Report By:

National TAB
1329 E Kemper Rd, Ste 4210
Cincinnati, OH 45246

Report: **Test and Balance**
Date: **6/24/2020**

PROJECT

CW - 3401 OLYMPUS - SHELL (DALLAS, TX)

3401 OLYMPUS BLVD
DALLAS, TX

Client

Venture Mechanical, Inc.
1644 West Crosby Road
Carrollton, TX 75006

National TAB

Project: CW - 3401 OLYMPUS - SHELL (DALLAS, TX)

Table Of Contents

National TAB

Testing, Adjusting, and Balancing Equipment

Function		Range	Minimum Accuracy	Instrument Information	Calibration Date	Date Due
AIR	AIR PRESSURE	0 in wg to 10 in wg	2% +/- 0.001 in wg	Shortridge ADM-860C - S/N MO5066	11/22/2019	11/22/2020
	AIR VELOCITY INSTRUMENT	50 fpm to 3900 fpm	+/- 5 % +/- 7 fpm	Shortridge ADM-860C - S/N MO5066	11/22/2019	11/22/2020
	DIRECT HOOD READING	100 cfm to 2000 cfm	+/- 5 % +/- 7 cfm	DWYER SAH- S/N 01KB6V	3/30/2020	3/30/2021
TEMPERATURE	AIR METER	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - SRH77A S/N 090315046	6/4/2019	6/4/2020
	AIR PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - PD1388 7-6 S/N 5028	6/4/2019	6/4/2020
	IMMERSION METER	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - SRH77A S/N 090315046	6/4/2019	6/4/2020
	IMMERSION PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - PD1388 7-6 S/N 1075	6/4/2019	6/4/2020
	CONTACT METER	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - SRH77A S/N 090315046	6/4/2019	6/4/2020
	CONTACT PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - PD1388 7-6 S/N 4011	6/4/2019	6/4/2020
HUMIDITY	HUMIDITY PROBE	10 % RH to 90 % RH	3% of reading	Cooper ATKINS - SRH77A S/N 090315046	6/4/2019	6/4/2020
ELECTRICAL	VOLTAGE MEASUREMENT	0 VAC to 600 VAC	2 % reading +/- 5 digits	Fluke 334 , S/N: 87004594	6/3/2019	6/3/2020
	AMPERAGE MEASUREMENT	0 Amperers to 100 Amperes	2 % reading +/- 5 digits	Fluke 334 , S/N: 87004594	6/3/2019	6/3/2020
ROTATION	ROTATION MEASUREMENT	60 rpm to 5000 rpm	2 % reading 2 rpm	SHIMPO DT-207LR S/N: C4AB0029	6/3/2019	6/3/2020
HYDRONIC	PRESSURE MEASUREMENT	-30 in Hg to 200 psi	±2% of reading +/- 1 psi	Alnor HM680 S/N: 70807241	1/5/2020	1/5/2021
	DIFFERENTIAL PRESSURE MEASUREMENT	0 psi - 80 psi	±2% of reading +/- 1 psi	Alnor HM680 S/N: 70807241	1/5/2020	1/5/2021

ABBREVIATIONS

AK	Area Factor
B.H.P.	Brake Horse Power
CFM	Cubic Feet Per Minute
CO2	Carbon Dioxide
CO	Carbon Monoxide
CH2O	Formaldehyde
CD	Ceiling Diffuser
CLG	Cooling
CF	Correction Factor
DB	Dry Bulb
Dir	Direction
EA	Exhaust Air
Eff.	Efficiency
EF	Exhaust Fan
EAT	Entering Air Temperature
EG	Exhaust Grille
E.S.P.	External Static Pressure
EWT	Entering Water Temperature
FPM	Feet Per Minute
F.L.	Full Load
FPVAV	Fan Powered Variable Air Volume
FT	Feet
F	Fahrenheit
GPM	Gallons Per Minute
H.P.	Horse Power
HTG	Heating
IN	Inches
LAT	Leaving Air Temperature
LWT	Leaving Water Temperature
MIN	Minimum
MAX	Maximum
NEBB	National Environmental Balancing Bureau
N/A	Not Applicable
NA	No Access
NL	Not Listed
NO.	Number
NPSH	Net Positive Suction Head
NOX	Mono – Nitrogen Oxides
NS	Not Specified
OA	Outside Air
OAT	Outdoor Air Temperature
P.F.	Power Factor
P.D.	Pressure Drop
PPM	Parts Per Million
PSI	Pounds Per Square Inch
PSID	PSI Differential
RA	Return Air
RH	Relative Humidity
RF	Return Fan
RPM	Rotations Per Minute
RAT	Return Air Temperature
RG	Return Grille
SA	Supply Air
S.F.	Service Factor
SF	Supply Fan
S.P.	Static Pressure
SR	Supply Register
SQ.	Square
TEMP	Temperature
T.S.P.	Total Static Pressure
VEL	Velocity
VFD	Variable Frequency Drive
VAV	Variable Air Volume
VVR	Variable Volume Reheat
WB	Wet Bulb
WC	Water Column
%	Percentage
#	Number

System/Unit: DOAS Units

Asset: DOAS1 AREA: 1st & 2nd Floor

Unit Data		
	Design	**Actual**
MFG	ADDISON	ADDISON
Model Num	PROA	PROA540H8
Serial Num	-	190602902001
Configuration	-	VERTICAL
Num PreFilter 1	-	3 25X25X2
PreFilter Size 1	-	6 20X25X2

