the air. The South Pool RTU (RTU-2) was not operating cooling during our visit and a service call was made.

Next Steps:

Due to the complexity of the issues to be addressed at this Restaurant, we recommend a meeting to go over this Report in more detail. This discussion will provide the best plan to move forward toward a more comfortable and efficient HVAC system. This will also allow us to more specifically address items of concern and desired outcomes.

Issue List

- General Exhaust: Not Operational
- KEF-1: Controls - Always Operational
- KEF-2 Dish Exhaust: Controls - Not Operational
- Office Comfort: Portable AC Unit
- RTU-1: Power Conduit Damaged
- RTU-2 & 3: Economizer Not Functional
- RTU-2: Cooling Not Operational
- RTU-3: Pool RTU Fan Pulley Cracked
- Wine Chiller: Condensate on Glass Chiller room Wall.
- WSHP-1: Dining Diffusers Supply Wall Plenum
- WSHP-4: Kitchen- Return Filter found Clogged
- WSHP-9: Electrical Compartment Cover Missing

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Project Issue Information

Issue Name :	General Exhaust: Not Operational		
Description :	Restroom exhaust and common building exhaust is not operational. Per facility tech, the general exhaust is served by a common building fan. No airflow was measured at any exhaust grilles during our visit. Recommend contacting appropriate building management to verify fan is operational.		
Created By :	National TAB	**Assigned To :**	National TAB - Michael McDonnell
Status :	Open		
Priority :	Medium	**Asset Tag :**	
Originated Date :	07/26/2024 - Michael McDonnell - National TAB		

06-24-24 DOMINICKS SCOTTSDALE, AZ

Project Issue Information

Issue Name : KEF-1: Controls - Always Operational

Description : Hood controls in kitchen space do not control KEF-1. Kitchen exhaust hoods appear to run 24/7. This is unnecessarily exhausting treated air from space when cooling is not occurring. Only roof disconnect powers off fan. Recommend controls are inspected/corrected.

Created By : National TAB

Assigned To : National TAB - Michael McDonnell

Status : Open

Priority : High

Asset Tag :

Originated Date : 07/25/2024 - Michael McDonnell - National TAB

Project Issue File Details

07/25/2024

07/26/2024

06-24-24 DOMINICKS SCOTTSDALE, AZ

Project Issue Information

Issue Name : KEF-2 Dish Exhaust: Controls - Not Operational

Description : HD-3, Dishwasher hood, is served by KEF-2. Fan is functional but is not operating. Hood Switch does not control fan. Left off at roof, recommend controls installed.

Created By : National TAB

Assigned To : National TAB - Michael McDonnell

Status : Open

Priority : Medium

Asset Tag :

Originated Date : 07/25/2024 - Michael McDonnell - National TAB

Project Issue File Details

07/25/2024

07/25/2024

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Project Issue Information

Issue Name : Office Comfort: Portable AC Unit

Description : Managers office running portable AC unit due to hot conditions in the office. Portable AC unit is exhausting hot air into kitchen space below.

Created By : National TAB

Assigned To : National TAB - Michael McDonnell

Status : Open

Priority : InfoOnly

Asset Tag :

Originated Date : 07/26/2024 - Michael McDonnell - National TAB

Project Issue File Details

07/26/2024

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Project Issue Information

Issue Name : RTU-1: Power Conduit Damaged

Description : Power conduit running from the roof to RTU-1 is damaged and wiring is exposed to the elements. Recommend conduit is repaired.

Created By : National TAB

Assigned To : National TAB - Michael McDonnell

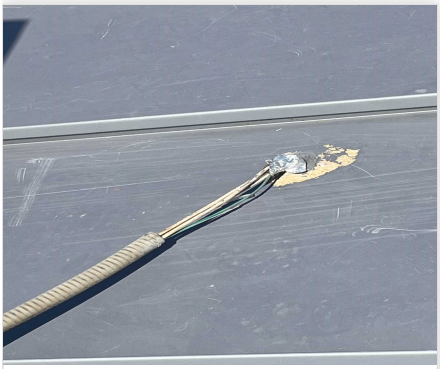
Status : Open

Priority : Medium

Asset Tag :

Originated Date : 07/25/2024 - Michael McDonnell - National TAB

Project Issue File Details



07/25/2024

07/25/2024

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Project Issue Information

Issue Name : RTU-2 & 3: Economizer Not Functional

Description : Economizers do not appear functional on RTUs serving pool dining (2&3).

Created By : National TAB

Assigned To : National TAB - Brianna Biggs

Status : Open

Priority : Medium

Asset Tag :

Originated Date : 07/26/2024 - Michael McDonnell - National TAB

Project Issue File Details

07/26/2024

07/26/2024

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Project Issue Information

Issue Name : RTU-2: Cooling Not Operational

Description : Cooling not Operational at time of visit. Service call was made and technician on site at conclusion of visit.

Created By : National TAB

Assigned To : National TAB - Michael McDonnell

Status : Open

Priority : High

Asset Tag :

Originated Date : 07/26/2024 - Michael McDonnell - National TAB

Project Issue File Details

07/26/2024

07/26/2024

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Project Issue Information

Issue Name : RTU-3: Pool RTU Fan Pulley Cracked

Description : Plastic fan pulleys installed on Pool RTUs appear damaged. RTU-3 pulley has significant crack developing. Recommend replacement.

Created By : National TAB

Assigned To : National TAB - Michael McDonnell

Status : Open

Priority : High

Asset Tag :

Originated Date : 07/26/2024 - Michael McDonnell - National TAB

Project Issue File Details

07/26/2024

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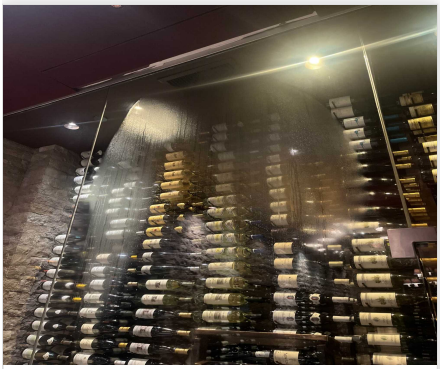
Project Issue Information

Issue Name : Wine Chiller: Condensate on Glass Chiller room Wall.

Description : Condensate forming on wine chiller wall. Recommend unit setpoint is verified and unit is serviced. Not accessible by NTAB tech.

Created By :	National TAB	**Assigned To :**	National TAB - Michael McDonnell
Status :	Open		
Priority :	Medium	**Asset Tag :**	
Originated Date :	07/26/2024 - Michael McDonnell - National TAB		

Project Issue File Details



07/26/2024

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Project Issue Information

Issue Name : WSHP-1: Dining Diffusers Supply Wall Plenum

Description : Dining room supply grilles mounted on wall in upper dining room supply the wall plenum, which then has grille sized cutouts to allow airflow. Inefficient delivery of supply airflow.

