

# National TAB

Project: ALBC ABUNDANT LIFE CROSSROADS (KANSAS CITY, MO)

System/Unit: AHU/RTU

Asset: RTU-1

AREA: 212

Unit Data		
	Design	Actual
MFG	NA	TRANE
Model Num	BELT	YSC120H4RMA 27F0B1A1A7
Serial Num	-	222513105L
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1 METAL MESH
OA Filter Size 1	-	15.25X35.75
Num PreFilter 1	-	4
PreFilter Size 1	-	20X25X2

Motor Data		
	Design	Actual
Motor MFG	-	EBMPAPST
Frame	-	NL
Horsepower	2.0	2.3KW
Motor Rpm	-	NL
Phase	3	3
Rated Voltage	460	380-480
Rated Amperage	-	3.9
Service Factor	-	NL

Drive Data		
	Design	Actual
Motor Sheave Size	-	DD
Motor Bore Size	-	DD
Motor Sheave SetPt	-	DD
Fan Sheave Size	-	DD
Fan Sheave Bore	-	DD
Belt CL Distance	-	DD
Num of Belts	-	DD
Belt Size	-	DD

Test Data		
	Design	Actual
SF CFM	3800	3482
SF RPM	-	716
RA CFM	-	2921
OA CFM	570	561
RL Voltage	-	485/484/486
RL Amperage	-	1.32/1.24/1.35
OA Damper Position	-	20%
Brake Horse Power	-	NA

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.26"
Fan Suction SP	-	-0.54"
Fan Discharge SP	-	0.12"
Total ESP	0.75"	0.80"
Fan Total SP	-	0.66"

Completed By: Jacob Davidson on 04/18/2023

Notes: UNIT SCHEDULED FOR 4000 CFM BUT DIFFUSER COUNT ADDS TO 3800 CFM. UNIT BALANCED TO THE 3800 CFM  
SPEED SETPOINT: 5VDC

# National TAB

Project: ALBC ABUNDANT LIFE CROSSROADS (KANSAS CITY, MO)

System/Unit: AHU/RTU

## Diffuser Supply (GRD)

### RTU-1 / 212

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	213	SG-1	14"X12"	300	1	436	264	273	91.0
SGRD2	212	SG-1	16"X8"	500	0.679	382	454	454	90.8
SGRD3	212	SG-1	16"X8"	500	0.679	473	500	469	93.8
SGRD4	212	SG-1	16"X8"	500	0.679	477	497	471	94.2
SGRD5	212	SG-1	16"X8"	500	0.679	416	421	451	90.2
SGRD6	212	SG-1	16"X8"	500	0.679	422	449	460	92.0
SGRD7	212	SG-1	16"X8"	500	0.679	447	453	453	90.6
SGRD8	212	SG-1	16"X8"	500	0.679	405	431	451	90.2

Completed By: Jacob Davidson on 01/30/2023

Asset	Area Served	Notes
-------	-------------	-------

# National TAB

Project: ALBC ABUNDANT LIFE CROSSROADS (KANSAS CITY, MO)

System/Unit: AHU/RTU

Asset: RTU-2

AREA: 212

Unit Data		
	Design	Actual
MFG	NA	TRANE
Model Num	BELT	YSC120H4RMA 27F0B1A1A7
Serial Num	-	222513108L
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1 METAL MESH
OA Filter Size 1	-	15.25X35.76
Num PreFilter 1	-	4
PreFilter Size 1	-	20X25X2

Motor Data		
	Design	Actual
Motor MFG	-	EMBAPST
Frame	-	NL
Horsepower	2.0	2.3KW
Motor Rpm	-	NL
Phase	3	3
Rated Voltage	460	380-480
Rated Amperage	-	3.9
Service Factor	-	NL

Drive Data		
	Design	Actual
Motor Sheave Size	-	DD
Motor Bore Size	-	DD
Motor Sheave SetPt	-	DD
Fan Sheave Size	-	DD
Fan Sheave Bore	-	DD
Belt CL Distance	-	DD
Num of Belts	-	DD
Belt Size	-	DD

Test Data		
	Design	Actual
SF CFM	4000	3897
SF RPM	-	724
RA CFM	-	3256
OA CFM	630	641
RL Voltage	-	489/491/491
RL Amperage	-	1.29/1.29/1.28
OA Damper Position	-	20%
Brake Horse Power	-	UTO

