

Report By:

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



Report: TAB REPORT
Function: Test, Adjust, & Balance
Date: 07/03/2024

PROJECT

07-01-24 Pet Supplies Plus, Marion OH

1609 Marion-Mt Gilead Rd

Marion , OH 43302

Client

Hartland Mechanical Services

National TAB

Project: 07-01-24 Pet Supplies Plus, Marion OH

Table Of Contents

Section	Page #
Summary	3
Remarks	4
Balance Schedule	19
Checklist Data	20
AHU/RTU	32
FAN - Exhaust	38
GRD Layout	42

Project Summary

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

RTU's (Roof Top Units) w/ Diffusers

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

General Exhaust Fans w/ Grilles

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

Final Building Tests

After completing the test and balance the final building pressure was measured. It was confirmed that the building pressure fell within acceptable tolerances and that the pressure measurement coincides with the actual and design net airflow. Any deviations from these standards are noted throughout the report.

Issue List

- EF 1 unable to meet design CFM.
- EF 2 unable to meet design CFM.
- EF 3 max CFM at 90% before balancing
- OA Set during winding conditions, inherent inaccuracy
- RTU 1 and RTU 3 OA intake hoods were installed incorrectly; reinstalled correctly by TAB technician.
- RTU 1 current imbalance
- RTU 2 airflow not cool
- RTU 2 and RTU 3 excessive airflow noise inside the space.
- RTU 2 current imbalance
- RTU 2 duct leakage at unit dropdown within the space.
- RTU 2 mangled/bent near unit discharge causing leakage.
- RTU 2 OA damper will not stay in the same position.
- RTU 2 power wiring insulation eroded.
- RTU 2 unable to meet design cfm



07-01-24 Pet Supplies Plus, Marion OH

Project Issue Information

Issue Name : EF 1 unable to meet design CFM.
Description : EF 1 unable to meet design CFM. 56 max CFM, no speed controller found to be able to increase speed.
Created By : National TAB **Assigned To :** National TAB - Will Turnbough
Status : Open
Priority : Medium **Asset Tag :** EF1
Originated Date : 07/04/2024 - Cody Collett - National TAB



07-01-24 Pet Supplies Plus, Marion OH

Project Issue Information

Issue Name : EF 2 unable to meet design CFM.
Description : EF 2 unable to meet design CFM. 58 max CFM, no speed controller found to be able to increase speed.
Created By : National TAB **Assigned To :** National TAB - Will Turnbough
Status : Open
Priority : Medium **Asset Tag :** EF2
Originated Date : 07/04/2024 - Cody Collett - National TAB



07-01-24 Pet Supplies Plus, Marion OH

Project Issue Information

Issue Name :	EF 3 max CFM at 90% before balancing		
Description :	EF 3 max CFM at 90% before balancing.		
Created By :	National TAB	Assigned To :	National TAB - Will Turnbough
Status :	Open		
Priority :	High	Asset Tag :	EF3
Originated Date :	07/04/2024 - Cody Collett - National TAB		



07-01-24 Pet Supplies Plus, Marion OH

Project Issue Information

Issue Name : OA Set during winding conditions, inherent inaccuracy
Description : OA Set during winding conditions, inherent inaccuracy. RTU's 1, 2, and 3.
Created By : National TAB **Assigned To :** National TAB - Will Turnbough
Status : Open
Priority : InfoOnly **Asset Tag :**
Originated Date : 07/04/2024 - Cody Collett - National TAB



07-01-24 Pet Supplies Plus, Marion OH

Project Issue Information

Issue Name : RTU 1 and RTU 3 OA intake hoods were installed incorrectly; reinstalled correctly by TAB technician.
Description : RTU 1 and RTU 3 OA intake were hoods installed incorrectly; reinstalled correctly by TAB technician.
Created By : National TAB **Assigned To :** National TAB - Will Turnbough
Status : Open
Priority : InfoOnly **Asset Tag :**
Originated Date : 07/04/2024 - Cody Collett - National TAB