Created By : National TAB

Assigned To : National TAB - Michael McDonnell

Status : Open

Priority : Medium

Asset Tag :

Originated Date : 07/26/2024 - Michael McDonnell - National TAB

Project Issue File Details

07/26/2024

07/26/2024

07/26/2024

06-24-24 DOMINICKS SCOTTSDALE, AZ

Project Issue Information

Issue Name : WSHP-4: Kitchen- Return Filter found Clogged

Description : Return filter installed in WSHP-4 was found extremely dirty and clogged. When filter was replaced, airflow increased from 1100cfm to 1823. Recommend filter on this system is changed more frequently due to location (kitchen) to maintain consistent cfm from WSHP.

Created By : National TAB

Assigned To : National TAB - Michael McDonnell

Status : Open

Priority : InfoOnly

Asset Tag :

Originated Date : 07/26/2024 - Michael McDonnell - National TAB

Project Issue File Details

07/26/2024

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Project Issue Information

Issue Name : WSHP-9: Electrical Compartment Cover Missing

Description : Unit cover for the electrical/control compartment is missing. Could not be located, recommend it's installed.

Created By : National TAB

Assigned To : National TAB - Michael McDonnell

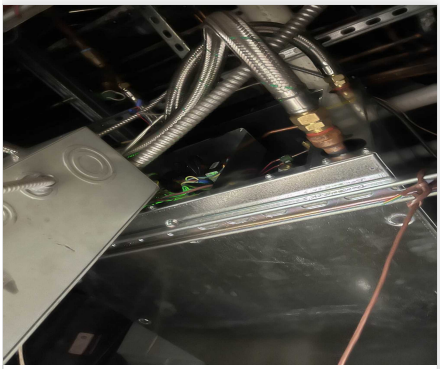
Status : Open

Priority : Low

Asset Tag :

Originated Date : 07/26/2024 - Michael McDonnell - National TAB

Project Issue File Details



07/26/2024

CheckList List

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

06-24-24 DOMINICKS SCOTTSDALE, AZ

CheckList Information

Name :	TECH - SITE PICTURES	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	06/19/2024 - Brian Turnbough - National TAB		
Completed Date :	07/26/2024 - Michael McDonnell - National TAB		

CheckList Item Details

STORE FRONT

Comment:

07/25/2024

WSHP-1

Comment:

07/25/2024

07/25/2024

WSHP-2

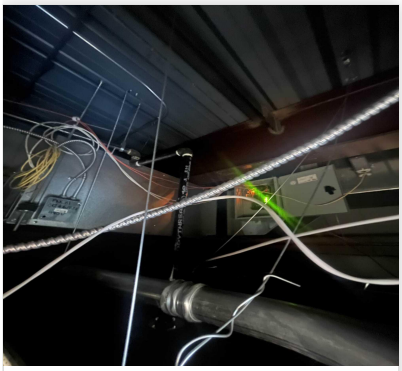
Comment:

07/25/2024

07/25/2024

WSHP-3

Comment:



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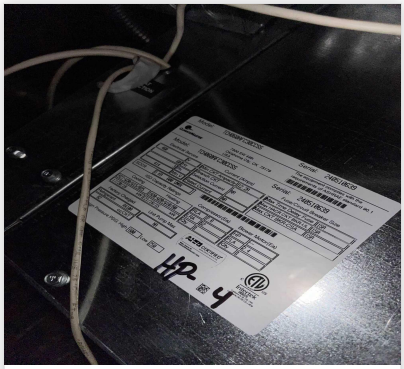
WSHP-4

Comment:

07/26/2024



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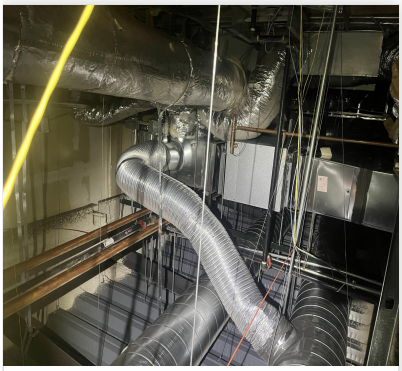
WSHP-5

Comment:



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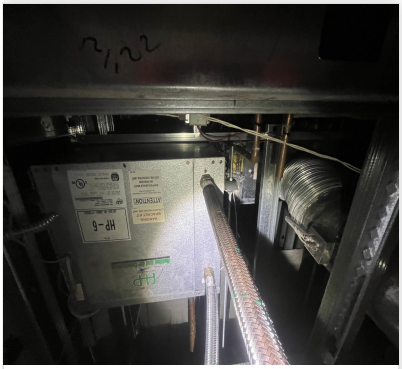
WSHP-6

Comment:



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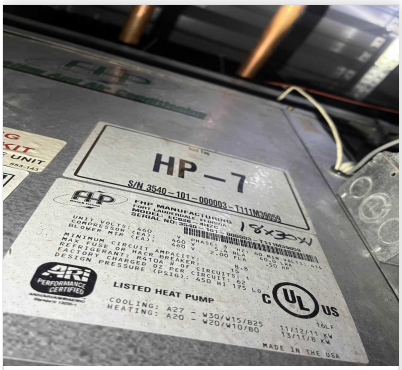
WSHP-7

Comment:



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WSHP-8

Comment:

07/26/2024

07/26/2024

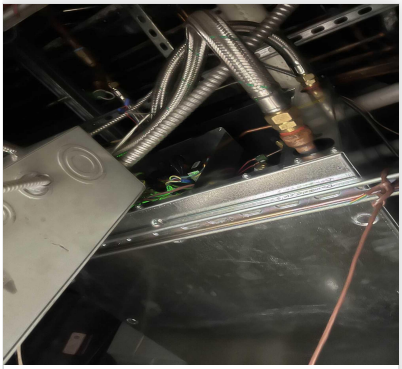
WSHP-9

Comment:

07/26/2024

WSHP-10

Comment:



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RTU-1

Comment:

07/25/2024

RTU-2

Comment:

07/25/2024

07/25/2024

07/26/2024

RTU-3

Comment:

07/26/2024

07/26/2024

KEF-1 / PCU

Comment:

07/26/2024

HOOD-1

Comment:

07/26/2024

07/26/2024

HOOD-2

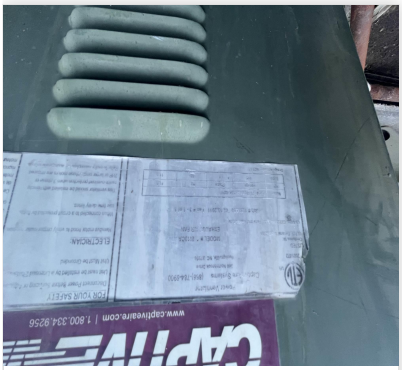
Comment:

07/26/2024

07/26/2024

KEF-2

Comment:



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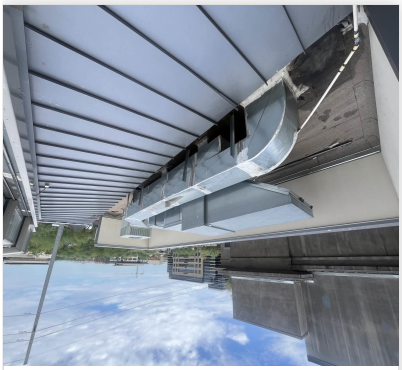
HOOD-3

Comment:

07/26/2024

MAU

Comment:



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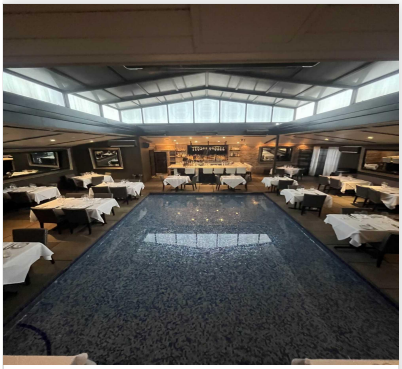
POOL ROOM

Comment:



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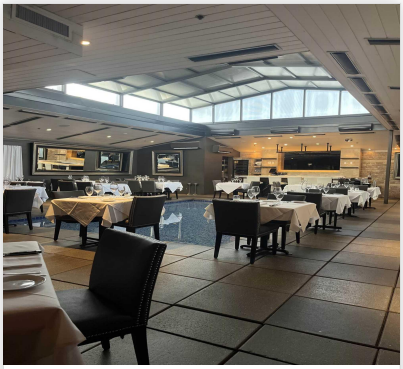
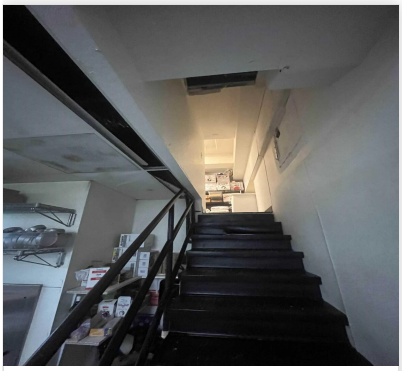


07/26/2024

OFFICE

Comment:



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07/26/2024

06-24-24 DOMINICKS SCOTTSDALE, AZ

CheckList Information

Name :	TECH - STEP 1: INITIAL SITE WALKTHROUGH	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	06/19/2024 - Brian Turnbough - National TAB		
Completed Date :	07/26/2024 - Michael McDonnell - National TAB		

CheckList Item Details

INITIAL SITE WALKTHROUGH

All diffusers and grilles are installed and match design?	N/A

Comment:

MSET provides basic layout of store and general diffuser locations. Does not include 2nd floor and major changes have been made to HVAC system design.

All hood filters installed and accounted for?	Yes

Comment:

20x20 Captrate Filters. Filters appear relatively clean with relatively uniform velocities.

Hoods are wired and have power?	Yes

Comment:

Yes, however hoods are not controlled by hood switch and do not turn off other than at roof disconnect.

Hood is free of alarms?	Yes

Comment:

Thermostats have power?	Yes

Comment:

Controls Company (AZ Control Specialists), control WSHP operation. They DO NOT control hood systems or 3 RTUS serving stairwell and 2nd floor pool room. Those RTUs are controlled by installed thermostats.

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

Comment:

NA

06-24-24 DOMINICKS SCOTTSDALE, AZ

CheckList Information

Name :	TECH - STEP 2: UNIT DATA AND EVAL	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	06/19/2024 - Brian Turnbough - National TAB		
Completed Date :	07/26/2024 - Michael McDonnell - 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?	N/A

Comment:

Economizers installed on carrier units, do not appear operational. WSHP1 and WSHP2 on roof have manual damper OA inlet cut into horizontal rooftop return duct. WSHP 4 and 9 are not ducted for outside air. All other WSHPs are ducted for OA from common duct with manual dampers installed. Most of these dampers are not easily accessible.

DCV Max damper opening position is set to minimum?	N/A

Comment:

Manual Dampers

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

Comment:

Manual Damper

Motors are all operating below the FLA rating?	N/A

Comment:

Unable to verify on all units. Accessible units were all found to be below FLA.

Are belts tight?

Comment:

On belt driven units, yes.

If direct drive unit is the speed controller working.

Comment:

NA

Is gas piping installed and valves turned on?	N/A

Comment:

NA.

Unit free of noticeable noise and vibration	Yes

Comment:

EF's

Rotation is correct?	Yes

Comment:

Belts are tight?	

Comment:

Yes

Grease cup installed on hood fan?	N/A

Comment:

PCU installed.

Hinge kit installed installed on hood fan?	N/A

Comment:

PCU installed.

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

Comment:

PCU installed.

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

Comment:

PCU installed.

There is no major leakage around base of fan?	No

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?	N/A

Comment:

Restroom exhaust is served from common building exhaust fan. does not appear operational.

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?	N/A

Comment:

Heater tested and is functional?	N/A

Comment:

Internal motorized damper is fully opening?	N/A

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?	Yes
Comment:	
DOCUMENTATION	
Have trades/general contractor been notified about any issues and are they created on FaciliBuild?	N/A
Comment:	

06-24-24 DOMINICKS SCOTTSDALE, AZ

CheckList Information

Name :	TECH - STEP 3: TEST, ADJUST AND BALANCE	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	06/19/2024 - Brian Turnbough - National TAB		
Completed Date :	07/26/2024 - Michael McDonnell - National TAB		

CheckList Item Details

TEST, ADJUST, AND BALANCE ALL EQUIPMENT:

DURING TESTING MAKE NOTE OF THE FOLLOWING:

Is space free of drafting?	No

Comment:

Significant Drafting Occurs when either or both WSHP-1 and WSHP-2 are operating. Both units returns are all located in the beverage prep area. This causes significant drafting pulling from the dining and kitchen space.

Is space comfortable in all areas?	No

Comment:

Pool room and office are very uncomfortable, especially during operating hours when filled with people.

Is the space free of ventilation noise?	Yes

Comment:

Noise is heard when WSHPs power on, but nothing out of ordinary.

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

Comment:

NA

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06-24-24 DOMINICKS SCOTTSDALE, AZ

CheckList Information

Name :	TECH - STEP 4: FINAL TESTS	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	06/19/2024 - Brian Turnbough - National TAB		
Completed Date :	07/26/2024 - Michael McDonnell - National TAB		

CheckList Item Details

FINAL TESTS

HOOD CAPTURE TEST

List equipment turned on for testing

Comment:

Stove, Oven

List smoke candle type used

Comment:

45 Second Smoke emitter

Smoke test capture - Perimeter of hood

Comment:

100%

Smoke test capture - Top of cooking surface

Comment:

100%

WITNESS

Date test was completed 06/26/2024

Comment:

TAB tech name / Firm

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Comment:

Michael McDonnell / National TAB

Site super name / Firm

Comment:

NA

Owner representative name / Firm (if Applicable)

Comment:

NA

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

Comment:

0.006" When all WSHPs are operating, but without dishhood or general exhaust operating. Building remained relatively neutral during testing, but was measured negative at the back door (located in rear of kitchen); unable to obtain accurate reading due to air curtain. There is no Outside Air ducted to the Kitchen WSHPs.

