

Report By:

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



Report: PRELIM
Function: Test, Adjust, & Balance
Date: 01/17/2024

PROJECT
01-15-24 CULVERS CASA GRANDE, AZ
REVIVE

2453 E. Florence Blvd

Casa Grande, AZ 85194

Client

Joseph Wood

CheckList List

- TECH - STEP 1: INITIAL READINGS



01-15-24 CULVERS CASA GRANDE, AZ REVIVE

CheckList Information

Name : TECH - STEP 1: INITIAL READINGS **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 01/15/2024 - Wale Odofin - National TAB

CheckList Item Details

INITIAL BUILDING REVIEW:

What is the initial building pressure before making any changes?

Comment:

-0.0314"

Are thermostats programmed?

Yes

Comment:

Programmed, but for specific circumstances. RTU-1 does not have heating.

Are building pressure relief working properly?

Comment:

Yes

INITIAL AIRFLOWS:

SUPPLY RTU-1

Comment:

5130

OA RTU-1

Comment:

968

SUPPLY RTU-2

Comment:

4708

OA RTU-2

Comment:

0

PRV-1

Comment:

53

PRV-2

Comment:

1444

PRV-3

Comment:

1828

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Project: 01-15-24 CULVERS CASA GRANDE,AZ REVIVE



System/Unit: AHU/RTU

Asset: RTU1

AREA:

Unit Data		
	Design	Actual
MFG	NA	LENNOX
Serial Num	-	5611A02098
Model Num	NA	LGH210H4BH1Y
Type	-	RTU
Configuration	-	VERTICAL
Num OA Filters 1	-	3
OA Filter Size 1	-	23.25X13
Num Final Filter 1	-	6
Final Filter Size 1	-	24X24X2

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR RELIANCE
Frame	-	56HZ
Horsepower	-	3.0
Motor Rpm	-	1725
Phase	-	3
Rated Voltage	-	200-230
Rated Amperage	-	9.6-9.0

Drive Data		
	Design	Actual
Motor Sheave Size	-	3.75"
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	2.5 TURNS OPEN
Fan Sheave Size	-	7"
Fan Sheave Bore	-	1-7/16"
Belt CL Distance	-	20.75"
Num of Belts	-	1
Belt Size	-	BX56
Belt Alignment	-	VERIFIED

Test Data		
	Design	Actual
SF CFM	-	5736
SF RPM	-	878
RA CFM	-	3950
OA CFM	-	1786
RL Voltage	-	210/211/210
RL Amperage	-	9.5/9.1/9.4
SF Rotation	-	CW, CORRECT
RA Damper Position	-	[1]
Min OA Damper Position	-	POTENTIOMETER [1]
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	D

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.41"
Fan Suction SP	-	-0.78"
Fan Discharge SP	-	0.33"
Total ESP	-	0.74"
Fan Total SP	-	1.11"

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

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Project: 01-15-24 CULVERS CASA GRANDE,AZ REVIVE

System/Unit: AHU/RTU



Asset: RTU2

AREA:

Unit Data		
	Design	Actual
MFG	NA	LENNOX
Serial Num	-	5611A02097
Model Num	NA	LGH210H4BH1Y
Type	-	RTU
Configuration	-	VERTICAL
Num OA Filters 1	-	3
OA Filter Size 1	-	23.25X13
Num Final Filter 1	-	6
Final Filter Size 1	-	24X24X2

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR RELIANCE
Frame	-	56HZ
Horsepower	-	3.0
Motor Rpm	-	1725
Phase	-	3
Rated Voltage	-	200-230
Rated Amperage	-	9.6-9.0

Drive Data		
	Design	Actual
Motor Sheave Size	-	3.75"
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	2 TURNS OPEN
Fan Sheave Size	-	7"
Fan Sheave Bore	-	1-7/16"
Belt CL Distance	-	21"
Num of Belts	-	1
Belt Size	-	BX56
Belt Alignment	-	VERIFIED

Test Data		
	Design	Actual
SF CFM	-	6244
SF RPM	-	900
RA CFM	-	4546
OA CFM	-	1698
RL Voltage	-	210/210/210
RL Amperage	-	8.4/7.8/8.4
SF Rotation	-	CCW, CORRECT
RA Damper Position	-	[1]
Min OA Damper Position	-	POTENTIOMETER [1]
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	D

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.51"
Fan Suction SP	-	-0.75"
Fan Discharge SP	-	0.22"
Total ESP	-	0.73"
Fan Total SP	-	0.97"

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

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Project: 01-15-24 CULVERS CASA GRANDE,AZ REVIVE

System/Unit: FAN - Exhaust



Asset: PRV1

AREA:

Unit Data		
	Design	Actual
MFG	NA	ACCUREX
Model Num	NA	XRED-090-D-X
Serial Num	-	123185921012
Type	-	DOWNBLAST
Configuration	-	VERTICAL

Test Data		
	Design	Actual
CFM	-	53
Fan RPM	-	1050
Fan Rotation	-	CORRECT
Motor RPM	-	1050
System SetPt	-	LOW SPEED

Motor Data		
	Design	Actual
Motor MFG	-	MCMILLAN
Horsepower	-	1/15
Motor Rpm	-	1550
Phase	-	1
Voltage (rated)	-	120
Amperage (rated)	-	1.2

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Notes:

FAN IS WIRED TO LOW SPEED, RECOMMEND INCREASING SPEED TO HIGH.

