

National TAB

Project: Pet Suites Cypress Springs (Cypress, TX)

System/Unit: AHU/RTU



Asset: RTU-1

AREA: LOBBY/OFFICE

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	3023C09058
Model Num	NA	48GCDN05A3M5A6B1C0
Configuration	VERTICAL DISCHARGE	VERTICAL DISCHARGE
Num OA Filters 1	-	1
OA Filter Size 1	-	15x30x1
Num PreFilter 1	-	2
PreFilter Size 1	-	16x25x2

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	1.1	NL
Motor Rpm	-	NL
Phase	3	3
Rated Voltage	208	208
Rated Amperage	5.1	5.5
Service Factor	-	NL

Test Data		
	Design	Actual
SF CFM	1700	1761
RA CFM	1532	1603
OA CFM	168	158
RL Voltage	208	214/214/215
RL Amperage	-	3.6/3.7/3.7
OA Damper Position	-	3.00 VDC

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.67"
Fan Suction SP	-	-0.94"
Fan Discharge SP	-	0.55"
Total ESP	1.00"	1.22"
Fan Total SP	-	1.49"

Completed By: Wesley John on 01/25/2024

Notes:
 SUPPLY FAN SPEED SET POINT 8.4 VDC.
 LOW FAN SPEED ECONOMIZER SET POINT 3.55 VDC.

Written By: Wesley John on 01/25/2024

National TAB

Project: Pet Suites Cypress Springs (Cypress, TX)

AHU/RTU



Diffuser Supply (GRD)

RTU-1/LOBBY/OFFICE

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-1	106	SD-1	6	50	93	53	106.0
1-2	103	SD-1	8	150	129	147	98.0
1-3	105	SD-2	8	200	177	205	102.5
1-4	102	SD-1	6	50	109	54	108.0
1-5	100	SD-3	12	625	652	662	105.9
1-6	100	SD-3	12	625	695	640	102.4
Total				1700	1855	1761	103.59%

Diffuser Ret/Exh (GRD)

RTU-1/LOBBY/OFFICE

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R1-1	RG-2	24X16	1250	1.0	1447	-	1284	102.7
R1-2	RG-1	8	180		98	-	172	95.6
Total			1430		1545	0	1456	101.82%

Completed By: Wesley John on 01/25/2024

National TAB

Project: Pet Suites Cypress Springs (Cypress, TX)

System/Unit: AHU/RTU



Asset: RTU-3

AREA: BREAK/HALL

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	4622F46587
Model Num	NA	48VG-A3006050--
Configuration	VERTICAL DISCHARGE	VERTICAL DISCHARGE
Num OA Filters 1	-	N/A
OA Filter Size 1	-	N/A
Num PreFilter 1	-	[1]
PreFilter Size 1	-	[1]

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	0.5	NL
Motor Rpm	-	NL
Phase	3	1
Rated Voltage	208	208
Rated Amperage	4.1	4.1
Service Factor	-	NL

Test Data		
	Design	Actual
SF CFM	1000	949
RA CFM	853	949
OA CFM	147	0
RL Voltage	208	212
RL Amperage	4.1	3.0
OA Damper Position	-	N/A

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.28"
Fan Suction SP	-	-0.44"
Fan Discharge SP	-	0.34"
Total ESP	0.20"	0.62"
Fan Total SP	-	0.78"

Completed By: Wesley John on 01/25/2024

Notes:

[1] NO PRE FILTERS PRESENT FOR TESTING. COMFORT SYSTEMS NOTIFIED.
NO OUTSIDE AIR HOOD ON UNIT.

