

Report By:

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



**Report: TAB REPORT**  
**Function: Test, Adjust, & Balance**  
**Date: 07/31/2023**

**PROJECT**  
**07-24-23 HIGHLAND PLAZA KANSAS CITY,**  
**MO**

973 N.ASH AVENUE,  
KANSAS CITY , MO 64157

Client

Oliphant Heating  
208 WOLLARD BLVD  
RICHMOND, MO

# National TAB

Project: 07-24-23 HIGHLAND PLAZA KANSAS CITY, MO

## Table Of Contents

Section	Page #
AHU/RTU	3
Checklist Data	7

# National TAB

Project: 07-24-23 HIGHLAND PLAZA KANSAS CITY, MO

System/Unit: AHU/RTU



Asset: RTU1

AREA:

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	1023p13686
Model Num	LGH120H4M3Y	LGH120H4M3Y
Type	RTU	
Configuration	VERTICAL	
Num OA Filters 1	-	2
OA Filter Size 1	-	22.5x25
Num Final Filter 1	-	3
Final Filter Size 1	-	18x24x2
Num Final Filter 2	-	3
Final Filter Size 2	-	18x24x2

Motor Data		
	Design	Actual
Motor MFG	-	marathon motors
Frame	-	
Horsepower	-	HZ 60
Motor Rpm	1750	
Phase	3	
Rated Voltage	208	
Rated Amperage	9.2/4.6	

Drive Data		
	Design	Actual
Motor Sheave Size	-	4 1/2
Motor Bore Size	-	1 1/8
Motor Sheave SetPt	-	
Fan Sheave Size	-	9
Fan Sheave Bore	-	1 3/16
Belt CL Distance	-	20 1/2
Num of Belts	-	1
Belt Size	-	ax56
Belt Alignment	-	

Test Data		
	Design	Actual
SF CFM	4000	3790
SF RPM	-	730
RA CFM	3050	2820
OA CFM	950	970
RL Voltage	-	208
RL Amperage	-	4.1
SF Rotation	-	left
RA Damper Position	-	4.5
Min OA Damper Position	-	4.5

Performance Data		
	Design	Actual
MA Plenum SP	-	.29
Fan Suction SP	-	.28
Fan Discharge SP	-	.37
Total ESP	0.4"	.66
Fan Total SP	-	.65

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

Completed By: Kyle Henry on 08/02/2023

# National TAB

Project: 07-24-23 HIGHLAND PLAZA KANSAS CITY, MO

## System/Unit: AHU/RTU



Asset: RTU2

AREA:

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	1023p13683
Model Num	LGH120H4M3Y	LGH120H4M3Y
Type	RTU	
Configuration	VERTICAL	
Num OA Filters 1	-	2
OA Filter Size 1	-	22.5x25
Num Final Filter 1	-	3
Final Filter Size 1	-	18x24x2
Num Final Filter 2	-	3
Final Filter Size 2	-	18x24x2

Motor Data		
	Design	Actual
Motor MFG	-	marathon motors
Frame	-	
Horsepower	HZ 60	
Motor Rpm	1750	
Phase	3	
Rated Voltage	208	
Rated Amperage	9.2/4.6	

Drive Data		
	Design	Actual
Motor Sheave Size	-	4 1/2
Motor Bore Size	-	1 1/8
Motor Sheave SetPt	-	
Fan Sheave Size	-	9
Fan Sheave Bore	-	1 3/16
Belt CL Distance	-	20 1/2
Num of Belts	-	1
Belt Size	-	ax56
Belt Alignment	-	

Test Data		
	Design	Actual
SF CFM	4000	3800
SF RPM	-	750
RA CFM	3050	2826
OA CFM	950	974
RL Voltage	-	208
RL Amperage	-	4.3
SF Rotation	-	left
RA Damper Position	-	4.5
Min OA Damper Position	-	4.5

Performance Data		
	Design	Actual
MA Plenum SP	-	.32
Fan Suction SP	-	.3
Fan Discharge SP	-	.375
Total ESP	0.4"	.677
Fan Total SP	-	.675

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

Completed By: Kyle Henry on 08/02/2023

# National TAB

Project: 07-24-23 HIGHLAND PLAZA KANSAS CITY, MO

## System/Unit: AHU/RTU



Asset: RTU3

AREA:

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	1023p13684
Model Num	LGH120H4M3Y	LGH120H4M3Y
Type	RTU	
Configuration	VERTICAL	
Num OA Filters 1	-	2
OA Filter Size 1	-	22.5x25
Num Final Filter 1	-	3
Final Filter Size 1	-	18x24x2
Num Final Filter 2	-	3
Final Filter Size 2	-	18x24x2

Motor Data		
	Design	Actual
Motor MFG	-	marathon motors
Frame	-	
Horsepower	hz 60	hz 60
Motor Rpm	1750	
Phase	3	
Rated Voltage	208	
Rated Amperage	9.2/4.6	

Drive Data		
	Design	Actual
Motor Sheave Size	-	4 1/2
Motor Bore Size	-	1 1/8
Motor Sheave SetPt	-	
Fan Sheave Size	-	9
Fan Sheave Bore	-	1 3/16
Belt CL Distance	-	20 1/2
Num of Belts	-	1
Belt Size	-	ax56
Belt Alignment	-	

Test Data		
	Design	Actual
SF CFM	4000	3700
SF RPM	-	715
RA CFM	3050	2740
OA CFM	950	960
RL Voltage	-	208
RL Amperage	-	4
SF Rotation	-	left
RA Damper Position	-	4.5
Min OA Damper Position	-	4.5

Performance Data		
	Design	Actual
MA Plenum SP	-	.31
Fan Suction SP	-	.3
Fan Discharge SP	-	.38
Total ESP	0.2"	.69
Fan Total SP	-	.68

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

Completed By: Kyle Henry on 08/02/2023

# National TAB

Project: 07-24-23 HIGHLAND PLAZA KANSAS CITY, MO

## System/Unit: AHU/RTU



Asset: RTU4

AREA:

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	1023p13685
Model Num	LGH120H4M3Y	LGH120H4M3Y
Type	RTU	
Configuration	VERTICAL	
Num OA Filters 1	-	2
OA Filter Size 1	-	22.5x25
Num Final Filter 1	-	3
Final Filter Size 1	-	18x24x2
Num Final Filter 2	-	3
Final Filter Size 2	-	18x24x2

Motor Data		
	Design	Actual
Motor MFG	-	Marathon motors
Frame	-	
Horsepower	Hz 60	
Motor Rpm	1750	
Phase	3	
Rated Voltage	208	
Rated Amperage	9.2/4.6	

Drive Data		
	Design	Actual
Motor Sheave Size	-	4 1/2 in
Motor Bore Size	-	1 1/8 in
Motor Sheave SetPt	-	
Fan Sheave Size	-	9
Fan Sheave Bore	-	1 3/16
Belt CL Distance	-	20 1/2
Num of Belts	-	1
Belt Size	-	Ax56
Belt Alignment	-	

Test Data		
	Design	Actual
SF CFM	4000	3750
SF RPM	1750	708
RA CFM	3050	2785
OA CFM	950	965
RL Voltage	-	208
RL Amperage	-	4.4
SF Rotation	-	Left
RA Damper Position	-	4.5
Min OA Damper Position	-	4.5

Performance Data		
	Design	Actual
MA Plenum SP	-	.3
Fan Suction SP	-	.29
Fan Discharge SP	-	.374
Total ESP	0.2"	.674
Fan Total SP	-	.664

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

Completed By: Kyle Henry on 08/02/2023

## CheckList List

- SITE PICTURES



## 07-24-23 HIGHLAND PLAZA KANSAS CITY, MO

### CheckList Information

**Name :** SITE PICTURES **Status :** Completed

**Assigned Organization :** National TAB **Asset :**

**Requesting Organization :** National TAB

**Created Date :** 07/24/2023 - Wale Odofin - National TAB

**Completed Date :**

### CheckList Item Details

RTU-1

**Comment:**

Total supply cfm at 3790 cfm Adjusted damper to 4.5v to get 970 cfm



**Dataplate**  
07/25/2023

RTU-2

**Comment:**

Total cfm supply reading at 3800 Adjusted damper to 4.5v to get 974 cfm



**Dataplate**  
**07/25/2023**

---

RTU-3

**Comment:**

3700 total supply oa cfm. Adjusted damper to 4.5v to get 960 cfm



**Dataplate**  
**07/25/2023**

---

RTU-4

**Comment:**

Total supply cfm 3750 Adjusted damper to 4.5v to get 965 cfm



**Dataplate**  
**07/25/2023**