

National TAB

Project: EGLIN AFB (DESTIN, FL)
Address: Eglin AFB, FL 32542

Asset: RTU-1

Area: BUILDING 525

Unit Data	
Manufacturer	Captive Aire
Model Num	CASRTU1-E.302-16-7.5T
Serial Num	5999708
Configuration	RTU - HORIZONTAL
Num OA Filters	2
OA Filter Size	16X20X2
Num PreFilter	4
PreFilter Size	16X16X2

Test Data		
	Design	Actual
SF CFM	2600	2530
SF RPM	1051	90%
RA CFM	2150	2059
OA CFM	450	471
RL VOLTAGE	208	211/210/212
RL AMPERAGE		2.4/2.4/2.5
OA Damper Position		5.0 V / 19%
Brake Horsepower		N/A

Motor Data	
Motor MFG	ZIEHL-ABEGG
Frame	N/L
Horsepower	2.5
Motor RPM	N/L
Phase	3
Rated Voltage	208
Rated Amperage	5.7
Service Factor	N/L

Performance Data		
	Design	Actual
Fan Suction SP		-1.25
Fan Discharge SP		1.01
Fan Total SP		2.26
DX Coil PD *		0.610
Pre Filter PD		0.196
Total ESP	0.75	1.45
DX Coil DB EAT		76.6F
DX Coil DB LAT		59.6F
DX Coil WB EAT		64.9F
DX Coil WB LAT		57.3F
DX Coil Capacity		7.5T

INDOOR TEMPS	
CURRENT TEMP.	75.3F
HUMIDITY	54.4% RH
WETBULB	64.0F
OUTDOOR TEMPS	
CURRENT TEMP.	97.3F
HUMIDITY	53.4% RH
WETBULB	82.2F
DEWPOINT	77.8F

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Project: EGLIN AFB (DESTIN, FL)
Address: Eglin AFB, FL 32542

Asset: RTU-2

Area: BUILDING 525

Unit Data	
Manufacturer	Captive Aire
Model Num	CASRTU1-E.152-13-5T
Serial Num	5999708
Configuration	RTU
Num OA Filters	2
OA Filter Size	16X20X2
Num PreFilter	4
PreFilter Size	16X16X2

Test Data		
	Design	Actual
SF CFM	1800	1744
SF RPM	1095	2146
RA CFM	1650	1600
OA CFM	150	144
RL VOLTAGE	208	208/209/210
RL AMPERAGE		5.0/5.0/4.9
OA Damper Position		4.0V / 13%
Brake Horsepower		1.81

Motor Data	
Motor MFG	TECO WESTINGHOUSE
Frame	145T
Horsepower	2
Motor RPM	1740
Phase	3
Rated Voltage	230/460
Rated Amperage	5.48/2.74
Service Factor	1.15

Performance Data		
	Design	Actual
Fan Suction SP		-0.91
Fan Discharge SP		0.63
Fan Total SP		1.54
DX Coil PD *		0.478
Pre Filter PD		0.148
Total ESP	0.5	0.88
DX Coil DB EAT		76.6F
DX Coil DB LAT		61.3F
DX Coil WB EAT		64.4F
DX Coil WB LAT		57.2F
DX Coil Capacity		5T

INDOOR TEMPS	
CURRENT TEMP.	75.9F
HUMIDITY	63.2% RH
WETBULB	67.8F
OUTDOOR TEMPS	
CURRENT TEMP.	97.3F
HUMIDITY	53.4% RH
WETBULB	82.2F
DEWPOINT	77.8F

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Project: EGLIN AFB (DESTIN, FL)

Address: Eglin AFB, FL 32542

Asset: EF-1

Area: BUILDING 525

Unit Data	
MFG	AIR KING
Model Num	AK280LS
Serial Num	3213221a
Type	CEILING

Motor Data	
Motor MFG	N/L
Frame	N/L
Horsepower	N/L
Motor Rpm	N/L
Phase	1
Voltage (rated)	120
Amperage (rated)	0.9
Service Factor	N/L