Written By: Wesley John on 01/25/2024

National TAB

Project: Pet Suites Cypress Springs (Cypress, TX)

AHU/RTU



Diffuser Supply (GRD)

RTU-3/BREAK/HALL

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1		SD-2	16x14	550	441	520	94.5
SGRD2		SD-2	12	450	523	429	95.3
Total				1000	964	949	94.9%

Diffuser Ret/Exh (GRD)

RTU-3/BREAK/HALL

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	RG-1	12	550	1.0	412	-	541	98.4
EGRD2	RG-1	12	450	1.0	472	-	417	92.7
Total			1000		884	0	958	95.8%

Completed By: Wesley John on 01/25/2024

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Project: Pet Suites Cypress Springs (Cypress, TX)

System/Unit: AHU/RTU



Asset: RTU-4

AREA: MED. KENNEL

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	3923P72176
Model Num	NA	48FCSN09B3M5A6W1C0
Configuration	VERTICAL DISCHARGE	VERTICAL DISCHARGE
Num OA Filters 1	-	1
OA Filter Size 1	-	20x36x1
Num PreFilter 1	-	4
PreFilter Size 1	-	20x20x2

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	3.7	NL
Motor Rpm	-	NL
Phase	3	3
Rated Voltage	208	208
Rated Amperage	7.5	7.5
Service Factor	-	NL

Test Data		
	Design	Actual
SF CFM	3750	3810
SF RPM	1912	1990
RA CFM	3386	3440
OA CFM	364	370
RL Voltage	208	213/213/213
RL Amperage	7.5	6.9/6.8/7.0
OA Damper Position	-	2.95 VDC

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.59"
Fan Suction SP	-	-0.84"
Fan Discharge SP	-	0.52"
Total ESP	1.00	1.11"
Fan Total SP	1.35	1.36"

Completed By: Wesley John on 01/25/2024

Notes:
 SUPPLY FAN SPEED SET POINT 8.6 VDC.
 LOW FAN SPEED ECONOMIZER SET POINT 3.85 VDC.

Written By: Wesley John on 01/25/2024

National TAB

Project: Pet Suites Cypress Springs (Cypress, TX)

AHU/RTU



Diffuser Supply (GRD)

RTU-4/MED. KENNEL

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
4-1	120	SD-4	14	810	716	847	104.6
4-2	120	SD-4	14	810	694	840	103.7
4-3	120	SD-4	14	810	996	781	96.4
4-4	120	SD-4	14	820	958	831	101.3
4-5	119	SD-2	12	500	475	511	102.2
Total				3750	3839	3810	101.6%

Diffuser Ret/Exh (GRD)

RTU-4/MED. KENNEL

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R4-1	RG-1	8	293		477	-	309	105.5
R4-2	RG-2	18X12	810		934	-	849	104.8
R4-3	RG-2	18X12	805		743	-	834	103.6
R4-4	RG-2	18X12	805		679	-	787	97.8
Total			2713		2833	0	2779	102.43%

Completed By: Wesley John on 01/25/2024

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Project: Pet Suites Cypress Springs (Cypress, TX)

System/Unit: AHU/RTU



Asset: RTU-5

AREA: LG DAYCARE

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	3923P72175
Model Num	NA	48FCSN09B3M5A6W1C0
Configuration	VERTICAL DISCHARGE	VERTICAL DISCHARGE
Num OA Filters 1	-	1
OA Filter Size 1	-	20x36x1
Num PreFilter 1	-	4
PreFilter Size 1	-	20x20x2

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	3.7	NL
Motor Rpm	-	NL
Phase	3	3
Rated Voltage	208	208
Rated Amperage	7.5	7.5
Service Factor	-	NL

Test Data		
	Design	Actual
SF CFM	3750	3778
SF RPM	1912	2015
RA CFM	3373	3423
OA CFM	377	355
RL Voltage	208	212/212/213
RL Amperage	7.5	7.2/7.2/7.0
OA Damper Position	-	3.00 VDC

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.70"
Fan Suction SP	-	-0.97"
Fan Discharge SP	-	0.57"
Total ESP	1.00	1.27"
Fan Total SP	1.35	1.54"

Completed By: Wesley John on 01/25/2024

Notes:
 SUPPLY FAN SPEED SET POINT 8.7 VDC.
 LOW FAN SPEED ECONOMIZER SET POINT 3.60 VDC.

