

Report By:

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



Report: TAB REPORT
Function: Test, Adjust, & Balance
Date: 08/26/2024

PROJECT
07-18-24 UCHIKO (LEGACY WEST) PLANO, TX
7801 WINDROSE AVE
PLANO, TX 75254

Client

HAI Hospitality

National TAB

Project: 07-18-24 UCHIKO (LEGACY WEST) PLANO, TX

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AIR BALANCE SCHEDULE

UNIT	AREA SERVED	HVAC SUPPLY		HVAC RETURN		HVAC OUTDOOR		OA %		HOOD MAKE-UP		HOOD EXHAUST		GENERAL EXH.	
		DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
FCU-1	SUNROOM DINING	6000	6042	6000	6042			0.0%	0.0%						
FCU-2	ENTRY DINING	6000	5936	6000	5936			0.0%	0.0%						
FCU-3	BOH	6000	5995	6000	5995			0.0%	0.0%						
FCU-4	PRIVATE DINING	1200	1318	1200	1318			0.0%	0.0%						
SF-1	OA	1850	1391	0	0	1850	1391	100.0%							
OSA-1	OA	2500	2610	0	0	2500	2610	100.0%	100.0%						
MUA-1	MUA									6200	6124				
KEF-1	1A & 1B											4350	4091		
KEF-2	HOOD 2											3400	3667		
KEF-3	DW											1400	981		
EF-4	RR													450	371
6217		23550	23292	19200	19291	4350	4001			6200	6124	9150	8739	450	371

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	10550	10125
TOTAL EXHAUST	9600	9110
NET AIRFLOW	950	1015

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H2O)
FRONT	0.015
SIDE	0.01
REAR	0.02
AVERAGE	0.015

FINAL CHECKS

- ACTUAL NET AIRFLOW COINCIDES WITH DESIGN: ✓

- MEASURED PRESSURES COINCIDES WITH ACTUAL NET AIRFLOW: ✓

- PRESSURE FALLS WITHIN IMC TOLERANCE OF +/-0.02" W.C. ✓

NOTES:

CheckList List

- TECH - SITE PICTURES
- TECH - STEP 1: INITIAL WALKTHROUGH
- TECH - STEP 2: UNIT DATA AND EVAL
- TECH - STEP 3: TEST, ADJUST AND BALANCE



07-18-24 UCHIKO (LEGACY WEST) PLANO, TX

CheckList Information

Name : TECH - SITE PICTURES **Status :** Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 07/15/2024 - Brianna Biggs - National TAB
Completed Date : 08/08/2024 - Bayley Morvant - National TAB

CheckList Item Details

STORE FRONT

Comment:



07/30/2024

FCU-1

Comment:



07/30/2024

FCU-2

Comment:



07/30/2024

FCU-3

Comment:



07/30/2024

FCU-4

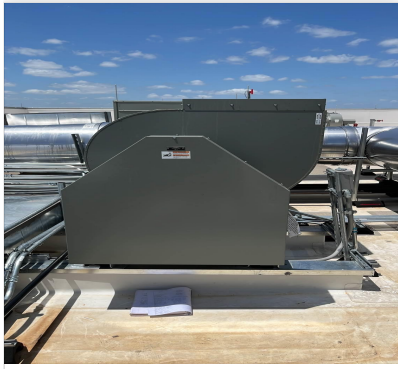
Comment:



08/08/2024

EF-1

Comment:



07/30/2024

EF-2

Comment:



07/30/2024

EF-3

Comment:



07/30/2024

EF-4

Comment:



07/30/2024

MUA-1

Comment:



07/30/2024

OSA-1

Comment:



07/30/2024



07/30/2024

HD-1A

Comment:



07/30/2024

HD-1B

Comment:



07/30/2024

HD-2

Comment:



07/30/2024

DISH-HD1

Comment:



07/30/2024



07-18-24 UCHIKO (LEGACY WEST) PLANO, TX

CheckList Information

Name : TECH - STEP 1: INITIAL WALKTHROUGH **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 07/15/2024 - Brianna Biggs - National TAB

Completed Date : 07/30/2024 - Bayley Morvant - National TAB

CheckList Item Details

INITIAL SITE WALKTHROUGH

All diffusers and grilles are installed and match design? N/A

Comment:

They match where they should be installed, but cfm design does not match. FC-1, FC-2 and FC-3 diffuser design equals 8,000 cfm. Schedule design is 6,000 cfm per unit. units were balanced for total cfm to match schedule design.

All hood filters installed and accounted for? Yes

Comment:

Hoods are wired and have power? Yes

Comment:

Hood is free of alarms? Yes

Comment:

Thermostats have power? Yes

Comment:

Have trades/general contractor been notified about any issues and are they created on FaciliBuild?

