

National TAB

Project: York Tech Dental Lab (Rock Hill, SC)

System/Unit: Fan Coil



Asset: FCU-1

AREA:141

Unit Data		
	Design	Actual
MFG	NA	JOHNSON CONTROLS
Model Num	NA	FNP12
Serial Num	-	6MLM000898
Configuration	HORIZONTAL	HORIZONTAL

Motor Data		
	Design	Actual
Horsepower	0.50	0.5
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	7.70

Test Data		
	Design	Actual
SFAN CFM	670	680
Motor Speed SetPt	-	5% POWER
RL Voltage	-	115
RL Amperage	-	7.70
RA CFM	400	
OA CFM	270	

Performance Data		
	Design	Actual
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.50	

National TAB

Project: York Tech Dental Lab (Rock Hill, SC)

Fan Coil



Diffuser Supply (GRD)

FCU-1/141

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-1	143	A1	6	40	170	41	102.5
1-2	141	A1	6	105	212	106	101.0
1-3	141	A1	6	105	227	107	101.9
1-4	141	A1	6	105	208	108	102.9
1-5	141	A1	6	105	206	106	101.0
1-6	141	A1	6	105	237	107	101.9
1-7	141	A1	6	105	239	105	100.0
Total				670	1499	680	101.49%

Diffuser Ret/Exh (GRD)

FCU-1/141

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R1-1	B1	8X8	65					-
R1-2	B1	8X8	65					-
R1-3	B1	8X8	65					-
R1-4	B1	8X8	65					-
R1-5	B1	8X8	70					-
R1-6	B1	8X8	70					-
Total			400		0	0	0	0%

National TAB

Project: York Tech Dental Lab (Rock Hill, SC)

System/Unit: Fan Coil



Asset: FCU-2

AREA:141

Unit Data		
	Design	Actual
MFG	NA	JOHNSON CONTROLS
Model Num	NA	FNP12
Serial Num	-	6MLM000900
Configuration	HORIZONTAL	HORIZONTAL

Motor Data		
	Design	Actual
Horsepower	0.50	0.50
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	7.70

Test Data		
	Design	Actual
SFAN CFM	820	839
Motor Speed SetPt	-	10% POWER
RL Voltage	-	115
RL Amperage	-	7.70
RA CFM	405	
OA CFM	265	

Performance Data		
	Design	Actual
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.50	

National TAB

Project: York Tech Dental Lab (Rock Hill, SC)

Fan Coil



Diffuser Supply (GRD)

FCU-2/141

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design	AK	CFM(2)
2-1	141	A1	6	95	179	97	102.1		
2-2	141	A1	6	95	186	98	103.2		
2-3	141	A1	6	95	202	96	101.1		
2-4	141	A1	6	95	184	97	102.1		
2-5	141	A1	6	95	193	98	103.2		
2-6	141	A1	6	95	189	97	102.1		
2-7	141	A1	6	100	212	102	102.0		
2-8	147	A1	6	150					
Total				820	1345	685			0

Diffuser Ret/Exh (GRD)

FCU-2/141

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R2-1	B1	8X8	55					-
R2-2	B1	8X8	55					-
R2-3	B1	8X8	55					-
R2-4	B1	8X8	60					-
R2-5	B1	8X8	60					-
R2-6	B1	8X8	60					-
R2-7	B1	8X8	60					-
Total			405		0	0	0	0%

National TAB

Project: York Tech Dental Lab (Rock Hill, SC)

System/Unit: Fan Coil



Asset: FCU-3

AREA:149

Unit Data		
	Design	Actual
MFG	NA	JOHNSON CONTROLS
Model Num	NA	FNP12
Serial Num	-	6MLM000899
Configuration	HORIZONTAL	HORIZONTAL

Motor Data		
	Design	Actual
Horsepower	0.50	0.50
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	7.70

Test Data		
	Design	Actual
SFAN CFM	670	677
Motor Speed SetPt	-	1% ON DIAL
RL Voltage	-	115
RL Amperage	-	
RA CFM	405	
OA CFM	265	

Performance Data		
	Design	Actual
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.50	

National TAB

Project: York Tech Dental Lab (Rock Hill, SC)

Fan Coil



Diffuser Supply (GRD)