Project Issue File Details



07/04/2024



07/04/2024



07/04/2024



07-01-24 Pet Supplies Plus, Marion OH

Project Issue Information

Issue Name : RTU 1 current imbalance
Description : RTU 1 current imbalance.
Created By : National TAB **Assigned To :** National TAB - Will Turnbough
Status : Open
Priority : Medium **Asset Tag :** RTU1
Originated Date : 07/03/2024 - Cody Collett - National TAB



07-01-24 Pet Supplies Plus, Marion OH

Project Issue Information

Issue Name : RTU 2 airflow not cool
Description : Airflow coming into the space from RTU 2 does not feel like it is being conditioned.
Created By : National TAB **Assigned To :** National TAB - Will Turnbough
Status : Open
Priority : High **Asset Tag :** RTU2
Originated Date : 07/04/2024 - Cody Collett - National TAB



07-01-24 Pet Supplies Plus, Marion OH

Project Issue Information

Issue Name : RTU 2 and RTU 3 excessive airflow noise inside the space.
Description : RTU 2 and RTU 3 excessive airflow noise inside the space.
Created By : National TAB **Assigned To :** National TAB - Will Turnbough
Status : Open
Priority : InfoOnly **Asset Tag :**
Originated Date : 07/04/2024 - Cody Collett - National TAB



07-01-24 Pet Supplies Plus, Marion OH

Project Issue Information

Issue Name :	RTU 2 current imbalance		
Description :	RTU 2 current imbalance Amps 8.71/9.34/9.38		
Created By :	National TAB	Assigned To :	National TAB - Will Turnbough
Status :	Open		
Priority :	High	Asset Tag :	RTU2
Originated Date :	07/03/2024 - Cody Collett - National TAB		



07-01-24 Pet Supplies Plus, Marion OH

Project Issue Information

Issue Name :	RTU 2 duct leakage at unit dropdown within the space.		
Description :	RTU 2 duct leakage at unit dropdown within the space.		
Created By :	National TAB	Assigned To :	National TAB - Will Turnbough
Status :	Open		
Priority :	High	Asset Tag :	RTU2
Originated Date :	07/04/2024 - Cody Collett - National TAB		



07-01-24 Pet Supplies Plus, Marion OH

Project Issue Information

Issue Name : RTU 2 mangled/bent near unit discharge causing leakage.
Description : RTU 2 mangled/bent near unit discharge at the roof curb causing leakage.
Created By : National TAB **Assigned To :** National TAB - Will Turnbough
Status : Open
Priority : High **Asset Tag :** RTU2
Originated Date : 07/04/2024 - Cody Collett - National TAB

Project Issue File Details



07/04/2024



07-01-24 Pet Supplies Plus, Marion OH

Project Issue Information

Issue Name : RTU 2 OA damper will not stay in the same position.
Description : RTU 2 OA damper will not stay in the same position. The single spring bolt for OA damper position selection does not extend far enough through the OA intake hood to properly hold it in place.
Created By : National TAB **Assigned To :** National TAB - Will Turnbough
Status : Open
Priority : High **Asset Tag :**
Originated Date : 07/04/2024 - Cody Collett - National TAB



07-01-24 Pet Supplies Plus, Marion OH

Project Issue Information

Issue Name : RTU 2 power wiring insulation eroded.
Description : RTU 2 power wiring insulation eroded. Visible cracking and yellowing of outer layer of wire insulation for main RTU power. Recommend further evaluation by a qualified electrician.

