

Report By:

National TAB
1329 E. KEMPER ROAD
SUITE 4210
CINCINNATI, OH 45246



Report: prelim

Function: Test, Adjust, & Balance

Date: 01/23/2024

PROJECT

TA Truck Center Richwood (Walton, KY)

145 Richwood Road

Walton, KY 41094

Client

Design Comfort Heating and Air LLC

8063 Production Dr.

Florence, KY 41042

National TAB

Project: TA Truck Center Richwood (Walton, KY)

Table Of Contents

Section	Page #
AHU/RTU	3
FAN - Exhaust	15
FAN - Supply	31
Kitchen Hood Type I	35

National TAB

Project: TA Truck Center Richwood (Walton, KY)

System/Unit: AHU/RTU



Asset: RTU-1

AREA:107

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	0423P32864
Model Num	NA	48FCEM14A3A6-0A0A0
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	17"x24"
Num PreFilter 1	-	4
PreFilter Size 1	-	20X20X2

Test Data		
	Design	Actual
SF CFM	5000	4881
RA CFM	4000	3856
OA CFM	1000	1025
RL Voltage	460	483.4/487.2/491.6
RL Amperage	5.6	5.08/5.43/4.98
OA Damper Position	-	20%

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.83"
Fan Suction SP	-	-1.31"
Fan Discharge SP	-	0.74"
Total ESP	1.00	1.57"
Fan Total SP	1.32	2.05"

Motor Data		
	Design	Actual
Motor MFG	-	NA
Frame	-	NA
Horsepower	-	NA
Motor Rpm	-	2064
Phase	3	3
Rated Voltage	460	460
Rated Amperage	5.6	5.6
Service Factor	-	NA

Completed By: Jordan Best on 01/17/2024

Notes:
 .Diffuser #2 removed from design by MC. Airflow distributed evenly across other diffusers.

Written By: Jordan Best on 01/17/2024

National TAB

Project: TA Truck Center Richwood (Walton, KY)

AHU/RTU



Diffuser Supply (GRD)

RTU-1/107

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-1	103	S-3	8	175	118	182	104.0
1-3	101A	S-2	8	285	397	263	92.3
1-4	101A	S-5	14X6	350	396	343	98.0
1-5	102	S-3	8	285	289	264	92.6
1-6	101A	S-5	14X6	350	329	328	93.7
1-7	102	S-3	8	285	113	261	91.6
1-8	CASHIER	S-2	8	285	219	272	95.4
1-9	104	S-3	8	175	175	162	92.6
1-10	101A	S-5	14X6	350	225	332	94.9
1-11	CASHIER	S-2	8	285	306	265	93.0
1-12	101A	S-5	14X6	350	398	362	103.4
1-13	101A	S-5	14X6	350	384	357	102.0
1-14	101A	S-5	14X6	350	384	372	106.3
1-15	101A	S-5	14X6	380	383	384	101.1
1-16	105	S-1	8	285	297	283	99.3
1-17	105	S-1	8	285	307	267	93.7
1-18	107	S-1	8	175	341	184	105.1
Total				5000	5061	4881	97.62%

Completed By: Jordan Best on 01/17/2024

National TAB

Project: TA Truck Center Richwood (Walton, KY)

System/Unit: AHU/RTU



Asset: RTU-2

AREA:101A

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	0523P33238
Model Num	NA	48TCEM12A2A6-0A0A0
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	17"x24"
Num PreFilter 1	-	4
PreFilter Size 1	-	20X20X2

Motor Data		
	Design	Actual
Phase	3	3
Rated Voltage	460	460
Rated Amperage	5.3	3

Test Data		
	Design	Actual
SF CFM	4000	4104
RA CFM	3200	3307
OA CFM	800	797
RL Voltage	460	488/489/491
RL Amperage	5.3	2.9/3.1/3.0
OA Damper Position	-	27%

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.86"
Fan Suction SP	-	-1.12"
Fan Discharge SP	-	0.66"
Total ESP	1.20	1.52"
Fan Total SP	1.0	1.78"

Completed By: Gabe Merk on 01/05/2024

Notes:

Initial traverse for total 3362/4000

final traverse for total 4104/4000

Written By: Gabe Merk on 01/05/2024

National TAB

Project: TA Truck Center Richwood (Walton, KY)