Test Data		
	Design	**Actual**
SF CFM	9540	9656
SF RPM	-	1645
OA CFM	9540	9656
RL Voltage	-	372
RL Amperage	-	7.9
SF Motor Freq(HZ)	-	56.1
Brake Horse Power	-	6.37

Motor Data		
	Design	**Actual**
Motor MFG	-	WEG
Frame	-	213/5T
Horsepower	-	10
Motor Rpm	-	1770
Phase	-	3
Rated Voltage	230/460	460
Rated Amperage	24.8/12.4	12.4
Service Factor	-	1.15

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.146
Fan Suction SP	-	-0.646
Fan Discharge SP	-	0.957
Total ESP	2.0	1.603
Fan Total SP	-	0.792
Pre-Filter Delta SP	-	* COMBINED
DX Coil Delta SP	-	0.50 *

Completed By: Brian Irvin on 06/12/2020

Notes:

Diffuser Supply (GRD)

DOAS1 / 1st & 2nd Floor

Asset	Area Served	Type	Size	DESIGN CFM	AK	VEL(1)	CFM(1)	VEL(2)	FINAL CFM	% to design
DOAS1-SGRD1	2ND FLOOR	DUCT	42X14	4770		1020	4181	1193	4891	102.5
DOAS1-SGRD2	1ST FLOOR	DUCT	28X20	4770		1205	4700	1222	4765	99.9

Completed By: Brian Irvin on 06/12/2020

Asset	Area Served	Notes

System/Unit: DOAS Units

Asset: DOAS2 AREA: 3rd- 5th Floor

Unit Data		
	Design	**Actual**
MFG	ADDISON	ADDISON
Model Num	PROA	PROA840E8
Serial Num	-	190602802001
Configuration	-	VERTICAL
Num PreFilter 1	-	3 25X25X2
PreFilter Size 1	-	6 20X25X2

Test Data		
	Design	**Actual**
SF CFM	14460	14001
SF RPM	-	2124
OA CFM	14460	14001
RL Voltage	-	488
RL Amperage	-	9.45
SF Motor Freq(HZ)	-	70.8
Brake Horse Power	-	7.62

Motor Data		
	Design	**Actual**
Motor MFG	-	WEG
Frame	-	213/5T
Horsepower	-	10
Motor Rpm	-	1770
Phase	-	3
Rated Voltage	230/460	460
Rated Amperage	24.8/12.4	12.4
Service Factor	-	1.15

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.169
Fan Suction SP	-	-0.771
Fan Discharge SP	-	1.390
Total ESP	2.0	2.161
Fan Total SP	-	1.559
Pre-Filter Delta SP	-	*COMBINED
DX Coil Delta SP	-	0.60 *

Completed By: Brian Irvin on 06/12/2020

Notes:

Diffuser Supply (GRD)

DOAS2 / 3rd- 5th Floor

Asset	Area Served	Type	Size	DESIGN CFM	AK	VEL(1)	CFM(1)	VEL(2)	FINAL CFM	% to design
DOAS2-SGRD1	5TH FLOOR	DUCT	42X14	4820		1155	4737	1142	4682	97.1
DOAS2-SGRD2	4TH FLOOR	DUCT	42X14	4820		952	3903	1131	4637	96.2
DOAS2-SGRD3	3RD FLOOR	DUCT	42X14	4820		1109	4548	1142	4682	97.1

Completed By: Brian Irvin on 06/12/2020

Asset	Area Served	Notes

System/Unit: FAN - Exhaust

Asset: EF1 AREA: 1 &2 Relief

Unit Data		
	Design	**Actual**
MFG	GREENHECK	GREENHECK
Model Num	GB	GB-240HP-VGD-30-X
Serial Num	-	15991672
Type	CRE	CRE

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	182T
Horsepower	-	3
Motor Rpm	-	1765
Phase	-	3
Voltage (rated)	230/460	460
Amperage (rated)	-	8.4/4.2
Service Factor	-	1.15

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	4.875
Motor Bore Size	-	1.125
Motor Sheave SetPt	-	FIXED
Fan Sheave Size	-	AK71
Fan Sheave Bore	-	1
Belt CL Distance	-	7.125
Num of Belts	-	1
Belt Size	-	AX31

Test Data		
	Design	**Actual**
CFM	5560	5576
Fan RPM	-	1230
RL Voltage	-	489
RL Amperage	-	3.23
Suction ESP	-	-0.988
Discharge ESP	-	ATM
Total ESP	-	0.988
Brake Horse Power	-	2.31

Completed By: Brian Irvin on 06/12/2020

Notes:

Diffuser Ret/Exh (GRD)

EF1 / 1 &2 Relief

Asset	Area Served	Type	Size	DESIGN CFM	AK	VEL(1)	CFM(1)	VEL(2)	FINAL CFM	% to design
EF1-EGRD1	2ND FLOOR	DUCT	26X14	2780		894	2262	1112	2813	101.2
EF1-EGRD2	1ST FLOOR	DUCT	26X14	2780		766	1937	1092	2763	99.4

Completed By: Brian Irvin on 06/12/2020

Asset	Area Served	Notes

System/Unit: FAN - Exhaust

Asset: EF2 AREA: RRs

Unit Data		
	Design	**Actual**
MFG	GREENHECK	GREENHECK
Model Num	GB	GB-24OHP-30-X
Serial Num	-	15991710
Type	CRE	CRE