Created By : National TAB **Assigned To :** National TAB - Will Turnbough

Status : Open

Priority : [Medium](#) **Asset Tag :** RTU2

Originated Date : 07/04/2024 - Cody Collett - National TAB



07-01-24 Pet Supplies Plus, Marion OH

Project Issue Information

Issue Name : RTU 2 unable to meet design cfm
Description : RTU 2 is at max speed close to FLA and can only do 80% of design airflow.
Created By : National TAB **Assigned To :** National TAB - Will Turnbough
Status : Open
Priority : High **Asset Tag :** RTU2
Originated Date : 07/03/2024 - Cody Collett - National TAB

AIR BALANCE SCHEDULE

UNIT	AREA SERVED	HVAC SUPPLY		HVAC RETURN		HVAC OUTDOOR		OA %		HOOD MAKE-UP		HOOD EXHAUST		GENERAL EXH.	
		DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
RTU-1	BOH	2100	2300	1715	1914	385	386	18.3%	16.8%						
RTU-2	SALES	5000	4292	3800	3430	1200	862	24.0%	20.1%						
RTU-3	SALES	4000	3852	3050	2855	950	997	23.8%	25.9%						
EF-1	M. RR													70	56
EF-2	W. RRW													70	58
EF-3	PET AREAS													1220	1117
TOTALS		11100	10444	8565	8199	2535	2245			0	0	0	0	1360	1231

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	2535	2245
TOTAL EXHAUST	1360	1231
NET AIRFLOW	1175	1014

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H2O)
FRONT	-0.02
LOADING	-0.01
REAR	-0.01
AVERAGE	-0.0133

FINAL CHECKS

ACTUAL NET AIRFLOW COINCIDES WITH DESIGN: ✔

MEASURED PRESSURES COINCIDES WITH ACTUAL NET AIRFLOW:

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

NOTES:

CheckList List

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



07/04/2024



07/04/2024



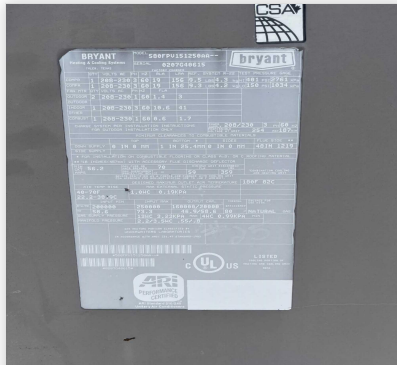
07/04/2024

RTU-2

Comment:



07/04/2024



07/04/2024



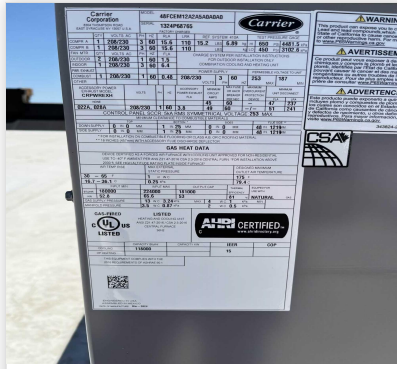
07/04/2024

RTU-3

Comment:



07/04/2024



07/04/2024



07/04/2024

EF-1

N/A

Comment:

EF-2

N/A

Comment:

EF-3

Yes

Comment:



07/04/2024



07/04/2024



07/04/2024



07-01-24 Pet Supplies Plus, Marion OH

CheckList Information

Name : TECH - STEP 1: INITIAL WALKTHROUGH **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 06/27/2024 - Wale Odofin - National TAB

CheckList Item Details

INITIAL SITE WALKTHROUGH

All diffusers and grilles are installed and match design? Yes

Comment:

All hood filters installed and accounted for? N/A

Comment:

Hoods are wired and have power? N/A

Comment:

Hood is free of alarms? N/A

Comment:

Thermostats have power? Yes

Comment:

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

Comment:

Yes



07-01-24 Pet Supplies Plus, Marion OH

CheckList Information

Name : TECH - STEP 2: UNIT DATA AND EVAL. **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 06/27/2024 - Wale Odofin - 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? Yes

Comment:

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

Comment:

Set to allow design OA.

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

Comment:

No enthalpy setting found.

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?

No

Comment:

Installed yes, all turned on no.

Unit free of noticeable noise and vibration

No

Comment:

On roof yes, inside the space no.

EF's

Rotation is correct?

Yes

Comment:

Belts are tight?

Comment:

NA

Grease cup installed on hood fan?

N/A

Comment:

Hinge kit installed installed on hood fan?