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:

Unknown

Thermostats are programmed?	Yes

Comment:

Units run in Fan Auto, controlled by AZ control specialists.

National TAB

Project: 06-24-24 DOMINICKS SCOTTSDALE, AZ

System/Unit: AHU/RTU

Asset: RTU1 AREA:STAIRWELL

Unit Data		
	Design	**Actual**
MFG	NA	TRANE
Serial Num	-	113410300L
Model Num	NA	4WCC3036A
Type	-	RTU
Configuration	-	VERTICAL
Num OA Filters 1	-	NONE INSTALLED
Num Final Filter 1	-	INSTALLED IN RETURN GRILLE

Motor Data		
	Design	**Actual**
Horsepower	-	0.5
Motor Rpm	-	NL
Phase	-	1
Rated Voltage	-	208/230
Rated Amperage	-	2.7

Test Data		
	Design	**Actual**
SF CFM	-	1155
SF RPM	-	DD
RA CFM	-	1155
OA CFM	-	0-NOT IONSTALLED
RA Damper Position	-	100%
Min OA Damper Type	-	NONE INSTALLED

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.54"
Fan Suction SP	-	-0.86"
Fan Discharge SP	-	0.19"
Total ESP	-	0.73"
Fan Total SP	-	1.05"

General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	NONE INSTALLED
Condensate Drain Installed	YES

Completed By: Michael McDonnell on 07/25/2024

Notes:
[1] SERVES DIFFUSERS IN STAIRWELL. FILTER INSTALLED AT RETURN, FOUND DIRTY. REMOVED FOR TESTING. UNIT OPERATES IN FAN AUTO.
[2] POWER CONDUIT TO UNIT DAMAGED-SEE ISSUE
[3] NO FILTER INSTALLED AT COIL.

Written By: Michael McDonnell on 07/26/2024

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National TAB

Project: 06-24-24 DOMINICKS SCOTTSDALE, AZ

System/Unit: AHU/RTU

Asset: RTU2 AREA:POOL SOUTH

Unit Data		
	Design	**Actual**
MFG	NA	CARRIER
Serial Num	-	1008G30518
Model Num	NA	50HJQ006
Type	-	RTU
Configuration	-	HORIZONTAL
Num OA Filters 1	-	1
OA Filter Size 1	-	36X16

Motor Data		
	Design	**Actual**
Motor MFG	-	GE
Frame	-	56Y
Horsepower	-	NL
Motor Rpm	-	1725
Phase	-	3
Rated Voltage	-	208-230/460
Rated Amperage	-	5.2/2.6

Test Data		
	Design	**Actual**
SF CFM	-	2309
SF RPM	-	1240
RA CFM	-	2309
OA CFM	-	0
RL Voltage	-	482/482/482
RL Amperage	-	1.5/1.5/1.5
SF Rotation	-	CORRECT
RA Damper Position	-	100%
Min OA Damper Position	-	0%
Min OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.25"
Fan Suction SP	-	-0.73"
Fan Discharge SP	-	0.55"
Total ESP	-	0.80"
Fan Total SP	-	1.28"

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

Completed By: Michael McDonnell on 07/25/2024

Notes:
[1] UNIT NOT OPERATING COOLING AT TIME OF VISIT. REPAIR WAS IN PROGRESS.
[2] FAN PULLEY APPEARS DAMAGED.

Written By: Michael McDonnell on 07/26/2024

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National TAB

Project: 06-24-24 DOMINICKS SCOTTSDALE, AZ

System/Unit: AHU/RTU

Asset: RTU3 AREA:POOL NORTH

Unit Data		
	Design	**Actual**
MFG	NA	CARRIER
Serial Num	-	2808G10432
Model Num	NA	50HJQ006
Type	-	RTU
Configuration	-	HORIZONTAL
Num OA Filters 1	-	1
OA Filter Size 1	-	36X16

Motor Data		
	Design	**Actual**
Motor MFG	-	GE
Frame	-	56Y
Horsepower	-	NL
Motor Rpm	-	1725
Phase	-	3
Rated Voltage	-	208-230/ 460
Rated Amperage	-	5.6/ 2.8

Test Data		
	Design	**Actual**
SF CFM	-	2269
SF RPM	-	1256
RA CFM	-	2269
OA CFM	-	0
RL Voltage	-	482/482/482
RL Amperage	-	1.8/1.8/1.8
SF Rotation	-	CORRECT
RA Damper Position	-	100%
Min OA Damper Position	-	0%
Min OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.29"
Fan Suction SP	-	-0.81"
Fan Discharge SP	-	0.43"
Total ESP	-	0.72"
Fan Total SP	-	1.24"

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

Completed By: Michael McDonnell on 07/25/2024

Notes:
[1] FAN PULEY DAMAGED / CRACKED

Written By: Michael McDonnell on 07/26/2024

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National TAB

Project: 06-24-24 DOMINICKS SCOTTSDALE, AZ

System/Unit: AHU/RTU

Asset: WSHP1 AREA:UPPER DINING / STAIRWELL AND WAITING LINEARS

Unit Data		
	Design	**Actual**
MFG	MCQUAY	FHP
Serial Num	-	1101026
Model Num	WRWH1-240-EKYHE	PWY240CK14A0A
Type	WSHP	WSHP
Configuration	VERTICAL	HORIZONTAL
Num OA Filters 1	-	1
OA Filter Size 1	-	20X14
Num Final Filter 1	-	1 / 1
Final Filter Size 1	-	20X20X2 / 20X24X2
Num Final Filter 2	-	1 / 1
Final Filter Size 2	-	16X20X2 / 16X24X2

Motor Data		
	Design	**Actual**
Motor MFG	-	TECO WESTINGHOUSE
Frame	-	184T
Horsepower	-	5.0
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	480	460
Rated Amperage	-	6.80

Drive Data	
	Actual
Motor Sheave Size	5"
Motor Bore Size	1-1/8"
Motor Sheave SetPt	0-1 TURN OPEN
Fan Sheave Size	8.75"
Fan Sheave Bore	1-3/16"
Belt CL Distance	11" CL
Num of Belts	2
Belt Size	BX44
Belt Alignment	VERIFIED

Test Data		
	Design	**Actual**
SF CFM	-	5360
SF RPM	-	861
RA CFM	-	5360
OA CFM	-	0
RL Voltage	-	481/481/482
RL Amperage	-	4.4/4.4/4.6
SF Rotation	-	CORRECT
SF System SetPt	-	CAV
RA Damper Position	-	100%
Min OA Damper Position	-	0%
Min OA Damper Type	-	MANUAL DAMPER

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.51"
Fan Suction SP	-	-0.78"
Fan Discharge SP	-	0.62"
Total ESP	0.5"	1.13"
Fan Total SP	-	1.40"

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

Completed By: Michael McDonnell on 07/25/2024

Notes:
[1]OA INTAKE CUT INTO HORIZONTAL ROOFTOP RETURN. MANUAL DAMPER FULLY CLOSED.
[2] GRILLES IN SPACE SUPPLY WALL PLENUM. SEE ISSUE.