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	182T
Horsepower	-	3
Motor Rpm	-	1765
Phase	-	3
Voltage (rated)	460	460
Amperage (rated)	-	4.2
Service Factor	-	1.15

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	VP56
Motor Bore Size	-	1.125
Motor Sheave SetPt	-	4.6
Fan Sheave Size	-	AK89
Fan Sheave Bore	-	1
Belt CL Distance	-	8.125
Num of Belts	-	1
Belt Size	-	AP36

Test Data		
	Design	**Actual**
CFM	5150	5089
Fan RPM	-	999
RL Voltage	-	490
RL Amperage	-	2.9
Suction ESP	-	-0.842
Discharge ESP	-	ATM
Total ESP	-	0.842
Brake Horse Power	-	2.07

Completed By: Brian Irvin on 06/12/2020

Notes:

Diffuser Ret/Exh (GRD)

EF2 / RRs

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EF2-EGRD1	5th floor men			490		834	499	499	101.8
EF2-EGRD2	5th floor women			490		805	483	483	98.6
EF2-EGRD3	5th floor JC			50		208	51	51	102.0
EF2-EGRD4	4th floor men			490		388	475	475	96.9
EF2-EGRD5	4th floor women			490		526	480	480	98.0
EF2-EGRD6	4th floor JC			50		158	48	48	96.0
EF2-EGRD7	3RD FLOOR WOMEN			490		384	503	503	102.7
EF2-EGRD8	3RD FLOOR MEN			490		362	484	484	98.8
EF2-EGRD9	3RD FLOOR JC			50		121	44	44	88.0
EF2-EGRD10	2ND FLOOR MEN			490		289	477	477	97.3
EF2-EGRD11	2ND FLOOR WOMEN			490		278	463	463	94.5
EF2-EGRD12	2ND FLOOR JC			50		145	52	52	104.0
EF2-EGRD13	1ST FLOOR MEN			490		224	489	489	99.8
EF2-EGRD14	1ST FLOOR WOMEN			490		274	490	490	100.0
EF2-EGRD15	1ST FLOOR JC			50		108	51	51	102.0

Completed By: Brian Irvin on 06/12/2020

Asset	Area Served	Notes

System/Unit: FAN - Exhaust

Asset: EF3 AREA: 3,4 & 5 Relief

Unit Data		
	Design	**Actual**
MFG	GREENHECK	GREENHECK
Model Num	GB	GB-300-VGD-30-X
Serial Num	-	15991729
Type	CRE	CRE

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	182T
Horsepower	-	3
Motor Rpm	-	1765
Phase	-	3
Voltage (rated)	230/460	460
Amperage (rated)	-	4.2
Service Factor	-	1.15

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	4.875
Motor Bore Size	-	1.125
Motor Sheave SetPt	-	FIXED
Fan Sheave Size	-	AK114
Fan Sheave Bore	-	1
Belt CL Distance	-	11.625
Num of Belts	-	1
Belt Size	-	AP47

Test Data		
	Design	**Actual**
CFM	8475	8687
Fan RPM	-	746
RL Voltage	-	492
RL Amperage	-	3.1
Suction ESP	-	-0.902
Discharge ESP	-	ATM
Total ESP	-	0.902
Brake Horse Power	-	2.21

Completed By: Brian Irvin on 06/12/2020

Notes:

Diffuser Ret/Exh (GRD)

EF3 / 3,4 & 5 Relief

Asset	Area Served	Type	Size	DESIGN CFM	AK	VEL(1)	CFM(1)	VEL(2)	FINAL CFM	% to design
EF3-EGRD1	5TH FL0OR	DUCT	26X14	2825		1220	3086	1151	2912	103.1
EF3-EGRD2	4TH FLOOR	DUCT	26X14	2825		995	2517	1147	2901	102.7
EF3-EGRD3	3RD FLOOR	DUCT	26X14	2825		681	1722	1136	2874	101.7

Completed By: Brian Irvin on 06/12/2020

Asset	Area Served	Notes

System/Unit: FAN - Exhaust

Asset: EF4 AREA: CRAWL SPACE

Unit Data		
	Design	**Actual**
MFG	GREENHECK	GREENHECK
Model Num	SE1-18-424-VG	SE1-18-424-VG
Serial Num	-	NL
Type	SIDEWALL	SIDEWALL

Test Data		
	Design	**Actual**
CFM	3000	3247
RL Voltage	-	212
RL Amperage	-	4.2
Total ESP	0.40	NR

Motor Data		
	Design	**Actual**
Motor MFG	-	VARI-GREEN
Frame	-	NL
Horsepower	0.75	0.75
Motor Rpm	1598	1598
Phase	1	1
Voltage (rated)	115	115/208-230
Amperage (rated)	-	10.0/6.0
Service Factor	-	NL

Completed By: Brian Irvin on 06/12/2020

Notes:

NATIONAL TAB

National TAB

Project: CW - 3401 OLYMPUS - SHELL (DALLAS, TX)

System/Unit: Fan Coil

Asset: FC-L-1 Area: Lobby

Unit Data	
MFG	Mitsubishi
Model Num	PEFY-P48
Serial Num	99R03517
Configuration	Horizontal

Motor Data	
Horsepower	NA
Phase	1
Voltage (rated)	208
Amperage (rated)	2.0

Test Data		
	Design	**Actual**
SFAN CFM	1665	1674
Motor Speed SetPt	High	HIGH
RL Voltage	208	213
RL Amperage	2.0	1.8

