

**Report By:**

National TAB  
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**Report: PRELIMINARY REPORT**  
**Function: Test, Adjust, & Balance**  
**Date: 04/10/2024**

**PROJECT**  
**04-01-24 CHUY'S - MUELLER, TX**

971 Farmington Ave

West Hartford, CT 06107

**Client**

CORNERSTONE COMMERCIAL  
PO BOX 703568  
DALLAS, TX 75370

# National TAB

Project: 04-01-24 CHUY'S - MUELLER, TX

System/Unit: AHU/RTU



Asset: AHU1

AREA:

Unit Data		
	Design	Actual
MFG	GOODMAN	U.S. ALUMACOIL
Serial Num	-	
Model Num	ASPT61D14	ASPT61D14
Type	AHU	AHU
Configuration	VERTICAL	HORIZONTAL
Num OA Filters 1	-	N/A
OA Filter Size 1	-	N/A
Num Final Filter 1	-	1
Final Filter Size 1	-	20X25X1

Motor Data		
	Design	Actual
Horsepower	1.0	1.0
Phase	1	1
Rated Voltage	208	208/240
Rated Amperage	-	6.9

Drive Data		
	Design	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	1600	
SF RPM	-	SPEED TAB
RA CFM	1200	
OA CFM	400	
RL Voltage	-	
RL Amperage	-	
SF Rotation	-	CORRECT
RA Damper Position	-	OPEN
Min OA Damper Position	-	
Min OA Damper Type	-	MANUAL VOLUME DAMPER

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.8"	
Fan Total SP	-	

General		
	Design	Actual
Fan Rotation Correct	-	YES
Unit Filters Clean	-	NO
Condensate Drain Installed	-	YES

# National TAB

Project:04-01-24 CHUY'S - MUELLER, TX

## AHU/RTU



**Diffuser Supply (GRD)**

**AHU1/**

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
AHU1-SGRD1	DINING	B	10"	200					-
AHU1-SGRD2	DINING	B	10"	200					-
AHU1-SGRD3	DINING	B	10"	300					-
AHU1-SGRD4	DINING	B	8"	200					-
AHU1-SGRD5	DINING	D	10"	350					-
AHU1-SGRD6	DINING	C	8"	200					-
AHU1-SGRD7	DINING	F	8"	150					-
Total				1600		0	0	0	0%

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Project: 04-01-24 CHUY'S - MUELLER, TX

System/Unit: AHU/RTU



Asset: AHU2

AREA:

Unit Data		
	Design	Actual
MFG	GOODMAN	U.S. ALUMACOIL
Serial Num	-	
Model Num	ASPT61D14	ASPT61D14
Type	AHU	AHU
Configuration	VERTICAL	HORIZONTAL
Num OA Filters 1	-	N/A
OA Filter Size 1	-	N/A
Num Final Filter 1	-	1
Final Filter Size 1	-	20X25X1

Motor Data		
	Design	Actual
Horsepower	1.0	1.0
Phase	1	1
Rated Voltage	208	208/240
Rated Amperage	6.9	6.9

Drive Data		
	Design	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	1600	
SF RPM	-	SPEED TAB
RA CFM	1200	
OA CFM	400	
RL Voltage	-	
RL Amperage	-	
SF Rotation	-	CORRECT
RA Damper Position	-	OPEN
Min OA Damper Position	-	
Min OA Damper Type	-	MANUAL VOLUME DAMPER

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.8"	
Fan Total SP	-	

General		
	Design	Actual
Fan Rotation Correct	-	YES
Unit Filters Clean	-	NO
Condensate Drain Installed	-	YES

# National TAB

Project:04-01-24 CHUY'S - MUELLER, TX

## AHU/RTU



**Diffuser Supply (GRD)**

**AHU2/**

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
AHU2-SGRD1	KITCHEN	D	12"	525					-
AHU2-SGRD2	KITCHEN	D	14"	525					-
AHU2-SGRD3	KITCHEN	D	14"	550					-
Total				1600		0	0	0	0%