Comment:

yes



07-18-24 UCHIKO (LEGACY WEST) PLANO, TX

CheckList Information

Name : TECH - STEP 2: UNIT DATA AND EVAL **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 07/15/2024 - Brianna Biggs - National TAB

Completed Date : 08/08/2024 - Bayley Morvant - National TAB

CheckList Item Details

UNIT DATA AND EVALUATION WHILE GATHERING UNIT DATA CHECK THE FOLLOWING:

RTU's/AHU's

Economizers are assembled and functional? N/A

Comment:

DCV Max damper opening position is set to minimum? N/A

Comment:

Free cooling enthalpy set point set for lowest setting (Typically "D") N/A

Comment:

Motors are all operating below the FLA rating? Yes

Comment:

Are belts tight?

Comment:

YES

If direct drive unit is the speed controller working.

Comment:

YES

Is gas piping installed and valves turned on?

Yes

Comment:

Unit free of noticeable noise and vibration

Yes

Comment:

EF's

Rotation is correct?

Yes

Comment:

Belts are tight?

Comment:

YES

Grease cup installed on hood fan?

No

Comment:

Hinge kit installed installed on hood fan?

No

Comment:

ALL FANS ARE UTILITY SET STYLE FANS.

Lean fan back. Is grease duct installation adequate and is duct ran all the way to the base of the fan?

N/A

Comment:

Flex conduit is long enough so that fan can be completely tilted back?

N/A

Comment:

There is no major leakage around base of fan?

Yes

Comment:

Is the motor operating below the motor FLA rating?

Yes

Comment:

For restroom fan(s) is the back draft damper installed and can it fully open?

N/A

Comment:

Unit free of noticeable noise and vibration?

Yes

Comment:

MUA

Rotation is correct?

Yes

Comment:

Gas piping is installed and valves are in on position?

Yes

Comment:

Heater tested and is functional?

No

Comment:

UNABLE TO TEST MUA-1 HEAT DUE TO OUTDOOR AMBIET TEMP

Internal motorized damper is fully opening?

Yes

Comment:

Motor is operating below the FLA rating?

Yes

Comment:

Unit free of noticeable noise and vibration?

Yes

Comment:

HOODS

Kitchen equipment installed in proper places?

Yes

Comment:

Can kitchen equipment be turned on for final smoke test?

Yes

Comment:

DOCUMENTATION

Have trades/general contractor been notified about any issues and are they created on FaciliBuild? Yes

Comment:



07-18-24 UCHIKO (LEGACY WEST) PLANO, TX

CheckList Information

Name : TECH - STEP 3: TEST, ADJUST AND BALANCE **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 07/15/2024 - Brianna Biggs - National TAB

Completed Date : 07/30/2024 - Bayley Morvant - National TAB

CheckList Item Details

TEST, ADJUST, AND BALANCE ALL EQUIPMENT:

DURING TESTING MAKE NOTE OF THE FOLLOWING:

Is space free of drafting? Yes

Comment:

Is space comfortable in all areas? Yes

Comment:

ALL AREAS FEEL COMFORTABLE EXCEPT FOR FRONT ENTRY. THERE IS A NOTICABLE TEMPERATURE CHANGE WHEN WALKING INTO THE FRONT ENTRY AREA.

Is the space free of ventilation noise? Yes

Comment:

If deviations from design were necessary to resolve 1-3 what were they? Otherwise put "NA".

Comment:

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Project: 07-18-24 UCHIKO (LEGACY WEST) PLANO, TX

System/Unit: AHU/RTU



Asset: DOAS1

AREA:

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Serial Num	-	22650757
Model Num	NA	RV-25-15I-J-F1
Type	-	DOAS
Configuration	-	HORIZONTAL
Num OA Filters 1	-	4
OA Filter Size 1	-	18X18
Num Final Filter 1	-	2
Final Filter Size 1	-	20X24X2
Num Final Filter 2	-	2
Final Filter Size 2	-	20X20X2

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	184T
Horsepower	-	5.00
Motor Rpm	-	1750
Phase	-	3
Rated Voltage	-	460
Rated Amperage	-	6.6

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

Test Data		
	Design	Actual
SF CFM	2500	2610
SF RPM	-	1313
RA CFM	-	0
OA CFM	-	2610
RL Voltage	-	416/416/416
RL Amperage	-	3.3/3.3/3.4
SF Rotation	-	CW
SF System SetPt	-	45Hz(62%)
RA Damper Position	-	NA
Min OA Damper Position	-	100% OPEN
Min OA Damper Type	-	OPOSED BLADE

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.13
Fan Suction SP	-	-0.33
Fan Discharge SP	-	1.33
Total ESP	-	1.46
Fan Total SP	-	1.79

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

Completed By: Bayley Morvant on 07/30/2024

Notes:

2610 CFM READING WAS OBTAINED VIA VELGRID READING OF DOAS OUTSIDE AIR INTAKE.

THE DUCT THAT SERVES THE MEZZANINE FROM THIS UNIT WAS ALSO READ VIA VELGRID AT 1348 CFM.

0.53" WC DISCHARGE MEASURED AT SUPPLY DUCT ON ROOF.