Performance Data		
	Design	**Actual**
Suction ESP		0.12
Discharge ESP		0.44
Total ESP	0.60	0.56
Cooling EAT	75.0	78
Cooling LAT	52.2	59
Heating EAT	70.0	78
Heating LAT	95.3	101

Diffuser Supply (GRD)

Asset	Area Served	Type	Size	Design CFM	Pre CFM	Final CFM	% to design
SGRD1	1st Fl West	H	8	185	133	201	1.09
SGRD2	1st Fl West	H	8	185	160	199	1.08
SGRD3	1st Fl West	H	8	185	124	202	1.09
SGRD4	1st Fl West	H	8	185	123	170	0.92
SGRD5	1st Fl West	H	8	185	129	169	0.91
SGRD6	1st Fl West	H	8	185	168	184	0.99
SGRD7	1st Fl West	H	8	185	184	186	1.01
SGRD8	1st Fl West	H	8	185	147	183	0.99
SGRD9	1st Fl West	H	8	185	186	180	0.97
				1665		1674	

National TAB

Project: CW - 3401 OLYMPUS - SHELL (DALLAS, TX)

System/Unit: Fan Coil

Asset: FC-L-2 Area: Lobby

Unit Data	
MFG	Mitsubishi
Model Num	PEFY-P36
Serial Num	97R03994
Configuration	Horizontal

Motor Data	
Horsepower	NA
Phase	1
Voltage (rated)	208
Amperage (rated)	1.5

Test Data		
	Design	**Actual**
SFAN CFM	1160	1153
Motor Speed SetPt	High	HIGH
RL Voltage	208	211
RL Amperage	1.5	1.2

Performance Data		
	Design	**Actual**
Suction ESP		0.16
Discharge ESP		0.39
Total ESP	0.60	0.55
Cooling EAT	75.0	78
Cooling LAT	53.3	58
Heating EAT	70.0	78
Heating LAT	92.7	95

Diffuser Supply (GRD)

Asset	Area Served	Type	Size	Design CFM	Pre CFM	Final CFM	% to design
SGRD1	1st Fl West	H	10	290	212	284	0.98
SGRD2	1st Fl West	H	10	290	163	280	0.97
SGRD3	1st Fl West	H	10	290	244	296	1.02
SGRD4	1st Fl West	H	10	290	281	293	1.01
				1160		1153	0.99

National TAB

Project: CW - 3401 OLYMPUS - SHELL (DALLAS, TX)

System/Unit: Fan Coil

Asset: FC- L-3 Area: Lobby

Unit Data	
MFG	Mitsubishi
Model Num	PEFY-P54
Serial Num	98R01794
Configuration	Horizontal

Motor Data	
Horsepower	NA
Phase	1
Voltage (rated)	208
Amperage (rated)	2.2

Test Data		
	Design	**Actual**
SFAN CFM	1480	1442
Motor Speed SetPt	High	HIGH
RL Voltage	208	212
RL Amperage	2.2	1.6

Performance Data		
	Design	**Actual**
Suction ESP		0.1
Discharge ESP		0.43
Total ESP		0.53
Cooling EAT	75.0	78
Cooling LAT	51.3	56
Heating EAT	70.0	78
Heating LAT	96.8	96

Diffuser Supply (GRD)

Asset	Area Served	Type	Size	Design CFM	Pre CFM	Final CFM	% to design
SGRD1	2nd Fl West	H	10	370	249	364	0.98
SGRD2	2nd Fl West	H	10	370	316	366	0.99
SGRD3	2nd Fl West	H	10	370	89	358	0.97
SGRD4	2nd Fl West	H	10	370	374	354	0.96
				1480		1442	0.97

NATIONAL TAB

National TAB

Project: CW - 3401 OLYMPUS - SHELL (DALLAS, TX)

System/Unit: Fan Coil

Asset: FC-L-4 Area: Lobby

Unit Data	
MFG	Mitsubishi
Model Num	PEFY-P18
Serial Num	97R04608
Configuration	Horizontal

Motor Data	
Horsepower	NA
Phase	1
Voltage (rated)	208
Amperage (rated)	0.80

Test Data		
	Design	**Actual**
SFAN CFM	600	577
Motor Speed SetPt	High	HIGH
RL Voltage	208	212
RL Amperage	0.8	0.7

Performance Data		
	Design	**Actual**
Suction ESP		0.04
Discharge ESP		0.13
Total ESP	0.60	0.17
Cooling EAT	75.0	78
Cooling LAT	54.3	59
Heating EAT	70.0	55
Heating LAT	92.1	98

Diffuser Supply (GRD)

Asset	Area Served	Type	Size	Design CFM	Pre CFM	Final CFM	% to design
SGRD1	2nd Fl West	H	10	300	156	291	0.97
SGRD2	2nd Fl West	H	10	300	148	286	0.95
				600		577	0.96

National TAB

Project: CW - 3401 OLYMPUS - SHELL (DALLAS, TX)

System/Unit: Fan Coil

Asset: FC-L-5 Area: Lobby

Unit Data	
MFG	Mitsubishi
Model Num	PEFY-P72
Serial Num	97W07207
Configuration	Horizontal

Motor Data	
Horsepower	
Phase	1
Voltage (rated)	208
Amperage (rated)	3.7

Test Data		
	Design	**Actual**
SFAN CFM	2500	2503
Motor Speed SetPt	High	HIGH
RL Voltage	208	213
RL Amperage	3.7	2.6