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Project: 04-01-24 CHUY'S - MUELLER, TX

## System/Unit: AHU/RTU



Asset: AHU3

AREA:

Unit Data		
	Design	Actual
MFG	GOODMAN	U.S. ALUMACOIL
Serial Num	-	2308174619
Model Num	ASPT61D14	AMST60DU1400AA
Type	AHU	AHU
Configuration	VERTICAL	HORIZONTAL
Num OA Filters 1	-	NA
OA Filter Size 1	-	NA
Num Final Filter 1	-	1
Final Filter Size 1	-	20X25X1

Motor Data		
	Design	Actual
Horsepower	1.0	1.0
Phase	1	1
Rated Voltage	208	208/240
Rated Amperage	6.9	6.9

Drive Data		
	Design	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	1600	
SF RPM	-	SPEED TAP 5
RA CFM	1200	
OA CFM	400	
RL Voltage	-	210
RL Amperage	-	3.5
SF Rotation	-	CORRECT
RA Damper Position	-	
Min OA Damper Position	-	
Min OA Damper Type	-	MANUAL VOLUME DAMPER

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.8"	
Fan Total SP	-	

General		
	Design	Actual
Fan Rotation Correct	-	YES
Unit Filters Clean	-	NO
Condensate Drain Installed	-	YES

# National TAB

Project:04-01-24 CHUY'S - MUELLER, TX

## AHU/RTU



**Diffuser Supply (GRD)**

**AHU3/**

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
AHU3-SGRD1	DINING	D	12"	525					-
AHU3-SGRD2	DINING	D	12"	550					-
AHU3-SGRD3	DINING	D	12"	525					-
Total				1600		0	0	0	0%

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Project: 04-01-24 CHUY'S - MUELLER, TX

## System/Unit: AHU/RTU



Asset: AHU4

AREA:

Unit Data		
	Design	Actual
MFG	GOODMAN	U.S. ALUMACOIL
Serial Num	-	2308174606
Model Num	ASPT61D14	AMST60DU1400AA
Type	AHU	AHU
Configuration	VERTICAL	HORIZONTAL
Num OA Filters 1	-	N/A
OA Filter Size 1	-	N/A
Num Final Filter 1	-	1
Final Filter Size 1	-	20X25X1

Motor Data		
	Design	Actual
Horsepower	1.0	1.0
Phase	1	1
Rated Voltage	208	208/240
Rated Amperage	-	6.9

Drive Data		
	Design	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	1600	1603
SF RPM	-	SPEED TAP 5
RA CFM	1200	1168
OA CFM	400	435
RL Voltage	-	210
RL Amperage	-	3.4
SF Rotation	-	CORRECT
RA Damper Position	-	OPEN
Min OA Damper Position	-	HALF CLOSED
Min OA Damper Type	-	MANUAL VOLUME DAMPER

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.13"
Fan Suction SP	-	-0.55"
Fan Discharge SP	-	0.18"
Total ESP	0.8"	0.31"
Fan Total SP	-	0.73"

General		
	Design	Actual
Fan Rotation Correct	-	YES
Unit Filters Clean	-	NO
Condensate Drain Installed	-	YES

Completed By: Stephen Tassinaro on 04/09/2024

Notes:

FINAL FILTER REMOVED FOR TESTING AS IT WAS DAMAGED AND PULLED INTO THE EVAPORATOR COIL.