Written By: Michael McDonnell on 07/26/2024

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National TAB

Project: 06-24-24 DOMINICKS SCOTTSDALE, AZ

System/Unit: AHU/RTU

Asset: WSHP2 AREA:BAR

Unit Data		
	Design	**Actual**
MFG	MCQUAY	FHP
Serial Num	-	110102601002
Model Num	WRWH1-180-EKYHE	PWY240CK14A0A
Type	RTU	WSHP
Configuration	VERTICAL	HORIZONTAL
Num OA Filters 1	-	1
OA Filter Size 1	-	20X14
Num Final Filter 1	-	1 / 1
Final Filter Size 1	-	20X20X2 / 20X24X2
Num Final Filter 2	-	1 / 1
Final Filter Size 2	-	16X20X2 / 16X24X2

Motor Data		
	Design	**Actual**
Motor MFG	-	TECO WESTINGHOUSE
Frame	-	184T
Horsepower	-	5.0 HP
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	480	460
Rated Amperage	-	6.30

Test Data		
	Design	**Actual**
SF CFM	-	6697
SF RPM	-	917
RA CFM	-	6697
OA CFM	-	0
RL Voltage	-	481/482/482
RL Amperage	-	4.1/4.1/4.3
SF Rotation	-	CORRECT
SF System SetPt	-	CAV
RA Damper Position	-	100%
Min OA Damper Position	-	0%
Min OA Damper Type	-	MANUAL DAMPER

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

Completed By: Michael McDonnell on 07/25/2024

Notes:
[1]OA INTAKE CUT INTO HORIZONTAL ROOFTOP RETURN. MANUAL DAMPER FULLY CLOSED.

Written By: Michael McDonnell on 07/25/2024

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National TAB

Project: 06-24-24 DOMINICKS SCOTTSDALE, AZ

System/Unit: AHU/RTU

Asset: WSHP3 AREA:POOL PRIVATE DINING

Unit Data		
	Design	**Actual**
MFG	MCQUAY	FHP
Serial Num	-	3540-203-000001
Model Num	WRWH1-180-EKYHE	EC036-4HZC
Type	-	WHP
Configuration	-	HORIZONTAL
Num OA Filters 1	-	NONE
Num Final Filter 1	-	1
Num Final Filter 2	-	18X30X1

Motor Data		
	Design	**Actual**
Horsepower	-	0.5
Phase	3	3
Rated Voltage	480	460
Rated Amperage	-	2.0

Test Data		
	Design	**Actual**
SF CFM	-	1374
RA CFM	-	0
OA CFM	-	1374

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

Completed By: Michael McDonnell on 07/25/2024

Notes:
[1] SERVES GRILLES IN 2ND FLOOR PRIVATE DINING ROOM AND 2ND FLOOR BACK HALL / RESTROOMS.
[2] UNIT IS IN NIEGHBORING TENANT SPACE, RETURN PULLING FROM CELING PLEMNUM IN THAT SPACE.
[2] NOT DUCTED FOR OA. ALL SUPPLY AIR, TECHNICALLY OA.

Written By: Michael McDonnell on 07/25/2024

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National TAB

Project: 06-24-24 DOMINICKS SCOTTSDALE, AZ

System/Unit: AHU/RTU

Asset: WSHP4 AREA:

Unit Data		
	Design	**Actual**
MFG	MCQUAY	CLIMATE MASTER
Serial Num	-	240510639
Model Num	WRWH1-120-EHYHE	TCH060AFC30
Type	HP	HP
Configuration	HORIZONTAL	HORIZONTAL
Num OA Filters 1	-	NONE
Num Final Filter 1	-	1
Final Filter Size 1	-	24X24

Test Data		
	Design	**Actual**
SF CFM	-	1823
SF RPM	-	DD
RA CFM	-	1823
OA CFM	-	0

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

Motor Data		
	Design	**Actual**
Horsepower	-	NL
Motor Rpm	-	NL
Phase	3	3
Rated Voltage	480	460
Rated Amperage	-	2.4

Completed By: Michael McDonnell on 07/25/2024

Notes:
[1] SERVES FRONT KITCHEN AREA-4 DIFFUSERS IN COOKING AREA AND HAS 2 GRILLES DUCTED FROM UNIT TO 2ND FLOOR OFFICE. OFFICE GRILLES TOTAL 401 CFM. THERE IS NO RETURN IN OFFICE.
[2] FILTER INSTALLED ON RETURN INTIALLY FOUND CLOGGED, REPLACED FILTER. AIRFLOW INCREASED FROM 1100 CFM TO 1823 CFM.
[3] NOT DUCTED FOR OA.

Written By: Michael McDonnell on 07/26/2024

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National TAB

Project: 06-24-24 DOMINICKS SCOTTSDALE, AZ

System/Unit: AHU/RTU

Asset: WSHP5 AREA:WINE ROOM

Unit Data		
	Design	**Actual**
MFG	NA	NA
Serial Num	-	NA
Model Num	NA	NA
Type	-	WSHP
Configuration	-	HORIZONTAL

Test Data		
	Design	**Actual**
SF CFM	-	1441
OA CFM	-	[2]

Completed By: Michael McDonnell on 07/25/2024

Notes:
[1] UNIT SERVES LINEARS IN WINE ROOM. 2 ARE SUPPLY, 2 ARE RETURN. UNABLE TO ACCESS UNIT SAFELY.
[2] UNIT DUCTED FOR OUTSIDE AIR, DAMPER NOT ACCESSIBLE.

Written By: Michael McDonnell on 07/26/2024

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National TAB

Project: 06-24-24 DOMINICKS SCOTTSDALE, AZ

System/Unit: AHU/RTU

Asset: WSHP6 AREA:SOUTH DINING

Unit Data		
	Design	**Actual**
MFG	NA	FHP
Serial Num	-	3540-101-000001
Model Num	NA	EC036-4HZC
Type	-	WSHP
Configuration	-	HORIZONTAL

Test Data		
	Design	**Actual**
SF CFM	-	1223
OA CFM	-	[1]

Motor Data		
	Design	**Actual**
Motor MFG	-	NA
Horsepower	-	0.5
Motor Rpm	-	NL
Phase	-	3
Rated Voltage	-	460
Rated Amperage	-	2.0

Completed By: Michael McDonnell on 07/25/2024

Notes:
[1] DUCTED FOR OA, NOT ACCESSIBLE.

