

Report By:

**NATIONAL** 

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

Report: Test and Balance

Date: 12/1/2020

# PROJECT

**CW - 3401 CALIBER HOMES SUITE 300 (DALLAS, TX)**

3401 OLYMPUS BLVD SUITE 300  
DALLAS, TX 75019

Client

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# National TAB

Project: CW - 3401 CALIBER HOMES SUITE 300 (DALLAS, TX)

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# CERTIFICATION

**PROJECT:** CW - 3401 CALIBER HOMES SUITE 300 (DALLAS, TX)

The data presented in this report is a record of system measurements and final adjustments that have been obtained in accordance with the current edition of the NEBB *Procedural Standards for Testing, Adjusting, and Balancing of Environmental Systems*. Any variances from design quantities, which exceed NEBB tolerances, are noted in the Test-Adjust-Balance Report Project Summary.

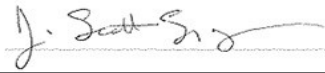
The air distribution system has been tested and balanced and final adjustments have been made in accordance with NEBB standards and the project specifications.

**NEBB TAB FIRM:** National TAB-Southeast  
**REGISTRATION NO:** 3755  
**CERTIFIED BY:** J. Scott Springer 23312  
**DATE:** 12/1/2020

The hydronic distribution system has been tested and balanced and final adjustments have been made in accordance with NEBB standards and the project specifications.

**NEBB TAB FIRM:** National TAB-Southeast  
**REGISTRATION NO:** 3086  
**CERTIFIED BY:** J. Scott Springer 23312  
**DATE:** \_\_\_\_\_

## Submitted and Certified by:

**NEBB TAB FIRM:** National TAB-Southeast  
**TAB PROFESSIONAL:** J. Scott Springer  
**SIGNATURE:**   
**REGISTRATION NO:** 3755 (NTAB) / 23312  
**CERTIFICATION EXP:** 3/31/2021





# 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	Dwyer DP-3 - S/N 0399VT	4/2/2020	4/2/2021
	AIR VELOCITY INSTRUMENT	50 fpm to 3900 fpm	+/- 5 % +/- 7 fpm	Dwyer DP-3 - S/N 0399VT	4/2/2020	4/2/2021
	DIRECT HOOD READING	100 cfm to 2000 cfm	+/- 5 % +/- 7 cfm	DWYER SAH- S/N 0404WP	8/12/2020	8/12/2021
TEMPERATURE	AIR METER	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - SRH77A S/N 081820093	10/9/2020	10/9/2021
	AIR PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - PD1388 7-6 S/N 5028	10/9/2020	10/9/2021
	IMMERSION METER	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - SRH77A S/N 081820093	10/9/2020	10/9/2021
	IMMERSION PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - PD1388 7-6 S/N 1075	10/9/2020	10/9/2021
	CONTACT METER	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - SRH77A S/N 081820093	10/9/2020	10/9/2021
	CONTACT PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - PD1388 7-6 S/N 4011	10/9/2020	10/9/2021
HUMIDITY	HUMIDITY PROBE	10 % RH to 90 % RH	3% of reading	Cooper ATKINS - SRH77A S/N 090315046	10/9/2020	10/9/2021
ELECTRICAL	VOLTAGE MEASUREMENT	0 VAC to 600 VAC	2 % reading +/- 5 digits	Dwyer CM-1 - S/N 190800099	10/21/2020	10/21/2021
	AMPERAGE MEASUREMENT	0 Amperes to 100 Amperes	2 % reading +/- 5 digits	Dwyer CM-1 - S/N 190800099	10/21/2020	10/21/2021
ROTATION	ROTATION MEASUREMENT	60 rpm to 5000 rpm	2 % reading 2 rpm	Dwyer TAC-L - S/N S1100123	10/21/2020	10/21/2021
HYDRONIC	PRESSURE MEASUREMENT	-30 in Hg to 200 psi	±2% of reading +/- 1 psi	Dwyer 490W-6 - S/N 01L67H	10/22/2020	10/22/2021
	DIFFERENTIAL PRESSURE MEASUREMENT	0 psi - 80 psi	±2% of reading +/- 1 psi	Dwyer 490W-6 - S/N 01L67H	10/22/2020	10/22/2021

# ABBREVIATIONS

AK	Area Factor	NL	Not Listed
B.H.P.	Brake Horse Power	NO.	Number
CFM	Cubic Feet Per Minute	NPSH	Net Positive Suction Head
CO <sub>2</sub>	Carbon Dioxide	NOX	Mono – Nitrogen Oxides
CO	Carbon Monoxide	NS	Not Specified
CH <sub>2</sub> O	Formaldehyde	OA	Outside Air
CD	Ceiling Diffuser	OAT	Outdoor Air Temperature
CLG	Cooling	P.F.	Power Factor
CF	Correction Factor	P.D.	Pressure Drop
DB	Dry Bulb	PPM	Parts Per Million
Dir	Direction	PSI	Pounds Per Square Inch
EA	Exhaust Air	PSID	PSI Differential
Eff.	Efficiency	RA	Return Air
EF	Exhaust Fan	RH	Relative Humidity
EAT	Entering Air Temperature	RF	Return Fan
EG	Exhaust Grille	RPM	Rotations Per Minute
E.S.P.	External Static Pressure	RAT	Return Air Temperature
EWT	Entering Water Temperature	RG	Return Grille
FPM	Feet Per Minute	SA	Supply Air
F.L.	Full Load	S.F.	Service Factor
FPVAV	Fan Powered Variable Air Volume	SF	Supply Fan
FT	Feet	S.P.	Static Pressure
F	Fahrenheit	SR	Supply Register
GPM	Gallons Per Minute	SQ.	Square
H.P.	Horse Power	TEMP	Temperature
HTG	Heating	T.S.P.	Total Static Pressure
IN	Inches	VEL	Velocity
LAT	Leaving Air Temperature	VFD	Variable Frequency Drive
LWT	Leaving Water Temperature	VAV	Variable Air Volume
MIN	Minimum	VVR	Variable Volume Reheat
MAX	Maximum	WB	Wet Bulb
NEBB	National Environmental Balancing Bureau	WC	Water Column
N/A	Not Applicable	%	Percentage
NA	No Access	#	Number