AHU/RTU



Diffuser Supply (GRD)

RTU-2/101A

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-1	101A	S-5	14X6	325	319	347	106.8
2-2	101A	S-5	14X6	325	304	329	101.2
2-3	101A	S-5	14X6	355	280	370	104.2
2-4	101A	S-5	14X6	325	297	346	106.5
2-5	101A	S-5	14X6	350	287	369	105.4
2-6	101A	S-5	14X6	325	289	341	104.9
2-7	101A	S-5	14X6	350	245	371	106.0
2-8	101A	S-5	14X6	325	239	341	104.9
2-9	101A	S-5	14X6	350	247	348	99.4
2-10	101A	S-5	14X6	325	231	330	101.5
2-11	101A	S-5	14X6	300	248	310	103.3
2-12	101A	S-5	14X6	300	250	302	100.7
Total				3955	3236	4104	103.77%

National TAB

Project: TA Truck Center Richwood (Walton, KY)

System/Unit: AHU/RTU



Asset: RTU-3

AREA:111

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	5122C06387
Model Num	NA	48FCEA06A2A6-0A0A0
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	14"x24"
Num PreFilter 1	-	2
PreFilter Size 1	-	16"X25"X2"

Motor Data		
	Design	Actual
Motor MFG	-	NA
Frame	-	NA
Horsepower	1.0	NA
Motor Rpm	-	NA
Phase	3	3
Rated Voltage	460	460
Rated Amperage	2.1	2.1
Service Factor	-	NA

Test Data		
	Design	Actual
SF CFM	2150	2165
RA CFM	1600	1747
OA CFM	400	418
RL Voltage	460	487.3/490.3/487.6
RL Amperage	2.1	1.99/1.82/1.90
OA Damper Position	-	15%

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.71"
Fan Suction SP	-	-1.1"
Fan Discharge SP	-	0.40"
Total ESP	0.90	1.1"
Fan Total SP	1.02	1.81"

Completed By: Jordan Best on 01/16/2024

Notes:
 RTU DESIGN IS 2000 CFM
 DIFFUSER TOTAL IS 2150 CFM
 FAN SET PT. 9.93 VDC

Written By: Jordan Best on 01/05/2024

National TAB

Project:TA Truck Center Richwood (Walton, KY)

AHU/RTU



Diffuser Supply (GRD)

RTU-3/111

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3-1	CORRIDOR	S-1	8	150	187	162	108.0
3-2	117	S-1	8	150	215	143	95.3
3-3	CORRIDOR	S-1	6	100	113	92	92.0
3-4	128	S-3	6	100	87	98	98.0
3-5	120	S-3	6	100	92	103	103.0
3-6	119	S-3	8	150	137	143	95.3
3-7	CORRIDOR	S-1	6	100	114	109	109.0
3-8	122	S-4	6	50	132	54	108.0
3-9	123	S-4	6	50	112	47	94.0
3-10	125	S-1	6	100	156	109	109.0
3-11	127	S-1	6	100	93	104	104.0
3-12	113	S-4	6	125	96	118	94.4
3-13	109	S-4	6	125	116	132	105.6
3-14	106	S-1	8	250	224	238	95.2
3-15	114	S-4	6	125	79	137	109.6
3-16	110	S-4	6	125	101	113	90.4
3-17	115	S-4	6	125	91	129	103.2
3-18	111	S-4	6	125	93	134	107.2
Total				2150	2238	2165	100.7%

Completed By: Jordan Best on 01/16/2024

National TAB

Project: TA Truck Center Richwood (Walton, KY)

System/Unit: AHU/RTU



Asset: RTU-4

AREA:133B

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	0123C05125
Model Num	NA	48FCEA06A2A6-0A0A0
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	14"x24"
Num PreFilter 1	-	2
PreFilter Size 1	-	16X25X2

Motor Data		
	Design	Actual
Phase	3	3
Rated Voltage	460	460
Rated Amperage	2.1	2.1

Test Data		
	Design	Actual
SF CFM	2000	1999
RA CFM	1600	1591
OA CFM	400	408
RL Voltage	460	490/493/490
RL Amperage	2.1	1.6/1.6/1.6
OA Damper Position	-	20%

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.53"
Fan Suction SP	-	-0.85"
Fan Discharge SP	-	0.74"
Total ESP	0.90	1.27"
Fan Total SP	1.02	1.59"

Completed By: Gabe Merk on 01/17/2024

Notes:

8.9dcv

Traversed total 957 for open space.

