

Report By:



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

Report: Test and Balance
Date: 10/20/2020

PROJECT
CW - 3401 GOOSEHEAD (DALLAS, TX)

3401 OLYMPUS BLVD SUITE 440
DALLAS, TX 75019

Client

Billingsley
1722 Routh St.
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Dallas, TX 75201

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Project: CW - 3401 GOOSEHEAD (DALLAS, TX)

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CERTIFICATION

PROJECT: CW - 3401 GOOSEHEAD (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.

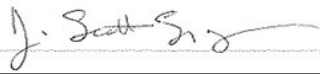
The air distribution system has been tested and balanced and final adjustments have been made in accordance with NEBB standards and the project specifications.

NEBB TAB FIRM: National TAB-Southeast
REGISTRATION NO: 3755
CERTIFIED BY: J. Scott Springer 23312
DATE: 10/13/2020

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

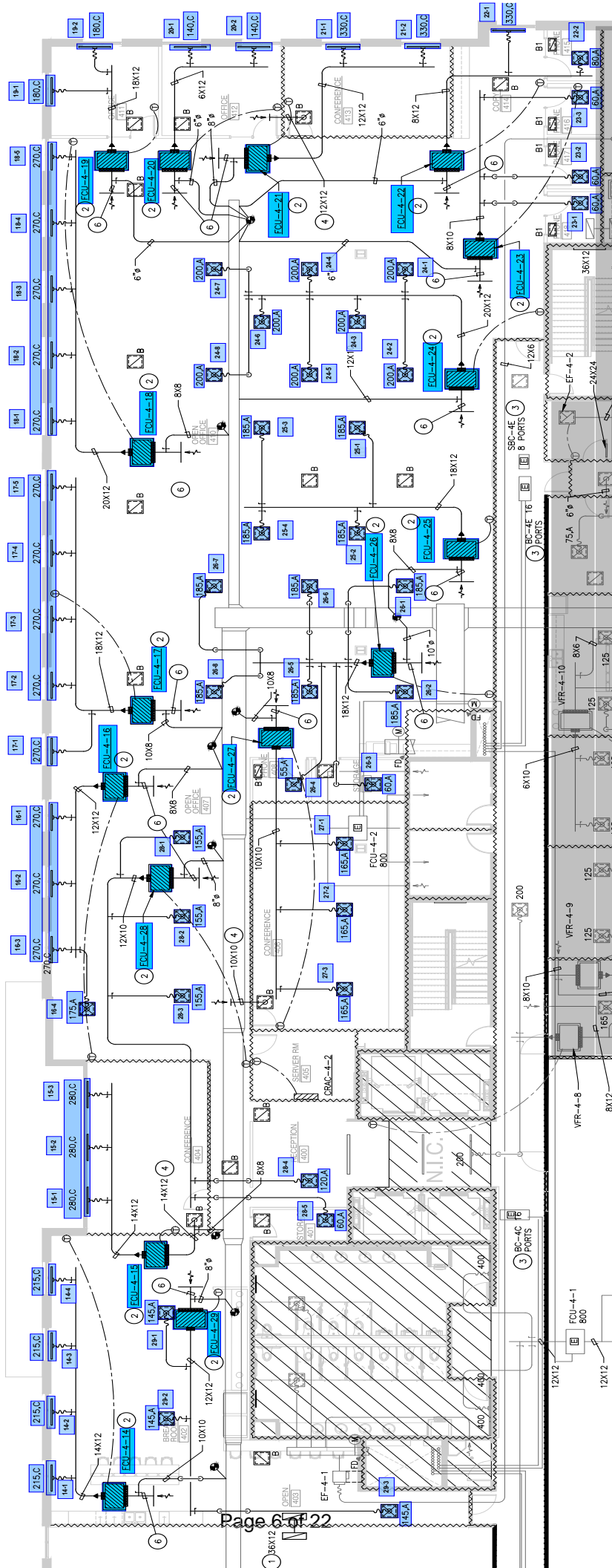
Testing, Adjusting, and Balancing Equipment



