Report By:

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

Report: PRELIM

Function: Test, Adjust, & Balance

Date: 07/11/2024

PROJECT

The Learning Experience (Fitchburg, WI)

2605 Research Park Rd

Fitchburg, WI 53711

Client

Air Temperature Services

5301 VOGES RD

MADISON, WI 53718

National TAB

Project: The Learning Experience (Fitchburg, WI)

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NATIONAL TAB INTELLIGENCE

1329 E Kemper Rd
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Project Summary

RTU's (Roof Top Units) w/ Diffusers
Each of the RTU's were measured at their terminal devices or via traverse to establish a total flow for that unit. Each RTU was adjusted to within tolerance of the engineer's design flow. Each outlet was then adjusted to within tolerance of the design flow. Outside air was measured by reading the intake air opening with a velocity grid and multiplying by the free area. The outside air damper was adjusted until the airflow was within the design requirements. Any equipment that fell outside of that tolerance is noted throughout the report.

RTUs 2 and 5:
Plans indicate RTUs 2 and 5 were to be 5-ton units scheduled for 1,800 cfm or 360cfm/ton. Both RTU-2 and RTU-5 as installed are 6-ton units with an approved submittal supply airflow of 2,450 cfm. Proportionally increased airflow of these RTUs to fall within the design of approved submittal airflow and above 350cfm/ton for performance and efficiency. RTU-2 total airflow is set at 2,263 cfm or 377 cfm/ton. RTU-5 total airflow is set at 2240 cfm or 373 cfm/ton.

General Exhaust Fans w/ Grilles
The general exhaust fans were measured by traversing the total exhaust for each fan. Fan speed was then adjusted so that the airflow was within tolerance of design. Each air terminal device was measured with a flow hood or with a velocity grid using a generated k-factor. Each terminal device was balanced to within tolerance of the design volume using the installed volume dampers. EF-2 and EF-3 exhaust fans are swapped locations on the roof. EF-2 is scheduled to be model 703CB with design airflow of 280 cfm and is installed in EF-3s intended location. The fan is achieving design airflow for this system at 307/300 cfm. EF-3 is scheduled to be a model 802CB with a design airflow of 300 cfm and is installed in EF-2s intended location. The fan is achieving design airflow at 272/280 cfm. This is not anticipated to cause any issues.

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Project: The Learning Experience (Fitchburg, WI)

System/Unit: AHU/RTU

Asset: RTU-1 AREA:107

Unit Data		
	Design	**Actual**
MFG	NA	LENNOX
Serial Num	-	5624A01913
Model Num	NA	KGB060S4B
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	29X14.25
Num PreFilter 1	-	4
PreFilter Size 1	-	20X20X2

Test Data		
	Design	**Actual**
SF CFM	1800	1829
SF RPM	1118	1045
RA CFM	1500	1512
OA CFM	300	317
RL Voltage	208	203/203/204
RL Amperage	2.8	1.9/1.8/1.9
OA Damper Position	-	4.4V (27%)
Brake Horse Power	-	0.654

Motor Data		
	Design	**Actual**
Motor MFG	-	INTERLINK
Frame	-	56HZ
Horsepower	1.00	1.0
Motor Rpm	-	1760
Phase	3	3
Rated Voltage	208	208-230
Rated Amperage	-	2.8
Service Factor	-	1.15

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.29"
Fan Suction SP	-	-0.43"
Fan Discharge SP	-	0.45"
Total ESP	0.70	0.74"
Fan Total SP	0.87	0.88"

Drive Data	
	Actual
Motor Sheave Size	3.25"
Motor Bore Size	7/8"
Motor Sheave SetPt	2 TURNS OPEN
Fan Sheave Size	4.25"
Fan Sheave Bore	1"
Belt CL Distance	15.75"
Num of Belts	1
Belt Size	A40

Completed By: Michael McDonnell on 07/10/2024

Notes:
[1] UNIT NOT WIRED INTO FIRE SYSTEM, NOT FULLY OPERATIONAL AT TIME OF TAB. BYPASSED SYSTEM WITH JUMPER TO TAB UNIT.