Written By: Will Turnbough on 07/29/2024

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Project: 07-18-24 UCHIKO (LEGACY WEST) PLANO, TX

System/Unit: AHU/RTU



Asset: FCU1

AREA: SUNROOM DINING

Unit Data		
	Design	Actual
MFG	TRANE	LENNOX
Serial Num	-	5623D03085
Model Num	TWE18044	EL180XASD-1G
Type	FCU	FCU
Configuration	VERTICAL	HORIZONTAL
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2
Num Final Filter 2	-	1
Final Filter Size 2	-	16X25X2

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	184T
Horsepower	3	5.00
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	480	460
Rated Amperage	-	6.7

Drive Data	
	Actual
Motor Sheave Size	4.75"
Motor Bore Size	1 1/8"
Motor Sheave SetPt	2 TURNS OUT
Fan Sheave Size	AK86
Fan Sheave Bore	1 3/16"
Belt CL Distance	18.5"
Num of Belts	1
Belt Size	BX57
Belt Alignment	Verified

Test Data		
	Design	Actual
SF CFM	6000	6042
SF RPM	-	614
RA CFM	4675	6042
OA CFM	1325	*1
RL Voltage	-	491/485/483
RL Amperage	-	3.3/4.5/2.6
SF Rotation	-	CW
SF System SetPt	-	47Hz

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.05
Fan Discharge SP	-	0.02
Total ESP	0.60"	0.07

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

Completed By: Bayley Morvant on 07/30/2024

Notes:

*1 UNIT GETS OSA FROM OPEN AIR PLENUM.

Written By: Bayley Morvant on 07/30/2024

National TAB

Project:07-18-24 UCHIKO (LEGACY WEST) PLANO, TX

AHU/RTU



Diffuser Supply (GRD)

FCU1/SUNROOM DINING

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
FCU1-SGRD1	SUNROOM DINING	1	10" 1.17	250	188	188	75.2
FCU1-SGRD2	DININGSUNROOM DINING	1	10"	250	216	216	86.4
FCU1-SGRD3	SUNROOM DINING	1	10"	250	189	189	75.6
FCU1-SGRD4	SUNROOM DINING	1	10"	250	123	123	49.2
FCU1-SGRD5	SUNROOM DINING	1	10"	250	190	190	76.0
FCU1-SGRD6	SUNROOM DINING	1	10"	250	146	146	58.4
FCU1-SGRD7	SUNROOM DINING	1	10"	250	168	168	67.2
FCU1-SGRD8	SUNROOM DINING	1	10"	250	168	168	67.2
FCU1-SGRD9	SUNROOM DINING	1	10"	250	187	168	67.2
FCU1-SGRD10	SUNROOM DINING	1	10"	250	141	141	56.4
FCU1-SGRD11	SUNROOM DINING	1	10"	250	115	115	46.0
FCU1-SGRD12	SUNROOM DINING	1	10"	250	177	177	70.8
FCU1-SGRD13	SUNROOM DINING	1	10"	250	135	135	54.0
FCU1-SGRD14	SUNROOM DINING	1	10"	250	199	199	79.6
FCU1-SGRD15	SUNROOM DINING	1	10"	250	154	154	61.6
FCU1-SGRD16	SUNROOM DINING	1	10"	250	161	161	64.4
FCU1-SGRD17	SUNROOM DINING	1	10"	250	170	170	68.0
FCU1-SGRD18	SUNROOM DINING	1	10"	250	183	183	73.2
FCU1-SGRD19	SUNROOM DINING	1	10"	200	193	193	96.5
FCU1-SGRD20	SUNROOM DINING	1	10"	200	184	184	92.0
FCU1-SGRD21	SUNROOM DINING	1	10"	200	201	201	100.5
FCU1-SGRD22	SUNROOM DINING	1	10"	200	188	188	94.0
FCU1-SGRD23	SUNROOM DINING	1	10"	200	172	172	86.0
FCU1-SGRD24	SUNROOM DINING	1	10"	200	137	137	68.5
FCU1-SGRD25	SUNROOM DINING	1	10"	200	192	192	96.0
FCU1-SGRD26	SUNROOM DINING	1	10"	200	216	216	108.0
FCU1-SGRD27	SUNROOM DINING	1	10"	200	133	133	66.5
FCU1-SGRD28	SUNROOM DINING	1	10"	200	119	119	59.5
FCU1-SGRD29	SUNROOM DINING	1	10"	200	153	153	76.5
FCU1-SGRD30	SUNROOM DINING	1	10"	200	208	208	104.0
FCU1-SGRD31	SUNROOM DINING	M	10"	275	203	203	73.8
FCU1-SGRD32	SUNROOM DINING	M	10"	275	251	251	91.3
FCU1-SGRD33	SUNROOM DINING	M	10"	275	285	285	103.6
FCU1-SGRD34	SUNROOM DINING	M	10"	275	197	197	71.6
Total				8000	6042	6023	75.29%

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Project: 07-18-24 UCHIKO (LEGACY WEST) PLANO, TX