Written By: Stephen Tassinaro on 04/09/2024

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Project:04-01-24 CHUY'S - MUELLER, TX

## AHU/RTU



**Diffuser Supply (GRD)**

**AHU4/**

<b>Asset</b>									
<b>Asset Name</b>	<b>Location</b>	<b>Type</b>	<b>Size</b>	<b>DESIGN CFM</b>	<b>AK</b>	<b>CFM(1)</b>	<b>CFM(2)</b>	<b>FINAL CFM</b>	<b>% to design</b>
AHU4-SGRD1	DINING	B	12"	400	1	524	387	393	98.3
AHU4-SGRD2	DINING	A	12"	600	1	173	491	613	102.2
AHU4-SGRD3	DINING	A	12"	600	1	585	464	597	99.5
<b>Total</b>				1600		1282	1342	1603	100.19%

Completed By: Stephen Tassinaro on 04/09/2024

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Project: 04-01-24 CHUY'S - MUELLER, TX

## System/Unit: AHU/RTU



Asset: AHU5

AREA:

Unit Data		
	Design	Actual
MFG	GOODMAN	U.S. ALUMACOIL
Serial Num	-	2308174603
Model Num	ASPT61D14	AMST60DU1400AA
Type	AHU	AHU
Configuration	VERTICAL	HORIZONTAL
Num OA Filters 1	-	N/A
OA Filter Size 1	-	N/A
Num Final Filter 1	-	1
Final Filter Size 1	-	20X25X1

Motor Data		
	Design	Actual
Horsepower	1.0	1.0
Phase	1	
Rated Voltage	208	208/240
Rated Amperage	-	6.9

Drive Data		
	Design	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	1600	1621
SF RPM	-	SPEED TAP 4
RA CFM	1200	1195
OA CFM	400	426
RL Voltage	-	NOT ACCESSIBLE
RL Amperage	-	-
SF Rotation	-	CORRECT
RA Damper Position	-	OPEN
Min OA Damper Position	-	HALF CLOSED
Min OA Damper Type	-	MANUAL VOLUME DAMPER

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.8"	
Fan Total SP	-	

General		
	Design	Actual
Fan Rotation Correct	-	YES
Unit Filters Clean	-	NO
Condensate Drain Installed	-	YES

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## AHU/RTU



**Diffuser Supply (GRD)**

**AHU5/**

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
AHU5-SGRD1	DINING	A	12"	525	1	570	570	570	108.6
AHU5-SGRD2	DINING	A	12"	525	1	602	602	602	114.7
AHU5-SGRD3	DINING	A	12"	550	1	449	449	449	81.6
Total				1600		1621	1621	1621	101.31%

Completed By: Stephen Tassinaro on 04/09/2024

# National TAB

Project: 04-01-24 CHUY'S - MUELLER, TX

## System/Unit: AHU/RTU



Asset: AHU6

AREA:

Unit Data		
	Design	Actual
MFG	GOODMAN	U.S. ALUMACOIL
Serial Num	-	230874602
Model Num	ASPT61D14	AMST60DU1400AA
Type	AHU	AHU
Configuration	VERTICAL	HORIZONTAL
Num OA Filters 1	-	N/A
OA Filter Size 1	-	N/A
Num Final Filter 1	-	1
Final Filter Size 1	-	20X25X1

Motor Data		
	Design	Actual
Horsepower	1.0	1.0
Rated Voltage	208	208/240
Rated Amperage	-	6.9

Drive Data		
	Design	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	1600	709
SF RPM	-	SPEED TAP 3 (DEFAULT)
RA CFM	1200	-
OA CFM	400	-
RL Voltage	-	-
RL Amperage	-	-
SF Rotation	-	CORRECT
RA Damper Position	-	CLOSED/RESTRICTED
Min OA Damper Position	-	HALF OPEN
Min OA Damper Type	-	MANUAL VOLUME DAMPER

Performance Data		
	Design	Actual
MA Plenum SP	-	NOT READ
Fan Suction SP	-	NR
Fan Discharge SP	-	NR
Total ESP	0.8"	NR
Fan Total SP	-	NR

General		
	Design	Actual
Fan Rotation Correct	-	YES
Unit Filters Clean	-	NO
Condensate Drain Installed	-	YES

Completed By: Stephen Tassinaro on 04/09/2024

Notes:

Electrical compartment not accessible. Unable to adjust speed taps or measure voltage & amperage. // \*\*SF CFM does not accurately represent unit total. Diffuser 2 cannot be read, and the total flow cannot be determined due to an incomplete return system.