Written By: Michael McDonnell on 07/12/2024

Diffuser Supply (GRD)

RTU-1/107

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
1-1	110	A2	8	230	210	228	99.1
1-2	110	A3	10	330	402	334	101.2
1-3	108	A3	10	300	390	318	106.0
1-4	108	A3	10	250	368	259	103.6
1-5	107	A2	8	230	182	235	102.2
1-6	107	A3	10	230	207	221	96.1
1-7	107	A3	10	230	240	234	101.7
Total				1800	1999	1829	101.61%

Diffuser Ret/Exh (GRD)

RTU-1/107

Asset								
Asset Name	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
R1-1	B5	14"	460	1.0	692	467	467	101.5
R1-2	B5	14"	450	1.0	461	471	471	104.7
R1-3	B5	14"	590	1.0	394	574	574	97.3
Total			1500		1547	1512	1512	100.8%

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Project: The Learning Experience (Fitchburg, WI)

System/Unit: AHU/RTU

Asset: RTU-2 AREA:112

Unit Data		
	Design	**Actual**
MFG	NA	LENNOX
Serial Num	-	5623M01250
Model Num	NA	KGB074S4T
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	29X14.25
Num PreFilter 1	-	4
PreFilter Size 1	-	20X20X2

Test Data		
	Design	**Actual**
SF CFM	1800	2263
SF RPM	1299	1256
RA CFM	1500	1972
OA CFM	300	291
RL Voltage	208	203/205/205
RL Amperage	6.0	3.8/3.9/3.9
OA Damper Position	-	2.3V (5%)
Brake Horse Power	-	1.28

Motor Data		
	Design	**Actual**
Motor MFG	-	U.S. MOTORS
Frame	-	56HZ
Horsepower	2.00	2.0
Motor Rpm	-	1740
Phase	3	3
Rated Voltage	208	208-230
Rated Amperage	-	6.0
Service Factor	-	1.15

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.30"
Fan Suction SP	-	-0.60"
Fan Discharge SP	-	0.57"
Total ESP	0.70	0.87"
Fan Total SP	0.96	1.17"

Drive Data	
	Actual
Motor Sheave Size	1VL40
Motor Bore Size	7/8"
Motor Sheave SetPt	1.5 TURNS OPEN
Fan Sheave Size	MA48
Fan Sheave Bore	1"
Belt CL Distance	15.75"
Num of Belts	1
Belt Size	A42

Completed By: Michael McDonnell on 07/10/2024

Notes:
[1] PLANS INDICATE A 5-TON UNIT SCHEDULED FOR 1800 CFM. 6-TON UNIT INSTALLED AND APPROVED. PROPORTIONALLY INCREASED AIRFLOW TO WITHIN APPROVED SUBMITTAL DESIGN (2450 CFM) TO BRING UNIT OVER 350CFM/TON FOR PERFORMANCE AND EFFICIENCY. DESIGNED PRESSURIZATION OF INDIVIDUAL ROOMS MAINTAINED.

Written By: Michael McDonnell on 07/12/2024

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Project:The Learning Experience (Fitchburg, WI)

AHU/RTU

Diffuser Supply (GRD)

RTU-2/112

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
2-1		A2	8	150	246	193	128.7
2-2	106	A2	8	210	167	251	119.5
2-3	112	A2	8	210	251	254	121.0
2-4	112	A2	8	210	253	259	123.3
2-5	114	A2	8	100	129	124	124.0
2-6	114	A2	8	190	261	236	124.2
2-7	114	A3	10	100	120	131	131.0
2-8	114	A3	10	190	204	250	131.6
2-9	114	A3	10	100	199	126	126.0
2-10	114	A3	10	190	129	249	131.1
2-11	137	A2	8	150	224	190	126.7
Total				1800	2183	2263	125.72%

Diffuser Ret/Exh (GRD)