Written By: Wesley John on 01/25/2024

National TAB

Project: Pet Suites Cypress Springs (Cypress, TX)

AHU/RTU



Diffuser Supply (GRD)

RTU-5/LG DAYCARE

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
5-1	121	SD-4	18	1000	1008	1059	105.9
5-2	107	SD-4	18	875	1101	912	104.2
5-3	107	SD-4	18	1000	874	940	94.0
5-4	121	SD-4	18	875	825	867	99.1
Total				3750	3808	3778	100.75%

Diffuser Ret/Exh (GRD)

RTU-5/LG DAYCARE

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R5-1	RG-2		800		573	-	768	96.0
R5-2	RG-2		1200		1371	-	1173	97.8
Total			2000		1944	0	1941	97.05%

Completed By: Wesley John on 01/25/2024

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Project: Pet Suites Cypress Springs (Cypress, TX)

System/Unit: AHU/RTU



Asset: RTU-6

AREA:LG KENNELS

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	3423P02215
Model Num	NA	48FCSN16B3M5A6W1C0
Configuration	VERTICAL	VERTICAL DISCHARGE
Num OA Filters 1	-	2
OA Filter Size 1	-	24x26x1
Num PreFilter 1	-	6
PreFilter Size 1	-	18x24x2

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	4.9	NL
Motor Rpm	-	NL
Phase	3	3
Rated Voltage	208	208
Rated Amperage	12.6	12.6
Service Factor	-	NL

Test Data		
	Design	Actual
SF CFM	5870	6093
SF RPM	1980	1785
RA CFM	5354	5590
OA CFM	516	503
RL Voltage	208	214/213/213
RL Amperage	12.6	7.1/7.4/7.2
OA Damper Position	-	3.40 VDC

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.80"
Fan Suction SP	-	-1.19"
Fan Discharge SP	-	0.61"
Total ESP	1.00	1.41"
Fan Total SP	1.82	1.80"

Completed By: Wesley John on 01/25/2024

Notes:
 SUPPLY FAN SPEED SET POINT 7.6 VDC.
 LOW FAN SPEED ECONOMIZER SET POINT 4.00 VDC.

Written By: Wesley John on 01/25/2024

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Project: Pet Suites Cypress Springs (Cypress, TX)

AHU/RTU



Diffuser Supply (GRD)

RTU-6/LG KENNELS

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
6-1	110	SD-5	22	2935	3940	3147	107.2
6-2	110	SD-5	22	2935	2972	2946	100.4
Total				5870	6912	6093	103.8%

Completed By: Wesley John on 01/25/2024

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Project: Pet Suites Cypress Springs (Cypress, TX)

System/Unit: AHU/RTU



Asset: RTU-7

AREA:SM DAYCARE

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	3123C09559
Model Num	NA	48FCTN07B3M5A6W1C0
Configuration	VERTICAL DISCHARGE	VERTICAL DISCHARGE
Num OA Filters 1	-	1
OA Filter Size 1	-	15x30x1
Num PreFilter 1	-	4
PreFilter Size 1	-	16x16x2

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	2.9	NL
Motor Rpm	-	NL
Phase	3	3
Rated Voltage	208	208
Rated Amperage	6.4	6.5
Service Factor	-	NL

Test Data		
	Design	Actual
SF CFM	2700	2743
SF RPM	896	2620
RA CFM	2466	2500
OA CFM	234	243
RL Voltage	208	213/214/214
RL Amperage	6.4	5.6/5.6/5.8
OA Damper Position	-	3.10 VDC

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.67"
Fan Suction SP	-	-0.91"
Fan Discharge SP	-	0.56"
Total ESP	1.00	1.23"
Fan Total SP	1.39	1.47"

Completed By: Wesley John on 01/25/2024

Notes:
 SUPPLY FAN SPEED SET POINT 9.2 VDC.
 LOW FAN SPEED ECONOMIZER SET POINT 3.80 VDC.