## System/Unit: Fan Coil



Asset: FCU-3-3

AREA: 334

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP030
Serial Num	-	07R0112430P80 K
Configuration	HORIZONTAL	HORIZONTAL

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	2.73

Test Data		
	Design	Actual
SFAN CFM	995	963
Motor Speed SetPt	-	HIGH
RL Voltage	-	209
RL Amperage	-	2.11
RA CFM	815	779
OA CFM	180	184

Performance Data		
	Design	Actual
Suction ESP	-	-0.08"
Discharge ESP	-	0.09"
Total ESP	-	0.17"

Completed By: Brian Irvin on 11/29/2020

Notes:

### Diffuser Supply (GRD)

#### FCU-3-3 / 334

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	334	A	8	175		104		168	96.0
SGRD2	334	C	8	105		37		101	96.2
SGRD3	334	C	8	205		130		193	94.1
SGRD4	334	C	8	170		122		156	91.8
SGRD5	334	C	8	170		166		161	94.7
SGRD6	334	C	8	170		114		184	108.2

Completed By: Brian Irvin on 11/17/2020

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-4

AREA: 334

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP036
Serial Num	-	07R0167330P80 L
Configuration	HORIZONTAL	HORIZONTAL

Test Data		
	Design	Actual
SFAN CFM	1100	1155
Motor Speed SetPt	-	MED-HIGH
RL Voltage	-	210
RL Amperage	-	2.24
RA CFM	800	827
OA CFM	300	328

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	3.50

Performance Data		
	Design	Actual
Suction ESP	-	-0.08"
Discharge ESP	-	0.13"
Total ESP	-	0.21"

Completed By: Brian Irvin on 11/29/2020

Notes:

### Diffuser Supply (GRD)

#### FCU-3-4 / 334

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	334	C	8	200		216		212	106.0
SGRD2	334	C	8	180		49		198	110.0
SGRD3	334	C	8	180		33		180	100.0
SGRD4	334	C	8	180		133		184	102.2
SGRD5	334	C	8	180		218		184	102.2
SGRD6	334	C	8	180		209		197	109.4

Completed By: Brian Irvin on 11/17/2020

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-5

AREA: 332

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP030
Serial Num	-	05R0087230P80 K
Configuration	HORIZONTAL	HORIZONTAL

Test Data		
	Design	Actual
SFAN CFM	960	949
Motor Speed SetPt	-	MED-HIGH
RL Voltage	-	210
RL Amperage	-	1.98
RA CFM	400	403
OA CFM	560	546

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	2.73

Performance Data		
	Design	Actual
Suction ESP	-	-0.05"
Discharge ESP	-	0.10"
Total ESP	-	0.15"

Completed By: Brian Irvin on 11/29/2020

Notes:

### Diffuser Supply (GRD)

#### FCU-3-5 / 332

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	332	A	8	160		145		160	100.0
SGRD2	332	A	8	160		158		167	104.4
SGRD3	332	A	8	160		158		160	100.0
SGRD4	332	A	8	160		169		158	98.8
SGRD5	332	A	8	160		187		151	94.4
SGRD6	332	A	8	160		194		153	95.6

Completed By: Brian Irvin on 11/17/2020

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-6

AREA: 334

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP036
Serial Num	-	07R0167230P80 L
Configuration	HORIZONTAL	HORIZONTAL

Test Data		
	Design	Actual
SFAN CFM	1050	1022
Motor Speed SetPt	-	MED-LOW
RL Voltage	-	210
RL Amperage	-	2.12
RA CFM	690	658
OA CFM	360	364

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	3.50

Performance Data		
	Design	Actual
Suction ESP	-	-0.07"
Discharge ESP	-	0.11"
Total ESP	-	0.18"

Completed By: Brian Irvin on 11/29/2020

Notes:

### Diffuser Supply (GRD)

#### FCU-3-6 / 334

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	334	A	8	175		191		168	96.0
SGRD2	334	A	8	175		167		160	91.4
SGRD3	334	A	8	175		223		178	101.7
SGRD4	334	A	8	175		195		166	94.9
SGRD5	334	A	8	175		103		170	97.1
SGRD6	334	A	8	175		33		180	102.9

Completed By: Brian Irvin on 11/17/2020

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-7

AREA: 335

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP036
Serial Num	-	07R0165830P80 L
Configuration	HORIZONTAL	HORIZONTAL

Test Data		
	Design	Actual
SFAN CFM	1170	1184
Motor Speed SetPt	-	MED-HIGH
RL Voltage	-	209
RL Amperage	-	2.14
RA CFM	770	773
OA CFM	400	411

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	3.50

Performance Data		
	Design	Actual
Suction ESP	-	-0.13"
Discharge ESP	-	0.17"
Total ESP	-	0.30"

Completed By: Brian Irvin on 11/29/2020

Notes:

### Diffuser Supply (GRD)

#### FCU-3-7 / 335

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	335	A	8	195		12		196	100.5
SGRD2	335	A	8	195		149		193	99.0
SGRD3	335	A	8	195		149		210	107.7
SGRD4	335	A	8	195		185		194	99.5
SGRD5	335	A	8	195		190		205	105.1
SGRD6	335	A	8	195		191		186	95.4

Completed By: AUSTIN GRANT on 11/19/2020

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-8

AREA: 330

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP036
Serial Num	-	07R0165730P80 L
Configuration	HORIZONTAL	HORIZONTAL

Test Data		
	Design	Actual
SFAN CFM	630	618
Motor Speed SetPt	-	HIGH
RL Voltage	-	211
RL Amperage	-	2.09
RA CFM	150	131
OA CFM	480	487

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	3.50

Performance Data		
	Design	Actual
Suction ESP	-	-0.07"
Discharge ESP	-	0.10"
Total ESP	-	0.17"

Completed By: Brian Irvin on 11/29/2020

Notes:

### Diffuser Supply (GRD)

#### FCU-3-8 / 330

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	330	A	8	210		246		212	101.0
SGRD2	330	A	8	210		205		205	97.6
SGRD3	330	A	8	210		77		201	95.7

Completed By: Brian Irvin on 11/17/2020

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-9

AREA: 335

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP048
Serial Num	-	07R0135730P80 M
Configuration	HORIZONTAL	HORIZONTAL

Test Data		
	Design	Actual
SFAN CFM	1260	1294
Motor Speed SetPt	-	MED-HIGH
RL Voltage	-	209
RL Amperage	-	2.06
RA CFM	940	936
OA CFM	320	358

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	3.51

Performance Data		
	Design	Actual
Suction ESP	-	-0.06"
Discharge ESP	-	0.06"
Total ESP	-	0.12"

Completed By: Brian Irvin on 11/29/2020

Notes:

### Diffuser Supply (GRD)

#### FCU-3-9 / 335

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	335	C	8	180		168		180	100.0
SGRD2	335	C	8	180		110		191	106.1
SGRD3	335	C	8	180		154		194	107.8
SGRD4	335	C	8	180		204		181	100.6
SGRD5	335	C	8	180		23		179	99.4
SGRD6	335	C	8	180		219		173	96.1
SGRD7	335	C	8	180		184		196	108.9

Completed By: Brian Irvin on 11/24/2020

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-10

AREA: BREAK

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP018
Serial Num	-	06R0183530P80 G
Configuration	HORIZONTAL	HORIZONTAL

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	1.20

Test Data		
	Design	Actual
SFAN CFM	620	635
Motor Speed SetPt	-	HIGH
RL Voltage	-	208
RL Amperage	-	0.90
RA CFM	420	430
OA CFM	200	205

Performance Data		
	Design	Actual
Suction ESP	-	-0.04"
Discharge ESP	-	0.07"
Total ESP	-	0.11"

Completed By: Brian Irvin on 11/29/2020

Notes:

### Diffuser Supply (GRD)

#### FCU-3-10 / BREAK

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	343	A	8	75		78		77	102.7
SGRD2	300D	D	8	175		140		174	99.4
SGRD3	302	A	8	90		39		99	110.0
SGRD4	302	A	8	170		165		180	105.9
SGRD5	304	A	8	55		41		52	94.5
SGRD6	305	A	8	55		42		53	96.4

Completed By: Brian Irvin on 11/17/2020

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-11

AREA: 301

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP018
Serial Num	-	06R0186930P80 G
Configuration	HORIZONTAL	HORIZONTAL

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	1.20

Test Data		
	Design	Actual
SFAN CFM	540	526
Motor Speed SetPt	-	MED-HIGH
RL Voltage	-	210
RL Amperage	-	0.88
RA CFM	300	282
OA CFM	240	244

Performance Data		
	Design	Actual
Suction ESP	-	-0.06"
Discharge ESP	-	0.16"
Total ESP	-	0.22"

Completed By: Brian Irvin on 11/29/2020

Notes:

### Diffuser Supply (GRD)

#### FCU-3-11 / 301

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	301	C	8	180		163		183	101.7
SGRD2	301	C	8	180		158		178	98.9
SGRD3	301	C	8	180		126		165	91.7

Completed By: Brian Irvin on 11/17/2020

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-12

AREA: 303

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP036
Serial Num	-	07R0167430P80 L
Configuration	HORIZONTAL	HORIZONTAL

Test Data		
	Design	Actual
SFAN CFM	1100	1129
Motor Speed SetPt	-	HIGH
RL Voltage	-	211
RL Amperage	-	2.12
RA CFM	820	855
OA CFM	280	274

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	3.50

Performance Data		
	Design	Actual
Suction ESP	-	-0.06"
Discharge ESP	-	0.15"
Total ESP	-	0.21"

Completed By: Brian Irvin on 11/29/2020

Notes:

### Diffuser Supply (GRD)

#### FCU-3-12 / 303

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	303	C	8	180		145		185	102.8
SGRD2	303	C	8	180		135		193	107.2
SGRD3	303	C	8	180		193		172	95.6
SGRD4	303	C	8	180		91		182	101.1
SGRD5	303	C	8	180		178		183	101.7
SGRD6	303	C	8	200		96		214	107.0

Completed By: Brian Irvin on 11/17/2020

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-13

AREA: 310

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP048
Serial Num	-	07R0136230P80 M
Configuration	HORIZONTAL	HORIZONTAL

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	3.51

Test Data		
	Design	Actual
SFAN CFM	1260	1260
Motor Speed SetPt	-	MED-HIGH
RL Voltage	-	212
RL Amperage	-	2.11
RA CFM	1020	1021
OA CFM	240	239

Performance Data		
	Design	Actual
Suction ESP	-	-0.06"
Discharge ESP	-	0.15"
Total ESP	-	0.21"

Completed By: AUSTIN GRANT on 11/18/2020

Notes: NO FILTER PANEL INSTALLED.