RTU-2/112

Asset								
Asset Name	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
R2-1	B2	8"	140	1.0	394	200	189	135.0
R2-2	B4	12"	400	1.0	374	552	522	130.5
R2-3	B4	12"	400	1.0	383	561	531	132.8
R2-4	B5	14"	560	1.0	774	772	730	130.4
Total			1500		1925	2085	1972	131.47%

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Project: The Learning Experience (Fitchburg, WI)

System/Unit: AHU/RTU

Asset: RTU-3 AREA:129

Unit Data		
	Design	**Actual**
MFG	NA	LENNOX
Serial Num	-	5624B06464
Model Num	NA	KGC092S4M
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	23X14
Num PreFilter 1	-	4
PreFilter Size 1	-	20X25X2

Motor Data		
	Design	**Actual**
Motor MFG	-	U.S. MOTORS
Frame	-	56HZ
Horsepower	2.00	2.0
Motor Rpm	-	1755
Phase	3	3
Rated Voltage	208	200-230
Rated Amperage	7.5	6.0
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	3"
Motor Bore Size	7/8"
Motor Sheave SetPt	1.5 TURNS OPEN
Fan Sheave Size	6"
Fan Sheave Bore	1"
Belt CL Distance	21.5"
Num of Belts	1
Belt Size	AX54

Test Data		
	Design	**Actual**
SF CFM	3050	3127
SF RPM	841	853
RA CFM	2600	2658
OA CFM	450	469
RL Voltage	208	204/204/205
RL Amperage	6.0	4.1/4.3/4.1
OA Damper Position	-	HIGH: 3.9V (21%) LOW: 4.3V (28%)
Brake Horse Power	-	1.39

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.38"
Fan Suction SP	-	-0.52"
Fan Discharge SP	-	0.67"
Total ESP	0.70	1.05"
Fan Total SP	1.10	1.19"

Completed By: Michael McDonnell on 07/11/2024

Diffuser Supply (GRD)

RTU-3/129

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3-1	127	A2	8	150	174	161	107.3
3-2	127	A3	10	260	319	283	108.8
3-3	124	A3	10	260	310	267	102.7
3-4	124	A2	10	200	188	194	97.0
3-5	124	A3	10	260	174	273	105.0
3-6	124	A3	10	260	268	259	99.6
3-7	127	A3	10	260	313	284	109.2
3-8	127	A3	8	260	292	276	106.2
3-9	123	A1	6	40	62	41	102.5
3-10	123	A2	10	230	141	228	99.1
3-11	127	A1	6	90	93	87	96.7
3-12	129	A1	6	90	66	90	100.0
3-13	129	A2	8	230	150	229	99.6
3-14	129	A2	8	230	150	225	97.8
3-15	129	A2	8	230	163	230	100.0
Total				3050	2863	3127	102.52%

Diffuser Ret/Exh (GRD)

RTU-3/129

Asset								
Asset Name	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
R3-1	B5	14"	460	1.0	375	482	482	104.8
R3-2	B5	14"	460	1.0	414	470	470	102.2
R3-3	B4	14"	410	1.0	489	423	423	103.2
R3-4	B4	14"	410	1.0	470	421	421	102.7
R3-5	B4	14"	430	1.0	449	428	428	99.5
R3-6	B4	14"	430	1.0	499	434	434	100.9
Total			2600		2696	2658	2658	102.23%

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Project: The Learning Experience (Fitchburg, WI)

System/Unit: AHU/RTU

Asset: RTU-4 AREA:132

Unit Data		
	Design	**Actual**
MFG	NA	LENNOX
Serial Num	-	5623M01252
Model Num	NA	KGB074S4T
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	29X14.25
Num PreFilter 1	-	4
PreFilter Size 1	-	20X20X2

Test Data		
	Design	**Actual**
SF CFM	2450	2512
SF RPM	1299	1323
RA CFM	2150	2192
OA CFM	300	320
RL Voltage	208	205/205/204
RL Amperage	6.0	3.6/3.6/3.8
OA Damper Position	-	2.4V (9%)
Brake Horse Power	-	1.22