[1] DUCT EXTREMELY DIRTY

[2] NO BACKDRAFT DAMPER INSTALLED.

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Project: 01-15-24 CULVERS CASA GRANDE,AZ REVIVE

System/Unit: FAN - Exhaust



Asset: PRV2

AREA:

Unit Data		
	Design	Actual
MFG	NA	ACCUREX
Model Num	NA	XRUB-161XP-15-G
Serial Num	-	125824721108
Type	-	UPBLAST
Configuration	-	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	BALDRO RELIANCE
Frame	-	145T
Horsepower	-	1.5
Motor Rpm	-	1755
Phase	-	3
Voltage (rated)	-	230
Amperage (rated)	-	4.4
Service Factor	-	1.15

Drive Data		
	Design	Actual
Motor Sheave Size	-	1VP50
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	0 TURNS OPEN
Fan Sheave Size	-	3.5"
Fan Sheave Bore	-	1"
Belt CL Distance	-	6"
Num of Belts	-	1
Belt Size	-	AX25

Test Data		
	Design	Actual
CFM	-	1444
Fan RPM	-	2160
Fan Rotation	-	CW, CORRECT
Motor RPM	-	1543
RL Voltage	-	210/210/210
RL Amperage	-	3.2/3.3/3.2
Suction ESP	-	-1.06"
Discharge ESP	-	ATM
Total ESP	-	1.06"

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Project: 01-15-24 CULVERS CASA GRANDE,AZ REVIVE

System/Unit: FAN - Exhaust



Asset: PRV3

AREA:

Unit Data		
	Design	Actual
MFG	NA	ACCUREX
Model Num	NA	XRUB-141-7-G
Serial Num	-	123185941012
Type	-	UPBLAST
Configuration	-	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	B56
Horsepower	-	0.75
Motor Rpm	-	1740
Phase	-	3
Voltage (rated)	-	208-230
Amperage (rated)	-	2.65-2.40
Service Factor	-	1.25

Drive Data		
	Design	Actual
Motor Sheave Size	-	3"
Motor Bore Size	-	9/16"
Motor Sheave SetPt	-	3.5 TURNS OPEN
Fan Sheave Size	-	3.75"
Fan Sheave Bore	-	0.75"
Belt CL Distance	-	5.5"
Num of Belts	-	1
Belt Size	-	AX25

Test Data		
	Design	Actual
CFM	-	1473
Fan RPM	-	1192
Fan Rotation	-	CW, CORRECT
Motor RPM	-	1768
RL Voltage	-	210/209/210
RL Amperage	-	1.6/1.8/1.8
Suction ESP	-	-0.58"
Discharge ESP	-	ATM
Total ESP	-	0.58"

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Project: 01-15-24 CULVERS CASA GRANDE,AZ REVIVE

System/Unit: Kitchen Hood Type I



Asset: HD1

AREA:

Unit Data		
	Design	Actual
MFG	NA	ACCUREX
Model Num	NA	NL
Type	-	TYPE I LOW PROFILE
Hood length	-	64"
Hood Width	-	23"

Test Data Exhaust		
	Design	Actual
Filter Type	-	GREASE GRABBER
Filter Size 1	-	16X16
Filter Qty 1	-	4
Filter AK factor size 1	-	1.53
Filter Total AK Area	-	6.12
Filter1 FPM	-	223
Filter2 FPM	-	246
Filter3 FPM	-	236
Filter4 FPM	-	239
Filter Ave FPM(corr)	-	236
CFM	-	1444

Cooking Equipment		
	Design	Actual
Item 1	-	GRIDDLE

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Project: 01-15-24 CULVERS CASA GRANDE,AZ REVIVE

System/Unit: Kitchen Hood Type I



Asset: HD2

AREA:

Unit Data		
	Design	Actual
MFG	NA	ACCUREX
Model Num	NA	NL
Type	-	TYPE I LOW PROFILE
Hood length	-	83"
Hood Width	-	23"

Test Data Exhaust		
	Design	Actual
Filter Type	-	X-TRACTOR
Filter Size 1	-	16X16
Filter Qty 1	-	5
Filter AK factor size 1	-	1.53
Filter Total AK Area	-	7.65
Filter1 FPM	-	199
Filter2 FPM	-	176
Filter3 FPM	-	184
Filter4 FPM	-	191
Filter5 FPM	-	213
Filter Ave FPM(corr)	-	192.60
CFM	-	1473

Cooking Equipment		
	Design	Actual
Item 1	-	FRYER

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