FCU-3/149

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3-1	151	A1	6	40	218	43	107.5
3-2	149	A1	6	90	196	93	103.3
3-3	149	A1	6	90	181	88	97.8
3-4	149	A1	6	90	179	89	98.9
3-5	149	A1	6	90	161	90	100.0
3-6	149	A1	6	90	170	91	101.1
3-7	149	A1	6	90	157	89	98.9
3-8	149	A1	6	90	222	94	104.4
Total				670	1484	677	101.04%

Diffuser Ret/Exh (GRD)

FCU-3/149

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R3-1	B1	8X8	60					-
R3-2	B1	8X8	60					-
R3-3	B1	8X8	60					-
R3-4	B1	8X8	60					-
R3-5	B1	8X8	55					-
R3-6	B1	8X8	55					-
R3-7	B1	8X8	55					-
Total			405		0	0	0	0%

National TAB

Project: York Tech Dental Lab (Rock Hill, SC)

System/Unit: Fan Coil



Asset: FCU-4

AREA:149

Unit Data		
	Design	Actual
MFG	NA	JOHNSON CONTROLS
Model Num	NA	FNP12
Serial Num	-	6MLM000901
Configuration	HORIZONTAL	HORIZONTAL

Motor Data		
	Design	Actual
Horsepower	0.50	0.50
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	7.70

Test Data		
	Design	Actual
SFAN CFM	500	677
Motor Speed SetPt	-	1% POWER
RL Voltage	-	115
RL Amperage	-	7.70
RA CFM	400	
OA CFM	250	

Performance Data		
	Design	Actual
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.50	

National TAB

Project: York Tech Dental Lab (Rock Hill, SC)

Fan Coil



Diffuser Supply (GRD)

FCU-4/149

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
4-1	149	A1	6	85	219	111	130.6
4-3	149	A1	6	85	248	114	134.1
4-4	149	A1	6	80	270	112	140.0
4-5	149	A1	6	80	278	114	142.5
4-6	149	A1	6	85	264	115	135.3
4-7	149	A1	6	85	223	111	130.6
Total				500	1502	677	135.4%

Diffuser Ret/Exh (GRD)

FCU-4/149

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R4-1	B1	8X8	65					-
R4-2	B1	8X8	65					-
R4-3	B1	8X8	65					-
R4-4	B1	8X8	65					-
R4-5	B1	8X8	70					-
R4-6	B1	8X8	70					-
Total			400		0	0	0	0%

National TAB

Project: York Tech Dental Lab (Rock Hill, SC)

System/Unit: Fan Coil



Asset: FCU-5

AREA:117

Unit Data		
	Design	Actual
MFG	NA	JOHNSON CONTROLS
Model Num	NA	FNP20
Serial Num	-	6MLM000902
Configuration	HORIZONTAL	HORIZONTAL

Motor Data		
	Design	Actual
Horsepower	2@ 0.50	2@ 0.50
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	13.0

Test Data		
	Design	Actual
SFAN CFM	1265	1287
Motor Speed SetPt	-	50% POWER
RL Voltage	-	115
RL Amperage	-	13.0
RA CFM	1075	
OA CFM	190	

Performance Data		
	Design	Actual
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.75	

National TAB

Project: York Tech Dental Lab (Rock Hill, SC)

Fan Coil



Diffuser Supply (GRD)

FCU-5/117

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
5-1	137	A2	8	150	210	151	100.7
5-2	101	A1	6	105	156	106	101.0
5-3	101	A1	6	110	162	109	99.1
5-4	105	A1	6	115	186	119	103.5
5-5	105	A1	6	120	167	122	101.7
5-6	115	A1	6	100	131	98	98.0
5-7	119	A2	8	230	196	233	101.3
5-8	103	A2	8	100	128	102	102.0
5-9	109	A1	6	100	176	105	105.0
5-10	111	A1	6	100	195	104	104.0
5-11	117	A1	6	35	37	38	108.6
Total				1265	1744	1287	101.74%

Diffuser Ret/Exh (GRD)