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	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	6/4/2020	6/4/2021
	AIR PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - PD1388 7-6 S/N 5028	6/4/2020	6/4/2021
	IMMERSION METER	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - SRH77A S/N 090315046	6/4/2020	6/4/2021
	IMMERSION PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - PD1388 7-6 S/N 1075	6/4/2020	6/4/2021
	CONTACT METER	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - SRH77A S/N 090315046	6/4/2020	6/4/2021
	CONTACT PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - PD1388 7-6 S/N 4011	6/4/2020	6/4/2021
HUMIDITY	HUMIDITY PROBE	10 % RH to 90 % RH	3% of reading	Cooper ATKINS - SRH77A S/N 090315046	6/4/2020	6/4/2021
ELECTRICAL	VOLTAGE MEASUREMENT	0 VAC to 600 VAC	2 % reading +/- 5 digits	Fluke 334 , S/N: 87004594	6/5/2020	6/6/2021
	AMPERAGE MEASUREMENT	0 Amperers to 100 Amperes	2 % reading +/- 5 digits	Fluke 334 , S/N: 87004594	6/5/2020	6/6/2021
ROTATION	ROTATION MEASUREMENT	60 rpm to 5000 rpm	2 % reading 2 rpm	SHIMPO DT-207LR S/N: C4AB0029	6/6/2020	6/7/2021
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	NL	Not Listed
B.H.P.	Brake Horse Power	NO.	Number
CFM	Cubic Feet Per Minute	NPSH	Net Positive Suction Head
CO ₂	Carbon Dioxide	NOX	Mono – Nitrogen Oxides
CO	Carbon Monoxide	NS	Not Specified
CH ₂ 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: VRF4-14

AREA: BREAKROOM 402

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	TPEFY	TPEFY-PO24
Serial Num	-	05R0168630P80 H

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

Test Data		
	Design	Actual
SFAN CFM	850	880
Motor Speed SetPt	-	HIGH
RL Voltage	-	211
RL Amperage	-	1.72
RA CFM	380	390
OA CFM	480	490

Performance Data		
	Design	Actual
Suction ESP	-	-0.07"
Discharge ESP	-	0.15"
Total ESP	-	0.22"

Completed By: Brian Irvin on 10/17/2020

Notes:

Diffuser Supply (GRD)

VRF4-14 / BREAKROOM 402

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	BREAKROOM 402	C	10	215		168	-	215	100.0
SGRD2	BREAKROOM 402	C	10	215		178	-	216	100.5
SGRD3	BREAKROOM 402	C	10	215		200	-	228	106.0
SGRD4	BREAKROOM 402	C	10	215		179	-	221	102.8

Completed By: AUSTIN GRANT on 10/06/2020

Asset	Area Served	Notes



Asset: VRF4-15

AREA: CONFERENCE 404

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	TPEFY	TPEFY-PO24
Serial Num	-	05R0173330P80 H

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

Test Data		
	Design	Actual
SFAN CFM	840	831
Motor Speed SetPt	-	MED-HIGH
RL Voltage	-	213
RL Amperage	-	1.03
RA CFM	600	612
OA CFM	240	219

Performance Data		
	Design	Actual
Suction ESP	-	-0.06"
Discharge ESP	-	0.25"
Total ESP	-	0.31"

Completed By: Brian Irvin on 10/17/2020

Notes:

Diffuser Supply (GRD)

VRF4-15 / CONFERENCE 404

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	CONFERENCE 404	C	10	280		275	-	275	98.2
SGRD2	CONFERENCE 404	C	10	280		286	-	286	102.1
SGRD3	CONFERENCE 404	C	10	280		270	-	270	96.4

Completed By: AUSTIN GRANT on 10/06/2020

Asset	Area Served	Notes

System/Unit: Fan Coil



Asset: VRF4-16

AREA: OPEN OFFICE 407

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	TPEFY	TPEFY-PO24
Serial Num	-	05R0172230P80 H

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

Test Data		
	Design	Actual
SFAN CFM	985	979
Motor Speed SetPt	-	HIGH
RL Voltage	-	213
RL Amperage	-	1.33
RA CFM	745	738
OA CFM	240	241