### Diffuser Supply (GRD)

#### FCU-3-13 / 310

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	310	C	8	180		182	180	193	107.2
SGRD2	310	C	8	180		188	198	183	101.7
SGRD3	310	C	8	180		162	163	164	91.1
SGRD4	310	C	8	180		51	199	190	105.6
SGRD5	310	C	8	180		219	243	178	98.9
SGRD6	310	C	8	180		167	179	180	100.0
SGRD7	310	C	8	180		104	117	172	95.6

Completed By: Brian Irvin on 11/17/2020

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-14

AREA: 314

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP027
Serial Num	-	05R0019030P80 J
Configuration	HORIZONTAL	HORIZONTAL

Test Data		
	Design	Actual
SFAN CFM	925	
Motor Speed SetPt	-	
RL Voltage	-	
RL Amperage	-	
RA CFM	685	
OA CFM	240	

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	2.73

Performance Data		
	Design	Actual
Suction ESP	-	
Discharge ESP	-	
Total ESP	-	

Completed By: Brian Irvin on

Notes: Thermostat wire needs to be replaced

### Diffuser Supply (GRD)

#### FCU-3-14 / 314

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	314	A	8	185					-
SGRD2	314	A	8	185					-
SGRD3	314	A	8	185					-
SGRD4	314	A	8	185					-
SGRD5	314	A	8	185					-

Completed By: Stephan Gabbert on

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-15

AREA: 303

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP024
Serial Num	-	07R0208730P80 H
Configuration	HORIZONTAL	HORIZONTAL

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	1.20

Test Data		
	Design	Actual
SFAN CFM	820	829
Motor Speed SetPt	-	MED-HIGH
RL Voltage	-	212
RL Amperage	-	0.49
RA CFM	540	541
OA CFM	280	288

Performance Data		
	Design	Actual
Suction ESP	-	-0.10"
Discharge ESP	-	0.16"
Total ESP	-	0.26"

Completed By: Brian Irvin on 11/29/2020

Notes:

### Diffuser Supply (GRD)

#### FCU-3-15 / 303

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	303	A	8	205		214		206	100.5
SGRD2	303	A	8	205		203		209	102.0
SGRD3	303	A	8	205		155		214	104.4
SGRD4	303	A	8	205		260		200	97.6

Completed By: Brian Irvin on 11/17/2020

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-16

AREA: 310

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP054
Serial Num	-	02R0029530P80 N
Configuration	HORIZONTAL	HORIZONTAL

Test Data		
	Design	Actual
SFAN CFM	1280	1263
Motor Speed SetPt	-	MED-LOW
RL Voltage	-	211
RL Amperage	-	2.5
RA CFM	800	783
OA CFM	480	480

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	3.68

Performance Data		
	Design	Actual
Suction ESP	-	-0.06"
Discharge ESP	-	0.06"
Total ESP	-	0.12"

Completed By: AUSTIN GRANT on 11/18/2020

Notes:

### Diffuser Supply (GRD)

#### FCU-3-16 / 310

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	310	A	8	160		129		150	93.8
SGRD2	310	A	8	160		150		158	98.8
SGRD3	310	A	8	160		150		156	97.5
SGRD4	310	A	8	160		149		147	91.9
SGRD5	310	A	8	160		164		159	99.4
SGRD6	310	A	8	160		188		167	104.4
SGRD7	310	A	8	160		183		162	101.3
SGRD8	310	A	8	160		184		164	102.5

Completed By: Brian Irvin on 11/17/2020

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-17

AREA: 310

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP012
Serial Num	-	07R0289130P80 E
Configuration	HORIZONTAL	HORIZONTAL

Test Data		
	Design	Actual
SFAN CFM	390	397
Motor Speed SetPt	-	MEDIUM
RL Voltage	-	210
RL Amperage	-	0.54
RA CFM	330	332
OA CFM	60	65

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	1.20

Performance Data		
	Design	Actual
Suction ESP	-	-0.05"
Discharge ESP	-	0.05"
Total ESP	-	0.10"

Completed By: AUSTIN GRANT on 11/18/2020

Notes:

### Diffuser Supply (GRD)

#### FCU-3-17 / 310

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	310	C	8	130		113		134	103.1
SGRD2	310	C	8	130		120		138	106.2
SGRD3	310	C	8	130		108		125	96.2

Completed By: Brian Irvin on 11/17/2020

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-18

AREA: 311

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP027
Serial Num	-	05R0019130P80 J
Configuration	HORIZONTAL	HORIZONTAL

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	2.73

Test Data		
	Design	Actual
SFAN CFM	920	898
Motor Speed SetPt	-	HIGH
RL Voltage	-	211
RL Amperage	-	2.19
RA CFM	720	697
OA CFM	200	201

Performance Data		
	Design	Actual
Suction ESP	-	-0.12"
Discharge ESP	-	0.17"
Total ESP	-	0.29"

Completed By: AUSTIN GRANT on 11/18/2020

Notes:

### Diffuser Supply (GRD)

#### FCU-3-18 / 311

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	311	C	10	230		225		224	97.4
SGRD2	311	C	10	230		149		246	107.0
SGRD3	311	C	10	230		267		210	91.3
SGRD4	311	C	10	230		243		218	94.8