N/A

Comment:

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

N/A

Comment:

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

N/A

Comment:

There is no major leakage around base of 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:

Yes

Unit free of noticeable noise and vibration?

Yes

Comment:

MUA

Rotation is correct?

N/A

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?

N/A

Comment:

Unit free of noticeable noise and vibration?

N/A

Comment:

HOODS

Kitchen equipment installed in proper places?

N/A

Comment:

Can kitchen equipment be turned on for final smoke test?

N/A

Comment:

DOCUMENTATION

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

Comment:



07-01-24 Pet Supplies Plus, Marion OH

CheckList Information

Name : TECH - STEP 3: TEST, ADJUST AND BALANCE **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 06/27/2024 - Wale Odofin - National TAB

CheckList Item Details

TEST, ADJUST, AND BALANCE ALL EQUIPMENT:

DURING TESTING MAKE NOTE OF THE FOLLOWING:

Is space free of drafting? Yes

Comment:

Is space comfortable in all areas? No

Comment:

Space is not adequately cooled with RTU's in design totals (with the exception of RTU 2). Humidity in the space was 80%. Very muggy and humid in the space.

Is the space free of ventilation noise? No

Comment:

Excessive noise in the space from RTU 2 and RTU 3.

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

Comment:

NA



07-01-24 Pet Supplies Plus, Marion OH

CheckList Information

Name : TECH - STEP 4: FINAL TESTS **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 06/27/2024 - Wale Odofin - National TAB

CheckList Item Details

FINAL TESTS

HOOD CAPTURE TEST

List equipment turned on for testing

Comment:

NA

List smoke candle type used

Comment:

NA

Smoke test capture - Perimeter of hood

Comment:

NA

Smoke test capture - Top of cooking surface

Comment:

NA

WITNESS

Date test was completed

Comment:

NA

TAB tech name / Firm

Comment:

NA

Site super name / Firm

Comment:

NA

Owner representative name / Firm (if Applicable)

Comment:

NA

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

Comment:

Fire exit -0.01 Loading door -0.01 Front door -0.02

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:

No. RTU 2 totals unable to meet design. Any other reasons unknown at this time.

Thermostats are programmed?

Comment:

Thermostats control the RTU's correctly. No operation scheduling done at this time.

National TAB

Project: 07-01-24 Pet Supplies Plus, Marion OH

System/Unit: AHU/RTU

Asset: RTU1

AREA:

Unit Data		
	Design	Actual
MFG	BRYANT	CARRIER
Serial Num	-	1224C07170
Model Num	580FPV072115	48FCM07A2A5A0A0A0
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	28"x14"
Num Final Filter 1	-	4
Final Filter Size 1	-	16"x16"x2"

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	NL
Motor Rpm	-	NL
Phase	3	3
Rated Voltage	208	208/230
Rated Amperage	-	5.5

Test Data		
	Design	Actual
SF CFM	2100	2300
SF RPM	-	NA
RA CFM	1715	1914
OA CFM	385	386
RL Voltage	-	210/206/209
RL Amperage	-	2.9/3.4/3.6
SF Rotation	-	CCW
SF System SetPt	-	HIGH SPEED 8.71 VDC
RA Damper Position	-	
Min OA Damper Position	-	3.9V
Min OA Damper Type	-	SINGLE BLADE
OA Enthalpy Setpt	-	NA

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.66
Fan Suction SP	-	-1.00"
Fan Discharge SP	-	0.33"
Total ESP	-	0.99"
Fan Total SP	-	1.33"

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

National TAB

Project:07-01-24 Pet Supplies Plus, Marion OH

AHU/RTU

Diffuser Supply (GRD)