Performance Data		
	Design	Actual
Suction ESP	-	-0.03"
Discharge ESP	-	0.54"
Total ESP	-	0.57"

Completed By: Brian Irvin on 10/17/2020

Notes:

Diffuser Supply (GRD)

VRF4-16 / OPEN OFFICE 407

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	OPEN OFFICE 407	C	10	270		217	-	273	101.1
SGRD2	OPEN OFFICE 407	C	10	270		225	-	272	100.7
SGRD3	OPEN OFFICE 407	C	10	270		153	-	251	93.0
SGRD4	OPEN OFFICE 407	A	8	175		243	-	183	104.6

Completed By: AUSTIN GRANT on 10/06/2020

Asset	Area Served	Notes

System/Unit: Fan Coil



Asset: VRF4-17

AREA: OPEN OFFICE 410

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	TPEFY	TPEFY-PO36
Serial Num	-	06R0131430P80 L

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

Test Data		
	Design	Actual
SFAN CFM	1350	1286
Motor Speed SetPt	-	HIGH
RL Voltage	-	211
RL Amperage	-	2.54
RA CFM	1030	953
OA CFM	320	333

Performance Data		
	Design	Actual
Suction ESP	-	-0.05"
Discharge ESP	-	0.24"
Total ESP	-	0.29"

Completed By: Brian Irvin on 10/17/2020

Notes:

Diffuser Supply (GRD)

VRF4-17 / OPEN OFFICE 410

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	OPEN OFFICE 410	C	10	270		258	-	259	95.9
SGRD2	OPEN OFFICE 410	C	10	270		193	-	274	101.5
SGRD3	OPEN OFFICE 410	C	10	270		144	-	244	90.4
SGRD4	OPEN OFFICE 410	C	10	270		134	-	245	90.7
SGRD5	OPEN OFFICE 410	C	10	270		237	-	264	97.8

Completed By: AUSTIN GRANT on 10/06/2020

Asset	Area Served	Notes

System/Unit: Fan Coil



Asset: VRF4-18

AREA: OPEN OFFICE 410

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	TPEFY	TPEFY-PO36
Serial Num	-	06R0132530P80 L

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

Test Data		
	Design	Actual
SFAN CFM	1350	1390
Motor Speed SetPt	-	HIGH
RL Voltage	-	210
RL Amperage	-	2.66
RA CFM	1110	1139
OA CFM	240	251

Performance Data		
	Design	Actual
Suction ESP	-	-0.02"
Discharge ESP	-	0.24"
Total ESP	-	0.26"

Completed By: Brian Irvin on 10/17/2020

Notes:

Diffuser Supply (GRD)

VRF4-18 / OPEN OFFICE 410

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	OPEN OFFICE 410	C	10	270		209	-	272	100.7
SGRD2	OPEN OFFICE 410	C	10	270		230	-	284	105.2
SGRD3	OPEN OFFICE 410	C	10	270		91	-	284	105.2
SGRD4	OPEN OFFICE 410	C	10	270		209	-	274	101.5
SGRD5	OPEN OFFICE 410	C	10	270		260	-	276	102.2

Completed By: AUSTIN GRANT on 10/05/2020

Asset	Area Served	Notes

System/Unit: Fan Coil



Asset: VRF4-19

AREA: OFIICE 411

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	TPEFY	TPEFY-PO12
Serial Num	-	05R0225330P80 E

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

Test Data		
	Design	Actual
SFAN CFM	360	367
Motor Speed SetPt	-	MED-LOW
RL Voltage	-	210
RL Amperage	-	0.46
RA CFM	340	345
OA CFM	20	22

Performance Data		
	Design	Actual
Suction ESP	-	-0.01"
Discharge ESP	-	0.92"
Total ESP	-	0.93"

Completed By: Brian Irvin on 10/17/2020

Notes:

Diffuser Supply (GRD)

VRF4-19 / OFIICE 411

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	OFIICE 411	C	8	180		171	-	171	95.0
SGRD2	OFIICE 411	C	8	180		196	-	196	108.9