Motor Data		
	Design	**Actual**
Motor MFG	-	U.S. MOTORS
Frame	-	56HZ
Horsepower	2.00	2.0
Motor Rpm	-	1740
Phase	3	3
Rated Voltage	208	208-230
Rated Amperage	4.6	6.0
Service Factor	-	1.15

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.45"
Fan Suction SP	-	-0.64"
Fan Discharge SP	-	0.62"
Total ESP	0.70	1.07"
Fan Total SP	0.96	1.26"

Drive Data	
	Actual
Motor Sheave Size	1VL40
Motor Bore Size	7/8"
Motor Sheave SetPt	0.5 TURNS OPEN
Fan Sheave Size	MA48
Fan Sheave Bore	1"
Belt CL Distance	15.75"
Num of Belts	1
Belt Size	A42

Completed By: Michael McDonnell on 07/10/2024

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Project:The Learning Experience (Fitchburg, WI)

AHU/RTU

Diffuser Supply (GRD)

RTU-4/132

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
4-1	101	A2	8	180	190	188	104.4
4-2	100	A2	8	150	196	161	107.3
4-3	132	A3	10	320	339	330	103.1
4-4	132	A3	10	320	259	318	99.4
4-5	132	A3	10	320	274	324	101.3
4-6	101	A2	8	180	185	163	90.6
4-7	102	A3	10	260	335	268	103.1
4-8	105	A2	8	220	210	239	108.6
4-9	105	A2	8	170	205	174	102.4
4-10	105	A1	6	110	169	112	101.8
4-11	105	A3	8	220	215	235	106.8
Total				2450	2577	2512	102.53%

Diffuser Ret/Exh (GRD)

RTU-4/132

Asset								
Asset Name	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
R4-1	B6	10"	260	1.0	254	254	254	97.7
R4-2	B6	16"	680	1.0	723	723	723	106.3
R4-3	B3	10"	360	1.0	373	373	373	103.6
R4-4	B4	12"	425	1.0	411	411	411	96.7
R4-5	B4	12"	425	1.0	431	431	431	101.4
Total			2150		2192	2192	2192	101.95%

Completed By: Michael McDonnell on 07/10/2024

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Project: The Learning Experience (Fitchburg, WI)

System/Unit: AHU/RTU

Asset: RTU-5 AREA:121

Unit Data		
	Design	**Actual**
MFG	NA	LENNOX
Serial Num	-	5623M01251
Model Num	NA	KGB074S4T
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	29X14.25
Num PreFilter 1	-	4
PreFilter Size 1	-	20X20X2

Test Data		
	Design	**Actual**
SF CFM	1800	2240
SF RPM	1299	1396
RA CFM	1500	1934
OA CFM	300	306
RL Voltage	208	205/206/206
RL Amperage	6.0	3.5/3.7/3.7
OA Damper Position	-	2.2V (5%)
Brake Horse Power	-	1.21

Motor Data		
	Design	**Actual**
Motor MFG	-	U.S. MOTORS
Frame	-	56HZ
Horsepower	2.00	2.0
Motor Rpm	-	1740
Phase	3	3
Rated Voltage	208	208-230
Rated Amperage	4.6	6.0
Service Factor	-	1.15

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.75"
Fan Suction SP	-	-0.95"
Fan Discharge SP	-	0.83"
Total ESP	0.70	1.58"
Fan Total SP	0.96	1.78"

Drive Data	
	Actual
Motor Sheave Size	1VL40
Motor Bore Size	7/8"
Motor Sheave SetPt	1.5 TURNS OPEN
Fan Sheave Size	MA48
Fan Sheave Bore	1"
Belt CL Distance	16"
Num of Belts	1
Belt Size	A42

Completed By: Michael McDonnell on 07/10/2024

Notes:
[1] PLANS INDICATE A 5-TON UNIT SCHEDULED FOR 1800 CFM. 6-TON UNIT INSTALLED AND APPROVED. PROPORTIONALLY INCREASED AIRFLOW TO WITHIN APPROVED SUBMITTAL DESIGN (2450 CFM) TO BRING UNIT OVER 350CFM/TON FOR PERFORMANCE AND EFFICIENCY. DESIGNED PRESSURIZATION OF INDIVIDUAL ROOMS MAINTAINED.