Completed By: Brian Irvin on 11/17/2020

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-19

AREA: 312

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP036
Serial Num	-	07R0167630P80 L
Configuration	HORIZONTAL	HORIZONTAL

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	3.50

Test Data		
	Design	Actual
SFAN CFM	1010	1004
Motor Speed SetPt	-	HIGH
RL Voltage	-	209
RL Amperage	-	1.9
RA CFM	870	862
OA CFM	140	142

Performance Data		
	Design	Actual
Suction ESP	-	-0.05"
Discharge ESP	-	0.34"
Total ESP	-	0.39"

Completed By: AUSTIN GRANT on 11/18/2020

Notes:

### Diffuser Supply (GRD)

#### FCU-3-19 / 312

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	312	A	8	150		144		163	108.7
SGRD2	312	C	10	245		140		242	98.8
SGRD3	312	C	8	205		236		190	92.7
SGRD4	312	C	8	205		215		210	102.4
SGRD5	312	C	8	205		227		199	97.1

Completed By: Brian Irvin on 11/17/2020

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-20

AREA: 313

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP012
Serial Num	-	07R0288930P80 E
Configuration	HORIZONTAL	HORIZONTAL

Test Data		
	Design	Actual
SFAN CFM	630	620
Motor Speed SetPt	-	HIGH
RL Voltage	-	210
RL Amperage	-	0.61
RA CFM	570	557
OA CFM	60	63

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	1.20

Performance Data		
	Design	Actual
Suction ESP	-	-0.04"
Discharge ESP	-	0.09"
Total ESP	-	0.13"

Completed By: Brian Irvin on 11/29/2020

Notes:

### Diffuser Supply (GRD)

#### FCU-3-20 / 313

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	313	C	8	210		140		163	77.6
SGRD2	313	C	8	210		163		174	82.9
SGRD3	313	C	8	210		162		177	84.3

Completed By: AUSTIN GRANT on 11/20/2020

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-21

AREA: 313

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP036
Serial Num	-	07R0167130P80 L
Configuration	HORIZONTAL	HORIZONTAL

Test Data		
	Design	Actual
SFAN CFM	1100	1128
Motor Speed SetPt	-	MED-HIGH
RL Voltage	-	209
RL Amperage	-	2.17
RA CFM	880	901
OA CFM	220	227

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	3.50

Performance Data		
	Design	Actual
Suction ESP	-	-0.08"
Discharge ESP	-	0.12"
Total ESP	-	0.20"

Completed By: Brian Irvin on 11/29/2020

Notes:

### Diffuser Supply (GRD)

#### FCU-3-21 / 313

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	313	C	8	220		210		231	105.0
SGRD2	313	C	8	220		230		217	98.6
SGRD3	313	C	8	220		238		225	102.3
SGRD4	313	C	8	220		237		234	106.4
SGRD5	313	C	8	220		117		221	100.5

Completed By: Brian Irvin on 11/17/2020

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-22

AREA: 313

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP048
Serial Num	-	07R0135030P80 M
Configuration	HORIZONTAL	HORIZONTAL

Test Data		
	Design	Actual
SFAN CFM	1320	1293
Motor Speed SetPt	-	HIGH
RL Voltage	-	209
RL Amperage	-	2.18
RA CFM	1140	1154
OA CFM	180	187

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	3.51

Performance Data		
	Design	Actual
Suction ESP	-	-0.08"
Discharge ESP	-	0.16"
Total ESP	-	0.24"

Completed By: Brian Irvin on 11/29/2020

Notes:

### Diffuser Supply (GRD)

#### FCU-3-22 / 313

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	313	C	8	220		188		204	92.7
SGRD2	313	C	8	220		170		214	97.3
SGRD3	313	C	8	220		97		225	102.3
SGRD4	313	C	8	220		189		221	100.5
SGRD5	313	C	8	220		187		224	101.8
SGRD6	313	C	8	220		173		205	93.2

Completed By: Brian Irvin on 11/17/2020

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-23

AREA: 313

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP024
Serial Num	-	07R0208630P80 H
Configuration	HORIZONTAL	HORIZONTAL

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	1.20

Test Data		
	Design	Actual
SFAN CFM	780	814
Motor Speed SetPt	-	HIGH
RL Voltage	-	210
RL Amperage	-	0.96
RA CFM	520	554
OA CFM	260	260

Performance Data		
	Design	Actual
Suction ESP	-	-0.07"
Discharge ESP	-	0.11"
Total ESP	-	0.18"

Completed By: Brian Irvin on 11/29/2020

Notes:

### Diffuser Supply (GRD)

#### FCU-3-23 / 313

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	313	A	8	195		143		211	108.2
SGRD2	313	A	8	195		79		203	104.1
SGRD3	313	A	8	195		193		204	104.6
SGRD4	313	A	8	195		145		196	100.5

Completed By: Brian Irvin on 11/17/2020

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-24

AREA: 313

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP024
Serial Num	-	07R0212930P80 H
Configuration	HORIZONTAL	HORIZONTAL

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	1.20

Test Data		
	Design	Actual
SFAN CFM	800	844
Motor Speed SetPt	-	HIGH
RL Voltage	-	211
RL Amperage	-	0.99
RA CFM	400	442
OA CFM	400	402

Performance Data		
	Design	Actual
Suction ESP	-	-0.04"
Discharge ESP	-	0.09"
Total ESP	-	0.13"

Completed By: Brian Irvin on 11/29/2020

Notes:

### Diffuser Supply (GRD)

#### FCU-3-24 / 313

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	313	A	8	200		170		208	104.0
SGRD2	313	A	8	200		156		215	107.5
SGRD3	313	A	8	200		123		215	107.5
SGRD4	313	A	8	200		149		206	103.0