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.26"
Fan Suction SP	-	-0.50"
Fan Discharge SP	-	0.24
Total ESP	0.75"	0.76"
Fan Total SP	-	0.74"

Completed By: Jacob Davidson on 05/18/2023

Notes: UNIT SCHEDULED FOR 4000 CFM, HOWEVER DIFFUSER TOTAL ONLY ADDS UP TO 3900 CFM.  
BALANCED UNIT TO 3900 CFM.  
Speed Setpoint: 3.62VDC

# National TAB

Project: ALBC ABUNDANT LIFE CROSSROADS (KANSAS CITY, MO)

System/Unit: AHU/RTU

## Diffuser Supply (GRD)

### RTU-2 / 212

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	212	SG-1	16"X8"	400	0.679	411	489	388	97.0
SGRD2	212	SG-1	16"X8"	400	0.679	386	512	406	101.5
SGRD3	212	SG-1	16"X8"	400	0.679	453	494	392	98.0
SGRD4	212	SG-1	16"X8"	400	0.679	452	510	405	101.3
SGRD5	212	SG-1	16"X8"	400	0.679	360	519	412	103.0
SGRD6	212	SG-1	16"X8"	400	0.679	399	519	412	103.0
SGRD7	212	SG-1	16"X8"	500	0.679	424	627	498	99.6
SGRD8	212	SG-1	16"X8"	500	0.679	407	650	516	103.2
SGRD9	209	SD-1	10"	250	1	163	298	237	94.8
SGRD10	209	SD-1	10"	250	1	171	292	232	92.8

Completed By: Jacob Davidson on 05/18/2023

Asset	Area Served	Notes
-------	-------------	-------

# National TAB

Project: ALBC ABUNDANT LIFE CROSSROADS (KANSAS CITY, MO)

System/Unit: AHU/RTU

Asset: RTU-3

AREA: CLASSROOMS

Unit Data		
	Design	Actual
MFG	NA	TRANE
Model Num	BELT	YHC120F4RHA2 7FEB1A1A7
Serial Num	-	222515659L
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1 METAL MESH
OA Filter Size 1	-	15.5X36
Num PreFilter 1	-	3/2
PreFilter Size 1	-	20X25X2/20X30 X2

Motor Data		
	Design	Actual
Motor MFG	-	EBMPAPST
Frame	-	NL
Horsepower	2.0	2.3KW
Motor Rpm	NL	1650
Phase	3	3
Rated Voltage	460	480
Rated Amperage	-	3.6
Service Factor	-	NL

Drive Data		
	Design	Actual
Motor Sheave Size	-	DD
Motor Bore Size	-	DD
Motor Sheave SetPt	-	DD
Fan Sheave Size	-	DD
Fan Sheave Bore	-	DD
Belt CL Distance	-	DD
Num of Belts	-	DD
Belt Size	-	DD

Completed By: Jacob Davidson on 04/18/2023

Notes: SPEED SETPOINT AT 4.8VDC AT 35%

Test Data		
	Design	Actual
SF CFM	4000	3937
SF RPM	-	DD
RA CFM	-	2891
OA CFM	980	1046
RL Voltage	-	493
RL Amperage	-	1.35
OA Damper Position	-	30%
Brake Horse Power	-	UTO

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.31"
Fan Suction SP	-	-0.43"
Fan Discharge SP	-	0.27"
Total ESP	0.75"	0.74"
Fan Total SP	-	0.70"

# National TAB

Project: ALBC ABUNDANT LIFE CROSSROADS (KANSAS CITY, MO)

System/Unit: AHU/RTU

## Diffuser Supply (GRD)

### RTU-3 / CLASSROOMS

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	205	SD-1	6"	75	1	59	91	77	102.7
SGRD2	206	SG-1	16"X8"	500	0.679	441	568	481	96.2
SGRD3	206	SG-1	16"X8"	300	0.679	386	361	306	102.0
SGRD4	207	SG-1	16"X8"	500	0.679	493	629	532	106.4
SGRD5	207	SG-1	16"X8"	300	0.679	538	352	298	99.3
SGRD6	210	SG-1	16"X8"	500	0.679	592	561	475	95.0
SGRD7	210	SG-1	16"X8"	300	0.679	538	354	299	99.7
SGRD8	211	SG-1	16"X8"	500	0.679	449	550	465	93.0
SGRD9	211	SG-1	16"X8"	300	0.679	450	370	313	104.3
SGRD10	EMR	SG-1	16"X8"	400	0.679	347	458	388	97.0
SGRD11	HALL	SG-1	16"X8"	300	0.679	554	359	303	101.0