RTU1/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	GROOMING	B	8"	140	1.06	281		281	200.7
SGRD2	GROOMING	B	8"	140	1.06	266		266	190.0
SGRD3	BATHING	B	8"	175		167		167	95.4
SGRD4	BATHING	B	8"	170		177		177	104.1
SGRD5	WASH	B	8"	250	1.06	327		327	130.8
SGRD6	WASH	B	8"	280	1.06	188		188	67.1
SGRD7	RESTROOM	B	8"	120		166		166	138.3
SGRD8	RESTROOM	EX	8"	45		62		62	137.8
SGRD9	RESTROOM	EX	NA	275	1.06	198		198	72.0
SGRD10	RESTROOM	B	8"	130		129		129	99.2
SGRD11	RESTROOM	B	6"	45		56		56	124.4
SGRD12	OFFICE	B	8"	200		138		138	69.0
SGRD13	CORRIDOR	B	8"	130		145		145	111.5
Total				2100		2300	0	2300	109.52%



National TAB

Project: 07-01-24 Pet Supplies Plus, Marion OH

System/Unit: AHU/RTU

Asset: RTU2

AREA:SALES

Unit Data		
	Design	Actual
MFG	BRYANT	BRYANT
Serial Num	-	0207G40615
Model Num	580FPV151250AA	580FPV151250AA
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	NA
OA Filter Size 1	-	NA
Num Final Filter 1	-	4
Final Filter Size 1	-	20"x20"x2"

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	-	NL
Motor Rpm	-	1725
Phase	3	3
Rated Voltage	208	208-230/460
Rated Amperage	-	10.3/5.0

Drive Data	
	Actual
Motor Sheave Size	5.25"
Motor Bore Size	0.75"
Motor Sheave SetPt	FULLY CLOSED
Fan Sheave Size	8"
Fan Sheave Bore	1"
Belt CL Distance	
Num of Belts	1
Belt Size	A35

Test Data		
	Design	Actual
SF CFM	5000	4292
SF RPM	-	1075
RA CFM	3800	3430
OA CFM	1200	862
RL Voltage	-	208/210/208
RL Amperage	-	8.71/9.34/9.38
SF Rotation	-	CCW
SF System SetPt	-	100%
RA Damper Position	-	NA
Min OA Damper Position	-	FULL OPEN
Min OA Damper Type	-	Manuel 4 point selection
OA Enthalpy Setpt	-	NA

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.46
Fan Suction SP	-	-0.94"
Fan Discharge SP	-	1.14"
Total ESP	NA	1.6"
Fan Total SP	-	2.08"

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



National TAB

Project:07-01-24 Pet Supplies Plus, Marion OH

AHU/RTU

Diffuser Supply (GRD)

RTU2/SALES

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	SALES	EX	NA	330					-
SGRD2	SALES	EX	NA	330					-
SGRD3	SALES	D	NA	330					-
SGRD4	SALES	EX	NA	330					-
SGRD5	SALES	EX	NA	330					-
SGRD6	SALES	D	NA	355					-
SGRD7	SALES	EX	NA	330					-
SGRD8	SALES	D	NA	355					-
SGRD9	SALES	D	NA	330					-
SGRD10	SALES	EX	NA	355					-
SGRD11	SALES	D	NA	330					-
SGRD12	SALES	D	NA	330					-
SGRD13	SALES	D	NA	330					-
SGRD14	SALES	D	NA	330					-
SGRD15	SALES	EX	NA	330					-
Total				5025		0	0	0	0%



National TAB

Project: 07-01-24 Pet Supplies Plus, Marion OH

System/Unit: AHU/RTU

Asset: RTU3

AREA:SALES

Unit Data		
	Design	Actual
MFG	CARRIER	CARRIER
Serial Num	-	1324P68765
Model Num	48TJE012	48FCEM12A2A50A0A0
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	36"x20"
Num Final Filter 1	-	4
Final Filter Size 1	-	20"x20"x2"
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	NL
Motor Rpm	-	NL
Phase	3	3
Rated Voltage	208	208/230
Rated Amperage	-	6.4

Test Data		
	Design	Actual
SF CFM	4000	3852
SF RPM	-	NA
RA CFM	3050	2855
OA CFM	950	997
RL Voltage	-	207/210/209
RL Amperage	-	6.9/6.8/4.85
SF Rotation	-	CCW
SF System SetPt	-	HIGH SPEED 8.84VDC
RA Damper Position	-	
Min OA Damper Position	-	4.4V
Min OA Damper Type	-	OPPOSED BLADE
OA Enthalpy Setpt	-	NA

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.56
Fan Suction SP	-	-1.18"
Fan Discharge SP	-	0.91"
Total ESP	NA	1.47"
Fan Total SP	-	2.09"

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

Notes:
No enthalpy setpoint available.