Written By: Stephen Tassinaro on 04/09/2024

# National TAB

Project:04-01-24 CHUY'S - MUELLER, TX

## AHU/RTU



**Diffuser Supply (GRD)**

**AHU6/**

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
AHU6-SGRD1	DINING	B	12"	500	1	395	395	395	79.0
AHU6-SGRD2	DINING	B	12"	600	1				-
AHU6-SGRD3	DINING	A	12"	500	1	314	314	314	62.8
Total				1600		709	709	709	44.31%

Completed By: Stephen Tassinaro on 04/09/2024

Asset	Notes	Date	Written By
AHU6-SGRD2	Diffuser cannot be read due to installation location. Airflow can be determined by subtracting diffuser 1 & 3 airflows from the unit total. Unit total cannot be determined due to incomplete return system. See issues.	04/09/2024	Stephen Tassinaro

# National TAB

Project: 04-01-24 CHUY'S - MUELLER, TX

System/Unit: AHU/RTU



Asset: AHU7

AREA:

Unit Data		
	Design	Actual
MFG	GOODMAN	U.S. ALUMACOIL
Serial Num	-	
Model Num	ASPT61D14	ASPT61D14
Type	AHU	AHU
Configuration	VERTICAL	HORIZONTAL
Num OA Filters 1	-	N/A
OA Filter Size 1	-	N/A
Num Final Filter 1	-	1
Final Filter Size 1	-	20X25X1

Motor Data		
	Design	Actual
Horsepower	1.0	1.0
Phase	1	1
Rated Voltage	208	208/240
Rated Amperage	6.9	6.9

Drive Data		
	Design	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	1600	
SF RPM	-	SPEED TAB
RA CFM	1200	
OA CFM	400	
RL Voltage	-	
RL Amperage	-	
SF Rotation	-	CORRECT
RA Damper Position	-	
Min OA Damper Position	-	
Min OA Damper Type	-	MANUAL VOLUME DAMPER

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.8"	
Fan Total SP	-	

General		
	Design	Actual
Fan Rotation Correct	-	YES
Unit Filters Clean	-	NO
Condensate Drain Installed	-	YES

# National TAB

Project:04-01-24 CHUY'S - MUELLER, TX

## AHU/RTU



**Diffuser Supply (GRD)**

**AHU7/**

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
AHU7-SGRD1	DINING	A	12"	525					-
AHU7-SGRD2	DINING	B	10"	300					-
AHU7-SGRD3	DINING	B	10"	250					-
AHU7-SGRD4	DINING	B	12"	525					-
Total				1600		0	0	0	0%

# National TAB

Project: 04-01-24 CHUY'S - MUELLER, TX

System/Unit: AHU/RTU



Asset: AHU8

AREA:

Unit Data		
	Design	Actual
MFG	GOODMAN	U.S. ALUMACOIL
Serial Num	-	
Model Num	ASPT61D14	ASPT61D14
Type	AHU	AHU
Configuration	VERTICAL	HORIZONTAL
Num OA Filters 1	-	N/A
OA Filter Size 1	-	N/A
Num Final Filter 1	-	1
Final Filter Size 1	-	20X25X1

Motor Data		
	Design	Actual
Horsepower	1.0	1.0
Phase	1	1
Rated Voltage	208	208/240
Rated Amperage	6.9	6.9

Drive Data		
	Design	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	1600	
SF RPM	-	SPEED TAB
RA CFM	1200	
OA CFM	400	
RL Voltage	-	
RL Amperage	-	
SF Rotation	-	CORRECT
RA Damper Position	-	
Min OA Damper Position	-	
Min OA Damper Type	-	MANUAL VOLUME DAMPER