System/Unit: AHU/RTU



Asset: FCU2

AREA:ENTY AND DINING

Unit Data		
	Design	Actual
MFG	TRANE	LENNOX
Serial Num	-	5623D05657
Model Num	TWE18044	EL180XASD-1G
Type	FCU	FCU
Configuration	VERTICAL	HORIZONTAL
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2
Num Final Filter 2	-	1
Final Filter Size 2	-	16X25X2

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	184T
Horsepower	3	5
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	480	460
Rated Amperage	-	6.7

Drive Data	
	Actual
Motor Sheave Size	4.75"
Motor Bore Size	1 1/8"
Motor Sheave SetPt	2 TURNS OUT
Fan Sheave Size	BK85
Fan Sheave Bore	1 3/16"
Belt CL Distance	18.5"
Num of Belts	1
Belt Size	BX57
Belt Alignment	VERIFIED

Test Data		
	Design	Actual
SF CFM	6000	5936
SF RPM	-	546
RA CFM	4675	5930
OA CFM	1325	*1
RL Voltage	-	490/491/493
RL Amperage	-	3.3/2.2/1.8
SF Rotation	-	CW
SF System SetPt	-	38.5Hz

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.03
Fan Discharge SP	-	0.05
Total ESP	0.60"	0.08

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

Completed By: Bayley Morvant on 07/30/2024

Notes:

*1 UNIT GETS OSA FROM OPEN AIR PLENUM.

Written By: Bayley Morvant on 07/30/2024

National TAB

Project:07-18-24 UCHIKO (LEGACY WEST) PLANO, TX

AHU/RTU



Diffuser Supply (GRD)

FCU2/ENTY AND DINING

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
FCU2-SGRD1	ENTRY AND DINING	1	10".87	250	149	172	68.8
FCU2-SGRD2	ENTRY AND DINING	1	10"	250	158	182	72.8
FCU2-SGRD3	ENTRY AND DINING	1	10"	250	147	169	67.6
FCU2-SGRD4	ENTRY AND DINING	1	10"	250	166	191	76.4
FCU2-SGRD5	ENTRY AND DINING	1	10"	250	153	176	70.4
FCU2-SGRD6	ENTRY AND DINING	1	10"	250	164	189	75.6
FCU2-SGRD7	ENTRY AND DINING	1	10"	250	125	144	57.6
FCU2-SGRD8	ENTRY AND DINING	1	10"	250	170	196	78.4
FCU2-SGRD9	ENTRY AND DINING	1	10"	250	147	170	68.0
FCU2-SGRD10	ENTRY AND DINING	1	10"	250	133	153	61.2
FCU2-SGRD11	ENTRY AND DINING	1	10"	250	156	180	72.0
FCU2-SGRD12	ENTRY AND DINING	1	10"	250	183	211	84.4
FCU2-SGRD13	ENTRY AND DINING	1	10"	250	145	167	66.8
FCU2-SGRD14	ENTRY AND DINING	1	10"	200	165	190	95.0
FCU2-SGRD15	ENTRY AND DINING	1	10"	200	185	213	106.5
FCU2-SGRD16	ENTRY AND DINING	1	10"	200	145	167	83.5
FCU2-SGRD17	ENTRY AND DINING	1	10"	200	140	161	80.5
FCU2-SGRD18	ENTRY AND DINING	1	10"	200	151	174	87.0
FCU2-SGRD19	ENTRY AND DINING	1	10"	200	105	121	60.5
FCU2-SGRD20	ENTRY AND DINING	1	10"	200	172	198	99.0
FCU2-SGRD21	ENTRY AND DINING	1	10"	200	153	177	88.5
FCU2-SGRD22	ENTRY AND DINING	1	10"	200	118	136	68.0
FCU2-SGRD23	ENTRY AND DINING	1	10"	200	136	157	78.5
FCU2-SGRD24	ENTRY AND DINING	1	10"	200	184	212	106.0
FCU2-SGRD25	ENTRY AND DINING	1	10"	200	174	200	100.0
FCU2-SGRD26	ENTRY AND DINING	1	10"	200	178	205	102.5
FCU2-SGRD27	ENTRY AND DINING	F	10"	300	192	221	73.7
FCU2-SGRD28	ENTRY AND DINING	F	10"	300	225	259	86.3
FCU2-SGRD29	ENTRY AND DINING	F	10"	300	177	204	68.0
FCU2-SGRD30	ENTRY AND DINING	F	10"	300	147	169	56.3
FCU2-SGRD31	ENTRY AND DINING	F	10"	300	167	192	64.0
FCU2-SGRD32	ENTRY AND DINING	C	10"	300	81	94	31.3
FCU2-SGRD33	ENTRY AND DINING	A	6"	75	38	44	58.7
FCU2-SGRD34	ENTRY AND DINING	A	6"	75	32	37	49.3
FCU2-SGRD35	ENTRY AND DINING	A	8"	100	53	62	62.0
FCU2-SGRD36	ENTRY AND DINING	A	6"	75	37	43	57.3

Total				7975	5151	5936	74.43%
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National TAB