Performance Data		
	Design	**Actual**
Suction ESP		0.21
Discharge ESP		0.69
Total ESP	1.00	0.9
Cooling EAT	75.0	78
Cooling LAT	54.8	59
Heating EAT	70.0	78
Heating LAT	90.8	95

Diffuser Supply (GRD)

Asset	Area Served	Type	Size	Design CFM	Pre CFM	Final CFM	% to design
SGRD1	2nd Fl West	H	10	355	226	356	1.00
SGRD2	2nd Fl West	H	10	355	284	355	1.00
SGRD3	2nd Fl West	H	10	355	213	340	0.96
SGRD4	2nd Fl West	H	10	355	256	361	1.02
SGRD5	2nd Fl West	H	10	360	305	369	1.03
SGRD6	2nd Fl West	H	10	360	316	368	1.02
SGRD7	2nd Fl West	H	10	360	328	354	0.98
				2500		2503	

National TAB

Project: CW - 3401 OLYMPUS - SHELL (DALLAS, TX)

System/Unit: Fan Coil

Asset: FC-L-6 Area: Lobby

Unit Data	
MFG	Mitsubishi
Model Num	PEFY-P72
Serial Num	97W07292
Configuration	Horizontal

Motor Data	
Horsepower	
Phase	1
Voltage (rated)	208
Amperage (rated)	3.7

Test Data		
	Design	**Actual**
SFAN CFM	2500	2534
Motor Speed SetPt	High	HIGH
RL Voltage	208	212
RL Amperage	3.7	3

Performance Data		
	Design	**Actual**
Suction ESP		0.26
Discharge ESP		0.71
Total ESP	1.00	0.97
Cooling EAT	75.0	78
Cooling LAT	54.8	58
Heating EAT	70.0	78
Heating LAT	90.8	93

Diffuser Supply (GRD)

Asset	Area Served	Type	Size	Design CFM	Pre CFM	Final CFM	% to design
SGRD1	2nd Fl West	H	12	415	320	418	1.01
SGRD2	2nd Fl West	H	12	415	369	422	1.02
SGRD3	2nd Fl West	H	12	415	354	438	1.06
SGRD4	2nd Fl West	H	12	415	356	425	1.02
SGRD5	2nd Fl West	H	12	420	284	416	0.99
SGRD6	2nd Fl West	H	12	420	396	415	0.99
				2500		2534	1.01

NATIONAL TAB

National TAB

Project: CW - 3401 OLYMPUS - SHELL (DALLAS, TX)

System/Unit: Fan Coil

Asset: FC- L-7 Area: Crawl Space

Unit Data	
MFG	Mitsubishi
Model Num	PEFY-P15
Serial Num	NOT LEGIBLE
Configuration	Horizontal

Motor Data	
Horsepower	
Phase	1
Voltage (rated)	208
Amperage (rated)	0.70

Test Data		
	Design	**Actual**
SFAN CFM	490	493
Motor Speed SetPt	High	HIGH
RL Voltage	208	212
RL Amperage	0.70	0.5

Performance Data		
	Design	**Actual**
Suction ESP		0.5
Discharge ESP		0.42
Total ESP	0.60	0.47
Cooling EAT	75.0	78
Cooling LAT	54.1	56
Heating EAT	70.0	78
Heating LAT	92.8	96

Diffuser Supply (GRD)

Asset	Area Served	Type	Size	Design CFM	Pre CFM	Final CFM	% to design
SGRD1	Crawl Space	J	10	245	213	247	1.01
SGRD2	Crawl Space	J	10	245	213	246	1.00
				490		493	1.01

National TAB

Project: CW - 3401 OLYMPUS - SHELL (DALLAS, TX)

System/Unit: Fan Coil

Asset: FC-1-1 Area: 1st Floor

Unit Data	
MFG	Mitsubishi
Model Num	PEFY-P18
Serial Num	97R04607
Configuration	Horizontal

Motor Data	
Horsepower	NA
Phase	1
Voltage (rated)	208
Amperage (rated)	0.80

Test Data		
	Design	**Actual**
SFAN CFM	400	417
Motor Speed SetPt	Low	MED-HIGH
RL Voltage	208	213
RL Amperage	0.80	0.5

Performance Data		
	Design	**Actual**
Suction ESP		0.08
Discharge ESP		0.1
Total ESP	0.20	0.18
Cooling EAT	75.0	78
Cooling LAT	53.7	55
Heating EAT	70.0	78
Heating LAT	100.9	104

Diffuser Supply (GRD)

Asset	Area Served	Type	Size	Design CFM	Pre CFM	Final CFM	% to design
SGRD1	Vestibule	H	8	200	203	214	1.07
SGRD2	Vestibule	H	8	200	158	203	1.02
				400		417	1.04

National TAB

Project: CW - 3401 OLYMPUS - SHELL (DALLAS, TX)

System/Unit: Fan Coil

Asset: FC-1-2 Area: Restrooms

Unit Data	
MFG	Mitsubishi
Model Num	PEFY-P24
Serial Num	97R04750
Configuration	Horizontal

Motor Data	
Horsepower	NA
Phase	1
Voltage (rated)	208
Amperage (rated)	1.3

Test Data		
	Design	**Actual**
SFAN CFM	800	844
Motor Speed SetPt	med-high	HIGH
RL Voltage	208	212
RL Amperage	1.3	1.3