Completed By: AUSTIN GRANT on 11/20/2020

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-25

AREA: 314

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP008
Serial Num	-	07R0162530P80 D
Configuration	HORIZONTAL	HORIZONTAL

Test Data		
	Design	Actual
SFAN CFM	290	283
Motor Speed SetPt	-	HIGH
RL Voltage	-	209
RL Amperage	-	0.50
RA CFM	90	83
OA CFM	200	200

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	1.05

Performance Data		
	Design	Actual
Suction ESP	-	-0.03"
Discharge ESP	-	0.07"
Total ESP	-	0.10"

Completed By: Brian Irvin on 11/29/2020

Notes:

### Diffuser Supply (GRD)

#### FCU-3-25 / 314

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	314	A	8	145		139		139	95.9
SGRD2	314	A	8	145		144		144	99.3

Completed By: Brian Irvin on 11/17/2020

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-26

AREA: OFFICES

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP036
Serial Num	-	07R0167030P80 L
Configuration	HORIZONTAL	HORIZONTAL

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	3.50

Test Data		
	Design	Actual
SFAN CFM	945	955
Motor Speed SetPt	-	MED-HIGH
RL Voltage	-	209
RL Amperage	-	1.88
RA CFM	525	528
OA CFM	420	427

Performance Data		
	Design	Actual
Suction ESP	-	-0.07"
Discharge ESP	-	0.13"
Total ESP	-	0.20"

Completed By: Brian Irvin on 11/29/2020

Notes:

### Diffuser Supply (GRD)

#### FCU-3-26 / OFFICES

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	315	A	8	125		139		126	100.8
SGRD2	316	A	8	125		133		127	101.6
SGRD3	318	A	8	55		94		58	105.5
SGRD4	300A	A	8	75		107		71	94.7
SGRD5	320	A	8	105		68		105	100.0
SGRD6	321	A	8	105		67		114	108.6
SGRD7	300B	A	8	105		155		103	98.1
SGRD8	308	A	8	75		26		77	102.7
SGRD9	300A	A	8	55		39		55	100.0
SGRD10	306	A	8	65		84		63	96.9
SGRD11	307	A	8	55		77		56	101.8

Completed By: Brian Irvin on 11/17/2020

Asset	Area Served	Notes



Asset: FCU-3-27

AREA: 319

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP008
Serial Num	-	07R0162830P80 D
Configuration	HORIZONTAL	HORIZONTAL

Test Data		
	Design	Actual
SFAN CFM	290	290
Motor Speed SetPt	-	MED-HIGH
RL Voltage	-	211
RL Amperage	-	0.47
RA CFM	90	84
OA CFM	200	206

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	1.05

Performance Data		
	Design	Actual
Suction ESP	-	-0.05"
Discharge ESP	-	0.09"
Total ESP	-	0.14"

Completed By: Brian Irvin on 11/29/2020

Notes:

**Diffuser Supply (GRD)**

**FCU-3-27 / 319**

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	319	A	8	145		149		144	99.3
SGRD2	319	A	8	145		126		146	100.7

Completed By: Brian Irvin on 11/17/2020

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-28

AREA: 322

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP048
Serial Num	-	07R0134930P80 M
Configuration	HORIZONTAL	HORIZONTAL

Test Data		
	Design	Actual
SFAN CFM	1360	1363
Motor Speed SetPt	-	HIGH
RL Voltage	-	211
RL Amperage	-	2.22
RA CFM	880	867
OA CFM	480	474

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	3.51

Performance Data		
	Design	Actual
Suction ESP	-	-0.10"
Discharge ESP	-	-0.09"
Total ESP	-	0.19"

Completed By: Brian Irvin on 11/29/2020

Notes:

### Diffuser Supply (GRD)

#### FCU-3-28 / 322

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	322	A	8	170		167		158	92.9
SGRD2	322	A	8	170		140		156	91.8
SGRD3	322	A	8	170		145		182	107.1
SGRD4	322	A	8	170		119		169	99.4
SGRD5	322	A	8	170		98		185	108.8
SGRD6	322	A	8	170		115		166	97.6
SGRD7	322	A	8	170		169		170	100.0
SGRD8	322	A	8	170		146		177	104.1

Completed By: Brian Irvin on 11/17/2020

Asset	Area Served	Notes

**System/Unit: Fan Coil**



Asset: FCU-3-29

AREA: 322

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP048
Serial Num	-	07R0137030P80 M
Configuration	HORIZONTAL	HORIZONTAL

Test Data		
	Design	Actual
SFAN CFM	1360	1322
Motor Speed SetPt	-	HIGH
RL Voltage	-	210
RL Amperage	-	2.26
RA CFM	880	830
OA CFM	480	492

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	3.51

Performance Data		
	Design	Actual
Suction ESP	-	-0.11"
Discharge ESP	-	-0.10"
Total ESP	-	0.21"

Completed By: Brian Irvin on 11/29/2020

Notes:

**Diffuser Supply (GRD)**

**FCU-3-29 / 322**

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	322	A	8	170		181		170	100.0
SGRD2	322	A	8	170		186		170	100.0
SGRD3	322	A	8	170		195		172	101.2
SGRD4	322	A	8	170		194		164	96.5
SGRD5	322	A	8	170		58		162	95.3
SGRD6	322	A	8	170		167		158	92.9
SGRD7	322	A	8	170		152		166	97.6
SGRD8	322	A	8	170		144		160	94.1