Written By: Gabe Merk on 01/17/2024

National TAB

Project: TA Truck Center Richwood (Walton, KY)

AHU/RTU



Diffuser Supply (GRD)

RTU-4/133B

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
4-1	132	S-1	8	200	285	220	110.0
4-2	132	S-1	8	200	240	215	107.5
4-3	132	S-1	8	200	224	213	106.5
4-4	132	S-1	8	200	242	219	109.5
4-5	133B	S-5	10X6	240	245	223	92.9
4-6	133B	S-5	10X6	240	245	229	95.4
4-7	133B	S-5	10X6	240	220	236	98.3
4-8	133B	S-5	10X6	240	215	225	93.8
4-9	133B	S-5	10X6	240	1138	219	91.3
Total				2000	3054	1999	99.95%

National TAB

Project: TA Truck Center Richwood (Walton, KY)

System/Unit: AHU/RTU



Asset: RTU-1

AREA:102

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	0123C05123
Model Num	NA	48FCEA06A2A6-0A0A0
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	14"x24"
Num PreFilter 1	-	2
PreFilter Size 1	-	16X25X2

Motor Data		
	Design	Actual
Motor MFG	-	NA
Frame	-	NA
Horsepower	1.0	NA
Motor Rpm	-	NA
Phase	1	3
Rated Voltage	208	460
Rated Amperage	9.2	2.1
Service Factor	-	NA

Test Data		
	Design	Actual
SF CFM	2000	2028
RA CFM	1300	
OA CFM	700	
RL Voltage	208	488.3/487.2/490.6
RL Amperage	2.1	1.72/1.83/1.85
OA Damper Position	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.50	
Fan Total SP	0.62	

Notes:

- .OA not set due to economizer setup not being complete
- .Static pressures to be read when OA is set

Written By: Jordan Best on 01/09/2024

National TAB

Project:TA Truck Center Richwood (Walton, KY)

AHU/RTU



Diffuser Supply (GRD)

RTU-1/102

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-1	104	S-1	10	300	240	284	94.7
1-2	108B	S-1	6	50	69	53	106.0
1-3	108A	S-1	6	100	72	92	92.0
1-4	108	S-1	8	250	130	139	55.6
1-5	103A	S-1	6	100	98	108	108.0
1-6	103	S-1	8	200	201	193	96.5
1-7	103	S-1	10	300	399	447	149.0
1-8	103	S-1	10	300	376	315	105.0
1-9	103	S-1	10	300	386	296	98.7
1-10	102	S-1	6	100	102	101	101.0
Total				2000	2073	2028	101.4%

Completed By: Jordan Best on 01/09/2024

National TAB

Project: TA Truck Center Richwood (Walton, KY)

System/Unit: AHU/RTU



Asset: RTU-1

AREA:HOOD 2

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	3922P39696
Model Num	NA	48TCEM08A2A6-0A0A0
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	17.5"x24"
Num PreFilter 1	-	4
PreFilter Size 1	-	16X20X2

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	2.0	NA
Motor Rpm	-	1725
Phase	3	3
Rated Voltage	460	460
Rated Amperage	4.2	4.2
Service Factor	-	1.15

Drive Data		
	Design	Actual
Motor Sheave Size	-	5"
Motor Bore Size	-	0.875
Motor Sheave SetPt	-	5 TURNS OUT
Fan Sheave Size	-	AFD84
Fan Sheave Bore	-	1"
Belt CL Distance	-	18"
Num of Belts	-	1
Belt Size	-	AX52

Test Data		
	Design	Actual
SF CFM	3000	3024
RA CFM	2455	2459
OA CFM	545	565
RL Voltage	460	490.2/490.7/489.7
RL Amperage	4.2	3.22/3.01/2.52
OA Damper Position	-	7%