Test Data		
	Design	Actual
CFM	250	229
Fan RPM	2050	MAXIMIZED
RL Voltage	120	121
RL Amperage	1.5	0.25
Suction ESP		-0.016
Total ESP	0.01	0.376"
Discharge ESP		0.36"

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Project: EGLIN AFB (DESTIN, FL)

Address: Eglin AFB, FL 32542

Asset: EF-2

Area: BUILDING 525

Unit Data	
MFG	AIR KING
Model Num	AK280LS
Serial Num	3213221a
Type	CEILING

Motor Data	
Motor MFG	N/L
Frame	N/L
Horsepower	N/L
Motor Rpm	N/L
Phase	1
Voltage (rated)	120
Amperage (rated)	0.9
Service Factor	N/L

Test Data		
	Design	Actual
CFM	250	228
Fan RPM	2050	MAXIMIZED
RL Voltage	120	121
RL Amperage	1.5	0.21
Suction ESP		-0.01
Total ESP	0.01	0.32"
Discharge ESP		0.31"

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Project: EGLIN AFB (DESTIN, FL)

Address: Eglin AFB, FL 32542

Asset: EF-A

Area: BUILDING 535

Unit Data	
MFG	PENNBARRY
Model Num	D10
Serial Num	H23TZ87101
Type	CENTRIFUGAL - UPBLAST

Motor Data	
Motor MFG	WEG
Frame	W56
Horsepower	0.25
Motor Rpm	1735
Phase	1
Voltage (rated)	115/208-230
Amperage (rated)	4.60/2.54-2.30
Service Factor	1.15

Drive Data	
Motor Sheave Size	MVL40B
Motor Bore Size	5/8"
Fan Sheave Size	AL74
Fan Bore Size	3/4"
Belt CL Distance	8 3/8"
No of Belts	1
Belt Size	4L330

Test Data		
	Design	Actual
CFM	350	362
Fan RPM		819
RL Voltage	120	119.8
RL Amperage		4.58
Suction ESP		-0.22
Total ESP	0.25	0.22
Brake Horse Power		0.25

Asset	Area Served	Type	Size	DESIGN	CFM(1)	FINAL CFM	% to design
Duct1	H1	Duct	4	115	119	131	1.14
Duct2	H2	Duct	4	115	100	110	0.96
Duct3	H3	Duct	4	120	110	121	1.01
				350	329	362	1.03

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Project: EGLIN AFB (DESTIN, FL)

Address: Eglin AFB, FL 32542

Asset: EF-B

Area: BUILDING 535

Unit Data	
MFG	PENNBARRY
Model Num	D10
Serial Num	H23TZ87100
Type	CENTRIFUGAL - UPBLAST

Motor Data	
Motor MFG	WEG
Frame	W56
Horsepower	0.25
Motor Rpm	1735
Phase	1
Voltage (rated)	115/208-230
Amperage (rated)	4.60/2.54-2.30
Service Factor	1.15

Drive Data	
Motor Sheave Size	MVL40B
Motor Bore Size	5/8"
Fan Sheave Size	AL74
Fan Bore Size	3/4"
Belt CL Distance	8 1/8"
No of Belts	1
Belt Size	4L330

Test Data		
	Design	Actual
CFM	350	366
Fan RPM		848
RL Voltage	120	119
RL Amperage		4.46
Suction ESP		0.27"
Total ESP	0.25	0.27"
Brake Horse Power		0.24

Asset	Area Served	Type	Size	DESIGN	CFM(1)	FINAL CFM	% to design
Duct1	H4	Duct	4	115	120	120	1.04
Duct2	H5	Duct	4	115	116	116	1.01
Duct3	H6	Duct	4	120	130	130	1.08
				350	366	366	1.05