Project: 07-18-24 UCHIKO (LEGACY WEST) PLANO, TX

System/Unit: AHU/RTU



Asset: FCU3

AREA:BOH

Unit Data		
	Design	Actual
MFG	TRANE	LENNOX
Serial Num	-	5623D03087
Model Num	TWE18044	EL180XASD-1G
Type	FCU	FCU
Configuration	VERTICAL	HORIZONTAL
Num Final Filter 1	-	4
Final Filter Size 1	-	16x25x2
Num Final Filter 2	-	1
Final Filter Size 2	-	20x25x2

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	184T
Horsepower	3	5
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	480	460
Rated Amperage	-	6.7

Drive Data	
	Actual
Motor Sheave Size	4.75"
Motor Bore Size	1 1/8"
Motor Sheave SetPt	2 TURNS OUT
Fan Sheave Size	BX86
Fan Sheave Bore	1 3/16"
Belt CL Distance	18.5"
Num of Belts	1
Belt Size	BX57
Belt Alignment	VERIFIED

Test Data		
	Design	Actual
SF CFM	6000	5995
SF RPM	-	651
RA CFM	4600	5995
OA CFM	1400	*1
RL Voltage	-	483/486/486
RL Amperage	-	5.6/3.9/4.6
SF Rotation	-	CW
SF System SetPt	-	46.50Hz

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.04
Fan Discharge SP	-	0.05
Total ESP	0.60"	0.09

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

Completed By: Bayley Morvant on 07/30/2024

Notes:

*1 UNIT GETS OSA FROM OPEN AIR PLENUM.

Written By: Bayley Morvant on 07/30/2024

National TAB

Project:07-18-24 UCHIKO (LEGACY WEST) PLANO, TX

AHU/RTU



Diffuser Supply (GRD)

FCU3/BOH

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
FCU3-SGRD1	BOH	D	12"	500	421		-
FCU3-SGRD2	BOH	D	12"	500	595		-
FCU3-SGRD3	BOH	D	12"	500	455		-
FCU3-SGRD4	BOH	D	12"	750	640		-
FCU3-SGRD5	BOH	D	12"	750	584		-
FCU3-SGRD6	BOH	D	12"	500	705		-
FCU3-SGRD7	BOH	D	12"	500	534		-
FCU3-SGRD8	BOH	D	12"	500	559		-
FCU3-SGRD9	BOH	D	12"	500	530		-
FCU3-SGRD11	BOH	D	12"	500	644	5995	1199.0
FCU3-SGRD12	BOH	D	12"	200	174		-
FCU3-SGRD13	BOH	D	12"	350	313		-
FCU3-SGRD14	BOH	D	10"	350	238		-
FCU3-SGRD16	BOH RR	C	6"	350	55		-
Total				6750	6447	5995	88.81%

National TAB

Project: 07-18-24 UCHIKO (LEGACY WEST) PLANO, TX

System/Unit: AHU/RTU



Asset: FCU4

AREA:PRIVATE DINING

Unit Data		
	Design	Actual
MFG	TRANE	LENNOX
Serial Num	-	1623C06294
Model Num	TEM6A0C36	CBA27UHE-042-230-6-06
Type	FCU	FCU
Configuration	VERTICAL	HORIZONTAL
Num Final Filter 1	-	1
Final Filter Size 1	-	20X24

Motor Data		
	Design	Actual
Motor MFG	-	ND
Frame	-	ND
Horsepower	1/2	1.00
Motor Rpm	-	ND
Phase	3	1
Rated Voltage	208	208
Rated Amperage	-	7.5

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

Test Data		
	Design	Actual
SF CFM	1200	1318
SF RPM	-	DIRECT DRIVE
RA CFM	900	1312
OA CFM	300	*1
RL Voltage	-	208
RL Amperage	-	1.2
SF Rotation	-	CCW
SF System SetPt	-	MEDIUM-LOW SPEED

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.05
Fan Discharge SP	-	0.22
Total ESP	0.60"	0.27

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

Completed By: Bayley Morvant on 07/30/2024

Notes:
*1 UNIT GETS OSA FROM OPEN AIR PLENUM.

Written By: Bayley Morvant on 07/30/2024

National TAB

Project:07-18-24 UCHIKO (LEGACY WEST) PLANO, TX

AHU/RTU



Diffuser Supply (GRD)

FCU4/PRIVATE DINING

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
FCU4-SGRD1	PRIVATE DINING	2	8"	133				97	72.9
FCU4-SGRD2	PRIVATE DINING	2	8"	133				200	150.4
FCU4-SGRD3	PRIVATE DINING	2	8"	133				178	133.8
FCU4-SGRD4	PRIVATE DINING	2	8"	133				158	118.8
FCU4-SGRD5	PRIVATE DINING	2	8"	133				115	86.5
FCU4-SGRD6	PRIVATE DINING	2	8"	133				156	117.3
FCU4-SGRD7	PRIVATE DINING	2	8"	133				149	112.0
FCU4-SGRD8	PRIVATE DINING	2	8"	133				151	113.5
FCU4-SGRD9	PRIVATE DINING	2	8"	133				114	85.7
Total				1197		0	0	1318	110.11%