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.8"	
Fan Total SP	-	

General		
	Design	Actual
Fan Rotation Correct	-	YES
Unit Filters Clean	-	NO
Condensate Drain Installed	-	YES

# National TAB

Project:04-01-24 CHUY'S - MUELLER, TX

## AHU/RTU



**Diffuser Supply (GRD)**

**AHU8/**

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
AHU8-SGRD1	DINING	B	12"	525					-
AHU8-SGRD2	DINING	A	12"	550					-
AHU8-SGRD3	DINING	A	12"	525					-
Total				1600		0	0	0	0%

# National TAB

Project: 04-01-24 CHUY'S - MUELLER, TX

System/Unit: AHU/RTU



Asset: AHU9

AREA:

Unit Data		
	Design	Actual
MFG	GOODMAN	U.S. ALUMACOIL
Serial Num	-	
Model Num	ASPT61D14	ASPT61D14
Type	AHU	AHU
Configuration	VERTICAL	HORIZONTAL
Num OA Filters 1	-	N/A
OA Filter Size 1	-	N/A
Num Final Filter 1	-	1
Final Filter Size 1	-	20X25X1

Motor Data		
	Design	Actual
Horsepower	1.0	1.0
Phase	1	1
Rated Voltage	208	208/240
Rated Amperage	6.9	6.9

Drive Data		
	Design	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	1600	
SF RPM	-	SPEED TAB
RA CFM	1200	
OA CFM	400	
RL Voltage	-	
RL Amperage	-	
SF Rotation	-	CORRECT
RA Damper Position	-	
Min OA Damper Position	-	
Min OA Damper Type	-	MANUAL VOLUME DAMPER

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.8"	
Fan Total SP	-	

General		
	Design	Actual
Fan Rotation Correct	-	YES
Unit Filters Clean	-	NO
Condensate Drain Installed	-	YES

# National TAB

Project:04-01-24 CHUY'S - MUELLER, TX

## AHU/RTU



**Diffuser Supply (GRD)**

**AHU9/**

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
AHU9-SGRD1	DINING	D	16"	750					-
AHU9-SGRD2	PATIO	E	12X10	425					-
AHU9-SGRD3	PATIO	E	12X10	425					-
Total				1600		0	0	0	0%

# National TAB

Project: 04-01-24 CHUY'S - MUELLER, TX

## System/Unit: AHU/RTU



Asset: AHU10

AREA:

Unit Data		
	Design	Actual
MFG	GOODMAN	U.S. ALUMACOIL
Serial Num	-	
Model Num	ASPT61D14	ASPT61D14
Type	AHU	AHU
Configuration	VERTICAL	HORIZONTAL
Num OA Filters 1	-	N/A
OA Filter Size 1	-	N/A
Num Final Filter 1	-	1
Final Filter Size 1	-	20X25X1

Motor Data		
	Design	Actual
Horsepower	1.0	1.0
Phase	1	1
Rated Voltage	208	208/240
Rated Amperage	6.9	6.9

Drive Data		
	Design	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	1600	
SF RPM	-	SPEED TAB
RA CFM	1200	
OA CFM	400	
RL Voltage	-	
RL Amperage	-	
SF Rotation	-	CORRECT
RA Damper Position	-	
Min OA Damper Position	-	
Min OA Damper Type	-	MANUAL VOLUME DAMPER

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.8"	
Fan Total SP	-	

General		
	Design	Actual
Fan Rotation Correct	-	YES
Unit Filters Clean	-	NO
Condensate Drain Installed	-	YES

# National TAB

Project:04-01-24 CHUY'S - MUELLER, TX

## AHU/RTU



**Diffuser Supply (GRD)**

**AHU10/**

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
AHU10-SGRD1	DINING	A	12"	525					-
AHU10-SGRD2	DINING	A	12"	525					-
AHU10-SGRD3	DINING	A	12"	550					-
Total				1600		0	0	0	0%

