Report By:

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

Report: TAB REPORT

Function: Test, Adjust, & Balance

Date: 08/06/2024

PROJECT

07-29-24 REI 017 TUSTIN, CA

2962 El Camino Real

Tustin, CA 92782

Client

Brinco Mechanical Management Services, Inc.

125 South Main St

Freeport, NY 11520

National TAB

Project: 07-29-24 REI 017 TUSTIN, CA

Table Of Contents

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)
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. 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.

CheckList List

- RTU CHECKLIST
- SITE PICTURES

07-29-24 REI 017 TUSTIN, CA

CheckList Information

Name :	RTU CHECKLIST	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	07/26/2024 - Wale Odofin - National TAB		
Completed Date :	08/05/2024 - David Nicolas Sanchez - National TAB		

CheckList Item Details

RTU's/AHU's

Economizers are assembled and functional?

Comment:

All economizer installed. RTU 12 economizer is not functional.

Motors are all operating below the FLA rating?

Comment:

Yes

Are belts tight?

Comment:

Yes

If direct drive unit is the speed controller working.

Comment:

Yes. RTU 13 is direct drive.

Is gas piping installed and valves turned on?

Comment:

Yes.

Unit free of noticeable noise and vibration

Comment:

Yes.

Units are labeled and installed on proper curb

Comment:

Yes.

Unit ductwork properly installed / sealed on curb

Comment:

Yes.

Pulleys are properly aligned

Comment:

Yes.

Condensate lines and P-Traps installed correctly

Comment:

Yes.

Disconnect Switch Installed

Comment:

Yes.

Outside air dampers/Economizers installed and functioning

Comment:

Yes.

Additional Comments or recommendations:

Comment:

None.

Documentation

If issues, have NTAB team and Brinco Management been notified ?

Comment:

Yes.

If any issues, have Facilibuild issues been created explaining in detail?

Comment:

Yes.

Pictures

All Issues

Comment:

Yes.

Each Piece of equipment

Comment:

N/A

Front of store

Comment:

Yes.

Roof Top Layout

Comment:

Yes.

Notes/Comments :

None.

Date :08/05/2024

07-29-24 REI 017 TUSTIN, CA

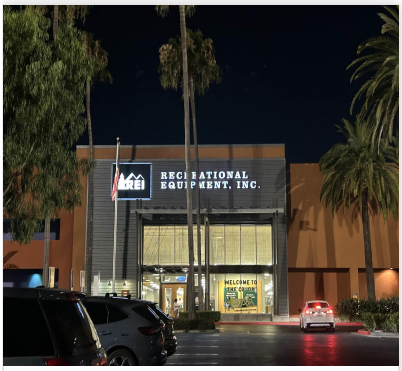
CheckList Information

Name :	SITE PICTURES	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	07/26/2024 - Wale Odofin - National TAB		
Completed Date :	08/05/2024 - David Nicolas Sanchez - National TAB		

CheckList Item Details

STORE FRONT

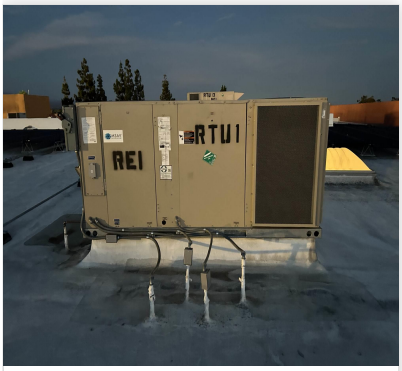
Comment:



08/05/2024

RTU-1

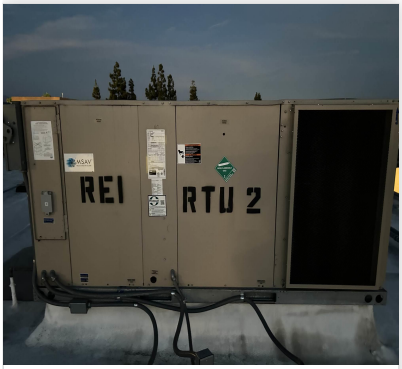
Comment:



08/05/2024

RTU-2

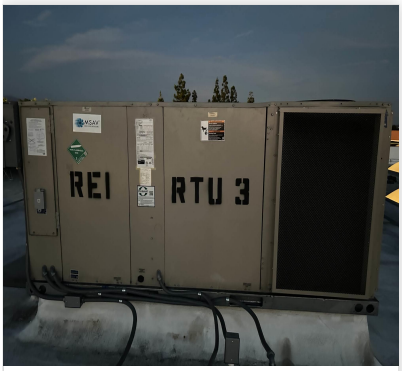
Comment:



08/05/2024

RTU-3

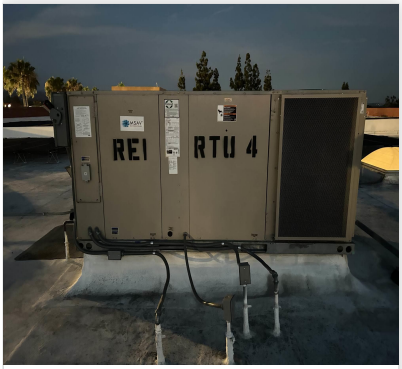
Comment:



08/05/2024

RTU-4

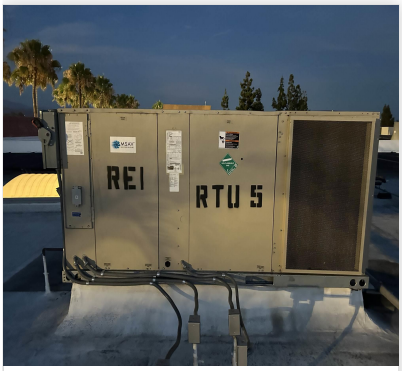
Comment:



08/05/2024

RTU-5

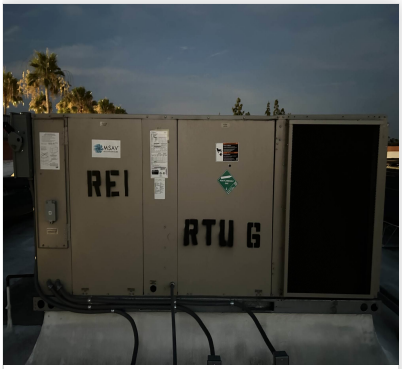
Comment:



08/05/2024

RTU-6

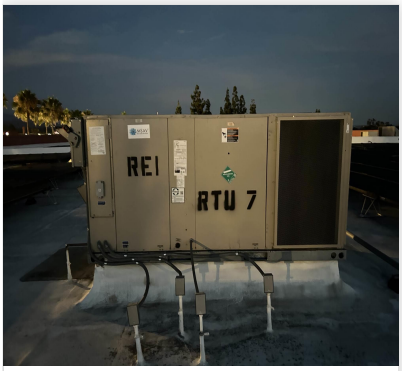
Comment:



08/05/2024

RTU-7

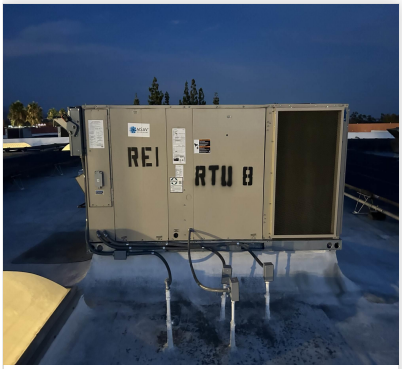
Comment:



08/05/2024

RTU-8

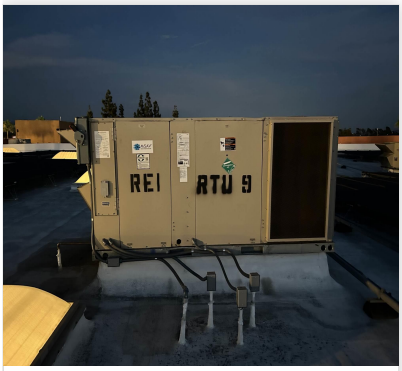
Comment:



08/05/2024

RTU-9

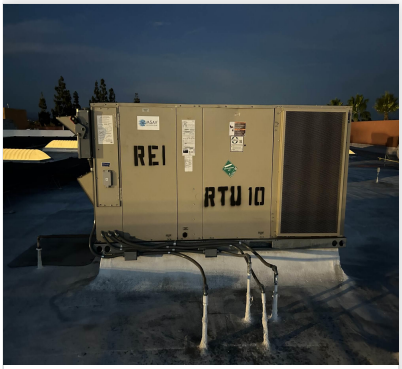
Comment:



08/05/2024

RTU-10

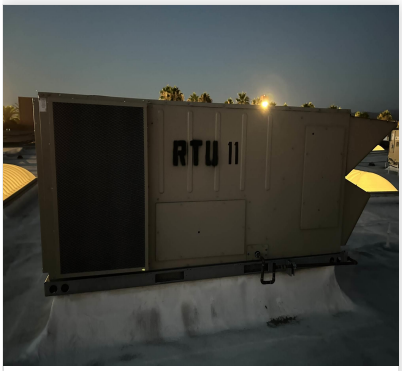
Comment:



08/05/2024

RTU-11

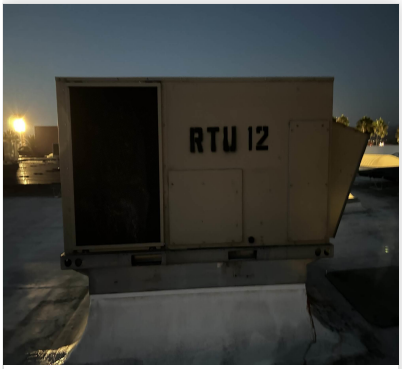
Comment:



08/05/2024

RTU-12

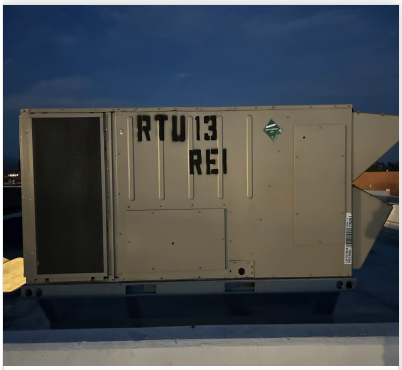
Comment:



08/05/2024

RTU-13

Comment:



08/05/2024

Notes/Comments :

None.

Date :08/05/2024

National TAB

Project: 07-29-24 REI 017 TUSTIN, CA

System/Unit: AHU/RTU

Asset: RTU1 AREA:

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5623M07284
Model Num	KHB122H4E	KHC120S4MN1G
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	15.5X25
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	**Actual**
Motor MFG	-	INTERLINK
Frame	-	56HZ
Horsepower	-	3
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	4.0

Drive Data	
	Actual
Motor Sheave Size	4-1/8”
Motor Bore Size	7/8”
Motor Sheave SetPt	1/2 TURNS OPENED
Fan Sheave Size	6”
Fan Sheave Bore	1”
Belt CL Distance	21-1/2”
Num of Belts	1
Belt Size	AX58
Belt Alignment	VERIFIED

Test Data		
	Design	**Actual**
SF CFM	4000	3805
SF RPM	-	771
RA CFM	3400	3210
OA CFM	600	594
RL Voltage	-	487/486/486
RL Amperage	-	3.34/3.32/3.30
SF Rotation	-	CCW
SF System SetPt	-	
RA Damper Position	-	72%
Min OA Damper Position	-	28%
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	22BTU

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.29”
Fan Suction SP	-	-0.51”
Fan Discharge SP	-	0.64”
Total ESP	1.0	0.93”
Fan Total SP	1.34	1.15”

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

Completed By: David Nicolas Sanchez on 08/01/2024

Notes:
Cooling mode not functional.