Completed By: Brian Irvin on 10/17/2020

Asset	Area Served	Notes

System/Unit: Fan Coil



Asset: VRF4-20

AREA: OFFICE 412

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	TPEFY	TPEFY-PO08
Serial Num	-	05R0097130P80 D

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

Test Data		
	Design	Actual
SFAN CFM	280	291
Motor Speed SetPt	-	MED-LOW
RL Voltage	-	210
RL Amperage	-	0.37
RA CFM	260	271
OA CFM	20	20

Performance Data		
	Design	Actual
Suction ESP	-	-0.01"
Discharge ESP	-	0.60"
Total ESP	-	0.61"

Completed By: Brian Irvin on 10/17/2020

Notes:

Diffuser Supply (GRD)

VRF4-20 / OFFICE 412

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	OFFICE 412	C	8	140		148	-	148	105.7
SGRD2	OFFICE 412	C	8	140		143	-	143	102.1

Completed By: Brian Irvin on 10/17/2020

Asset	Area Served	Notes

System/Unit: Fan Coil



Asset: VRF4-21

AREA: CONFERENCE 413

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	TPEFY	TPEFY-PO15
Serial Num	-	05R0077330P80 F

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208
Amperage (rated)	-	1.45

Test Data		
	Design	Actual
SFAN CFM	660	658
Motor Speed SetPt	-	HIGH
RL Voltage	-	209
RL Amperage	-	1.16
RA CFM	500	492
OA CFM	160	166

Performance Data		
	Design	Actual
Suction ESP	-	-0.02"
Discharge ESP	-	0.24"
Total ESP	-	0.26"

Completed By: Brian Irvin on 10/17/2020

Notes:

Diffuser Supply (GRD)

VRF4-21 / CONFERENCE 413

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	CONFERENCE 413	C	10	330		222	-	343	103.9
SGRD2	CONFERENCE 413	C	10	330		226	-	315	95.5

Completed By: Brian Irvin on 10/17/2020

Asset	Area Served	Notes

System/Unit: Fan Coil



Asset: VRF4-22

AREA: COPY 414 / PHONE 415

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	TPEFY	TPEFY-P012
Serial Num	-	05R0225230P80 E

Test Data		
	Design	Actual
SFAN CFM	410	400
Motor Speed SetPt	-	MED-LOW
RL Voltage	-	211
RL Amperage	-	0.42
RA CFM	370	363
OA CFM	40	37

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

Performance Data		
	Design	Actual
Suction ESP	-	-0.01"
Discharge ESP	-	0.23"
Total ESP	-	0.24"

Completed By: Brian Irvin on 10/17/2020

Notes:

Diffuser Supply (GRD)

VRF4-22 / COPY 414 / PHONE 415

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	COPY 414 / PHONE 415	C	10	330		221	-	315	95.5
SGRD2	COPY 414 / PHONE 415	A	8	80		160	-	85	106.3

Completed By: Brian Irvin on 10/17/2020

Asset	Area Served	Notes

System/Unit: Fan Coil



Asset: VRF4-23

AREA: PHONE 416-418

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	TPEFY	TPEFY-PO06
Serial Num	-	05R0059530P80 C

Test Data		
	Design	Actual
SFAN CFM	350	220
Motor Speed SetPt	-	LOW
RL Voltage	-	211
RL Amperage	-	0.28
RA CFM	290	165
OA CFM	60	55

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

Performance Data		
	Design	Actual
Suction ESP	-	-0.01"
Discharge ESP	-	0.13"
Total ESP	-	0.14"

Completed By: GIBSON MORGAN on 10/07/2020

Notes: 0.5 TON UNIT DESIGNED AT 350 CFM
 GRID LAYOUT DESIGNED FOR 180 CFM
 UNIT SET IN LOW SPEED WITH MINIMUM OF 220 CFM

Diffuser Supply (GRD)