Written By: Michael McDonnell on 07/12/2024

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Project:The Learning Experience (Fitchburg, WI)

AHU/RTU

Diffuser Supply (GRD)

RTU-5/121

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
5-1	135	A1	6	90	166	111	123.3
5-2	120	A2	8	230	150	300	130.4
5-3	121	A2	8	190	184	239	125.8
5-4	122	A1	6	30	76	37	123.3
5-5	137	A1	6	90	74	113	125.6
5-6	135	A1	6	90	80	112	124.4
5-7	117	A2	8	225	234	276	122.7
5-8	117	A2	8	225	261	274	121.8
5-9	117	A2	8	225	229	275	122.2
5-10	117	A2	8	225	325	274	121.8
5-11	136	A1	6	90	209	109	121.1
5-12	135	A1	6	90	159	120	133.3
Total				1800	2147	2240	124.44%

Diffuser Ret/Exh (GRD)

RTU-5/121

Asset								
Asset Name	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
R5-1	B2	8"	230	1.0	552	325	309	134.3
R5-2	B2	8"	210	1.0	496	296	282	134.3
R5-3	B4	12"	435	1.0	396	570	543	124.8
R5-4	B4	12"	435	1.0	341	584	556	127.8
R5-5	B2	8"	190	1.0	294	256	244	128.4
Total			1500		2079	2031	1934	128.93%

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Project: The Learning Experience (Fitchburg, WI)

System/Unit: FAN - Exhaust

Asset: EF-1 AREA:113

Unit Data		
	Design	**Actual**
MFG	NA	COOK
Model Num	NA	100C3B
Serial Num	-	012SK90101-00
Type	CRE DNBLAST	CRE DNB

Motor Data		
	Design	**Actual**
Motor MFG	-	U.S. MOTORS
Horsepower	0.25	0.25
Motor Rpm	1725	1725
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	4.9
Service Factor	-	1.35

Drive Data	
	Actual
Motor Sheave Size	3.25"
Motor Bore Size	0.5"
Motor Sheave SetPt	2.5 TURNS OPEN
Fan Sheave Size	AK27
Fan Sheave Bore	3/4"
Belt CL Distance	4.75"
Num of Belts	1
Belt Size	4L180

Test Data		
	Design	**Actual**
CFM	770	766
Fan RPM	1716	1681
RL Voltage	-	NA [1]
RL Amperage	5.8	NA [1]
Suction ESP	-	-0.26"
Discharge ESP	-	ATM
Total ESP	0.500	0.26"

Completed By: Michael McDonnell on 07/11/2024

Notes:
[1] NOT ACCESSIBLE LIGHTSWITCH STYLE DISCONNECT, COULD NOT READ SAFELY.

Written By: Michael McDonnell on 07/12/2024

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Project:The Learning Experience (Fitchburg, WI)

FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF-1/113

Asset								
Asset Name	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
E1-1	C1	6	70	1.0	87	92	68	97.1
E1-2	C1	6	70	1.0	66	70	71	101.4
E1-3	C1	6	70	1.0	74	78	70	100.0
E1-4	C1	6	70	1.0	72	76	65	92.9
E1-5	C1	6	70	1.0	59	63	77	110.0
E1-6	C1	6	70	1.0	77	82	72	102.9
E1-7	C1	6	70	1.0	68	72	72	102.9
E1-8	C1	6	70	1.0	51	54	70	100.0
E1-9	C1	6	70	1.0	89	94	64	91.4
E1-10	C1	6	70	1.0	45	47	66	94.3
E1-11	C1	6	70	1.0	68	72	71	101.4
Total			770		756	800	766	99.48%