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.44"
Fan Suction SP	-	-0.92"
Fan Discharge SP	-	0.36"
Total ESP	1.00	0.8"
Fan Total SP	1.11	1.28"

Completed By: Jordan Best on 01/05/2024

National TAB

Project:TA Truck Center Richwood (Walton, KY)

AHU/RTU



Diffuser Supply (GRD)

RTU-1/HOOD 2

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-1		S-6	10	300	306	325	108.3
1-2		S-6	10	300	301	303	101.0
1-3		S-2	10	330	297	299	90.6
1-4		S-2	10	330	333	327	99.1
1-5		S-2	10	330	330	338	102.4
1-6	HOOD 1	DUCT	8	129	108	123	95.3
1-7	HOOD 1	DUCT	8	129	116	127	98.4
1-8	HOOD 1	DUCT	8	129	149	125	96.9
1-9	HOOD 2	DUCT	8	129	171	140	108.5
1-10	HOOD 2	DUCT	8	129	128	138	107.0
1-11	HOOD 2	DUCT	8	129	143	141	109.3
1-12		S-2	10	320	288	303	94.7
1-13		S-2	10	320	320	335	104.7
Total				3004	2990	3024	100.67%

National TAB

Project: TA Truck Center Richwood (Walton, KY)

System/Unit: FAN - Exhaust



Asset: EF-1

AREA:108

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	G-180-10-VG
Serial Num	-	21783372
Type	CRE DNBLAST	DOWNBLAST

Test Data		
	Design	Actual
CFM	2985	2444
RL Voltage	-	122.1
RL Amperage	-	7.3
Total ESP	0.5	0.31"

Motor Data		
	Design	Actual
Motor MFG	-	VARI-GREEN
Frame	-	NOT LISTED
Horsepower	1.0	1
Motor Rpm	1000	1750
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	11.5
Service Factor	-	NOT LISTED

Completed By: Jordan Best on 01/17/2024

Notes:

*Unit below design CFM with fan at full speed.

Written By: Jordan Best on 01/04/2024

National TAB

Project:TA Truck Center Richwood (Walton, KY)

FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF-1/108

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
E1-1	E-1	8	150	1	239	139	139	92.7
E1-2	E-1	8	200	1	287	192	192	96.0
E1-3	E-1	8	200	1	186	168	168	84.0
E1-4	E-1	8	200	1	150	132	132	66.0
E1-5	E-1	8	135	1	0	102	102	75.6
E1-6	E-1	8	135	1	101	92	92	68.1
E1-7	E-1	8	135	1	96	102	102	75.6
E1-8	E-1	8	135	1	107	94	94	69.6
E1-9	E-1	8	125	1	84	92	92	73.6
E1-10	E-1	8	135	1	125	118	118	87.4
E1-11	E-1	8	135	1	113	98	98	72.6
E1-12	E-2	8	200	1	200	182	182	91.0
E1-13	E-2	8	200	1	170	158	158	79.0
E1-14	E-2	8	200	1	151	162	162	81.0
E1-15	E-2	8	200	1	199	187	187	93.5
E1-16	E-2	8	200	1	181	158	158	79.0
E1-17	E-2	8	200	1	55	163	163	81.5
E1-18	E-1	6	100	1	0	99	99	99.0
Total			2985		2444	2438	2438	81.68%

Completed By: Jordan Best on 01/08/2024

National TAB

Project: TA Truck Center Richwood (Walton, KY)

System/Unit: FAN - Exhaust



Asset: EF-2

AREA:RESTROOMS

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	G-099-4-VG
Serial Num	-	21733879
Type	CRE DNBLAST	DOWNBLAST

Test Data		
	Design	Actual
CFM	1000	997
RL Voltage	-	122.1
RL Amperage	-	0.92/1.0
Total ESP	0.25	.11"

Motor Data		
	Design	Actual
Motor MFG	-	VARI-GREEN
Frame	-	NA
Horsepower	0.25	0.25
Motor Rpm	1725	1750
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	2.85
Service Factor	-	1.15

Completed By: Jordan Best on 01/04/2024

Notes:

*set point 6/10 on dial

Written By: Jordan Best on 01/04/2024

National TAB

Project: TA Truck Center Richwood (Walton, KY)

