

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 PIADA DUBLIN, OH (SAWMILL)

REVIVE

6495 Sawmill Road

Dublin, OH 43017

Client

Piada Italian Street Food
1440 King Ave
Columbus, OH 43212

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Project: 07-01-24 PIADA DUBLIN, OH (SAWMILL) REVIVE

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Issue List

- Dirty MUA Filters
- Economizers Not Functional
- Hood 2 Reading Incomplete
- Missing OA Filters
- Restroom EF's



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Project Issue Information

Issue Name : Dirty MUA Filters
Description : MUA filters are dirty and should be cleaned/replaced immediately. Unit operating below 50% design with filters installed.
Created By : National TAB **Assigned To :** National TAB - Brianna Biggs
Status : Open
Priority : Urgent **Asset Tag :**
Originated Date : 07/03/2024 - Jordan Best - National TAB



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Project Issue Information

Issue Name : Economizers Not Functional
Description : Neither economizer for either RTU is functioning correctly. Both were fully closed upon arrival. Opened manually.
Created By : National TAB **Assigned To :** National TAB - Brianna Biggs
Status : Open
Priority : Urgent **Asset Tag :**
Originated Date : 07/03/2024 - Jordan Best - National TAB



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Project Issue Information

Issue Name : Hood 2 Reading Incomplete
Description : Unable to access all 12 filters for Hood 2 due to a wall and kitchen equipment. Unable to attain airflow for unit.
Created By : National TAB **Assigned To :** National TAB - Brianna Biggs
Status : Open
Priority : Urgent **Asset Tag :**
Originated Date : 07/03/2024 - Jordan Best - National TAB



07-01-24 PIADA DUBLIN, OH (SAWMILL) REVIVE

Project Issue Information

Issue Name : Missing OA Filters
Description : Neither RTU is equipped with an OA filter. Recommend installing ASAP.
Created By : National TAB **Assigned To :** National TAB - Brianna Biggs
Status : Open
Priority : Urgent **Asset Tag :**
Originated Date : 07/03/2024 - Jordan Best - National TAB



07-01-24 PIADA DUBLIN, OH (SAWMILL) REVIVE

Project Issue Information

Issue Name : Restroom EF's
Description : Neither ceiling mounted exhaust fan located in each restroom is functional.
Created By : National TAB **Assigned To :** National TAB - Brianna Biggs
Status : Open
Priority : Urgent **Asset Tag :**
Originated Date : 07/03/2024 - Jordan Best - National TAB

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Project: 07-01-24 PIADA DUBLIN, OH (SAWMILL) REVIVE

System/Unit: AHU/RTU



Asset: RTU1

AREA:

Unit Data		
	Design	Actual
MFG	NA	TRANE
Serial Num	-	114310588D
Model Num	NA	YCD150F3L0AA
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	30"X17"
Num Final Filter 1	-	4
Final Filter Size 1	-	20"X25"X2"

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	-	3
Motor Rpm	-	1725
Phase	-	3
Rated Voltage	-	208
Rated Amperage	-	9.4

Drive Data		
	Design	Actual
Motor Sheave Size	-	4"
Motor Bore Size	-	0.75"
Motor Sheave SetPt	-	5 TURNS OUT
Fan Sheave Size	-	9"
Fan Sheave Bore	-	1"
Belt CL Distance	-	21"
Num of Belts	-	1
Belt Size	-	BX62
Belt Alignment	-	GOOD

Test Data		
	Design	Actual
SF CFM	-	3274
SF RPM	-	725.5
RA CFM	-	1966
OA CFM	1250	1308
RL Voltage	-	211.7/210.4/211.8
RL Amperage	-	5.77/5.07/5.42
SF Rotation	-	CCW
Min OA Damper Position	-	SET MANUALLY
Min OA Damper Type	-	MOTORIZED

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.24"
Fan Suction SP	-	-0.45"
Fan Discharge SP	-	NA
Total ESP	-	NA
Fan Total SP	-	NA

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

Completed By: Jordan Best on 07/03/2024

Notes:

- .Economizer not functional
- .OA damper fully closed upon arrival
- .Dirty blower compartment
- .Missing OA filter
- .Thermostat initially set to 50, Coils frozen upon arrival
- .OA set by propping damper open