National TAB

Project: 07-18-24 UCHIKO (LEGACY WEST) PLANO, TX

System/Unit: FAN - Exhaust



Asset: EF1

AREA:MAIN HOODS 1A &1B

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	USF-24	USF-24-3-B1-00-01-01
Serial Num	-	22721504
Type	CENTRIFUGAL	CENTRIFUGAL
Configuration	VERTICAL	HORIZONTAL

Test Data		
	Design	Actual
CFM	4350	4091
Fan RPM	971	942
Fan Rotation	-	CCW
Motor RPM	-	1775
RL Voltage	-	226/223/224
RL Amperage	-	6.0/6.0/6.1
Suction ESP	-	Grease Duct
Discharge ESP	-	ATM
Total ESP	2.0"	ND

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	182T
Horsepower	3	3
Motor Rpm	-	1765
Phase	3	3
Voltage (rated)	480	230
Amperage (rated)	-	8.4
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	2AK34
Motor Bore Size	1 1/8"
Motor Sheave SetPt	0 TURNS OUT
Fan Sheave Size	2AK64
Fan Sheave Bore	1 7/16"
Belt CL Distance	21.5"
Num of Belts	2
Belt Size	A56

Completed By: Bayley Morvant on 07/30/2024

National TAB

Project: 07-18-24 UCHIKO (LEGACY WEST) PLANO, TX

System/Unit: FAN - Exhaust



Asset: EF2

AREA:HOOD 2/WOOD FIRE GRILLE HOOD

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	USF-20	USF-20-3-B1-00-01-01
Serial Num	-	22721508
Type	CENTRIFUGAL	CENTRIFUGAL
Configuration	VERTICAL	HORIZONTAL

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	182T
Horsepower	3	3
Motor Rpm	-	1765
Phase	3	3
Voltage (rated)	480	230
Amperage (rated)	-	8.4
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	2AK30
Motor Bore Size	2AK30
Motor Sheave SetPt	1 1/8"
Fan Sheave Size	2AK39
Fan Sheave Bore	1 3/16"
Belt CL Distance	16.25"
Num of Belts	2
Belt Size	AX41

Test Data		
	Design	Actual
CFM	3400	3667
Fan RPM	1433	1440
Fan Rotation	-	CCW
Motor RPM	-	1765
RL Voltage	-	225/221/222
RL Amperage	-	7.1/7.2/7.2
Suction ESP	-	GREASE DUCT
Discharge ESP	-	ATM
Total ESP	3.0"	ND

Completed By: Bayley Morvant on 07/30/2024

National TAB

Project: 07-18-24 UCHIKO (LEGACY WEST) PLANO, TX

System/Unit: FAN - Exhaust



Asset: EF3

AREA:DISHWASHING HOOD

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	USF-13	USF-13-5-B1-00-01-01
Serial Num	-	22657998
Type	CENTRIFUGAL	CENTRIFUGAL
Configuration	VERTICAL	HORIZONTAL

Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	56
Horsepower	3/4	0.75
Motor Rpm	-	1760
Phase	3	3
Voltage (rated)	480	230
Amperage (rated)	-	2.88
Service Factor	-	1.25

Drive Data	
	Actual
Motor Sheave Size	AK30
Motor Bore Size	5/8"
Motor Sheave SetPt	HUB PULLEY
Fan Sheave Size	AK34
Fan Sheave Bore	1.00"
Belt CL Distance	11"
Num of Belts	1
Belt Size	A30

Test Data		
	Design	Actual
CFM	1400	981
Fan RPM	1580	1542
Fan Rotation	-	CW
Motor RPM	-	1760
RL Voltage	-	210/213/213
RL Amperage	-	1.9/1.9/1.9
Suction ESP	-	-0.93
Discharge ESP	-	ATM
Total ESP	1.25"	-0.93

Completed By: Bayley Morvant on 07/30/2024

National TAB

Project: 07-18-24 UCHIKO (LEGACY WEST) PLANO, TX

System/Unit: FAN - Exhaust



Asset: EF4

AREA:RESTROOMS

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	USF-09	USF-09-5-B1-00-01-01
Serial Num	-	22658006
Type	CENTRIFUGAL	CENTRIFUGAL
Configuration	VERTICAL	HORIZONTAL

Test Data		
	Design	Actual
CFM	425	371
Fan RPM	1432	2721
Fan Rotation	-	CW
Motor RPM	-	1740
RL Voltage	-	122
RL Amperage	-	2.6
Suction ESP	-	-0.31
Discharge ESP	-	ATM
Total ESP	0.5"	0.31

Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	W56
Horsepower	3/4	1/4
Motor Rpm	-	1740
Phase	3	1
Voltage (rated)	480	115
Amperage (rated)	-	2.92
Service Factor	-	1.35