Written By: Wesley John on 01/25/2024

National TAB

Project: Pet Suites Cypress Springs (Cypress, TX)

AHU/RTU



Diffuser Supply (GRD)

RTU-7/SM DAYCARE

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
7-1	122	SD-5		2700	2530	2743	101.6
Total				2700	2530	2743	101.59%

Completed By: Wesley John on 01/25/2024

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Project: Pet Suites Cypress Springs (Cypress, TX)

System/Unit: AHU/RTU



Asset: RTU-2A1

AREA:TOWNHOUSE

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	3023C09059
Model Num	NA	48GCDN05A3M5A6B1C0
Configuration	VERTICAL DISCHARGE	VERTICAL DISCHARGE
Num OA Filters 1	-	1
OA Filter Size 1	-	15x30x1
Num PreFilter 1	-	2
PreFilter Size 1	-	16x25x2

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	1.1	NL
Motor Rpm	-	NL
Phase	3	3
Rated Voltage	208	208
Rated Amperage	5.1	5.5
Service Factor	-	NL

Test Data		
	Design	Actual
SF CFM	1700	1730
RA CFM	1468	1508
OA CFM	232	222
RL Voltage	208	215/216/215
RL Amperage	5.1	2.4/2.6/2.6
OA Damper Position	-	2.80 VDC

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.44"
Fan Suction SP	-	-0.69"
Fan Discharge SP	-	0.48"
Total ESP	1.00	0.92"
Fan Total SP	1.23	1.17"

Completed By: Wesley John on 01/25/2024

Notes:
 SUPPLY FAN SPEED SET POINT 7.3 VDC.
 LOW FAN SPEED ECONOMIZER SET POINT 3.45 VDC.

Written By: Wesley John on 01/25/2024

National TAB

Project: Pet Suites Cypress Springs (Cypress, TX)

AHU/RTU



Diffuser Supply (GRD)

RTU-2A1/TOWNHOUSE

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2A-1	101	SD-2	10	300	239	283	94.3
2A-2	101	SD-2	10	350	305	330	94.3
2A-3	111	SD-4	10	300	395	318	106.0
2A-4	111	SD-3	10	300	390	326	108.7
2A-5	111	SD-3	12	450	694	473	105.1
Total				1700	2023	1730	101.76%

Diffuser Ret/Exh (GRD)

RTU-2A1/TOWNHOUSE

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R2A-1	RG-1	12	500		597	-	511	102.2
R2A-2	RG-1		650		499	-	622	95.7
Total			1150		1096	0	1133	98.52%

Completed By: Wesley John on 01/25/2024

National TAB

Project: Pet Suites Cypress Springs (Cypress, TX)

System/Unit: AHU/RTU



Asset: RTU-2B1

AREA:GROOMING

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	3023P09060
Model Num	NA	48GCDN05A3M5A6B1C0
Configuration	VERTICAL	VERTICAL DISCHARGE
Num OA Filters 1	-	1
OA Filter Size 1	-	15x30x1
Num PreFilter 1	-	2
PreFilter Size 1	-	16x25x2

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	1.1	NL
Motor Rpm	-	NL
Phase	3	3
Rated Voltage	208	208
Rated Amperage	5.1	5.5
Service Factor	-	NL

Test Data		
	Design	Actual
SF CFM	1250	1294
RA CFM	1123	1175
OA CFM	127	119
RL Voltage	208	214/214/215
RL Amperage	5.1	1.2/1.4/1.3
OA Damper Position	-	2.65 VDC

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.40"
Fan Suction SP	-	-0.66"
Fan Discharge SP	-	0.47"
Total ESP	1.00	0.87"
Fan Total SP	1.23	1.13"

Completed By: Wesley John on 01/25/2024

Notes:

SUPPLY FAN SPEED SET POINT 5.6 VDC.
LOW FAN SPEED ECONOMIZER SET POINT 3.20 VDC.

Written By: Wesley John on 01/25/2024

National TAB

Project: Pet Suites Cypress Springs (Cypress, TX)

AHU/RTU



Diffuser Supply (GRD)

RTU-2B1/GROOMING

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2B-1	RESTROOM	SD-1		50	213	53	106.0
2B-2		SD-2		150	402	160	106.7
2B-3	118	SD-2	12	450	145	462	102.7
2B-4		SD-2		600	1266	619	103.2
Total				1250	2026	1294	103.52%

Diffuser Ret/Exh (GRD)