Written By: Michael McDonnell on 07/26/2024

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National TAB

Project: 06-24-24 DOMINICKS SCOTTSDALE, AZ

System/Unit: AHU/RTU

Asset: WSHP7 AREA:PRIVATE DINING

Unit Data		
	Design	**Actual**
MFG	NA	FHP
Serial Num	-	3540-101-000003-T111M39059
Model Num	NA	ECO36-HHZC
Type	-	WSHP
Configuration	-	HORIZONTAL

Test Data		
	Design	**Actual**
SF CFM	-	798
OA CFM	-	[1]

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Horsepower	-	0.5
Motor Rpm	-	NL
Phase	-	3
Rated Voltage	-	460
Rated Amperage	-	2.00

Completed By: Michael McDonnell on 07/25/2024

Notes:
[1] UNIT DUCTED FOR OA, DAMPER NOT ACCESSIBLE.
[2] SERVES PRIVATE DINING ROOM. 2 LINEAR SUPPLY DIFFUSERS AND 1 LINEAR RETURN.

Written By: Michael McDonnell on 07/26/2024

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National TAB

Project: 06-24-24 DOMINICKS SCOTTSDALE, AZ

System/Unit: AHU/RTU

Asset: WSHP8 AREA:LOBBY / RR

Unit Data		
	Design	**Actual**
MFG	NA	FHP
Serial Num	-	3540-101-000003-T111M34075
Model Num	NA	EC060-4HZC
Type	-	WSHP
Configuration	-	HORIZONTAL

Test Data		
	Design	**Actual**
SF CFM	-	1598
OA CFM	-	[1]

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Horsepower	-	0.75
Motor Rpm	-	NL
Phase	-	3
Rated Voltage	-	460
Rated Amperage	-	2.75

Completed By: Michael McDonnell on 07/25/2024

Notes:
[1] DUCTED FOR OA, NOT ACCESSIBLE.
[2] UNIT SERVES LOBBY AND RESTROOMS.

Written By: Michael McDonnell on 07/25/2024

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National TAB

Project: 06-24-24 DOMINICKS SCOTTSDALE, AZ

System/Unit: AHU/RTU

Asset: WSHP9 AREA:REAR KITCHEN

Unit Data		
	Design	**Actual**
MFG	NA	CLIMATE MASTER
Serial Num	-	NA
Model Num	NA	TCH060AFC30
Type	-	WSHP
Configuration	-	HORIZONTAL

Test Data		
	Design	**Actual**
SF CFM	-	1697

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Horsepower	-	NL
Motor Rpm	-	NL
Phase	-	3
Rated Voltage	-	460
Rated Amperage	-	2.4

Completed By: Michael McDonnell on 07/25/2024

Notes:
[1] ELECTRICAL COMPARTMENT COVER MISSING. COULD NOT FIND IN THE CEILING.
[2] NOT DUCTED FOR OA.

Written By: Michael McDonnell on 07/25/2024

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National TAB

Project: 06-24-24 DOMINICKS SCOTTSDALE, AZ

System/Unit: AHU/RTU

Asset: WSHP10 AREA:SOUTH DINING HOST WALL

Unit Data		
	Design	**Actual**
MFG	NA	NA
Serial Num	-	NA
Model Num	NA	NA
Type	-	WSHP
Configuration	-	HORIZONTAL

Test Data		
	Design	**Actual**
SF CFM	-	831

Motor Data		
	Design	**Actual**
Motor MFG	-	NA
Horsepower	-	NA

Completed By: Michael McDonnell on 07/25/2024

Notes:
[1] DUCTED FOR OA, NOT ACCESSIBLE.
[2] SERVES 3 LINEAR DIFFUSERS IN SOUTH DINING.

Written By: Michael McDonnell on 07/25/2024

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National TAB

Project: 06-24-24 DOMINICKS SCOTTSDALE, AZ

System/Unit: FAN - Exhaust

Asset: KEF1 AREA:HD1 / HD2

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	NCA16FA	KB25
Serial Num	-	1289650
Type	UPBLAST ROOF	PCU
Configuration	VERTICAL	HORIZONTAL

Motor Data		
	Design	**Actual**
Motor MFG	-	MARATHON
Horsepower	-	7.5
Motor Rpm	-	3470
Phase	1	3
Voltage (rated)	208	208-230 / 460
Amperage (rated)	-	21.0-19.2 / 9.6
Service Factor	-	1.15

Test Data		
	Design	**Actual**
CFM	-	7214
Fan RPM	-	1101
Fan Rotation	-	CCW, CORRECT
Motor RPM	-	3452
System SetPt	-	SINGLE SPEED
RL Voltage	-	210/210/211
RL Amperage	-	14.8/14.6/14.4

Completed By: Michael McDonnell on 07/25/2024

Notes:
[1] NO CONTROLS IN SPACE, OPERATES 24/7.

Written By: Michael McDonnell on 07/26/2024

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National TAB

Project: 06-24-24 DOMINICKS SCOTTSDALE, AZ

System/Unit: FAN - Exhaust

Asset: KEF2 AREA:HD-3

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	NCA18FA	BI13CA
Serial Num	-	1233530
Type	-	UTILITY
Configuration	-	HORIZONTAL

Motor Data		
	Design	**Actual**
Motor MFG	-	WEG
Frame	-	D56
Horsepower	-	0.75
Motor Rpm	-	1730
Phase	1	1
Voltage (rated)	208	208
Amperage (rated)	-	6.10
Service Factor	-	1.25

Test Data		
	Design	**Actual**
CFM	-	1026
Fan RPM	-	1038
Fan Rotation	-	CORRECT
Motor RPM	-	1784
System SetPt	-	SINGLE SPEED
RL Voltage	-	NR
RL Amperage	-	NR

Completed By: Michael McDonnell on 07/26/2024

Notes:
[1] NOT OPERATING, BUT FUNCTIONAL.
[2] NO CONTROLS IN SPACE. LEFT OFF AT ROOF DISCONNECT.

Written By: Michael McDonnell on 07/26/2024

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National TAB

Project: 06-24-24 DOMINICKS SCOTTSDALE, AZ

System/Unit: FAN - Supply

Asset: MUA1 AREA:HD 1 / HD 2

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	A1-G10	A3-G18
Serial Num	-	1289560
Type	MUA	MUA
Configuration	VERTICAL	HORIZONTAL

Motor Data		
	Design	**Actual**
Motor MFG	-	WESTINGHOUSE
Horsepower	-	3.0
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	9.5

Test Data		
	Design	**Actual**
CFM	-	4617
SF RPM	-	442
Motor RPM	-	1788
SF System SetPt	-	SINGLE SPEED
RL Voltage	-	204/205/204
RL Amperage	-	4.4/4.4/4.3

General	
	Actual
Fan Rotation Correct	YES

Completed By: Michael McDonnell on 07/25/2024

Notes:
[1] SWAMP COOLER
[2] NO CONTROLS IN SPACE, APPEARS TO OPERATE 24/7.