System/Unit: FAN - Exhaust



Asset: EF-1

AREA:MECHANICAL

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	G-090-VG
Serial Num	-	21728262
Type	CRE DNBLAST	DOWNBLAST

Test Data		
	Design	Actual
CFM	500	527
RL Voltage	-	123.3
RL Amperage	-	1.47
Total ESP	0.25	0.28"

Motor Data		
	Design	Actual
Motor MFG	-	VARI-GREEN
Frame	-	NA
Horsepower	0.10	0.10
Motor Rpm	1725	1750
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	1.38
Service Factor	-	NOT LISTED

Completed By: Jordan Best on 01/17/2024

National TAB

Project: TA Truck Center Richwood (Walton, KY)

System/Unit: FAN - Exhaust



Asset: EF-2

AREA:MECH / ELEC

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	SBE-1H30-5
Serial Num	-	
Type	-	SIDEWALL

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	0.50	
Motor Rpm	1725	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	
Service Factor	-	

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

Test Data		
	Design	Actual
CFM	5600	
Fan RPM	701	
RL Voltage	-	115
RL Amperage	-	9.8
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.25	
Brake Horse Power	-	

National TAB

Project: TA Truck Center Richwood (Walton, KY)

System/Unit: FAN - Exhaust



Asset: EF-3

AREA:TIRE STORAGE

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	SBE-1H24-3
Serial Num	-	Inaccessible
Type	-	SIDEWALL

Motor Data		
	Design	Actual
Motor MFG	-	Inaccessible
Frame	-	Inaccessible
Horsepower	0.33	Inaccessible
Motor Rpm	1725	Inaccessible
Phase	1	Inaccessible
Voltage (rated)	115	Inaccessible
Amperage (rated)	-	Inaccessible
Service Factor	-	Inaccessible

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

Test Data		
	Design	Actual
CFM	3000	2700
Fan RPM	861	Inaccessible
RL Voltage	-	Inaccessible
RL Amperage	-	Inaccessible
Suction ESP	-	N/a
Discharge ESP	-	ATM
Total ESP	0.25	N/a
Brake Horse Power	-	N/a

Completed By: Gabe Merk on 01/17/2024

Notes:
Unit/drive/performance data inaccessible due to location above stored items.

Written By: Gabe Merk on 01/17/2024

National TAB

Project: TA Truck Center Richwood (Walton, KY)

System/Unit: FAN - Exhaust



Asset: EF-4

AREA:110

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	GB-260-15
Serial Num	-	21728264
Type	-	CRE DNBLAST

Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	56H
Horsepower	1.5	1.5
Motor Rpm	1725	1445
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	4.64
Service Factor	-	1

Drive Data		
	Design	Actual
Motor Sheave Size	-	VP84S
Motor Bore Size	-	0.625"
Motor Sheave SetPt	-	2 TUNRS OUT
Fan Sheave Size	-	PKX
Fan Sheave Bore	-	1"
Belt CL Distance	-	10.75"
Num of Belts	-	1
Belt Size	-	AX-38

Test Data		
	Design	Actual
CFM	7500	7266
Fan RPM	632	NA
RL Voltage	-	209.7/208.2/209.1
RL Amperage	-	4.21/4.08/4.12
Suction ESP	-	-0.43"
Discharge ESP	-	ATM
Total ESP	0.25	0.43"

Completed By: Jordan Best on 01/09/2024

Notes:
Control board is not functional. Awaiting arrival of replacement.

Written By: Jordan Best on 01/08/2024

National TAB

Project: TA Truck Center Richwood (Walton, KY)

FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF-4/110

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
E4-1	E-2	36X20	1875	5	1483	1821	1821	97.1
E4-2	E-2	36X20	1875	5	1449	1794	1794	95.7
EF-4-EGRD3	NA	12X24	1875	2	1498	1803	1803	96.2
EF-4-EGRD4	NA	12X24	1875	2	1503	1848	1848	98.6
Total			7500		5933	7266	7266	96.88%

Completed By: Jordan Best on 01/09/2024

National TAB

Project: TA Truck Center Richwood (Walton, KY)

System/Unit: FAN - Exhaust



Asset: EF-5

AREA:110

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	GB-260-15
Serial Num	-	21728265
Type	-	CRE DNBLAST

Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	56H
Horsepower	1.5	1.5
Motor Rpm	1725	1445
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	4.64
Service Factor	-	1.00

Drive Data		
	Design	Actual
Motor Sheave Size	-	VP34S
Motor Bore Size	-	0.625"
Motor Sheave SetPt	-	1.5 TURN OUT
Fan Sheave Size	-	AK84X1
Fan Sheave Bore	-	1"
Belt CL Distance	-	10.75"
Num of Belts	-	1
Belt Size	-	AX38

Test Data		
	Design	Actual
CFM	7500	7328
Fan RPM	632	NA
RL Voltage	-	208.9/208/208.8
RL Amperage	-	4.28/4.16/4.22
Suction ESP	-	-0.46"
Discharge ESP	-	ATM
Total ESP	0.25	0.46"

Completed By: Jordan Best on 01/09/2024

National TAB

Project: TA Truck Center Richwood (Walton, KY)

FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF-5/110

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
E5-1	E-2	36X20	1875	5	1162	1839	1839	98.1
E5-2	E-2	36X20	1875	5	1598	1892	1892	100.9
EF-5-EGRD3	NA	12X24	1875	2	1792	1803	1803	96.2
EF-5-EGRD4	NA	12X24	1875	2	1749	1794	1794	95.7
Total			7500		6301	7328	7328	97.71%

Completed By: Jordan Best on 01/09/2024

National TAB

Project: TA Truck Center Richwood (Walton, KY)

System/Unit: FAN - Exhaust



Asset: EF-6

AREA:SHOP STORAGE

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	GB-260-15
Serial Num	-	Inaccessible
Type	-	Sidewall

Motor Data		
	Design	Actual
Motor MFG	-	Inaccessible
Frame	-	Inaccessible
Horsepower	1.5	Inaccessible
Motor Rpm	1725	Inaccessible
Phase	3	Inaccessible
Voltage (rated)	208	Inaccessible
Amperage (rated)	-	Inaccessible
Service Factor	-	Inaccessible

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

Test Data		
	Design	Actual
CFM	3000	3008
Fan RPM	632	Inaccessible
RL Voltage	-	Inaccessible
RL Amperage	-	Inaccessible
Suction ESP	-	N/a
Discharge ESP	-	ATM
Total ESP	0.25	N/a
Brake Horse Power	-	N/a

Completed By: Gabe Merk on 01/17/2024

Notes:
Unit total read from barometric relief louvers.

Written By: Gabe Merk on 01/17/2024

National TAB

Project: TA Truck Center Richwood (Walton, KY)

System/Unit: FAN - Exhaust



Asset: EF-7

AREA:SHOP BAY PITS

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	G-095-VG
Serial Num	-	21728263
Type	CRE DNBLAST	CRE DOWNBLAST

Test Data		
	Design	Actual
CFM	750	689
RL Voltage	-	123
RL Amperage	-	1.6
Total ESP	0.50	0.36"

Motor Data		
	Design	Actual
Motor MFG	-	VARI GREEN
Frame	-	NA
Horsepower	0.167	0.166
Motor Rpm	1725	1750
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	2.2
Service Factor	-	NA

Completed By: Gabe Merk on 01/17/2024

National TAB

Project: TA Truck Center Richwood (Walton, KY)

System/Unit: FAN - Exhaust



Asset: EF-8

AREA:EMPL RESTROOM

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	SP-A190
Serial Num	-	22015982
Type	CEILING	CEILING

Test Data		
	Design	Actual
CFM	150	107
RL Voltage	-	115
RL Amperage	-	0.45
Total ESP	0.318	NA

Motor Data		
	Design	Actual
Motor MFG	-	MCMILLAN ELECTRIC
Frame	-	NA
Horsepower	-	0.02
Motor Rpm	-	1400
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	0.45
Service Factor	-	NA

Completed By: Jordan Best on 01/08/2024

National TAB

Project: TA Truck Center Richwood (Walton, KY)

System/Unit: FAN - Exhaust



Asset: EF-9

AREA:RESTROOM

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	SP-A190
Serial Num	-	22015964
Type	CEILING	CEILING

Test Data		
	Design	Actual
CFM	150	115
RL Voltage	-	115
RL Amperage	-	0.45
Total ESP	0.318	NA