RTU-2B1/GROOMING

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R2B-1	RG-1		150		220	-	147	98.0
R2B-2	RG-1		600		497	-	589	98.2
R2B-3	RG-1		450		398	-	425	94.4
Total			1200		1115	0	1161	96.75%

Completed By: Wesley John on 01/25/2024

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Project: Pet Suites Cypress Springs (Cypress, TX)

System/Unit: Energy Recovery Unit



Asset: ERV-2

AREA:RTU-2A&2B

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	ECV-20-P-H
Serial Num	-	21201474
Num Exh-Filters 1	-	2
Exh-Filter Size 1	-	20x20x2
Num OA-Filters 1	-	2
OA-Supply Size 1	-	20x20x2

Exhaust Fan Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	56
Horsepower	0.75	0.75
Motor Rpm	1750	1760
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	2.54
Service Factor	-	1.00

OA Fan Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	56
Horsepower	0.75	0.75
Motor Rpm	1750	1760
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	2.54
Service Factor	-	1.00

Exhaust Fan Test Data		
	Design	Actual
Exh-ERU CFM	1173	1180
Exh-ERU RPM	1538	1302
Exh-ERU System SetPt	-	44.4 Hz
RL Voltage	-	215/215/215
RL Amperage	-	1.82 (VFD)
Brake Horse Power	-	0.54

Exhaust Fan Performance Data		
	Design	Actual
Exh-ERU Wheel Delta SP	-	0.42"
Exh-ERU Delta T	-	1.9 F

OA Fan Test Data		
	Design	Actual
OA-ERU CFM	1173	1209
OA-ERU RPM	1454	1179
Motor Frequency	-	40.2 Hz
RL Voltage	-	215/215/215
RL Amperage	-	1.72 (VFD)

OA Fan Performance Data		
	Design	Actual
OA-ERU Wheel Delta SP	-	0.47"
OA-ERU Delta T	-	2.3 F

Completed By: Wesley John on 01/25/2024

National TAB

Project: Pet Suites Cypress Springs (Cypress, TX)

System/Unit: Energy Recovery Unit



Asset: ERV-4

AREA:RTU-4

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	ECV-20-P-H
Serial Num	-	21201477
Num Exh-Filters 1	-	2
Exh-Filter Size 1	-	20x20x2
Num OA-Filters 1	-	2
OA-Supply Size 1	-	20x20x2

Exhaust Fan Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	56
Horsepower	0.75	0.75
Motor Rpm	1750	1760
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	2.54
Service Factor	-	1.00

OA Fan Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	56
Horsepower	0.75	0.75
Motor Rpm	1750	1760
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	2.54
Service Factor	-	1.00

Exhaust Fan Test Data		
	Design	Actual
Exh-ERU CFM	1343	1289
Exh-ERU RPM	-	1584
Exh-ERU System SetPt	-	54.0 Hz
RL Voltage	-	215/214/215
RL Amperage	-	1.95 (VFD)
Brake Horse Power	-	0.58

Exhaust Fan Performance Data		
	Design	Actual
Exh-ERU Wheel Delta SP	-	0.49"
Exh-ERU Delta T	-	1.1 F

OA Fan Test Data		
	Design	Actual
OA-ERU CFM	1343	1311
OA-ERU RPM	1578	1690
Motor Frequency	-	57.6 Hz
RL Voltage	-	215/214/215
RL Amperage	-	2.13 (VFD)

OA Fan Performance Data		
	Design	Actual
OA-ERU Wheel Delta SP	-	0.52"
OA-ERU Delta T	-	1.3"

Completed By: Wesley John on 01/25/2024

National TAB

Project: Pet Suites Cypress Springs (Cypress, TX)

Energy Recovery Unit



Diffuser Ret/Exh (GRD)

ERV-4/RTU-4

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
E4-1	RG-1		1343	1.0	1113	-	1289	96.0
Total			1343		1113	0	1289	95.98%

Completed By: Wesley John on 01/25/2024

National TAB

Project: Pet Suites Cypress Springs (Cypress, TX)

System/Unit: Energy Recovery Unit



Asset: ERV-5

AREA:RTU-5

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	ECV-20-P-H
Serial Num	-	21201478
Num Exh-Filters 1	-	2
Exh-Filter Size 1	-	20x20x2
Num OA-Filters 1	-	2
OA-Supply Size 1	-	20x20x2