# National TAB

Project: 04-01-24 CHUY'S - MUELLER, TX

## System/Unit: AHU/RTU



Asset: AHU11

AREA:

Unit Data		
	Design	Actual
MFG	GOODMAN	U.S. ALUMACOIL
Serial Num	-	
Model Num	ASPT61D14	ASPT61D14
Type	AHU	AHU
Configuration	VERTICAL	HORIZONTAL
Num OA Filters 1	-	N/A
OA Filter Size 1	-	N/A
Num Final Filter 1	-	1
Final Filter Size 1	-	20X25X1

Motor Data		
	Design	Actual
Horsepower	1.0	1.0
Phase	1	1
Rated Voltage	208	208/240
Rated Amperage	6.9	6.9

Drive Data		
	Design	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	1600	
SF RPM	-	SPEED TAB
RA CFM	1200	
OA CFM	400	
RL Voltage	-	
RL Amperage	-	
SF Rotation	-	CORRECT
RA Damper Position	-	
Min OA Damper Position	-	
Min OA Damper Type	-	MANUAL VOLUME DAMPER

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.8"	
Fan Total SP	-	

General		
	Design	Actual
Fan Rotation Correct	-	YES
Unit Filters Clean	-	NO
Condensate Drain Installed	-	YES

# National TAB

Project:04-01-24 CHUY'S - MUELLER, TX

## AHU/RTU



**Diffuser Supply (GRD)**

**AHU11/**

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
AHU11-SGRD1	KITCHEN	D	14"	400					-
AHU11-SGRD2	KITCHEN	D	14"	400					-
AHU11-SGRD3	KITCHEN	D	16"	800					-
Total				1600		0	0	0	0%

# National TAB

Project: 04-01-24 CHUY'S - MUELLER, TX

System/Unit: FAN - Exhaust



Asset: EF1

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	USBI36DD-RM	USBI36DD-RM
Serial Num	-	
Type	DIRECT DRIVE	
Configuration	VERTICAL	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	10	
Motor Rpm	-	
Phase	3	
Voltage (rated)	480	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	Actual
CFM	8907	8806
Fan RPM	-	
Fan Rotation	-	
Motor RPM	-	
System SetPt	-	
RL Voltage	-	
RL Amperage	-	
Total ESP	2.5	
Fan Inlet SP	-	
Fan Discharge SP	-	

# National TAB

Project: 04-01-24 CHUY'S - MUELLER, TX

System/Unit: FAN - Exhaust



Asset: EF2

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	SIF11DD-SS	SIF11DD-SS
Serial Num	-	
Type	DIRECT DRIVE	
Configuration	VERTICAL	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	1/2	
Motor Rpm	-	
Phase	1	
Voltage (rated)	120	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	Actual
CFM	600	
Fan RPM	-	
Fan Rotation	-	
Motor RPM	-	
System SetPt	-	
RL Voltage	-	
RL Amperage	-	
Total ESP	1.0"	
Fan Inlet SP	-	
Fan Discharge SP	-	

# National TAB

Project: 04-01-24 CHUY'S - MUELLER, TX

System/Unit: FAN - Exhaust



Asset: EF3

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	SIF10DD	SIF10DD
Serial Num	-	
Type	DIRECT DRIVE	
Configuration	VERTICAL	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	0.18	
Motor Rpm	-	
Phase	1	
Voltage (rated)	120	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	Actual
CFM	400	
Fan RPM	-	
Fan Rotation	-	
Motor RPM	-	
System SetPt	-	
RL Voltage	-	
RL Amperage	-	
Total ESP	1.0	
Fan Inlet SP	-	
Fan Discharge SP	-	

# National TAB

Project: 04-01-24 CHUY'S - MUELLER, TX

System/Unit: FAN - Supply



Asset: MUA1

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	A3-E.1224-24D-MPU	A3-E.1224-24D-MPU
Serial Num	-	
Type	MUA	
Configuration	VERTICAL	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	10.000	
Motor Rpm	-	
Phase	3	
Voltage (rated)	460	
Amperage (rated)	-	
Service Factor	-	