Completed By: Jacob Davidson on 04/18/2023

Asset	Area Served	Notes
-------	-------------	-------

# National TAB

Project: ALBC ABUNDANT LIFE CROSSROADS (KANSAS CITY, MO)

System/Unit: AHU/RTU

Asset: RTU-4

AREA: 111

Unit Data		
	Design	Actual
MFG	NA	TRANE
Model Num	BELT	YHD300G4RHD 19FAB1A1A7
Serial Num	-	221710709D
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1 METAL MESH
OA Filter Size 1	-	17.5X60
Num PreFilter 1	-	4/8
PreFilter Size 1	-	16X20X2/20X20 X2

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	184TZ
Horsepower	10.0	7-1/2
Motor Rpm	-	3490
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	8.9
Service Factor	-	1.15

Drive Data		
	Design	Actual
Motor Sheave Size	-	4.25"
Motor Bore Size	-	1-1/8"
Motor Sheave SetPt	-	3 TURNS OUT
Fan Sheave Size	-	15.5"
Fan Sheave Bore	-	1-3/16"
Belt CL Distance	-	TENSIONER IN PLACE
Num of Belts	-	1
Belt Size	-	BX77

Test Data		
	Design	Actual
SF CFM	8500	8321
SF RPM	-	743
RA CFM	-	6892
OA CFM	1570	1429
RL Voltage	-	484/485/489
RL Amperage	-	6.1 VFD
OA Damper Position	-	32%
Brake Horse Power	-	5.14

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.62"
Fan Suction SP	-	-0.47"
Fan Discharge SP	-	0.43"
Total ESP	0.75"	1.05"
Fan Total SP	-	0.90"

Completed By: Jacob Davidson on 03/09/2023

Notes:

# National TAB

Project: ALBC ABUNDANT LIFE CROSSROADS (KANSAS CITY, MO)

System/Unit: AHU/RTU

Asset: RTU-5

AREA: 111

Unit Data		
	Design	Actual
MFG	NA	TRANE
Model Num	BELT	YHD300G4RHD 19FAB1A1A7
Serial Num	-	221710710D
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1 METAL MESH
OA Filter Size 1	-	17.5X60
Num PreFilter 1	-	4/8
PreFilter Size 1	-	16X20X2/20X20 X2

Test Data		
	Design	Actual
SF CFM	8000	8116
SF RPM	-	711
RA CFM	-	6658
OA CFM	1570	1458
RL Voltage	-	488/486/489
RL Amperage	-	6.3 VFD
OA Damper Position	-	25%
Brake Horse Power	-	5.3

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	184TZ
Horsepower	10.0	7.5
Motor Rpm	-	3490
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	8.9
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.43"
Fan Suction SP	-	-0.63"
Fan Discharge SP	-	0.29"
Total ESP	0.75"	0.72"
Fan Total SP	-	0.92"

Drive Data		
	Design	Actual
Motor Sheave Size	-	4.25"
Motor Bore Size	-	1-1/8"
Motor Sheave SetPt	-	3 TURNS OUT
Fan Sheave Size	-	BK160
Fan Sheave Bore	-	1-3/16"
Belt CL Distance	-	TENSIONER IN PLACE
Num of Belts	-	1
Belt Size	-	BX77

Completed By: Jacob Davidson on 04/18/2023

Notes:

# National TAB

Project: ALBC ABUNDANT LIFE CROSSROADS (KANSAS CITY, MO)

System/Unit: AHU/RTU

Asset: RTU-6

AREA: 101

Unit Data		
	Design	Actual
MFG	NA	TRANE
Model Num	BELT	YSC092H4RHA2 7F0B1A1A7
Serial Num	-	222513092L
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1 METAL MESH
OA Filter Size 1	-	15.25X35.75
Num PreFilter 1	-	4
PreFilter Size 1	-	20X25X2

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56
Horsepower	2.0	1
Motor Rpm	-	1725
Phase	3	3
Rated Voltage	460	200-230/460
Rated Amperage	-	3.3-3.2/1.6
Service Factor	-	1.5