Drive Data	
	Actual
Motor Sheave Size	AK32
Motor Bore Size	5/8"
Motor Sheave SetPt	HUB PULLEY
Fan Sheave Size	AK41
Fan Sheave Bore	1.00"
Belt CL Distance	9.25"
Num of Belts	1
Belt Size	3L290R

Completed By: Bayley Morvant on 07/30/2024

Notes:

- 1: 31
- 2: 46
- 3: 206
- 4: 44
- 5: 44

Written By: Bayley Morvant on 07/29/2024

National TAB

Project:07-18-24 UCHIKO (LEGACY WEST) PLANO, TX

FAN - Exhaust



Diffuser Supply (GRD)

EF4/RESTROOMS

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EF4-SGRD1	RR	G	6"	75					-
EF4-SGRD2	RR	G	6"	75					-
EF4-SGRD3	RR	G	6"	100					-
EF4-SGRD4	RR	G	6"	75					-
EF4-SGRD5	RR	H	6"	100					-
Total				425		0	0	0	0%

National TAB

Project: 07-18-24 UCHIKO (LEGACY WEST) PLANO, TX

System/Unit: FAN - Supply



Asset: MUA1

AREA:COOKLINE

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	RV-45-25I-J-F1	RV-45-25I-J-F1
Serial Num	-	22650748
Type	MUA	MUA
Configuration	VERTICAL	HORIZONTAL

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	184T
Horsepower	7.5	5.00
Motor Rpm	-	1750
Phase	3	3
Voltage (rated)	480	460
Amperage (rated)	-	6.6
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	DIRECT DRIVE
Motor Bore Size	DIRECT DRIVE
Fan Sheave Size	DIRECT DRIVE
Fan Sheave Bore	DIRECT DRIVE
Belt CL Distance	DIRECT DRIVE
Num of Belts	DIRECT DRIVE
Belt Size	DIRECT DRIVE
Belt Alignment Verified	DIRECT DRIVE

Gas Heat		
	Design	Actual
Heater Operates (y/n)	-	*1
Flame Status (pass/fail)	-	*1
Inlet Air Temp SetPt	55	ND
Discharge Air Temp SetPt	60	72
Air Flow Switch SP Actual	-	ND

Test Data		
	Design	Actual
CFM	6200	6124
SF RPM	-	DIRECT DRIVE
Motor RPM	-	DIRECT DRIVE
SF System SetPt	-	55.08Hz (100%)
RL Voltage	-	496/493/496
RL Amperage	-	6.1/6.1/6.3
Total ESP	-	2.21
Fan Discharge SP	-	2.21

General	
	Actual
Fan Rotation Correct	YES

Completed By: Bayley Morvant on 07/30/2024

Notes:
UNABLE TO TEST HEAT DUE TO AMBIET OUTDOOR TEMP.

Written By: Bayley Morvant on 07/30/2024

National TAB

Project: 07-18-24 UCHIKO (LEGACY WEST) PLANO, TX

System/Unit: FAN - Supply



Asset: SF1

AREA:

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	BSQ-180-5-X
Serial Num	-	23495188
Type	-	MUA
Configuration	-	HORIZONTAL

Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	56
Horsepower	-	1/2
Motor Rpm	-	1765
Phase	-	3
Voltage (rated)	-	460
Amperage (rated)	-	0.861
Service Factor	-	1.25

Drive Data	
	Actual
Motor Sheave Size	1VP34
Motor Bore Size	5/8"
Fan Sheave Size	AK64
Fan Sheave Bore	1"
Belt CL Distance	20.5"
Num of Belts	1
Belt Size	4L560R
Belt Alignment Verified	VERIFIED

Test Data		
	Design	Actual
CFM	1850	1391
SF RPM	-	813
Motor RPM	-	1777
SF System SetPt	-	HIGH SPEED
RL Voltage	-	491/487/485
RL Amperage	-	0.8/0.8/0.8
Total ESP	-	0.26
Fan Discharge SP	-	ATM

General	
	Actual
Fan Rotation Correct	YES

Completed By: Bayley Morvant on 07/30/2024

National TAB

Project: 07-18-24 UCHIKO (LEGACY WEST) PLANO, TX

System/Unit: Kitchen Hood Type I



Asset: HD2

AREA:SERVES WOOD FIRE GRILLE BEHIND SUSHI BAR SERVED BY EF-2

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XXEW-95-S	XXEW-95.00-S
Job / Serial Num	-	22802804
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	95"	95"
Hood Width	60"	60"
Supply Plenum Type	-	PSP
Supply Plenum Width	18"	18"
Supply Plenum Length	95"	95"

Test Data Supply		
	Design	Actual
Total AK Area	9.24	11.875
Kv factor (Vel)	0.88	0.88
Num of Readings	-	8
Reading1 FPM	-	232
Reading2 FPM	-	217
Reading3 FPM	-	185
Reading4 FPM	-	213
Reading5 FPM	-	234
Reading6 FPM	-	217
Reading7 FPM	-	221
Reading8 FPM	-	217
Ave FPM(corr)	-	215
CFM	2720	2246