Written By: Jordan Best on 07/03/2024

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Project: 07-01-24 PIADA DUBLIN, OH (SAWMILL) REVIVE

System/Unit: AHU/RTU



Asset: RTU2

AREA:

Unit Data		
	Design	Actual
MFG	NA	TRANE
Serial Num	-	NA
Model Num	NA	NA
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	30"X17"
Num Final Filter 1	-	4
Final Filter Size 1	-	20"X25"X2"
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	145T
Horsepower	-	2
Motor Rpm	-	1725
Phase	-	3
Rated Voltage	-	208
Rated Amperage	-	6.3

Drive Data		
	Design	Actual
Motor Sheave Size	-	3"
Motor Bore Size	-	0.75"
Motor Sheave SetPt	-	4 TURNS OUT
Fan Sheave Size	-	AK59X1
Fan Sheave Bore	-	AK59X1
Belt CL Distance	-	12"
Num of Belts	-	1
Belt Size	-	AX35
Belt Alignment	-	GOOD

Test Data		
	Design	Actual
SF CFM	-	3133
SF RPM	-	863
RA CFM	-	2208
OA CFM	850	925
RL Voltage	-	212.5/208.4/211.3
RL Amperage	-	5.03/4.89/5.73
SF Rotation	-	CCW
Min OA Damper Position	-	SET MANUALLY
Min OA Damper Type	-	MOTORIZED

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.43"
Fan Suction SP	-	-0.71"
Fan Discharge SP	-	0.24"
Total ESP	-	0.67"
Fan Total SP	-	0.95"

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

Completed By: Jordan Best on 07/03/2024

Notes:

- .Economizer not functional
- .OA damper fully closed upon arrival
- .Dirty blower compartment
- .Missing OA filter
- .Thermostat initially set to 50
- .OA set by propping damper open

Written By: Jordan Best on 07/03/2024

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Project: 07-01-24 PIADA DUBLIN, OH (SAWMILL) REVIVE

System/Unit: FAN - Exhaust



Asset: EF1

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	NCA24FA	NCA24FA
Serial Num	-	1338140
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	NA
Frame	-	NA
Horsepower	-	2
Motor Rpm	-	NA
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	6
Service Factor	-	NA

Drive Data		
	Design	Actual
Motor Sheave Size	-	4"
Motor Bore Size	-	0.875"
Motor Sheave SetPt	-	3 TURNS OUT
Fan Sheave Size	-	7"
Fan Sheave Bore	-	0.75"
Belt CL Distance	-	8"
Num of Belts	-	2
Belt Size	-	BX31

Test Data		
	Design	Actual
CFM	4350	4004
Fan RPM	809	854
Fan Rotation	-	CCW
Motor RPM	-	1783
RL Voltage	-	192.9/190.7/192.4
RL Amperage	-	3.27/3.24/3.15
Suction ESP	-	-0.39"
Discharge ESP	-	ATM
Total ESP	1.125"	0.39"

Completed By: Jordan Best on 07/03/2024

Notes:
Disconnect switch broken

Written By: Jordan Best on 07/03/2024

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Project: 07-01-24 PIADA DUBLIN, OH (SAWMILL) REVIVE

System/Unit: FAN - Exhaust



Asset: EF2

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	NCA24FA	NCA24FA
Serial Num	-	1338140
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	NA
Frame	-	NA
Horsepower	-	2
Motor Rpm	-	NA
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	NA
Service Factor	-	NA

Drive Data		
	Design	Actual
Motor Sheave Size	-	4"
Motor Bore Size	-	0.875"
Motor Sheave SetPt	-	3 TURNS OUT
Fan Sheave Size	-	7"
Fan Sheave Bore	-	0.75"
Belt CL Distance	-	8"
Num of Belts	-	2
Belt Size	-	BX31

Test Data		
	Design	Actual
CFM	4300	3849
Fan RPM	805	834
Fan Rotation	-	CCW
Motor RPM	-	1774
RL Voltage	-	196.6/197.4/197.3
RL Amperage	-	4.49/4.20/4.43
Suction ESP	-	-0.65"
Discharge ESP	-	ATM
Total ESP	1.125"	0.65"