Written By: David Nicolas Sanchez on 08/01/2024

National TAB

Project: 07-29-24 REI 017 TUSTIN, CA

System/Unit: AHU/RTU

Asset: RTU2 AREA:

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5623M07285
Model Num	KHB122H4E	KHC120S4MN1G
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	15.5X25
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	**Actual**
Motor MFG	-	INTERLINK
Frame	-	56HZ
Horsepower	-	3
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	4.0

Drive Data	
	Actual
Motor Sheave Size	4-1/8”
Motor Bore Size	7/8”
Motor Sheave SetPt	1 turn open
Fan Sheave Size	6”
Fan Sheave Bore	1”
Belt CL Distance	21-1/2”
Num of Belts	1
Belt Size	AX58
Belt Alignment	VERIFIED

Test Data		
	Design	**Actual**
SF CFM	4000	3666
SF RPM	-	725
RA CFM	3400	3036
OA CFM	600	630
RL Voltage	-	485/486/485
RL Amperage	-	3.17/3.20/3.25
SF Rotation	-	CCW
SF System SetPt	-	
RA Damper Position	-	68%
Min OA Damper Position	-	32%
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	22BTU

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.26”
Fan Suction SP	-	-0.52”
Fan Discharge SP	-	0.52”
Total ESP	1.00	0.78”
Fan Total SP	1.34	1.04”

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

Completed By: David Nicolas Sanchez on 07/29/2024

National TAB

Project: 07-29-24 REI 017 TUSTIN, CA

System/Unit: AHU/RTU

Asset: RTU3 AREA:

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5624A01366
Model Num	KHB122H4E	KHC120S4MN1G
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	15.5X25
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	**Actual**
Motor MFG	-	INTERLINK
Frame	-	56HZ
Horsepower	-	3
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	4.0

Drive Data	
	Actual
Motor Sheave Size	4-1/8”
Motor Bore Size	7/8”
Motor Sheave SetPt	1 TURN OPEN
Fan Sheave Size	6”
Fan Sheave Bore	1”
Belt CL Distance	21-1/2”
Num of Belts	1
Belt Size	AX58
Belt Alignment	VERIFIED

Test Data		
	Design	**Actual**
SF CFM	4000	0
SF RPM	-	0
RA CFM	3400	0
OA CFM	600	0
RL Voltage	-	0
RL Amperage	-	0
SF Rotation	-	0
SF System SetPt	-	0
RA Damper Position	-	0
Min OA Damper Position	-	0
Min OA Damper Type	-	0
OA Enthalpy Setpt	-	0

Performance Data		
	Design	**Actual**
MA Plenum SP	-	0
Fan Suction SP	-	0
Fan Discharge SP	-	0
Total ESP	1.00	0
Fan Total SP	1.34	0

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

Completed By: David Nicolas Sanchez on 08/05/2024

Notes:
Unit has no power. Unable to adjust airflow.

Written By: David Nicolas Sanchez on 07/30/2024

National TAB

Project: 07-29-24 REI 017 TUSTIN, CA

System/Unit: AHU/RTU

Asset: RTU4 AREA:

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5624A01367
Model Num	KHB122H4E	KHC120S4MN1G
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	15.5X25
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	**Actual**
Motor MFG	-	INTERLINK
Frame	-	56HZ
Horsepower	-	3
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	4.0

Drive Data	
	Actual
Motor Sheave Size	4-1/8”
Motor Bore Size	7/8”
Motor Sheave SetPt	2 TURNS OPENED
Fan Sheave Size	6”
Fan Sheave Bore	1”
Belt CL Distance	21-1/2”
Num of Belts	1
Belt Size	AX58
Belt Alignment	VERIFIED

Test Data		
	Design	**Actual**
SF CFM	4000	4157
SF RPM	-	844
RA CFM	3400	3500
OA CFM	600	657
RL Voltage	-	486/486/487
RL Amperage	-	3.90/3.75/3.75
SF Rotation	-	CCW
SF System SetPt	-	
RA Damper Position	-	74%
Min OA Damper Position	-	26%
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	22BTU

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.33”
Fan Suction SP	-	-0.56”
Fan Discharge SP	-	0.47”
Total ESP	1.00"	0.80”
Fan Total SP	1.34"	1.03”

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

Completed By: David Nicolas Sanchez on 07/30/2024

Notes:
Cooling mode not functional.