VRF4-23 / PHONE 416-418

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	PHONE 416-418	A	8	60		64	-	76	126.7
SGRD2	PHONE 416-418	A	8	60		130	-	70	116.7
SGRD3	PHONE 416-418	A	8	60		133	-	74	123.3

Completed By: GIBSON MORGAN on 10/07/2020

Asset	Area Served	Notes



Asset: VRF4-24

AREA: OPEN OFFICE 410

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	TPEFY	TPEFY-PO48
Serial Num	-	03R0109030P80 M

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

Test Data		
	Design	Actual
SFAN CFM	1600	1529
Motor Speed SetPt	-	HIGH
RL Voltage	-	210
RL Amperage	-	2.11
RA CFM	1040	989
OA CFM	560	540

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

Completed By: GIBSON MORGAN on 10/06/2020

Notes:

Diffuser Supply (GRD)

VRF4-24 / OPEN OFFICE 410

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	OPEN OFFICE 410	A	8	200		163	-	185	92.5
SGRD2	OPEN OFFICE 410	A	8	200		79	-	183	91.5
SGRD3	OPEN OFFICE 410	A	8	200		161	-	194	97.0
SGRD4	OPEN OFFICE 410	A	8	200		175	-	189	94.5
SGRD5	OPEN OFFICE 410	A	8	200		185	-	199	99.5
SGRD6	OPEN OFFICE 410	A	8	200		179	-	196	98.0
SGRD7	OPEN OFFICE 410	A	8	200		157	-	184	92.0
SGRD8	OPEN OFFICE 410	A	8	200		187	-	199	99.5

Completed By: GIBSON MORGAN on 10/06/2020

Asset	Area Served	Notes

System/Unit: Fan Coil



Asset: VRF4-25

AREA: OPEN OFFICE 410

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	TPEFY	TPEFY-PO18
Serial Num	-	05R0127530P80 G

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208
Amperage (rated)	-	1.58

Test Data		
	Design	Actual
SFAN CFM	740	721
Motor Speed SetPt	-	MEDIUM
RL Voltage	-	212
RL Amperage	-	0.71
RA CFM	500	476
OA CFM	240	245

Performance Data		
	Design	Actual
Suction ESP	-	-0.04"
Discharge ESP	-	0.06"
Total ESP	-	0.10"

Completed By: GIBSON MORGAN on 10/06/2020

Notes:

Diffuser Supply (GRD)

VRF4-25 / OPEN OFFICE 410

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	OPEN OFFICE 410	A	8	185		155	-	169	91.4
SGRD2	OPEN OFFICE 410	A	8	185		164	-	184	99.5
SGRD3	OPEN OFFICE 410	A	8	185		166	-	185	100.0
SGRD4	OPEN OFFICE 410	A	8	185		175	-	183	98.9

Completed By: GIBSON MORGAN on 10/06/2020

Asset	Area Served	Notes



Asset: VRF4-26

AREA: OPEN OFFICE 410 / PHONE
408-409

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	TPEFY	TPEFY-PO36
Serial Num	-	06R0131730P80 L

Test Data		
	Design	Actual
SFAN CFM	1225	1244
Motor Speed SetPt	-	MED-HIGH
RL Voltage	-	211
RL Amperage	-	1.50
RA CFM	825	856
OA CFM	400	388

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

Performance Data		
	Design	Actual
Suction ESP	-	-0.04"
Discharge ESP	-	0.16"
Total ESP	-	0.20"

Completed By: GIBSON MORGAN on 10/06/2020

Notes:

Diffuser Supply (GRD)

**VRF4-26 / OPEN OFFICE 410 /
PHONE 408-409**

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	OPEN OFFICE 410	A	8	185		147	-	174	94.1
SGRD2	OPEN OFFICE 410	A	8	185		119	-	182	98.4
SGRD3	PHONE 408	A	8	60		166	-	64	106.7
SGRD4	PHONE 409	A	8	55		141	-	56	101.8
SGRD5	OPEN OFFICE 410	A	8	185		174	-	180	97.3
SGRD6	OPEN OFFICE 410	A	8	185		22	-	199	107.6
SGRD7	OPEN OFFICE 410	A	8	185		164	-	190	102.7
SGRD8	OPEN OFFICE 410	A	8	185		157	-	199	107.6