FCU-5/117

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R5-1	B1	8X8	115					-
R5-2	B1	8X8	110					-
R5-3	B1	8X8	130					-
R5-4	B1	8X8	130					-
R5-5	B1	8X8	60					-
R5-6	B1	8X8	100					-
R5-7	B1	8X8	100					-
R5-8	B1	8X8	100					-
R5-9	B1	8X8	230					-
Total			1075		0	0	0	0%

National TAB

Project: York Tech Dental Lab (Rock Hill, SC)

System/Unit: Fan Coil



Asset: FCU-6

AREA:133

Unit Data		
	Design	Actual
MFG	NA	JOHNSON CONTROLS
Model Num	NA	AHD20
Serial Num	-	
Configuration	HORIZONTAL	HORIZONTAL

Motor Data		
	Design	Actual
Horsepower	0.50	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	12.80

Test Data		
	Design	Actual
SFAN CFM	2070	
Motor Speed SetPt	-	
RL Voltage	-	115
RL Amperage	-	12.80
RA CFM	1945	
OA CFM	125	

Performance Data		
	Design	Actual
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.75	

National TAB

Project: York Tech Dental Lab (Rock Hill, SC)

Fan Coil



Diffuser Supply (GRD)

FCU-6/133

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
6-1	121	A2	8	235			-
6-2	123	A2	8	235			-
6-3	125	A2	8	235			-
6-4	113	A2	8	105			-
6-5	127	A2	8	235			-
6-6	129	A3	12	395			-
6-7	131	A3	12	395			-
6-8	133	A2	8	235			-
Total				2070	0	0	0%

Diffuser Ret/Exh (GRD)

FCU-6/133

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R6-1	B1	8X8	235					-
R6-2	B1	8X8	235					-
R6-3	B1	8X8	235					-
R6-4	B1	8X8	105					-
R6-5	B1	8X8	235					-
R6-6	B2	12X12	330					-
R6-7	B1	8X8	235					-
R6-8	B2	12X12	335					-
Total			1945		0	0	0	0%

National TAB

Project: York Tech Dental Lab (Rock Hill, SC)

System/Unit: FAN - Exhaust



Asset: EF-1

AREA:147

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	SQ-99-VG
Serial Num	-	
Type	INLINE	

Test Data		
	Design	Actual
CFM	500	
RL Voltage	-	115
RL Amperage	-	2.85
Total ESP	0.50	

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

National TAB

Project: York Tech Dental Lab (Rock Hill, SC)

FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF-1/147

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
E1-1	C2	8X8	250					-
E1-2	C1	6X6	150					-
E1-3	C1	6X6	100					-
Total			500		0	0	0	0%

National TAB

Project: York Tech Dental Lab (Rock Hill, SC)



Circuit Setter

CHW CS/

Asset							
Asset Name	Size	Type	Design GPM	Setting	Delta P	Final GPM	% to Design
FCU-1	0.75	AUTO	6.10	2-32 psid	3.97	5.8	95.1
FCU-2	0.75	AUTO	6.10	2-32 psid	4.89	5.8	95.1
FCU-3	0.75	AUTO	6.10	2-32 psid	5.85	5.8	95.1
FCU-4	0.75	AUTO	6.10	2-32 psid	8.1	5.8	95.1
FCU-5	1.75	AUTO	8.40	2-32 psid	8.81	8.4	100.0
FCU-6	1.25	AUTO	9.80	2-32 psid	15.78	9.8	100.0
Total			42.599999999999994			41.400000000000006	97.18%

Completed By: JOASH ALBIN on 12/18/2023

HW CS/

Asset							
Asset Name	Size	Type	Design GPM	Setting	Delta P	Final GPM	% to Design
FCU-1	1/2	AUTO	2.80	2-32 psid	2.49	2.4	85.7
FCU-2	1/2	AUTO	2.80	2-32 psid	2.6	2.4	85.7
FCU-3	1/2	AUTO	2.80	2-32 psid	3.40	2.4	85.7
FCU-4	1/2	AUTO	2.80	2-32 psid	2.44	2.4	85.7
FCU-5	3/4	AUTO	5.70	2-32 psid	2.08	4.5	78.9
FCU-6	1/2	AUTO	7.00	2-32 psid	2.23	6	85.7
Total			23.9			20.1	84.1%

Completed By: JOASH ALBIN on 12/18/2023