Exhaust Fan Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	56
Horsepower	0.75	0.75
Motor Rpm	1750	1760
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	2.54
Service Factor	-	1.00

OA Fan Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	56
Horsepower	0.75	0.75
Motor Rpm	1750	1760
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	2.54
Service Factor	-	1.00

Exhaust Fan Test Data		
	Design	Actual
Exh-ERU CFM	1360	1389
Exh-ERU RPM	1688	1443
Exh-ERU System SetPt	-	49.2 Hz
RL Voltage	-	215/214/215
RL Amperage	-	1.92 (VFD)
Brake Horse Power	-	0.57

Exhaust Fan Performance Data		
	Design	Actual
Exh-ERU Wheel Delta SP	-	0.39"
Exh-ERU Delta T	-	0.9 F

OA Fan Test Data		
	Design	Actual
OA-ERU CFM	1360	1343
OA-ERU RPM	1590	1496
Motor Frequency	-	51.0 Hz
RL Voltage	-	215/214/215
RL Amperage	-	1.98 (VFD)

OA Fan Performance Data		
	Design	Actual
OA-ERU Wheel Delta SP	-	0.54"
OA-ERU Delta T	-	1.2 F

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National TAB

Project: Pet Suites Cypress Springs (Cypress, TX)

System/Unit: Energy Recovery Unit



Asset: ERV-6

AREA:RTU-6

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	ECV-30-P-H
Serial Num	-	21201479
Num Exh-Filters 1	-	3
Exh-Filter Size 1	-	20x20x2
Num OA-Filters 1	-	3
OA-Supply Size 1	-	20x20x2

Exhaust Fan Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	56
Horsepower	2@ 1.00	2@ 1.00
Motor Rpm	1750	1760
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	3.47
Service Factor	-	1.00

OA Fan Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	56
Horsepower	2@ 1.00	2@ 1.00
Motor Rpm	1750	1760
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	3.47
Service Factor	-	1.00

Exhaust Fan Test Data		
	Design	Actual
Exh-ERU CFM	1913	1941
Exh-ERU RPM	1440	1074
Exh-ERU System SetPt	-	36.6 Hz
RL Voltage	-	215/214/214
RL Amperage	-	2.21 (VFD)
Brake Horse Power	-	0.64 x2

Exhaust Fan Performance Data		
	Design	Actual
Exh-ERU Wheel Delta SP	-	0.53"
Exh-ERU Delta T	-	0.7 F

OA Fan Test Data		
	Design	Actual
OA-ERU CFM	1913	1897
OA-ERU RPM	1483	1173
Motor Frequency	-	40.0 Hz
RL Voltage	-	215/214/214
RL Amperage	-	2.17 (VFD)

OA Fan Performance Data		
	Design	Actual
OA-ERU Wheel Delta SP	-	0.47"
OA-ERU Delta T	-	1.4 F

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National TAB

Project: Pet Suites Cypress Springs (Cypress, TX)

System/Unit: Energy Recovery Unit



Asset: ERV-7

AREA:RTU-7

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	ECV-20-P-H
Serial Num	-	21201480
Num Exh-Filters 1	-	2
Exh-Filter Size 1	-	20x20x2
Num OA-Filters 1	-	2
OA-Supply Size 1	-	20x20x2

Exhaust Fan Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	56
Horsepower	0.50	0.50
Motor Rpm	1750	1765
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	1.90
Service Factor	-	1.00

OA Fan Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	56
Horsepower	0.50	0.50
Motor Rpm	1750	1765
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	1.90
Service Factor	-	1.00

Exhaust Fan Test Data		
	Design	Actual
Exh-ERU CFM	862	881
Exh-ERU RPM	1370	1006
RL Voltage	-	214/214/214
RL Amperage	-	1.48 (VFD)
Brake Horse Power	-	0.39

Exhaust Fan Performance Data		
	Design	Actual
Exh-ERU Wheel Delta SP	-	0.38"
Exh-ERU Delta T	-	0.6 F

OA Fan Test Data		
	Design	Actual
OA-ERU CFM	862	851
OA-ERU RPM	1309	847
RL Voltage	-	214/214/214
RL Amperage	-	1.47 (VFD)

OA Fan Performance Data		
	Design	Actual
OA-ERU Wheel Delta SP	-	0.41"
OA-ERU Delta T	-	1.0 F

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Notes:
 SUPPLY FAN VFD SET POINT 34.2 Hz.
 EXHAUST FAN VFD SET POINT 28.8 Hz.