Written By: David Nicolas Sanchez on 07/31/2024

National TAB

Project: 07-29-24 REI 017 TUSTIN, CA

System/Unit: AHU/RTU

Asset: RTU5 AREA:

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5624A01364
Model Num	KHB122H4E	KHC120S4MN1G
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	15.5X25
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	**Actual**
Motor MFG	-	INTERLINK
Frame	-	56HZ
Horsepower	-	3
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	4.0

Drive Data	
	Actual
Motor Sheave Size	4-1/8”
Motor Bore Size	7/8”
Motor Sheave SetPt	1/2 TURNS OPENED
Fan Sheave Size	6”
Fan Sheave Bore	1”
Belt CL Distance	21-1/2”
Num of Belts	1
Belt Size	AX58
Belt Alignment	VERIFIED

Test Data		
	Design	**Actual**
SF CFM	4000	3794
SF RPM	-	702
RA CFM	3400	3202
OA CFM	600	594
RL Voltage	-	480/482/480
RL Amperage	-	3.33/3.30/3.27
SF Rotation	-	CCW
SF System SetPt	-	
RA Damper Position	-	85%
Min OA Damper Position	-	15%
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	22BTU

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.27”
Fan Suction SP	-	-0.63”
Fan Discharge SP	-	0.33”
Total ESP	1.00"	0.66”
Fan Total SP	1.34"	0.96”

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

Completed By: David Nicolas Sanchez on 07/31/2024

National TAB

Project: 07-29-24 REI 017 TUSTIN, CA

System/Unit: AHU/RTU

Asset: RTU6 AREA:

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5624A01363
Model Num	KHB122H4E	KBC120S4MN1G
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	15.5X25
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	**Actual**
Motor MFG	-	INTERLINK
Frame	-	56HZ
Horsepower	-	3
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	4.0

Drive Data	
	Actual
Motor Sheave Size	4-1/8”
Motor Bore Size	7/8”
Motor Sheave SetPt	1/2 TURNS OPENED
Fan Sheave Size	6”
Fan Sheave Bore	1”
Belt CL Distance	21-1/2”
Num of Belts	1
Belt Size	AX58
Belt Alignment	VERIFIED

Test Data		
	Design	**Actual**
SF CFM	4000	3,773
SF RPM	-	722
RA CFM	3400	3188
OA CFM	600	585
RL Voltage	-	480/481/480
RL Amperage	-	3.35/3.30/3.31
SF Rotation	-	CCW
SF System SetPt	-	
RA Damper Position	-	74%
Min OA Damper Position	-	26%
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	22BTU

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.29”
Fan Suction SP	-	-0.64”
Fan Discharge SP	-	0.40”
Total ESP	1.00	0.69”
Fan Total SP	1.34"	1.04”

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

Completed By: David Nicolas Sanchez on 07/31/2024

National TAB

Project: 07-29-24 REI 017 TUSTIN, CA

System/Unit: AHU/RTU

Asset: RTU7 AREA:

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5624A01365
Model Num	KHB122H4E	KHC120S4MN1G
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	15.5X25
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	**Actual**
Motor MFG	-	INTERLINK
Frame	-	56HZ
Horsepower	-	3
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	4.0

Drive Data	
	Actual
Motor Sheave Size	4-1/8”
Motor Bore Size	7/8”
Motor Sheave SetPt	1/2 TURNS OPENED
Fan Sheave Size	6”
Fan Sheave Bore	1”
Belt CL Distance	21-1/2”
Num of Belts	1
Belt Size	AX58
Belt Alignment	VERIFIED

Test Data		
	Design	**Actual**
SF CFM	4000	3847
SF RPM	-	628
RA CFM	3400	3217
OA CFM	600	630
RL Voltage	-	481/481/482
RL Amperage	-	2.93/2.93/2.87
SF Rotation	-	CCW
SF System SetPt	-	
RA Damper Position	-	80%
Min OA Damper Position	-	20%
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	22BTU

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.30”
Fan Suction SP	-	-0.45
Fan Discharge SP	-	0.27”
Total ESP	1.00"	0.57”
Fan Total SP	1.34"	0.72”

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

Completed By: David Nicolas Sanchez on 07/31/2024

Notes:
Cooling mode not functional.