Motor Data		
	Design	Actual
Motor MFG	-	MCMILLAN ELECTRIC
Frame	-	NA
Horsepower	-	0.02
Motor Rpm	-	1400
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	0.45
Service Factor	-	NA

Completed By: Jordan Best on 01/08/2024

National TAB

Project: TA Truck Center Richwood (Walton, KY)

System/Unit: FAN - Exhaust



Asset: EF-1

AREA:HOOD 1

Unit Data		
	Design	Actual
MFG	NA	STRATOVENT
Model Num	NA	SV-DU180HFA
Serial Num	-	5764824
Type	CRE UPBLAST	UPBLAST

Test Data		
	Design	Actual
CFM	2550	2545
RL Voltage	-	128
RL Amperage	-	4.3
Total ESP	1.00	0.59"

Motor Data		
	Design	Actual
Motor MFG	-	TECO WESTINGHOUSE
Frame	-	182T
Horsepower	1.50	1.5
Motor Rpm	1010	1170
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	6.01
Service Factor	-	1.15

Completed By: Jordan Best on 01/17/2024

Notes:

- .Volts and amps read from VFD
- .Fan Speed set pt. 52.7

Written By: Jordan Best on 01/16/2024

National TAB

Project: TA Truck Center Richwood (Walton, KY)

System/Unit: FAN - Exhaust



Asset: EF-2

AREA:HOOD 2

Unit Data		
	Design	Actual
MFG	NA	STRATOVENT
Model Num	NA	SV-DU180HFA
Serial Num	-	5764824
Type	CRE UPBLAST	UPBLAST

Test Data		
	Design	Actual
CFM	2550	2583
RL Voltage	-	132
RL Amperage	-	4.7
Total ESP	1.00	0.30"

Motor Data		
	Design	Actual
Motor MFG	-	TECO WESTINGHOUSE
Frame	-	182T
Horsepower	1.50	1.5
Motor Rpm	1090	1170
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	6.01
Service Factor	-	1.15

Completed By: Jordan Best on 01/17/2024

Notes:

- .Volts and amps read from VFD
- .Fan speed set pt. 52.9

Written By: Jordan Best on 01/16/2024

National TAB

Project: TA Truck Center Richwood (Walton, KY)

System/Unit: FAN - Supply



Asset: MAU-1

AREA:110

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	DGX-P127-H32-MF3
Serial Num	-	21739216
Type	GAS FIRED	GAS FIRED
Configuration	HORIZONTAL	VERTICAL
Num Filters Size 1	-	10
Filter Size 1	-	20"x25"x2"

Test Data		
	Design	Actual
CFM	15000	15271
SF RPM	1298	NA
RL Voltage	-	194.4
RL Amperage	-	33.5
Suction ESP	-	-1.81"
Discharge ESP	-	0.58"
Total ESP	0.5	2.39

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	254T
Horsepower	10.0	15
Motor Rpm	1180	1770
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	39
Service Factor	-	1.15

Completed By: Jordan Best on 01/09/2024

National TAB

Project: TA Truck Center Richwood (Walton, KY)

FAN - Supply



Diffuser Supply (GRD)

MAU-1/110

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
M1-1	110	S-2	48X30	7500	5714	7738	103.2
M1-2	110	S-2	48X30	7500	5395	7491	99.9
Total				15000	11109	15229	101.53%

Completed By: Jordan Best on 01/09/2024

National TAB

Project: TA Truck Center Richwood (Walton, KY)

System/Unit: FAN - Supply



Asset: MAU-1

AREA:HOOD 1

Unit Data		
	Design	Actual
MFG	NA	STRATOVENT
Model Num	NA	SV-A2-D.500-20D-MPU
Serial Num	-	5764824
Type	GAS FIRED	GAS FIRED MUA
Configuration	HORIZONTAL	HORIZONTAL
Num Filters Size 1	-	3
Filter Size 1	-	20"X25"X2

Test Data		
	Design	Actual
CFM	4080	
SF RPM	1709	
RL Voltage	-	208
RL Amperage	-	9.5
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.60	
Brake Horse Power	-	