Written By: Cody Collett on 07/03/2024

National TAB

Project:07-01-24 Pet Supplies Plus, Marion OH

AHU/RTU

Diffuser Supply (GRD)

RTU3/SALES

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	SALES	EX	NA	320					-
SGRD2	SALES	EX	NA	320					-
SGRD3	SALES	EX	NA	320					-
SGRD4	SALES	EX	NA	320					-
SGRD5	SALES	EX	NA	320					-
SGRD6	SALES	EX	NA	320					-
SGRD7	SALES	EX	NA	320					-
SGRD8	SALES	EX	NA	320					-
SGRD9	SALES	D	NA	320					-
SGRD10	SALES	D	NA	320					-
Total				3200		0	0	0	0%

National TAB

Project: 07-01-24 Pet Supplies Plus, Marion OH

System/Unit: FAN - Exhaust

Asset: EF1

AREA:

Unit Data		
	Design	Actual
MFG	NA	BROAN
Model Num	NA	A80-B
Type	NA	IN-CEILING EXHAUST FAN
Configuration	NA	VERTICAL

Test Data		
	Design	Actual
CFM	70	56

Motor Data		
	Design	Actual
Amperage (rated)	-	0.4



National TAB

Project: 07-01-24 Pet Supplies Plus, Marion OH

System/Unit: FAN - Exhaust

Asset: EF2

AREA:

Unit Data		
	Design	Actual
MFG	NA	BROAN
Model Num	NA	A80-B
Type	NA	IN-CEILING EXHAUST FAN
Configuration	NA	VERTICAL

Test Data		
	Design	Actual
CFM	70	58

Motor Data		
	Design	Actual
Amperage (rated)	-	0.4



National TAB

Project: 07-01-24 Pet Supplies Plus, Marion OH

System/Unit: FAN - Exhaust

Asset: EF3

AREA:

Unit Data		
	Design	Actual
MFG	YORK	COOK
Model Num	EVD16R	135C20D 135 ACE
Serial Num	-	240PL10443 01/0004802
Type	NA	DOWNBLAST
Configuration	NA	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	US MOTORS
Frame	-	48Y
Horsepower	-	1/6
Motor Rpm	-	1100
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	2.2
Service Factor	-	NL

Test Data		
	Design	Actual
CFM	1220	1117
Fan RPM	1725	1075
Fan Rotation	-	CCW
Motor RPM	-	1100
System SetPt	-	100%
RL Voltage	-	NA
RL Amperage	-	2.1
Total ESP	0.35"	0.24"
Fan Inlet SP	-	-0.24"
Fan Discharge SP	-	ATM

National TAB

Project:07-01-24 Pet Supplies Plus, Marion OH

FAN - Exhaust

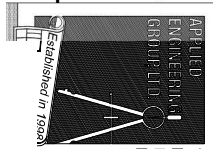
Diffuser Ret/Exh (GRD)

EF3/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	GROOMING	G	12"	500		403		403	80.6
EGRD2	HOLDING	G	12"	400		394		394	98.5
EGRD3	WASH	F	6"	100		118		118	118.0
EGRD4	BACKROOM	F	6"	100		126		126	126.0
EGRD5	BACKROOM	F	6"	120		76		76	63.3
Total				1220		1117	0	1117	91.56%



CONTRACTOR MUST VERIFY CLEARANCES AND DIMENSIONS IN FIELD



7402 East Blvd
Blacklick, OH
Phone: 614.414.4144
Fax: 614.414.4144
www.aegfld.com