Written By: David Nicolas Sanchez on 07/31/2024

National TAB

Project: 07-29-24 REI 017 TUSTIN, CA

System/Unit: AHU/RTU

Asset: RTU8 AREA:

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5624A01369
Model Num	KHB122H4E	KHC120S4MN1G
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	15.5X25
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	**Actual**
Motor MFG	-	INTERLINK
Frame	-	56HZ
Horsepower	-	3
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	4.0

Drive Data	
	Actual
Motor Sheave Size	4-1/8”
Motor Bore Size	7/8”
Motor Sheave SetPt	1/2 TURNS OPENED
Fan Sheave Size	6”
Fan Sheave Bore	1”
Belt CL Distance	21-1/2”
Num of Belts	1
Belt Size	AX58
Belt Alignment	VERIFIED

Test Data		
	Design	**Actual**
SF CFM	4000	3866
SF RPM	-	702
RA CFM	3400	3227
OA CFM	600	639
RL Voltage	-	483/484/483
RL Amperage	-	3.13/3.03/3.03
SF Rotation	-	CCW
SF System SetPt	-	
RA Damper Position	-	81%
Min OA Damper Position	-	19%
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	22BTU

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.32”
Fan Suction SP	-	-0.59”
Fan Discharge SP	-	0.34”
Total ESP	1.00"	0.66”
Fan Total SP	1.34"	0.93”

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

Completed By: David Nicolas Sanchez on 07/31/2024

Notes:
Cooling mode not functional.

Written By: David Nicolas Sanchez on 07/31/2024

National TAB

Project: 07-29-24 REI 017 TUSTIN, CA

System/Unit: AHU/RTU

Asset: RTU9 AREA:

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5624A01362
Model Num	KHB122H4E	KHC120S4MN1G
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	15.5X25
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	**Actual**
Motor MFG	-	INTERLINK
Frame	-	56HZ
Horsepower	-	3
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	4.0

Drive Data	
	Actual
Motor Sheave Size	4-1/8”
Motor Bore Size	7/8”
Motor Sheave SetPt	0 TURNS OPENED
Fan Sheave Size	6”
Fan Sheave Bore	1”
Belt CL Distance	21-1/2”
Num of Belts	1
Belt Size	AX58
Belt Alignment	VERIFIED

Test Data		
	Design	**Actual**
SF CFM	4000	3969
SF RPM	-	713
RA CFM	3400	3397
OA CFM	600	572
RL Voltage	-	483/484/483
RL Amperage	-	3.45/3.43/3.41
SF Rotation	-	CCW
SF System SetPt	-	
RA Damper Position	-	87%
Min OA Damper Position	-	13%
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	22BTU

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.40”
Fan Suction SP	-	-0.64”
Fan Discharge SP	-	0.34”
Total ESP	1.00	0.74”
Fan Total SP	1.34"	0.98”

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

Completed By: David Nicolas Sanchez on 08/01/2024

National TAB

Project: 07-29-24 REI 017 TUSTIN, CA

System/Unit: AHU/RTU

Asset: RTU10 AREA:

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5624A01368
Model Num	KHB122H4E	KHC120S4MN1G
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	15.5X25
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	**Actual**
Motor MFG	-	INTERLINK
Frame	-	56HZ
Horsepower	-	3
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	4.0

Drive Data	
	Actual
Motor Sheave Size	4-1/8”
Motor Bore Size	7/8”
Motor Sheave SetPt	0 TURNS OPENED
Fan Sheave Size	6”
Fan Sheave Bore	1”
Belt CL Distance	21-1/2”
Num of Belts	1
Belt Size	AX58
Belt Alignment	VERIFIED

Test Data		
	Design	**Actual**
SF CFM	4000	3768
SF RPM	-	816
RA CFM	3400	3165
OA CFM	600	603
RL Voltage	-	488/488/487
RL Amperage	-	3.75/3.75/3.74
SF Rotation	-	CCW
SF System SetPt	-	
RA Damper Position	-	82%
Min OA Damper Position	-	18%
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	22BTU

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.36”
Fan Suction SP	-	-0.64”
Fan Discharge SP	-	0.60”
Total ESP	1.00"	0.96”
Fan Total SP	1.34"	1.24”

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

Completed By: David Nicolas Sanchez on 08/01/2024

Notes:
Cooling mode not functional.