Motor Data		
	Design	Actual
Motor MFG	-	TECO WESTINGHOUSE
Frame	-	182T
Horsepower	3.00	3
Motor Rpm	-	1755
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	8.6
Service Factor	-	1.15

National TAB

Project: TA Truck Center Richwood (Walton, KY)

FAN - Supply



Diffuser Supply (GRD)

MAU-1/HOOD 1

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
M1-1	HOOD 2	DUCT	10X28	600			-
M1-2	HOOD 2	DUCT	10X28	600			-
M1-3	HOOD 1	DUCT	10X28	600			-
M1-4	HOOD 1	DUCT	10X28	600			-
Total				2400	0	0	0%

National TAB

Project: TA Truck Center Richwood (Walton, KY)

System/Unit: Kitchen Hood Type I



Asset: HOOD-1

AREA:LEFT

Unit Data		
	Design	Actual
MFG	NA	STRATOVENT
Model Num	NA	5424 SV-ND-2-PSP-F
Job / Serial Num	-	5764824
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	102"	102"
Hood Width	54"	54"
Supply Plenum Type	-	PSP
Supply Plenum Width	20"	20"
Supply Plenum Length	102"	102"

Test Data Exhaust		
	Design	Actual
Filter Type	SS BAFFLE	SS BAFFLE
Filter Size 1	20X16	20"x16"
Filter Qty 1	6	6
Filter AK factor size 1	2.08	2.08
Filter Total AK Area	12.48	12.48
Filter1 FPM	-	164
Filter2 FPM	-	173
Filter3 FPM	-	210
Filter4 FPM	-	220
Filter5 FPM	-	228
Filter6 FPM	-	229
Filter Ave FPM(corr)	-	204
CFM	2550	2545

Cooking Equipment		
	Design	Actual
Item 1	-	FRYER
Item 2	-	FRYER
Item 3	-	FRYER

Test Data Supply		
	Design	Actual
Total AK Area	14.17	14.17
Kv factor (Vel)	0.91	0.91
Num of Readings	-	10
Reading1 FPM	-	
Reading2 FPM	-	
Reading3 FPM	-	
Reading4 FPM	-	
Reading5 FPM	-	
Reading6 FPM	-	
Reading7 FPM	-	
Reading8 FPM	-	
Reading9 FPM	-	
Reading10 FPM	-	
Ave FPM(corr)	-	
CFM	2040	

National TAB

Project: TA Truck Center Richwood (Walton, KY)

System/Unit: Kitchen Hood Type I



Asset: HOOD-2

AREA:RIGHT

Unit Data		
	Design	Actual
MFG	NA	STRATOVENT
Model Num	NA	5424 SV-ND-2-PSP-F
Job / Serial Num	-	5764824
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	102"	102"
Hood Width	54"	54"
Supply Plenum Type	-	PSP
Supply Plenum Width	20"	20"
Supply Plenum Length	102"	102"

Test Data Supply		
	Design	Actual
Total AK Area	14.17	14.17
Kv factor (Vel)	0.91	0.91
Num of Readings	-	10
Reading1 FPM	-	
Reading2 FPM	-	
Reading3 FPM	-	
Reading4 FPM	-	
Reading5 FPM	-	
Reading6 FPM	-	
Reading7 FPM	-	
Reading8 FPM	-	
Reading9 FPM	-	
Reading10 FPM	-	
Reading11 FPM	-	
Reading12 FPM	-	
Reading13 FPM	-	
Reading14 FPM	-	
Ave FPM(corr)	-	
CFM	2040	

Test Data Exhaust		
	Design	Actual
Filter Type	SS BAFFLE	SS BAFFLE
Filter Size 1	20"X16"	20"X16"
Filter Qty 1	6	6
Filter AK factor size 1	2.08	2.08
Filter Total AK Area	12.48	12.48
Filter1 FPM	-	175
Filter2 FPM	-	200
Filter3 FPM	-	230
Filter4 FPM	-	222
Filter5 FPM	-	198
Filter6 FPM	-	220
Filter Ave FPM(corr)	-	207
CFM	2550	2583

Cooking Equipment		
	Design	Actual
Item 1	-	FRYER
Item 2	-	FRYER
Item 3	-	FRYER
Item 4	-	FRYER
Item 5	-	