Gas Heat		
	Design	Actual
Heater Operates (y/n)	-	
Flame Status (pass/fail)	-	
Inlet Air Temp SetPt	-	
Discharge Air Temp SetPt	-	
Air Flow Switch SP Actual	-	

Test Data		
	Design	Actual
CFM	5400	
SF RPM	1456	
Motor RPM	-	
SF System SetPt	-	
RL Voltage	-	
RL Amperage	-	
Total ESP	-	
Fan Discharge SP	-	

General		
	Design	Actual
Fan Rotation Correct	-	

# National TAB

Project: 04-01-24 CHUY'S - MUELLER, TX

## System/Unit: Kitchen Hood Type I



Asset: HD1

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	4824 ND-2	4824 ND-2
Job / Serial Num	-	6099250
Type	TYPE 1 HOOD CANOPY	TYPE I CANOPY
Hood length	48"	72"
Hood Width	48"	48"

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	16X16	16X16
Filter Qty 1	4	4
Filter AK factor size 1	1.62	1.62
Filter Total AK Area	6.48	6.48
Filter1 FPM	-	160
Filter2 FPM	-	174
Filter3 FPM	-	172
Filter4 FPM	-	152
Filter Ave FPM(corr)	-	164
CFM	1050	1066

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

# National TAB

Project: 04-01-24 CHUY'S - MUELLER, TX

## System/Unit: Kitchen Hood Type I



Asset: HD2

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	5424 ND-2-PSP-F	5424 ND-2
Job / Serial Num	-	6099250
Type	TYPE 1 CANOPY	TYPE I CANOPY
Hood length	150"	144"
Hood Width	54"	54"
Supply Plenum Type	-	PSP
Supply Plenum Width	12"	12"
Supply Plenum Length	148"	144"

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	20X16	20X16
Filter Qty 1	9	9
Filter AK factor size 1	2.08	2.08
Filter Total AK Area	18.72	18.72
Filter1 FPM	-	99
Filter2 FPM	-	98
Filter3 FPM	-	128
Filter4 FPM	-	135
Filter5 FPM	-	128
Filter6 FPM	-	126
Filter7 FPM	-	103
Filter8 FPM	-	108
Filter9 FPM	-	95
Filter Ave FPM(corr)	-	113
CFM	2097	2122

Cooking Equipment		
	Design	Actual
Item 1	-	OVEN
Item 2	-	STOVE
Item 3	-	BPM-30EC
Item 4	-	
Item 5	-	

Test Data Supply		
	Design	Actual
Total AK Area	12.0	12.0
Kv factor (Vel)	0.87	0.87
Num of Readings	-	9
Reading1 FPM	-	177
Reading2 FPM	-	171
Reading3 FPM	-	170
Reading4 FPM	-	189
Reading5 FPM	-	107
Reading6 FPM	-	127
Reading7 FPM	-	149
Reading8 FPM	-	117
Reading9 FPM	-	135
Ave FPM(corr)	-	149
CFM	1573	1557

# National TAB

Project: 04-01-24 CHUY'S - MUELLER, TX

## System/Unit: Kitchen Hood Type I



Asset: HD3

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	5424 ND-2-PSP-F	5424 ND-2
Job / Serial Num	-	6099250
Type	TYPE 1 CANOPY	TYPE I CANOPY
Hood length	128"	132"
Hood Width	54"	54"
Supply Plenum Type	-	PSP
Supply Plenum Width	12"	12"
Supply Plenum Length	140"	144"

Test Data Supply		
	Design	Actual
Total AK Area	12.0	12.0
Kv factor (Vel)	0.87	0.87
Num of Readings	-	9
Reading1 FPM	-	170
Reading2 FPM	-	132
Reading3 FPM	-	117
Reading4 FPM	-	137
Reading5 FPM	-	131
Reading6 FPM	-	125
Reading7 FPM	-	75
Reading8 FPM	-	122
Reading9 FPM	-	187
Ave FPM(corr)	-	133
CFM	1450	1387