Performance Data		
	Design	**Actual**
Suction ESP		0.09
Discharge ESP		0.36
Total ESP	0.50	0.45
Cooling EAT	75.0	78
Cooling LAT	54.8	53
Heating EAT	70.0	78
Heating LAT	98.3	105

Diffuser Supply (GRD)

Asset	Area Served	Type	Size	Design CFM	Pre CFM	Final CFM	% to design
SGRD1	Men	H	10	400	318	423	1.06
SGRD2	Women	H	10	400	323	421	1.05
				800		844	1.06

NATIONAL TAB

National TAB

Project: CW - 3401 OLYMPUS - SHELL (DALLAS, TX)

System/Unit: Fan Coil

Asset: FC-1-3 Area: Electric Rooms

Unit Data	
MFG	Mitsubishi
Model Num	PEFY-P24
Serial Num	97R04749
Configuration	Horizontal

Motor Data	
Horsepower	NA
Phase	1
Voltage (rated)	208
Amperage (rated)	1.3

Test Data		
	Design	**Actual**
SFAN CFM	800	781
Motor Speed SetPt	med-high	HIGH
RL Voltage	208	213
RL Amperage	1.3	1.24

Performance Data		
	Design	**Actual**
Suction ESP		0.12
Discharge ESP		0.3
Total ESP	0.50	0.42
Cooling EAT	75.0	78
Cooling LAT	54.8	58
Heating EAT	70.0	78
Heating LAT	98.3	102

Diffuser Supply (GRD)

Asset	Area Served	Type	Size	Design CFM	Pre CFM	Final CFM	% to design
SGRD1	Electric Rm	D	12X8	400	364	394	0.99
SGRD2	Electric Rm	D	12X8	400	351	387	0.97
				800		781	0.98

NATIONAL TAB

National TAB

Project: CW - 3401 OLYMPUS - SHELL (DALLAS, TX)

System/Unit: Fan Coil

Asset: FC-1-4 Area: Corridor

Unit Data	
MFG	Mitsubishi
Model Num	PEFY-P18
Serial Num	98R04609
Configuration	Horizontal

Motor Data	
Horsepower	NA
Phase	1
Voltage (rated)	208
Amperage (rated)	0.80

Test Data		
	Design	**Actual**
SFAN CFM	400	410
Motor Speed SetPt	Low	MEDIUM
RL Voltage	208	212
RL Amperage	0.80	0.5

Performance Data		
	Design	**Actual**
Suction ESP		0.05
Discharge ESP		0.11
Total ESP	0.20	0.16
Cooling EAT	75.0	78
Cooling LAT	53.7	57
Heating EAT	70.0	78
Heating LAT	100.9	105

Diffuser Supply (GRD)

Asset	Area Served	Type	Size	Design CFM	Pre CFM	Final CFM	% to design
SGRD1	Corridor	A	8	200	184	202	1.01
SGRD2	Corridor	A	8	200	186	208	1.04
				400		410	1.03

National TAB

Project: CW - 3401 OLYMPUS - SHELL (DALLAS, TX)

System/Unit: Fan Coil

Asset: FC-1-5 Area: Office

Unit Data	
MFG	Mitsubishi
Model Num	PEFY-P24
Serial Num	97R04707
Configuration	Horizontal

Motor Data	
Horsepower	NA
Phase	1
Voltage (rated)	208
Amperage (rated)	1.3

Test Data		
	Design	**Actual**
SFAN CFM	800	769
Motor Speed SetPt	med-high	MEDIUM
RL Voltage	208	211
RL Amperage	1.3	0.46

Performance Data		
	Design	**Actual**
Suction ESP		0.1
Discharge ESP		0.18
Total ESP	0.50	0.28
Cooling EAT	75.0	78
Cooling LAT	54.8	53
Heating EAT	70.0	78
Heating LAT	98.3	97

Diffuser Supply (GRD)

Asset	Area Served	Type	Size	Design CFM	Pre CFM	Final CFM	% to design
SGRD1	Office	C	18X6	600	447	567	0.95
SGRD2	Storage	C	12X6	200	412	202	1.01
				800	859	769	0.96

National TAB

Project: CW - 3401 OLYMPUS - SHELL (DALLAS, TX)

System/Unit: Fan Coil

Asset: FC-1-6 Area: Corridor

Unit Data	
MFG	Mitsubishi
Model Num	PEFY-P12
Serial Num	98R07453
Configuration	Horizontal

Motor Data	
Horsepower	NA
Phase	1
Voltage (rated)	208
Amperage (rated)	0.70

Test Data		
	Design	**Actual**
SFAN CFM	400	418
Motor Speed SetPt	High	HIGH
RL Voltage	208	213
RL Amperage	0.70	0.5

Performance Data		
	Design	**Actual**
Suction ESP		0.09
Discharge ESP		0.45
Total ESP	0.60	0.54
Cooling EAT	75.0	78
Cooling LAT	54.0	56
Heating EAT	70.0	78
Heating LAT	103.7	102

Diffuser Supply (GRD)

Asset	Area Served	Type	Size	Design CFM	Pre CFM	Final CFM	% to design
SGRD1	Corridor	A	6	70	56	72	1.03
SGRD2	Corridor	A	6	70	52	70	1.00
SGRD3	Corridor	A	6	70	50	70	1.00
SGRD4	Office	A	6	50	47	65	1.30
SGRD5	Corridor	A	6	70	43	68	0.97
SGRD6	Corridor	A	6	70	62	73	1.04
				400		418	1.05

NATIONAL TAB

National TAB

Project: CW - 3401 OLYMPUS - SHELL (DALLAS, TX)