Written By: David Nicolas Sanchez on 08/01/2024

National TAB

Project: 07-29-24 REI 017 TUSTIN, CA

System/Unit: AHU/RTU

Asset: RTU11 AREA:

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5623M07286
Model Num	KHB122H4E	KHC120S4MN1G
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	15.5X25
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	**Actual**
Motor MFG	-	INTERLINK
Frame	-	56HZ
Horsepower	-	3
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	4.0

Drive Data	
	Actual
Motor Sheave Size	4-1/8”
Motor Bore Size	7/8”
Motor Sheave SetPt	1/2 TURNS OPENED
Fan Sheave Size	6”
Fan Sheave Bore	1”
Belt CL Distance	21-1/2”
Num of Belts	1
Belt Size	AX58
Belt Alignment	VERIFIED

Test Data		
	Design	**Actual**
SF CFM	4000	3658
SF RPM	-	627
RA CFM	3400	3002
OA CFM	600	656
RL Voltage	-	484/484/485
RL Amperage	-	2.87/2.86/2.86
SF Rotation	-	CCW
SF System SetPt	-	
RA Damper Position	-	83%
Min OA Damper Position	-	17%
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	22BTU

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.45”
Fan Suction SP	-	-0.56”
Fan Discharge SP	-	0.21”
Total ESP	1.00"	0.66”
Fan Total SP	1.34"	0.77”

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

Completed By: David Nicolas Sanchez on 08/01/2024

Notes:
Cooling mode not functional.

Written By: David Nicolas Sanchez on 08/01/2024

National TAB

Project: 07-29-24 REI 017 TUSTIN, CA

System/Unit: AHU/RTU

Asset: RTU12 AREA:

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5623J04644
Model Num	KHB074S4T	KHB060S4BN1G
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	15X30
Num Final Filter 1	-	4
Final Filter Size 1	-	20X20X2

Motor Data		
	Design	**Actual**
Motor MFG	-	INTERLINK
Frame	-	56HZ
Horsepower	-	1.0
Motor Rpm	-	1760
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	1.4

Drive Data	
	Actual
Motor Sheave Size	3.75”
Motor Bore Size	1”
Motor Sheave SetPt	1/2 TURNES OPENED
Fan Sheave Size	4”
Fan Sheave Bore	1”
Belt CL Distance	15-1/2”
Num of Belts	1
Belt Size	AX40
Belt Alignment	VERIFIED

Test Data		
	Design	**Actual**
SF CFM	2092	
SF RPM	-	771
RA CFM	1778	
OA CFM	314	
RL Voltage	-	481/480/480
RL Amperage	-	1.32/1.34/1.30
SF Rotation	-	CW
RA Damper Position	-	100%
Min OA Damper Position	-	0%
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	22BTU

Performance Data		
	Design	**Actual**
MA Plenum SP	-	0.34"
Fan Suction SP	-	0.58"
Fan Discharge SP	-	0.42"
Total ESP	0.75"	0.76"
Fan Total SP	0.85	1.00"

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

Notes:
Economizer not functional. Unable to perform test and balance.

Written By: David Nicolas Sanchez on 08/01/2024

National TAB

Project: 07-29-24 REI 017 TUSTIN, CA

System/Unit: AHU/RTU

Asset: RTU13 AREA:

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5623L05083
Model Num	KHB074S4T	LHT078H4EN1G
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	15.5X25
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	3.8
Motor Rpm	-	NL
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	4.3

Drive Data	
	Actual
Motor Sheave Size	DD
Motor Bore Size	DD
Motor Sheave SetPt	DD
Fan Sheave Size	DD
Fan Sheave Bore	DD
Belt CL Distance	DD
Num of Belts	DD
Belt Size	DD
Belt Alignment	DD

Test Data		
	Design	**Actual**
SF CFM	2400	2372
SF RPM	-	700
RA CFM	2040	1982
OA CFM	360	390
RL Voltage	-	490/491/490
RL Amperage	-	0.61/0.62/0.64
SF Rotation	-	CCW
SF System SetPt	-	40%
RA Damper Position	-	70%
Min OA Damper Position	-	30%
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	NA

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.12"
Fan Suction SP	-	-0.23"
Fan Discharge SP	-	0.23"
Total ESP	1.00	0.35”
Fan Total SP	1.12	0.46”

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

Completed By: David Nicolas Sanchez on 08/01/2024