Completed By: Jordan Best on 07/03/2024

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Project: 07-01-24 PIADA DUBLIN, OH (SAWMILL) REVIVE

System/Unit: FAN - Exhaust



Asset: EF3

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	NCA14HPFA	NCA14HPFA
Serial Num	-	1338140
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	NA
Frame	-	NA
Horsepower	-	0.5
Motor Rpm	-	NA
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	1.8
Service Factor	-	NA

Drive Data		
	Design	Actual
Motor Sheave Size	-	3.75"
Motor Bore Size	-	0.625"
Motor Sheave SetPt	-	6 TURNS OUT
Fan Sheave Size	-	4.75"
Fan Sheave Bore	-	0.75"
Belt CL Distance	-	5.5"
Num of Belts	-	1
Belt Size	-	AX21

Test Data		
	Design	Actual
CFM	1000	1317
Fan RPM	1277	1117
Fan Rotation	-	CCW
Motor RPM	-	1137
RL Voltage	-	165.4/165.2/165.5
RL Amperage	-	1.45/1.44/1.46
Suction ESP	-	-0.34"
Discharge ESP	-	ATM
Total ESP	1.125"	0.34"

Completed By: Jordan Best on 07/03/2024

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Project: 07-01-24 PIADA DUBLIN, OH (SAWMILL) REVIVE



System/Unit: FAN - Supply

Asset: MUA1

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	A4-D.1000-920	A4-D.1000-920
Serial Num	-	NA
Type	MUA	MUA
Configuration	VERTICAL	VERTICAL

Test Data		
	Design	Actual
CFM	-	7115
SF RPM	-	522
Motor RPM	-	1540
RL Voltage	-	NA
RL Amperage	-	NA

Motor Data		
	Design	Actual
Motor MFG	-	NA
Frame	-	NA
Horsepower	-	3
Motor Rpm	-	1730
Phase	-	3
Voltage (rated)	-	208
Amperage (rated)	-	8.7
Service Factor	-	1.15

General		
	Design	Actual
Fan Rotation Correct	-	YES

Drive Data		
	Design	Actual
Motor Sheave Size	-	2VP42X7/8
Motor Bore Size	-	2VP42X7/8
Fan Sheave Size	-	11.625"
Fan Sheave Bore	-	1.375"
Belt CL Distance	-	29"
Num of Belts	-	2
Belt Size	-	BX81
Belt Alignment Verified	-	GOOD

Gas Heat		
	Design	Actual
Heater Operates (y/n)	-	NO
Flame Status (pass/fail)	-	FAIL
Inlet Air Temp SetPt	-	55
Discharge Air Temp SetPt	-	60
Air Flow Switch SP Actual	-	0.15"

Completed By: Jordan Best on 07/03/2024

Notes:
Balanced with filters removed

Written By: Jordan Best on 07/03/2024

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Project: 07-01-24 PIADA DUBLIN, OH (SAWMILL) REVIVE

System/Unit: Kitchen Hood Type I



Asset: HD1

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	6024 NDI-PSP-FB	6024 NDI-PSP-FB
Job / Serial Num	-	NA
Type	TYPE I	TYPE I
Hood length	108"	111"
Hood Width	60"	59"
Supply Plenum Type	-	ACPSP
Supply Plenum Width	-	16"
Supply Plenum Length	-	111"

Test Data Exhaust		
	Design	Actual
Filter Type	BAFFLE	BAFFLE
Filter Size 1	16X16	16X16
Filter Qty 1	12	12
Filter AK factor size 1	1.62	1.62
Filter Total AK Area	-	19.44
Filter1 FPM	-	124
Filter2 FPM	-	160
Filter3 FPM	-	226
Filter4 FPM	-	300
Filter5 FPM	-	240
Filter6 FPM	-	212
Filter7 FPM	-	189
Filter8 FPM	-	218
Filter9 FPM	-	283
Filter10 FPM	-	237
Filter11 FPM	-	168
Filter12 FPM	-	121
Filter Ave FPM(corr)	-	206
CFM	4350	4004

Cooking Equipment		
	Design	Actual
Item 1	-	GRILL
Item 2	-	GRILL
Item 3	-	
Item 4	-	
Item 5	-	