Test Data Exhaust		
	Design	Actual
Filter Type	XTRACTOR	EXTRACTOR
Filter Size 1	16X20	16X20
Filter Size 2	20X20	20X20
Filter Qty 1	2	2
Filter Qty 2	3	3
Filter AK factor size 1	2.00	2.00
Filters AK factor size 2	3.00	3.00
Filter Total AK Area	13	13.00
Filter1 FPM	-	282
Filter2 FPM	-	293
Filter3 FPM	-	267
Filter4 FPM	-	276
Filter5 FPM	-	294
Filter Ave FPM(corr)	-	282
CFM	3400	3667

Cooking Equipment	
	Actual
Item 1	OPEN FIRE GRILL

Completed By: Bayley Morvant on 07/30/2024

National TAB

Project: 07-18-24 UCHIKO (LEGACY WEST) PLANO, TX

System/Unit: Kitchen Hood Type I



Asset: HD-A1

AREA:LEFT HOOD

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XXEW-116-S	XXEW-116.00-S
Job / Serial Num	-	22802798
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	116"	116"
Hood Width	60"	60"
Supply Plenum Type	-	PSP
Supply Plenum Width	14"	14"
Supply Plenum Length	128"	128"

Test Data Exhaust		
	Design	Actual
Filter Type	XTRACTOR	XTRACTOR
Filter Size 1	16X20	16X20
Filter Size 2	20X20	20X20
Filter Qty 1	1	1
Filter Qty 2	5	5
Filter AK factor size 1	2.00	2.00
Filters AK factor size 2	3.00	3.00
Filter Total AK Area	17	17.00
Filter1 FPM	-	105
Filter2 FPM	-	118
Filter3 FPM	-	137
Filter4 FPM	-	147
Filter5 FPM	-	116
Filter6 FPM	-	117
Filter Ave FPM(corr)	-	123
CFM	2175	2091

Cooking Equipment	
	Actual
Item 1	OVEN
Item 2	FLAT TOP
Item 3	GAS STOVE

Test Data Supply		
	Design	Actual
Total AK Area	12.44	12.44
Kv factor (Vel)	0.89	0.89
Num of Readings	-	11
Reading1 FPM	-	173
Reading2 FPM	-	208
Reading3 FPM	-	226
Reading4 FPM	-	181
Reading5 FPM	-	198
Reading6 FPM	-	176
Reading7 FPM	-	154
Reading8 FPM	-	73
Reading9 FPM	-	81
Reading10 FPM	-	76
Reading11 FPM	-	109
Ave FPM(corr)	-	150
CFM	1826	1660

Completed By: Bayley Morvant on 07/30/2024

National TAB

Project: 07-18-24 UCHIKO (LEGACY WEST) PLANO, TX

System/Unit: Kitchen Hood Type I



Asset: HD-B1

AREA:RIGHT HOOD SERVED BY

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XXEW-116-S	XXEW-115.00-S
Job / Serial Num	-	22802800
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	115"	115"
Hood Width	60"	60"
Supply Plenum Type	-	PSP
Supply Plenum Width	14"	14"
Supply Plenum Length	116"	115"

Test Data Exhaust		
	Design	Actual
Filter Type	X TRACTOR	XTRACTOR
Filter Size 1	16X20	16X20
Filter Size 2	20X20	20X20
Filter Qty 1	2	2
Filter Qty 2	4	4
Filter AK factor size 1	2.00	2.00
Filters AK factor size 2	3.00	3.00
Filter Total AK Area	16	16.00
Filter1 FPM	-	131
Filter2 FPM	-	114
Filter3 FPM	-	121
Filter4 FPM	-	135
Filter5 FPM	-	135
Filter6 FPM	-	115
Filter Ave FPM(corr)	-	125
CFM	2175	2000

Cooking Equipment	
	Actual
Item 1	GAS STOVE
Item 2	GAS STOVE
Item 3	FRYER

Test Data Supply		
	Design	Actual
Total AK Area	11.28	11.18
Kv factor (Vel)	0.89	0.89
Num of Readings	-	10
Reading1 FPM	-	135
Reading2 FPM	-	105
Reading3 FPM	-	106
Reading4 FPM	-	170
Reading5 FPM	-	276
Reading6 FPM	-	283
Reading7 FPM	-	300
Reading8 FPM	-	290
Reading9 FPM	-	290
Reading10 FPM	-	275
Ave FPM(corr)	-	223
CFM	1654	2218

Completed By: Bayley Morvant on 07/30/2024

National TAB

Project: 07-18-24 UCHIKO (LEGACY WEST) PLANO, TX

System/Unit: Kitchen Hood Type II



Asset: DISH HD1

AREA:SERVED BY EF-3

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XD1-84-S	XD1-84.00-S
Serial Num	-	22802797
Type	TYPE II CANOPY	TYPE II CANOPY
Hood length	84"	84"
Hood Width	36"	39"

Test Data		
	Design	Actual
Exhaust CFM	1400	981

Completed By: Bayley Morvant on 07/30/2024