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO FILTER	CAPTRATE SOLO
Filter Size 1	20X16	20X16
Filter Qty 1	8	8
Filter AK factor size 1	2.08	2.08
Filter Total AK Area	16.64	16.64
Filter1 FPM	-	99
Filter2 FPM	-	104
Filter3 FPM	-	110
Filter4 FPM	-	124
Filter5 FPM	-	137
Filter6 FPM	-	129
Filter7 FPM	-	106
Filter8 FPM	-	88
Filter Ave FPM(corr)	-	112
CFM	1813	1866

Cooking Equipment		
	Design	Actual
Item 1	-	BPM-40EC
Item 2	-	WEDGE PRESS
Item 3	-	GRIDDLE

# National TAB

Project: 04-01-24 CHUY'S - MUELLER, TX

## System/Unit: Kitchen Hood Type I



Asset: HD4

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	5424 ND-2-PSP-F	5424 ND-2
Job / Serial Num	-	6099250
Type	TYPE 1 CANOPY	TYPE I CANOPY
Hood length	102"	102"
Hood Width	54"	54"
Supply Plenum Type	-	PSP
Supply Plenum Width	114"	16"
Supply Plenum Length	16"	114"

Test Data Supply		
	Design	Actual
Total AK Area	12.67	12.67
Kv factor (Vel)	0.91	0.91
Num of Readings	-	6
Reading1 FPM	-	116
Reading2 FPM	-	120
Reading3 FPM	-	120
Reading4 FPM	-	125
Reading5 FPM	-	129
Reading6 FPM	-	148
Ave FPM(corr)	-	126
CFM	1742	1560

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO FILTER	CAPTRATE SOLO
Filter Size 1	20X16	20X16
Filter Qty 1	6	6
Filter AK factor size 1	2.08	2.08
Filter Total AK Area	12.48	12.48
Filter1 FPM	-	133
Filter2 FPM	-	136
Filter3 FPM	-	158
Filter4 FPM	-	165
Filter5 FPM	-	136
Filter6 FPM	-	121
Filter Ave FPM(corr)	-	141.5
CFM	1742	1766

Cooking Equipment		
	Design	Actual
Item 1	-	FRYER
Item 2	-	FRYER
Item 3	-	GRILL

# National TAB

Project: 04-01-24 CHUY'S - MUELLER, TX

## System/Unit: Kitchen Hood Type I



Asset: HD5

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	5424 ND-2-PSP-F	5424 ND-2
Job / Serial Num	-	6099250
Type	TYPE 1 CANOPY	TYPE I CANOPY
Hood length	108"	108"
Hood Width	54"	54"
Supply Plenum Type	-	PSP
Supply Plenum Width	16"	16"
Supply Plenum Length	108"	108"

Test Data Supply		
	Design	Actual
Total AK Area	12.0	12.0
Kv factor (Vel)	0.91	0.91
Num of Readings	-	6
Reading1 FPM	-	189
Reading2 FPM	-	152
Reading3 FPM	-	146
Reading4 FPM	-	143
Reading5 FPM	-	150
Reading6 FPM	-	173
Ave FPM(corr)	-	159
CFM	2205	1576

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	20X16	20X16
Filter Qty 1	6	6
Filter AK factor size 1	2.08	2.08
Filter Total AK Area	12.48	12.48
Filter1 FPM	-	153
Filter2 FPM	-	159
Filter3 FPM	-	175
Filter4 FPM	-	175
Filter5 FPM	-	155
Filter6 FPM	-	138
Filter Ave FPM(corr)	-	159
CFM	2205	1986

Cooking Equipment		
	Design	Actual
Item 1	-	GRILL
Item 2	-	GRIDDLE
Item 3	-	OVEN