Test Data Supply		
	Design	Actual
Total AK Area	-	24
Kv factor (Vel)	-	0.81
Num of Readings	-	16
Reading1 FPM	-	171
Reading2 FPM	-	144
Reading3 FPM	-	199
Reading4 FPM	-	195
Reading5 FPM	-	177
Reading6 FPM	-	135
Reading7 FPM	-	145
Reading8 FPM	-	143
Reading9 FPM	-	178
Reading10 FPM	-	120
Reading11 FPM	-	154
Reading12 FPM	-	192
Reading13 FPM	-	142
Reading14 FPM	-	110
Ave FPM(corr)	-	150
CFM	-	2916

Completed By: Jordan Best on 07/03/2024

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Project: 07-01-24 PIADA DUBLIN, OH (SAWMILL) REVIVE

System/Unit: Kitchen Hood Type I



Asset: HD2

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	6024NDI-PSP-FB	6024NDI-PSP-FB
Job / Serial Num	-	NA
Type	TYPE I	TYPE I
Hood length	108"	108"
Hood Width	60"	59"
Supply Plenum Type	-	ACPSP
Supply Plenum Width	-	16"
Supply Plenum Length	-	108"

Test Data Supply		
	Design	Actual
Total AK Area	-	24
Kv factor (Vel)	-	0.81
Num of Readings	-	16
Reading1 FPM	-	209
Reading2 FPM	-	139
Reading3 FPM	-	161
Reading4 FPM	-	229
Reading5 FPM	-	239
Reading6 FPM	-	174
Reading7 FPM	-	178
Reading8 FPM	-	214
Reading9 FPM	-	180
Reading10 FPM	-	173
Reading11 FPM	-	220
Reading12 FPM	-	226
Reading13 FPM	-	158
Reading14 FPM	-	159
Ave FPM(corr)	-	189
CFM	-	3674

Test Data Exhaust		
	Design	Actual
Filter Type	BAFFLE	BAFFLE
Filter Size 1	16X16	16X16
Filter Qty 1	6	12
Filter AK factor size 1	1.62	1.62
Filter Total AK Area	9.72	19.44
Filter1 FPM	-	130
Filter2 FPM	-	199
Filter3 FPM	-	239
Filter4 FPM	-	264
Filter5 FPM	-	196
Filter6 FPM	-	160
Filter7 FPM	-	0
Filter8 FPM	-	0
Filter9 FPM	-	0
Filter10 FPM	-	0
Filter11 FPM	-	0
Filter12 FPM	-	0
Filter Ave FPM(corr)	-	198
CFM	4300	3849

Cooking Equipment		
	Design	Actual
Item 1	-	FRYER
Item 2	-	FRYER

Completed By: Jordan Best on 07/03/2024

Notes:

Unable to read all 12 filters due to wall in kitchen and cooking equipment

Written By: Jordan Best on 07/03/2024

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Project: 07-01-24 PIADA DUBLIN, OH (SAWMILL) REVIVE

System/Unit: Kitchen Hood Type I



Asset: HD3

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	5424 ND-2	5424 ND-2
Job / Serial Num	-	NA
Type	TYPE I	TYPE I
Hood length	36"	51"
Hood Width	-	53"
Supply Plenum Type	-	ACPSP
Supply Plenum Width	-	14"
Supply Plenum Length	-	51"

Test Data Supply		
	Design	Actual
Total AK Area	-	4.95
Kv factor (Vel)	-	0.81
Num of Readings	-	4
Reading1 FPM	-	114
Reading2 FPM	-	125
Reading3 FPM	-	155
Reading4 FPM	-	133
Ave FPM(corr)	-	131
CFM	-	525

Test Data Exhaust		
	Design	Actual
Filter Type	BAFFLE	BAFFLE
Filter Size 1	16"X20"	16"X20"
Filter Qty 1	3	3
Filter AK factor size 1	2.08	2.08
Filter Total AK Area	6.24	6.24
Filter1 FPM	-	178
Filter2 FPM	-	170
Filter3 FPM	-	172
Filter Ave FPM(corr)	-	173
CFM	-	1084

Cooking Equipment		
	Design	Actual
Item 1	-	SALAD BAR
Item 2	-	GRILL

Completed By: Jordan Best on 07/03/2024