Completed By: Brian Irvin on 11/17/2020

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-30

AREA: 322

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP048
Serial Num	-	07R0136530P80 M
Configuration	HORIZONTAL	HORIZONTAL

Test Data		
	Design	Actual
SFAN CFM	1335	1336
Motor Speed SetPt	-	HIGH
RL Voltage	-	210
RL Amperage	-	2.31
RA CFM	1275	1276
OA CFM	60	60

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	3.51

Performance Data		
	Design	Actual
Suction ESP	-	-0.12"
Discharge ESP	-	-0.12"
Total ESP	-	0.24"

Completed By: Brian Irvin on 11/29/2020

Notes:

### Diffuser Supply (GRD)

#### FCU-3-30 / 322

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	322	C	8	220		174		206	93.6
SGRD2	322	C	10	225		161		204	90.7
SGRD3	322	C	10	225		173		207	92.0
SGRD4	322	C	10	225		180		234	104.0
SGRD5	322	C	8	220		187		226	102.7
SGRD6	322	C	8	220		188		233	105.9

Completed By: AUSTIN GRANT on 11/20/2020

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-31

AREA: 322

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP048
Serial Num	-	07R0136430P80 M
Configuration	HORIZONTAL	HORIZONTAL

Test Data		
	Design	Actual
SFAN CFM	1320	1304
Motor Speed SetPt	-	HIGH
RL Voltage	-	210
RL Amperage	-	2.41
RA CFM	1260	1245
OA CFM	60	59

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	3.51

Performance Data		
	Design	Actual
Suction ESP	-	-0.13"
Discharge ESP	-	0.11"
Total ESP	-	0.24"

Completed By: Brian Irvin on 11/29/2020

Notes:

### Diffuser Supply (GRD)

#### FCU-3-31 / 322

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	322	C	8	220		187		200	90.9
SGRD2	322	C	8	220		226		221	100.5
SGRD3	322	C	8	220		189		228	103.6
SGRD4	322	C	8	220		220		205	93.2
SGRD5	322	C	8	220		206		225	102.3
SGRD6	322	C	8	220		185		225	102.3

Completed By: AUSTIN GRANT on 11/20/2020

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-32

AREA: 322

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP048
Serial Num	-	07R0136130P80 M
Configuration	HORIZONTAL	HORIZONTAL

Test Data		
	Design	Actual
SFAN CFM	1360	1383
Motor Speed SetPt	-	HIGH
RL Voltage	-	209
RL Amperage	-	2.27
RA CFM	880	876
OA CFM	480	507

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	3.51

Performance Data		
	Design	Actual
Suction ESP	-	-0.14"
Discharge ESP	-	0.13"
Total ESP	-	0.27"

Completed By: Brian Irvin on 11/29/2020

Notes:

### Diffuser Supply (GRD)

#### FCU-3-32 / 322

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	322	A	8	170		149		170	100.0
SGRD2	322	A	8	170		235		174	102.4
SGRD3	322	A	8	170		201		176	103.5
SGRD4	322	A	8	170		44		181	106.5
SGRD5	322	A	8	170		199		164	96.5
SGRD6	322	A	8	170		163		169	99.4
SGRD7	322	A	8	170		117		170	100.0
SGRD8	322	A	8	170		114		179	105.3

Completed By: Brian Irvin on 11/24/2020

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-33

AREA: 331

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP048
Serial Num	-	07R0136030P80 M
Configuration	HORIZONTAL	HORIZONTAL

Test Data		
	Design	Actual
SFAN CFM	1360	1377
Motor Speed SetPt	-	HIGH
RL Voltage	-	210
RL Amperage	-	2.25
RA CFM	880	917
OA CFM	480	460

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	3.51

Performance Data		
	Design	Actual
Suction ESP	-	-0.15"
Discharge ESP	-	0.09"
Total ESP	-	0.24"

Completed By: Brian Irvin on 11/29/2020

Notes:

### Diffuser Supply (GRD)

#### FCU-3-33 / 331

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	331	A	8	170		152		185	108.8
SGRD2	331	A	8	170		148		178	104.7
SGRD3	331	A	8	170		202		179	105.3
SGRD4	331	A	8	170		169		184	108.2
SGRD5	331	A	8	170		124		155	91.2
SGRD6	331	A	8	170		196		154	90.6
SGRD7	331	A	8	170		199		167	98.2
SGRD8	331	A	8	170		45		175	102.9

Completed By: Brian Irvin on 11/17/2020

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-34

AREA: OFFICES

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP036
Serial Num	-	07R0166930P80 L
Configuration	HORIZONTAL	HORIZONTAL

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	3.50

Test Data		
	Design	Actual
SFAN CFM	1180	1181
Motor Speed SetPt	-	HIGH
RL Voltage	-	209
RL Amperage	-	2.20
RA CFM	760	747
OA CFM	420	434

Performance Data		
	Design	Actual
Suction ESP	-	-0.13"
Discharge ESP	-	0.08"
Total ESP	-	0.21"

Completed By: Brian Irvin on 11/29/2020

Notes:

### Diffuser Supply (GRD)

#### FCU-3-34 / OFFICES

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	328	A	8	105		126		106	101.0
SGRD2	300C	A	8	75		105		77	102.7
SGRD3	327	A	8	105		67		104	99.0
SGRD4	326	A	8	70		60		70	100.0
SGRD5	325	A	8	70		65		71	101.4
SGRD6	324	A	8	70		94		68	97.1
SGRD7	323	A	8	105		68		99	94.3
SGRD8	329	A	8	180		144		181	100.6
SGRD9	339	A	8	60		51		63	105.0
SGRD10	340	A	8	55		45		56	101.8
SGRD11	337	A	8	55		62		54	98.2
SGRD12	336	A	8	55		56		55	100.0
SGRD13	342	A	8	105		94		106	101.0
SGRD14	341	A	8	70		64		71	101.4