Written By: Michael McDonnell on 07/26/2024

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National TAB

Project: 06-24-24 DOMINICKS SCOTTSDALE, AZ

System/Unit: Kitchen Hood Type I

Asset: HD1 AREA:KITCHEN LEFT

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	NA	NL
Job / Serial Num	-	NL
Type	TYPE 1 CANOPY	TYPE I CANOPY
Hood length	-	180"
Hood Width	-	60"
Supply Plenum Type	-	PSP
Supply Plenum Width	-	12"
Supply Plenum Length	-	192"

Test Data Exhaust		
	Design	**Actual**
Filter Type	-	BAFFLE
Filter Size 1	-	20X20
Filter Qty 1	-	9
Filter AK factor size 1	-	2.68
Filter Total AK Area	-	24.12
Filter1 FPM	-	121
Filter2 FPM	-	107
Filter3 FPM	-	118
Filter4 FPM	-	125
Filter5 FPM	-	121
Filter6 FPM	-	132
Filter7 FPM	-	149
Filter8 FPM	-	135
Filter9 FPM	-	129
Filter Ave FPM(corr)	-	126.33
CFM	-	3047

Cooking Equipment	
	Actual
Item 1	FRYER
Item 2	FRYER
Item 3	FRYER
Item 4	STOVE
Item 5	BROILER

Test Data Supply		
	Design	**Actual**
Total AK Area	-	16.00
Kv factor (Vel)	-	0.87
Num of Readings	-	12
Reading1 FPM	-	264
Reading2 FPM	-	184
Reading3 FPM	-	183
Reading4 FPM	-	246
Reading5 FPM	-	227
Reading6 FPM	-	153
Reading7 FPM	-	134
Reading8 FPM	-	190
Reading9 FPM	-	238
Reading10 FPM	-	194
Reading11 FPM	-	117
Reading12 FPM	-	177
Ave FPM(corr)	-	167.25
CFM	2625	2676

Completed By: Michael McDonnell on 07/25/2024

Notes:
[1] Some Hood lightbulbs need replacement.
[2] Hood Control only operates lights, not fans.

Written By: Michael McDonnell on 07/26/2024

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National TAB

Project: 06-24-24 DOMINICKS SCOTTSDALE, AZ

System/Unit: Kitchen Hood Type I

Asset: HD2 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	NA	NL
Job / Serial Num	-	NL
Type	-	TYPE I CANOPY
Hood length	-	180"
Hood Width	-	60"
Supply Plenum Type	-	psp
Supply Plenum Width	-	12"
Supply Plenum Length	-	180"

Test Data Exhaust		
	Design	**Actual**
Filter Type	-	BAFFLE
Filter Size 1	-	20X20
Filter Qty 1	-	9
Filter AK factor size 1	-	2.68
Filter Total AK Area	-	24.12
Filter1 FPM	-	191
Filter2 FPM	-	158
Filter3 FPM	-	177
Filter4 FPM	-	183
Filter5 FPM	-	162
Filter6 FPM	-	187
Filter7 FPM	-	177
Filter8 FPM	-	156
Filter9 FPM	-	164
Filter10 FPM	-	191
Filter11 FPM	-	158
Filter12 FPM	-	177
Filter Ave FPM(corr)	-	172.78
CFM	-	4167

Cooking Equipment	
	Actual
Item 1	BROILER
Item 2	BROILER
Item 3	OVEN
Item 4	OVEN
Item 5	WARMING RACK

Test Data Supply		
	Design	**Actual**
Total AK Area	-	15
Kv factor (Vel)	-	0.87
Num of Readings	-	12
Reading1 FPM	-	179
Reading2 FPM	-	170
Reading3 FPM	-	164
Reading4 FPM	-	171
Reading5 FPM	-	138
Reading6 FPM	-	131
Reading7 FPM	-	170
Reading8 FPM	-	171
Reading9 FPM	-	154
Reading10 FPM	-	110
Reading11 FPM	-	107
Reading12 FPM	-	120
Ave FPM(corr)	-	129.4
CFM	4102	1941

Completed By: Michael McDonnell on 07/25/2024

Notes:
[1] LIGHTBULBS IN NEED OF REPLACEMENT.
[2] HOOD CONTROL ONLY OPERATES LIGHTS, NOT FANS.

Written By: Michael McDonnell on 07/26/2024

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National TAB

Project: 06-24-24 DOMINICKS SCOTTSDALE, AZ

System/Unit: Kitchen Hood Type II

Asset: HD3 AREA:DISH HOOD

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	NA	NL
Serial Num	-	NL
Type	TYPE 2	TYPE II
Hood length	-	48"
Hood Width	-	96"

Test Data		
	Design	**Actual**
Exhaust CFM	-	1026

Completed By: Michael McDonnell on 07/25/2024

Notes:
[1] FUNCTIONAL, BUT NOT OPERATIONAL. NO CONTROL OF EXHAUST FAN IN SPACE.

Written By: Michael McDonnell on 07/26/2024

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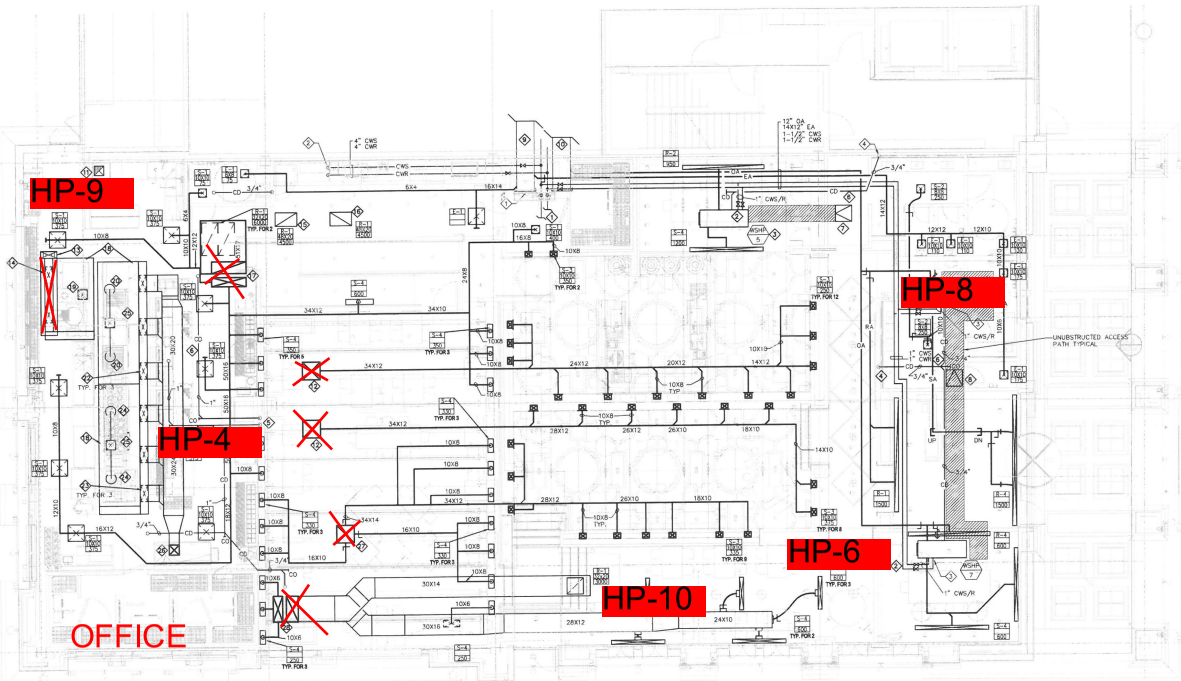