System/Unit: Fan Coil

Asset: FC-1-7 Area: Corridor

Unit Data	
MFG	Mitsubishi
Model Num	PEFY-P24
Serial Num	98R04751
Configuration	Horizontal

Motor Data	
Horsepower	NA
Phase	1
Voltage (rated)	208
Amperage (rated)	1.3

Test Data		
	Design	**Actual**
SFAN CFM	800	780
Motor Speed SetPt	med-high	HIGH
RL Voltage	208	212
RL Amperage	1.3	0.9

Performance Data		
	Design	**Actual**
Suction ESP		0.09
Discharge ESP		0.38
Total ESP	0.50	0.47
Cooling EAT	75.0	78
Cooling LAT	54.8	59
Heating EAT	70.0	78
Heating LAT	98.3	97

Diffuser Supply (GRD)

Asset	Area Served	Type	Size	Design CFM	Pre CFM	Final CFM	% to design
SGRD1	Corridor	A	6	80	85	81	1.01
SGRD2	Corridor	A	6	80	93	79	0.99
SGRD3	Pass Thru	H	8	175	51	166	0.95
SGRD4	Storage	A	6	50	54	52	1.04
SGRD5	Pass Thru	H	8	175	63	163	0.93
SGRD6	Corridor	A	6	80	62	81	1.01
SGRD7	Corridor	A	6	80	81	81	1.01
SGRD8	Corridor	A	6	80	74	77	0.96
				800		780	

NATIONAL TAB

National TAB

Project: CW - 3401 OLYMPUS - SHELL (DALLAS, TX)

System/Unit: Fan Coil

Asset: FC-2-1 Area: Restrooms

Unit Data	
MFG	Mitsubishi
Model Num	PEFY-P24
Serial Num	97R04739
Configuration	Horizontal

Motor Data	
Horsepower	NA
Phase	1
Voltage (rated)	208
Amperage (rated)	1.3

Test Data		
	Design	**Actual**
SFAN CFM	800	783
Motor Speed SetPt	med-high	HIGH
RL Voltage	208	211
RL Amperage	1.3	1.09

Performance Data		
	Design	**Actual**
Suction ESP		0.22
Discharge ESP		0.26
Total ESP	0.50	0.48
Cooling EAT	75.0	78
Cooling LAT	54.7	58
Heating EAT	70.0	78
Heating LAT	98.3	99

Diffuser Supply (GRD)

Asset	Area Served	Type	Size	Design CFM	Pre CFM	Final CFM	% to design
SGRD1	Men	H	10	400	316	396	0.99
SGRD2	Women	H	10	400	322	387	0.97
				800		783	0.98

National TAB

Project: CW - 3401 OLYMPUS - SHELL (DALLAS, TX)

System/Unit: Fan Coil

Asset: FC-2-2 Area: Electric Room

Unit Data	
MFG	Mitsubishi
Model Num	PEFY-P24
Serial Num	97R04723
Configuration	Horizontal

Motor Data	
Horsepower	NA
Phase	1
Voltage (rated)	208
Amperage (rated)	1.3

Test Data		
	Design	**Actual**
SFAN CFM	800	840
Motor Speed SetPt	med-high	MED
RL Voltage	208	213
RL Amperage	1.3	0.87

Performance Data		
	Design	**Actual**
Suction ESP		0.15
Discharge ESP		0.13
Total ESP	0.50	0.28
Cooling EAT	75.0	78
Cooling LAT	54.7	60
Heating EAT	70.0	78
Heating LAT	98.3	101

Diffuser Supply (GRD)

Asset	Area Served	Type	Size	Design CFM	Pre CFM	Final CFM	% to design
SGRD1	Electric Rm	D	12X8	400	538	422	1.06
SGRD2	Electric Rm	D	12X8	400	526	418	1.05
				800		840	1.05

NATIONAL TAB

National TAB

Project: CW - 3401 OLYMPUS - SHELL (DALLAS, TX)

System/Unit: Fan Coil

Asset: FC-3-1 Area: Restrooms

Unit Data	
MFG	Mitsubishi
Model Num	PEFY-P24
Serial Num	97R04706
Configuration	Horizontal

Motor Data	
Horsepower	NA
Phase	1
Voltage (rated)	208
Amperage (rated)	1.3

Test Data		
	Design	**Actual**
SFAN CFM	800	771
Motor Speed SetPt	med-high	HIGH
RL Voltage	208	213
RL Amperage	1.3	0.86

Performance Data		
	Design	**Actual**
Suction ESP		0.32
Discharge ESP		0.23
Total ESP	0.50	0.55
Cooling EAT	75.0	78
Cooling LAT	54.7	62
Heating EAT	70.0	78
Heating LAT	98.3	103

Diffuser Supply (GRD)

Asset	Area Served	Type	Size	Design CFM	Pre CFM	Final CFM	% to design
SGRD1	Men	H	10	400	179	384	0.96
SGRD2	Women	H	10	400	184	387	0.97
				800		771	0.96

National TAB

Project: CW - 3401 OLYMPUS - SHELL (DALLAS, TX)

System/Unit: Fan Coil

Asset: FC-3-2 Area: Electric Room

Unit Data	
MFG	Mitsubishi
Model Num	PEFY-P24
Serial Num	97R04738
Configuration	Horizontal