Written By: Wesley John on 01/25/2024

National TAB

Project: Pet Suites Cypress Springs (Cypress, TX)

System/Unit: FAN - Exhaust



Asset: EF-1

AREA:FRONT RESTROOM

Unit Data		
	Design	Actual
MFG	NA	COOK
Model Num	NA	GEMINI 140
Serial Num	-	NL
Type	CEILING	CEILING

Test Data		
	Design	Actual
CFM	70	103
RL Voltage	-	124
RL Amperage	-	0.2
Total ESP	0.38"	N/A

Motor Data		
	Design	Actual
Motor MFG	-	QUEACE
Frame	-	NL
Horsepower	80W	15W
Motor Rpm	860	1550
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	0.40
Service Factor	-	NL

Completed By: Wesley John on 01/25/2024

Notes:
MOTOR RE-WIRED FOR LOW SPEED.

Written By: Wesley John on 01/24/2024

National TAB

Project: Pet Suites Cypress Springs (Cypress, TX)

System/Unit: FAN - Exhaust



Asset: EF-2

AREA:BACK RESTROOM

Unit Data		
	Design	Actual
MFG	NA	COOK
Model Num	NA	GEMINI 140
Serial Num	-	NL
Type	CEILING	CEILING

Test Data		
	Design	Actual
CFM	70	95
RL Voltage	-	123
RL Amperage	-	0.3
Total ESP	0.38"	N/A

Motor Data		
	Design	Actual
Motor MFG	-	QUEACE
Frame	-	NL
Horsepower	80W	15W
Motor Rpm	860	1550
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	0.40
Service Factor	-	NL

Completed By: Wesley John on 01/25/2024

Notes:
MOTOR RE-WIRED FOR LOW SPEED.

Written By: Wesley John on 01/24/2024

National TAB

Project: Pet Suites Cypress Springs (Cypress, TX)

System/Unit: FAN - Exhaust



Asset: EF-3

AREA:CLOSET

Unit Data		
	Design	Actual
MFG	NA	COOK
Model Num	NA	GEMINI 160
Serial Num	-	NL
Type	CEILING	CEILING

Test Data		
	Design	Actual
CFM	150	173
RL Voltage	-	123
RL Amperage	-	0.4
Total ESP	0.25"	N/A

Motor Data		
	Design	Actual
Motor MFG	-	QUEACE
Frame	-	NL
Horsepower	128W	16W
Motor Rpm	1093	1100
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	0.51
Service Factor	-	NL

Completed By: Wesley John on 01/25/2024

Notes:
MOTOR IS WIRED FOR LOW FAN SPEED. CANNOT REDUCE CFM FURTHER.

Written By: Wesley John on 01/24/2024

National TAB

Project: Pet Suites Cypress Springs (Cypress, TX)

System/Unit: FAN - Exhaust



Asset: EF-4

AREA:ELECTRICAL ROOM

Unit Data		
	Design	Actual
MFG	NA	COOK
Model Num	NA	GEMINI 160
Serial Num	-	NL
Type	CEILING	CEILING

Test Data		
	Design	Actual
CFM	150	188
RL Voltage	-	123
RL Amperage	-	0.5
Total ESP	0.25"	N/A

Motor Data		
	Design	Actual
Motor MFG	-	QUEACE
Frame	-	NL
Horsepower	128W	16W
Motor Rpm	1093	1100
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	0.51
Service Factor	-	NL

Completed By: Wesley John on 01/25/2024

Notes:
HIGH FAN SPEED IS CLOSEST TO DESIGN CFM.

Written By: Wesley John on 01/24/2024