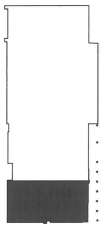
01 FLOOR PLAN
SCALE: 3/16"=1'-0" REF:

KEY NOTES

1. CONTRACTOR SHALL DEMOLISH CWS, CWR, SA AND EXHAUST DUCT CAN CAP IN PLACE.
2. CONTRACTOR SHALL PROVIDE CWS/R LINES AS INDICATED ON PLAN. 4" CWS/R SHALL BE EXTENDED ABOVE ROOF AND CONNECT TO WSHP-1,2,3 & 4 RESPECTIVELY.
3. WSHP-5 & 6 SHALL BE PROVIDED WITH ACCESS PANELS TO SERVICE SHUT-OFF VALVES, FILTER.
4. ROUTE COPPER CONDENSATE LINE DOWN IN WALL AND OUT BELOW COUNTER TOP. CONNECT TO TAIL PIECE WITH APPROVED FITTING.
5. ROUTE COPPER CONDENSATE LINE DOWN IN WALL AND OUT ABOVE FLOOR SINK WITH CODE COMPLIANT AIR GAP.
6. SLOPE CONDENSATE DRAIN LINE 1/8" PER FOOT.
7. CONTRACTOR SHALL PROVIDE 36"x36" ACCESS PANEL.
8. CONTRACTOR SHALL PROVIDE 36"X36" ACCESS PANEL.
9. EXISTING HOUSE EXHAUST DUCTWORK.
10. EXISTING HOUSE OUT SIDE AIR DUCTWORK.
11. 12"ø EXHAUST DUCT UP THRU ROOF TO EXHAUST FAN. VERIFY SIZE WITH KITCHEN EQUIPMENT DRAWINGS.
12. 26"x 26" S.A. DUCT THRU ROOF FROM WSHP-2. TRANSITION TO 24"x 12" AND RUN AS REQUIRED IN CEILING SPACE.
13. 26"x 10" DUCTWORK UP THROUGH ROOF TO MAU-1.
14. 24"x 8" MAKE UP AIR SUPPLY DROP TO PLENUM-810 CFM EACH TYPICAL 2 PLACES. VERIFY SIZE WITH KITCHEN EQUIP. DWGS.
15. 36X36 RETURN AIR DUCT UP THROUGH ROOF.
16. 36X24 RETURN AIR DUCT UP THROUGH ROOF.
17. FULL SIZE SUPPLY AND RETURN DUCTWORK UP THROUGH ROOF.
18. KITCHEN HOOD AND SUPPLY PLENUM BY KITCHEN EQUIPMENT CONTRACTOR. INSTALLED BY MECHANICAL CONTRACTOR. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION.
19. 16"ø EXHAUST DUCT RISER AND DUCT THRU ROOF TO EXHAUST FAN. VERIFY SIZE WITH KITCHEN EQUIPMENT DRAWINGS.
20. 16"ø GREASE EXHAUST DUCT RISER FROM HOOD P.O.C. TO MAIN RISER. (PANT LEG). VERIFY SIZE WITH KITCHEN EQUIP. DWGS.
21. 20"x 20" GREASE EXHAUST DUCT THRU ROOF TO EXHAUST FAN. VERIFY SIZE W/KITCHEN EQUIP. DWGS.
22. 24"x 10" MAKE UP AIR SUPPLY DROP TO PLENUM-1024 CFM EACH. TYPICAL 3 PLACES. VERIFY SIZE W/KITCHEN EQUIP. DWGS.
23. 24"x 8" MAKE UP AIR SUPPLY DROP TO PLENUM-787 CFM EACH. TYPICAL 3 PLACES. VERIFY SIZE W/KITCHEN EQUIP. DWGS.
24. 12"ø GREASE EXHAUST DUCT RISER FROM HOOD P.O.C. TO MAIN RISER (PANT LEG). VERIFY SIZE W/KITCHEN EQUIP. DWGS.
25. 18"x 18" GREASE EXHAUST DUCT THRU ROOF TO EXHAUST FAN. VERIFY SIZE W/KITCHEN EQUIP. DWGS.
26. 18 3/4"x 16" MAKE-UP AIR DUCT THRU ROOF FROM MAU-2. VERIFY SIZE W/KITCHEN EQUIP. DWGS.
27. 30"x 30" S.A. DUCT THRU ROOF FROM WSHP-3.
28. S.A. & R.A. DUCT DROPS FROM WSHP-4. TRANSITION TO 30"x 16" S.A. AND 30"x 14" R.A. RUN AS REQUIRED IN CEILING SPACE.

GENERAL NOTES

1. THE CONTRACTORS AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR REVIEW OF THE GENERAL NOTES, SPECIFICATIONS, AND ALL OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS.
2. THE INSTALLATION SHALL COMPLY WITH, AND BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND THE AUTHORITIES HAVING JURISDICTION.
3. DRAWINGS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE REQUIREMENTS.
4. COORDINATE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
5. DO NOT ROUTE ANY DUCT OVER ELECTRICAL EQUIPMENT.
6. PROVIDE INSULATED FLEXIBLE DUCT CONNECTIONS TO DIFFUSERS. FLEX DUCT LENGTH NOT TO EXCEED 5'-0".
7. VERIFY THE EXACT MOUNTING FRAME REQUIRED FOR EACH AIR DEVICE. CONTRACTOR SHALL PROVIDE A MOCK-UP INSTALLATION OF THE LINEAR DIFFUSER AND PLENUM BOX FOR THE DINING AND BAR AREA.
8. PROVIDE ALL MANUAL BALANCE DAMPERS WITH CONCEALED DAMPER REGULATORS REQUIRED TO BALANCE EACH SYSTEM. SEE DETAILS FOR YOUNG REGULATOR INSTALLATION.
9. CONTRACTOR SHALL SEAL EXISTING DUCTWORK TO PROVIDE PROPER AIR BALANCE.



KEY PLAN
SCALE: N.T.S. REF:

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15169 North Scottsdale Road
Scottsdale, Arizona 85254

Date
8.12.2010

Revisions
8-3-2010 CITY_COMMENTS

Project No.

Sheet
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FLOOR PLAN

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