Completed By: Brian Irvin on 10/17/2020

Asset	Area Served	Notes

System/Unit: Fan Coil



Asset: VRF4-27

AREA: CONFERENCE 406

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	TPEFY	TPEFY-PO12
Serial Num	-	05R0225930P80 E

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

Test Data		
	Design	Actual
SFAN CFM	495	495
Motor Speed SetPt	-	MED-HIGH
RL Voltage	-	211
RL Amperage	-	0.55
RA CFM	175	183
OA CFM	320	312

Performance Data		
	Design	Actual
Suction ESP	-	-0.02"
Discharge ESP	-	0.12"
Total ESP	-	0.14"

Completed By: GIBSON MORGAN on 10/05/2020

Notes:

Diffuser Supply (GRD)

VRF4-27 / CONFERENCE 406

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	CONFERENCE 406	A	8	165		120	-	164	99.4
SGRD2	CONFERENCE 406	A	8	165		149	-	159	96.4
SGRD3	CONFERENCE 406	A	8	165		147	-	172	104.2

Completed By: Brian Irvin on 10/17/2020

Asset	Area Served	Notes

System/Unit: Fan Coil



Asset: VRF4-28

AREA: RECEPTION 400 / OPEN OFFICE 407

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	TPEFY	TPEFY-PO15
Serial Num	-	05R0077330P80 G

Test Data		
	Design	Actual
SFAN CFM	645	680
Motor Speed SetPt	-	MED-HIGH
RL Voltage	-	212
RL Amperage	-	0.49
RA CFM	465	487
OA CFM	180	193

Motor Data		
	Design	Actual
Horsepower	-	NL
Phase	1	1
Voltage (rated)	208	208
Amperage (rated)	-	1.45

Performance Data		
	Design	Actual
Suction ESP	-	-0.03"
Discharge ESP	-	0.09"
Total ESP	-	0.12"

Completed By: GIBSON MORGAN on 10/05/2020

Notes:

Diffuser Supply (GRD)

VRF4-28 / RECEPTION 400 / OPEN OFFICE 407

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	RECEPTION 400 / OPEN OFFICE 407	A	8	155		91	-	147	94.8
SGRD2	RECEPTION 400 / OPEN OFFICE 407	A	8	155		129	-	169	109.0
SGRD3	RECEPTION 400 / OPEN OFFICE 407	A	8	155		131	-	168	108.4
SGRD4	RECEPTION 400 / OPEN OFFICE 407	A	8	120		74	-	131	109.2
SGRD5	RECEPTION 400 / OPEN OFFICE 407	A	8	60		115	-	65	108.3

Completed By: GIBSON MORGAN on 10/05/2020

Asset	Area Served	Notes

System/Unit: Fan Coil



Asset: VRF4-29

AREA: BREAK ROOM 402 / COPY 403

Unit Data		
	Design	Actual
MFG	MITSUBISHI	MITSUBISHI
Model Num	TPEFY	TPEFY-PO12
Serial Num	-	05R0226630P80 E

Test Data		
	Design	Actual
SFAN CFM	435	435
Motor Speed SetPt	-	MEDIUM
RL Voltage	-	211
RL Amperage	-	0.51
RA CFM	235	240
OA CFM	200	195

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

Performance Data		
	Design	Actual
Suction ESP	-	-0.04"
Discharge ESP	-	0.21"
Total ESP	-	0.25"

Completed By: Brian Irvin on 10/17/2020

Notes:

Diffuser Supply (GRD)

VRF4-29 / BREAK ROOM 402 / COPY 403

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	BREAK ROOM 402 / COPY 403	A	8	145		155	-	146	100.7
SGRD2	BREAK ROOM 402 / COPY 403	A	8	145		150	-	146	100.7
SGRD3	BREAK ROOM 402 / COPY 403	A	8	145		134	-	143	98.6

Completed By: Brian Irvin on 10/17/2020

Asset	Area Served	Notes