Completed By: Brian Irvin on 11/24/2020

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-35

AREA: 331

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP048
Serial Num	-	07R0135230P80 M
Configuration	HORIZONTAL	HORIZONTAL

Test Data		
	Design	Actual
SFAN CFM	1360	1377
Motor Speed SetPt	-	HIGH
RL Voltage	-	209
RL Amperage	-	2.10
RA CFM	880	887
OA CFM	480	490

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	3.51

Performance Data		
	Design	Actual
Suction ESP	-	-0.12"
Discharge ESP	-	0.05"
Total ESP	-	0.17"

Completed By: Brian Irvin on 11/29/2020

Notes:

### Diffuser Supply (GRD)

#### FCU-3-35 / 331

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	331	A	8	170		146		171	100.6
SGRD2	331	A	8	170		148		180	105.9
SGRD3	331	A	8	170		169		184	108.2
SGRD4	331	A	8	170		187		177	104.1
SGRD5	331	A	8	170		155		162	95.3
SGRD6	331	A	8	170		56		159	93.5
SGRD7	331	A	8	170		247		169	99.4
SGRD8	331	A	8	170		144		175	102.9

Completed By: Brian Irvin on 11/17/2020

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-36

AREA: 331

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP036
Serial Num	-	07R0166830P80 L
Configuration	HORIZONTAL	HORIZONTAL

Test Data		
	Design	Actual
SFAN CFM	1100	1018
Motor Speed SetPt	-	HIGH
RL Voltage	-	209
RL Amperage	-	2.06
RA CFM	1020	944
OA CFM	80	74

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	3.50

Performance Data		
	Design	Actual
Suction ESP	-	-0.11"
Discharge ESP	-	0.14"
Total ESP	-	0.25"

Completed By: Brian Irvin on 11/29/2020

Notes:

### Diffuser Supply (GRD)

#### FCU-3-36 / 331

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	331	C	8	220		174		209	95.0
SGRD2	331	C	8	220		185		204	92.7
SGRD3	331	C	8	220		135		199	90.5
SGRD4	331	C	8	220		130		201	91.4
SGRD5	331	C	8	220		123		205	93.2

Completed By: Brian Irvin on 11/17/2020

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-37

AREA: 333

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP012
Serial Num	-	07R0288830P80 E
Configuration	HORIZONTAL	HORIZONTAL

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	1.05

Test Data		
	Design	Actual
SFAN CFM	440	446
Motor Speed SetPt	-	MED-HIGH
RL Voltage	-	211
RL Amperage	-	0.53
RA CFM	420	425
OA CFM	20	21

Performance Data		
	Design	Actual
Suction ESP	-	-0.07"
Discharge ESP	-	0.10"
Total ESP	-	0.17"

Completed By: Brian Irvin on 11/29/2020

Notes:

### Diffuser Supply (GRD)

#### FCU-3-37 / 333

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	333	C	8	220		164		226	102.7
SGRD2	333	C	8	220		190		220	100.0

Completed By: Brian Irvin on 11/17/2020

Asset	Area Served	Notes

## System/Unit: Fan Coil



Asset: FCU-3-38

AREA: 333

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP048
Serial Num	-	07R0166330P80 M
Configuration	HORIZONTAL	HORIZONTAL

Test Data		
	Design	Actual
SFAN CFM	1230	1269
Motor Speed SetPt	-	HIGH
RL Voltage	-	209
RL Amperage	-	1.99
RA CFM	1090	1121
OA CFM	140	148

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	3.51

Performance Data		
	Design	Actual
Suction ESP	-	-0.13"
Discharge ESP	-	0.14"
Total ESP	-	0.27"

Completed By: Brian Irvin on 11/29/2020

Notes:

### Diffuser Supply (GRD)

#### FCU-3-38 / 333

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	333	C	8	205		177		194	94.6
SGRD2	333	C	8	205		190		204	99.5
SGRD3	333	C	8	205		92		211	102.9
SGRD4	333	C	8	205		195		215	104.9
SGRD5	333	C	8	205		201		221	107.8
SGRD6	333	C	8	205		209		224	109.3

Completed By: AUSTIN GRANT on 11/19/2020

Asset	Area Served	Notes

**System/Unit: Fan Coil**



Asset: FCU-3-39

AREA: 332

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	NA	TPEFYP030
Serial Num	-	05R0088930P80 K
Configuration	HORIZONTAL	HORIZONTAL

Test Data		
	Design	Actual
SFAN CFM	960	954
Motor Speed SetPt	-	HIGH
RL Voltage	-	211
RL Amperage	-	2.17
RA CFM	360	369
OA CFM	600	585

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208-230
Amperage (rated)	-	2.73

Performance Data		
	Design	Actual
Suction ESP	-	-0.14"
Discharge ESP	-	0.11"
Total ESP	-	0.25"

Completed By: Brian Irvin on 11/29/2020

Notes:

**Diffuser Supply (GRD)**

**FCU-3-39 / 332**

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	332	A	8	160		138		155	96.9
SGRD2	332	A	8	160		144		163	101.9
SGRD3	332	A	8	160		150		163	101.9
SGRD4	332	A	8	160		169		158	98.8
SGRD5	332	A	8	160		135		157	98.1
SGRD6	332	A	8	160		178		158	98.8

Completed By: Brian Irvin on 11/17/2020

Asset	Area Served	Notes