Drive Data		
	Design	Actual
Motor Sheave Size	-	3.25"
Motor Bore Size	-	5/8"
Motor Sheave SetPt	-	5 TURNS OUT
Fan Sheave Size	-	7.25"
Fan Sheave Bore	-	1"
Belt CL Distance	-	11.75"
Num of Belts	-	1
Belt Size	-	AX37

Completed By: Jacob Davidson on 03/08/2023

Notes:

Test Data		
	Design	Actual
SF CFM	3000	2998
SF RPM	-	536
RA CFM	-	2510
OA CFM	500	488
RL Voltage	-	488/487/490
RL Amperage	-	1.28/1.29/1.32
OA Damper Position	-	25%
Brake Horse Power	-	0.8125

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.11"
Fan Suction SP	-	-0.24"
Fan Discharge SP	-	0.21"
Total ESP	0.75"	0.32"
Fan Total SP	-	0.45"

# National TAB

Project: ALBC ABUNDANT LIFE CROSSROADS (KANSAS CITY, MO)

System/Unit: AHU/RTU

## Diffuser Supply (GRD)

### RTU-6 / 101

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	101	SG-1	16"X8"	350	0.679	607	539	368	105.1
SGRD2	101	SG-1	16"X8"	350	0.679	516	420	328	93.7
SGRD3	101	SG-1	16"X8"	350	0.679	606	500	352	100.6
SGRD4	101	SG-1	16"X8"	350	0.679	625	534	377	107.7
SGRD5	101	SG-1	16"X8"	350	0.679	463	380	343	98.0
SGRD6	101	SG-1	16"X8"	350	0.679	505	433	338	96.6
SGRD7	116	SG-1	16"X8"	400	0.679	460	392	428	107.0
SGRD8	116	SG-1	16"X8"	500	0.679	502	416	464	92.8

Completed By: Jacob Davidson on 02/23/2023

Asset	Area Served	Notes
-------	-------------	-------

# National TAB

Project: ALBC ABUNDANT LIFE CROSSROADS (KANSAS CITY, MO)

System/Unit: AHU/RTU

Asset: RTU-7

AREA: 101

Unit Data		
	Design	Actual
MFG	NA	TRANE
Model Num	BELT	YSC092H4RHA2 7F0B1A1A7
Serial Num	-	222513032L
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1 METAL MESH
OA Filter Size 1	-	15.25X35.75
Num PreFilter 1	-	4
PreFilter Size 1	-	20X25X2

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56
Horsepower	2.0	1
Motor Rpm	-	1725
Phase	3	3
Rated Voltage	460	200-230/460
Rated Amperage	-	3.3-3.2/1.6
Service Factor	-	1.5

Drive Data		
	Design	Actual
Motor Sheave Size	-	3.25"
Motor Bore Size	-	5/8"
Motor Sheave SetPt	-	5 TURNS OUT
Fan Sheave Size	-	7.25"
Fan Sheave Bore	-	1"
Belt CL Distance	-	11.5"
Num of Belts	-	1
Belt Size	-	AX37

Test Data		
	Design	Actual
SF CFM	3000	3059
SF RPM	-	605
RA CFM	-	2770
OA CFM	265	289
RL Voltage	-	485/486/485
RL Amperage	-	1.41/1.35/1.44
OA Damper Position	-	5%
Brake Horse Power	-	NA

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.12"
Fan Suction SP	-	-0.28"
Fan Discharge SP	-	0.39"
Total ESP	0.75"	0.51"
Fan Total SP	-	0.67"

Completed By: Jacob Davidson on 04/18/2023

Notes:

# National TAB

Project: ALBC ABUNDANT LIFE CROSSROADS (KANSAS CITY, MO)

System/Unit: AHU/RTU

## Diffuser Supply (GRD)

### RTU-7 / 101

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	107	SD-1	10"	300	1	245	395	291	97.0
SGRD2	106	SD-1	12"	600	1	293	511	648	108.0
SGRD3	101	SG-1	16"X8"	400	0.679	325	581	396	99.0
SGRD4	101	SG-1	16"X8"	400	0.679	473	417	424	106.0
SGRD5	105	SG-1	14"X8"	250	0.621	365	282	232	92.8
SGRD6	101	SG-1	16"X8"	375	0.679	578	414	365	97.3
SGRD7	101	SG-1	16"X8"	375	0.679	436	346	362	96.5
SGRD8	101	SG-1	16"X8"	375	0.679	549	394	341	90.9