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Project: The Learning Experience (Fitchburg, WI)

System/Unit: FAN - Exhaust

Asset: EF-2 AREA:129

Unit Data		
	Design	**Actual**
MFG	NA	COOK
Model Num	NA	80C2B
Serial Num	-	012SK90101-00
Type	CRE DNBLAST	CRE DNB

Motor Data		
	Design	**Actual**
Motor MFG	-	U.S. MOTORS
Horsepower	0.25	0.167
Motor Rpm	1725	1725
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	3.4
Service Factor	-	1.35

Drive Data	
	Actual
Motor Sheave Size	3.25"
Motor Bore Size	1/2"
Motor Sheave SetPt	4.5 TURNS OPEN
Fan Sheave Size	MA43
Fan Sheave Bore	3/4"
Belt CL Distance	5.25"
Num of Belts	1
Belt Size	4L210

Test Data		
	Design	**Actual**
CFM	280	272
Fan RPM	1597	906
RL Voltage	-	NA [1]
RL Amperage	-	NA [1]
Suction ESP	-	-0.21"
Discharge ESP	-	ATM
Total ESP	0.300	0.21"

Completed By: Michael McDonnell on 07/11/2024

Notes:
[1] NOT ACCESSIBLE LIGHTSWITCH STYLE DISCONNECT, COULD NOT READ SAFELY.
[2] EF-3 INSTALLED IN THIS LOCATION. INTENDED TO BE
COOK 70C3B, COOK 80C2B INSTALLED. FAN ACHEIVING DESIGN, NOT ANTICIPATED TO CAUSE ANY ISSUE.

Written By: Michael McDonnell on 07/12/2024

National TAB

Project:The Learning Experience (Fitchburg, WI)

FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF-2/129

Asset								
Asset Name	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
E2-1	C1	6	70	1.0	92	72	72	102.9
E2-2	C1	6	70	1.0	61	69	69	98.6
E2-3	C1	6	70	1.0	58	67	67	95.7
E2-4	C1	6	70	1.0	54	64	64	91.4
Total			280		265	272	272	97.14%

National TAB

Project: The Learning Experience (Fitchburg, WI)

System/Unit: FAN - Exhaust

Asset: EF-3 AREA:120

Unit Data		
	Design	**Actual**
MFG	NA	COOK
Model Num	NA	70C3B
Serial Num	-	012SK90101-00
Type	CRE DNBLAST	CRE DWNBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	U.S. MOTORS
Horsepower	0.167	0.250
Motor Rpm	1725	1725
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	4.9
Service Factor	-	1.35

Drive Data	
	Actual
Motor Sheave Size	3"
Motor Bore Size	3/4"
Motor Sheave SetPt	0 TURNS OPEN
Fan Sheave Size	3"
Fan Sheave Bore	1/2"
Belt CL Distance	4.75"
Num of Belts	1
Belt Size	4L190

Test Data		
	Design	**Actual**
CFM	300	307
Fan RPM	1087	1795
RL Voltage	-	115
RL Amperage	4.4	NA [1]
Suction ESP	-	-0.41"
Discharge ESP	-	ATM
Total ESP	0.300	0.41"

Completed By: Michael McDonnell on 07/12/2024

Notes:
[1] NOT ACCESSIBLE LIGHTSWITCH STYLE DISCONNECT, COULD NOT READ SAFELY.
[2] EF-2 INSTALLED IN THIS LOCATION. INTENDED TO BE
COOK 80C2B, COOK 70C3B INSTALLED. FAN ACHEIVING DESIGN, NOT ANTICIPATED TO CAUSE ANY ISSUE.

Written By: Michael McDonnell on 07/12/2024

National TAB

Project:The Learning Experience (Fitchburg, WI)

FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF-3/120

Asset								
Asset Name	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
E3-1	C2	8	150	1.0	183	157	157	104.7
E3-2	C2	8	150	1.0	129	150	150	100.0
Total			300		312	307	307	102.33%

Completed By: Michael McDonnell on 07/11/2024