Motor Data	
Horsepower	NA
Phase	1
Voltage (rated)	208
Amperage (rated)	1.3

Test Data		
	Design	**Actual**
SFAN CFM	800	807
Motor Speed SetPt	med-high	MED-HIGH
RL Voltage	208	213
RL Amperage	1.3	0.95

Performance Data		
	Design	**Actual**
Suction ESP		0.16
Discharge ESP		0.11
Total ESP	0.50	0.26
Cooling EAT	75.0	78
Cooling LAT	54.7	59
Heating EAT	70.0	78
Heating LAT	98.3	99

Diffuser Supply (GRD)

Asset	Area Served	Type	Size	Design CFM	Pre CFM	Final CFM	% to design
SGRD1	Electric Rm	D	12X8	400	387	413	1.03
SGRD2	Electric Rm	D	12X8	400	367	394	0.99
				800		807	1.01

NATIONAL TAB

National TAB

Project: CW - 3401 OLYMPUS - SHELL (DALLAS, TX)

System/Unit: Fan Coil

Asset: FC-4-1 Area: Restrooms

Unit Data	
MFG	Mitsubishi
Model Num	PEFY-P24
Serial Num	97R04748
Configuration	Horizontal

Motor Data	
Horsepower	NA
Phase	1
Voltage (rated)	208
Amperage (rated)	1.3

Test Data		
	Design	**Actual**
SFAN CFM	800	765
Motor Speed SetPt	med-high	HIGH
RL Voltage	208	213
RL Amperage	1.3	0.76

Performance Data		
	Design	**Actual**
Suction ESP		0.15
Discharge ESP		0.28
Total ESP	0.50	0.43
Cooling EAT	75.0	78
Cooling LAT	54.7	58
Heating EAT	70.0	78
Heating LAT	98.3	99

Diffuser Supply (GRD)

Asset	Area Served	Type	Size	Design CFM	Pre CFM	Final CFM	% to design
SGRD1	Men	H	10	400	201	389	0.97
SGRD2	Women	H	10	400	198	376	0.94
				800		765	0.96

National TAB

Project: CW - 3401 OLYMPUS - SHELL (DALLAS, TX)

System/Unit: Fan Coil

Asset: FC-4-2 Area: Electric Room

Unit Data	
MFG	Mitsubishi
Model Num	PEFY-P24
Serial Num	97R04718
Configuration	Horizontal

Motor Data	
Horsepower	NA
Phase	1
Voltage (rated)	208
Amperage (rated)	1.3

Test Data		
	Design	**Actual**
SFAN CFM	800	825
Motor Speed SetPt	med-high	MED
RL Voltage	208	213
RL Amperage	1.3	0.44

Performance Data		
	Design	**Actual**
Suction ESP		0.12
Discharge ESP		0.18
Total ESP	0.50	0.3
Cooling EAT	75.0	78
Cooling LAT	54.7	56
Heating EAT	70.0	78
Heating LAT	98.3	103

Diffuser Supply (GRD)

Asset	Area Served	Type	Size	Design CFM	Pre CFM	Final CFM	% to design
SGRD1	Electric Rm	D	12X8	400	537	415	1.04
SGRD2	Electric Rm	D	12X8	400	524	410	1.03
				800		825	1.03

NATIONAL TAB

National TAB

Project: CW - 3401 OLYMPUS - SHELL (DALLAS, TX)

System/Unit: Fan Coil

Asset: FC-5-1 Area: Restrooms

Unit Data	
MFG	Mitsubishi
Model Num	PEFY-P24
Serial Num	97R04708
Configuration	Horizontal

Motor Data	
Horsepower	NA
Phase	1
Voltage (rated)	208
Amperage (rated)	1.3

Test Data		
	Design	**Actual**
SFAN CFM	800	782
Motor Speed SetPt	med-high	HIGH
RL Voltage	208	212
RL Amperage	1.3	0.73

Performance Data		
	Design	**Actual**
Suction ESP		0.13
Discharge ESP		0.43
Total ESP	0.50	0.56
Cooling EAT	75.0	78
Cooling LAT	54.7	60
Heating EAT	70.0	78
Heating LAT	98.3	99

Diffuser Supply (GRD)

Asset	Area Served	Type	Size	Design CFM	Pre CFM	Final CFM	% to design
SGRD1	Men	H	10	400	240	388	0.97
SGRD2	Women	H	10	400	235	394	0.99
				800		782	0.98

National TAB

Project: CW - 3401 OLYMPUS - SHELL (DALLAS, TX)

System/Unit: Fan Coil

Asset: FC-5-2 Area: Electric Room

Unit Data	
MFG	Mitsubishi
Model Num	PEFY-P24
Serial Num	97R4709
Configuration	Horizontal

Motor Data	
Horsepower	NA
Phase	1
Voltage (rated)	208
Amperage (rated)	1.3

Test Data		
	Design	**Actual**
SFAN CFM	800	819
Motor Speed SetPt	med-high	MED
RL Voltage	208	213
RL Amperage	1.3	0.46

Performance Data		
	Design	**Actual**
Suction ESP		0.13
Discharge ESP		0.11
Total ESP	0.50	0.23
Cooling EAT	75.0	78
Cooling LAT	54.7	61
Heating EAT	70.0	78
Heating LAT	98.3	101

Diffuser Supply (GRD)

Asset	Area Served	Type	Size	Design CFM	Pre CFM	Final CFM	% to design
SGRD1	Electric Rm	D	12X8	400	567	404	1.01
SGRD2	Electric Rm	D	12X8	400	558	415	1.04
				800		819	1.02