Completed By: Jacob Davidson on 02/23/2023

Asset	Area Served	Notes
-------	-------------	-------

# National TAB

Project: ALBC ABUNDANT LIFE CROSSROADS (KANSAS CITY, MO)

System/Unit: AHU/RTU

Asset: RTU-8

AREA: 200

Unit Data		
	Design	Actual
MFG	NA	TRANE
Model Num	BELT	YSC092H4RHA2 7F0B1A1A7
Serial Num	-	222513078L
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1 METAL MESH
OA Filter Size 1	-	15.25X35.75
Num PreFilter 1	-	4
PreFilter Size 1	-	20X25X2

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56
Horsepower	2.0	1
Motor Rpm	-	1725
Phase	3	3
Rated Voltage	460	200-230/460
Rated Amperage	-	3.3-3.2/1.6
Service Factor	-	NL

Drive Data		
	Design	Actual
Motor Sheave Size	-	3.25"
Motor Bore Size	-	5/8"
Motor Sheave SetPt	-	5 TURNS OPEN
Fan Sheave Size	-	7.25"
Fan Sheave Bore	-	1"
Belt CL Distance	-	11.75"
Num of Belts	-	1
Belt Size	-	AX37

Test Data		
	Design	Actual
SF CFM	3000	2982
SF RPM	-	512
RA CFM	-	2641
OA CFM	350	341
RL Voltage	-	487/486/489
RL Amperage	-	1.32/1.28/1.35
OA Damper Position	-	18%
Brake Horse Power	-	0.844

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.07"
Fan Suction SP	-	-0.20"
Fan Discharge SP	-	0.21"
Total ESP	0.75"	0.28"
Fan Total SP	-	0.41"

Completed By: Jacob Davidson on 04/18/2023

Notes:

# National TAB

Project: ALBC ABUNDANT LIFE CROSSROADS (KANSAS CITY, MO)

System/Unit: AHU/RTU

## Diffuser Supply (GRD)

### RTU-8 / 200

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	200	SG-1	16"X8"	425	0.679	607	507	464	109.2
SGRD2	200	SG-1	16"X8"	425	0.679	758	647	450	105.9
SGRD3	200	SG-1	16"X8"	425	0.679	707	619	401	94.4
SGRD4	200	SG-1	16"X8"	425	0.679	830	667	436	102.6
SGRD5	200	SG-1	16"X8"	425	0.679	712	624	423	99.5
SGRD6	202	SD-1	10"	275	1	321	277	274	99.6
SGRD7	201	SD-1	12"	550	1	379	319	534	97.1

Completed By: Jacob Davidson on 02/23/2023

Asset	Area Served	Notes
-------	-------------	-------

# National TAB

Project: ALBC ABUNDANT LIFE CROSSROADS (KANSAS CITY, MO)

System/Unit: AHU/RTU

Asset: RTU-9

AREA: 200

Unit Data		
	Design	Actual
MFG	NA	TRANE
Model Num	BELT	YSC092H4RHA2 7F0B1A1A7
Serial Num	-	222513016L
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1 METAL MESH
OA Filter Size 1	-	15.25X35.75
Num PreFilter 1	-	4
PreFilter Size 1	-	20X25X2

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56
Horsepower	2.0	1
Motor Rpm	-	1725
Phase	3	3
Rated Voltage	460	200-230/460
Rated Amperage	-	3.3-3.2/1.6
Service Factor	-	NL

Drive Data		
	Design	Actual
Motor Sheave Size	-	3.25"
Motor Bore Size	-	5/8"
Motor Sheave SetPt	-	5 TURNS OPEN
Fan Sheave Size	-	7.25"
Fan Sheave Bore	-	1"
Belt CL Distance	-	11.75"
Num of Belts	-	1
Belt Size	-	AX37

Test Data		
	Design	Actual
SF CFM	3000	2857
SF RPM	-	507
RA CFM	-	2520
OA CFM	315	337
RL Voltage	-	489/492/488
RL Amperage	-	1.28/1.29/1.32
OA Damper Position	-	7%
Brake Horse Power	-	NA

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.12"
Fan Suction SP	-	-0.28"
Fan Discharge SP	-	0.11"
Total ESP	0.75"	0.23"
Fan Total SP	-	0.39"

Completed By: Jacob Davidson on 04/18/2023

Notes:

# National TAB

Project: ALBC ABUNDANT LIFE CROSSROADS (KANSAS CITY, MO)

System/Unit: AHU/RTU

## Diffuser Supply (GRD)

### RTU-9 / 200

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	200	SG-1	16"X8" (2)	1000	1.83 SF (22X12)	938	1183	948	94.8
SGRD2	200			0					-
SGRD3	200	SG-1	16"X8"	500	591 CFM / 870 FPM	511	551	452	90.4
SGRD4	200	SG-1	16"X8"	500	0.679	784	612	490	98.0
SGRD5	200	SG-1	16"X8"	500	0.679	637	615	493	98.6
SGRD6	200	SG-1	16"X8"	500	0.679	673	592	474	94.8

Completed By: Jacob Davidson on 02/23/2023

Asset	Area Served	Notes
SGRD2	200	NOT INSTALLED.

# National TAB

Project: ALBC ABUNDANT LIFE CROSSROADS (KANSAS CITY, MO)

## System/Unit: FAN - Exhaust

Asset: EF-1

AREA: RESTROOMS

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	DD	G-140-7-VG-1-22-X
Serial Num	-	19948431
Type	CRE	DOWNBLAST

Test Data		
	Design	Actual
CFM	1950	1875
RL Voltage	-	NOT SAFE
RL Amperage	-	NOT SAFE
Total ESP	0.50"	0.34"

Motor Data		
	Design	Actual
Motor MFG	-	BROAD OCEAN
Frame	-	NL
Horsepower	0.75	3/4
Motor Rpm	1440	300-1750
Phase	1	1
Voltage (rated)	120	115/208-230/277
Amperage (rated)	-	8.8/5.4/4.8
Service Factor	-	NL

Completed By: Jacob Davidson on 05/18/2023

Notes: SPEED SETPOINT: 10 OF 10 ON POTENTIOMETER

### Diffuser Ret/Exh (GRD)

#### EF-1 / RESTROOMS

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	106	EX-1	12"	625	1	386	416	518	82.9
EGRD2	107	EX-1	10"	350	1	303	315	319	91.1
EGRD3	109	EX-3	6"	50	1	69	75	47	94.0
EGRD4	110	EX-3	6"	50	1	72	76	48	96.0
EGRD5	202	EX-1	12"	575	1	449	468	573	99.7
EGRD6	201	EX-1	12"	350	1	117	400	316	90.3
EGRD7	204	EX-2	6"	50	0.34	154	41	54	108.0

Completed By: Jacob Davidson on 05/18/2023

Asset	Area Served	Notes
EGRD1	106	DAMPER IS FULLY OPEN. UNABLE TO PUSH MORE AIR TO DIFFUSER WITHOUT PUTTING REST OF SYSTEM OUT OF BALANCE.

# National TAB

Project: ALBC ABUNDANT LIFE CROSSROADS (KANSAS CITY, MO)

## System/Unit: FAN - Exhaust

Asset: EF-2

AREA: UPSTAIRS EMR

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	CEILING	SP-A390
Serial Num	-	19946867

Test Data		
	Design	Actual
CFM	400	405

Motor Data		
	Design	Actual
Motor MFG	-	MCMILLAN ELECTRIC
Horsepower	100W	1/12
Motor Rpm	1200	1350
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	1.42

Completed By: Jacob Davidson on 03/08/2023

Notes: AMP: 1.40A  
VOLTAGE: 107V

# National TAB

Project: ALBC ABUNDANT LIFE CROSSROADS (KANSAS CITY, MO)

## System/Unit: FAN - Exhaust

Asset: EF-3

AREA: DOWNSTAIRS ELECTRICAL

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	CEILING	SP-A390
Serial Num	-	19946865

Test Data		
	Design	Actual
CFM	400	302

Motor Data		
	Design	Actual
Motor MFG	-	MCMILLAN
Horsepower	100W	1/12
Motor Rpm	1200	1350
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	1.42

Completed By: Jacob Davidson on 02/20/2023

Notes: AMPS: 0.97A  
VOLTS: 113V

FAN SPEED IS MAXIMIZED. ROTATION IS CORRECT. HOLES IN DISCHARGE PLENUM APPEAR TO BE TOO SMALL. HOLES WERE DRILLED OUT TO MAKE LARGER, BUT AIRFLOW IS STILL LOW.