

Report By:

National TAB



Report: Final Report
Function: Test, Adjust, & Balance
Date: 09/23/2025
Completed By: National TAB

PROJECT

Ohio Kids Dental (Fairfield Township, OH)

2889 Jefferson Drive

Fairfield Township, OH 45011

Client

Champion Commercial HVAC

2638 Tem Mile Rd.

Melbourne, KY 41059

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Project: Ohio Kids Dental (Fairfield Township, OH)

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Project: Ohio Kids Dental (Fairfield Township, OH)

System/Unit: AHU/RTU



Asset: EXRTU-4

AREA: OPEN EXAM BAY

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	0723C06195
Model Num	NA	48FCEA06A2A
Configuration	-	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	23"x12.5"
Num PreFilter 1	-	2
PreFilter Size 1	-	24"x16"

Motor Data		
	Design	Actual
Phase	-	1
Rated Voltage	-	208
Rated Amperage	-	9.2

Test Data		
	Design	Actual
SF CFM	1990	2010
RA CFM	1775	1783
OA CFM	215	227
RL Voltage	-	210
RL Amperage	-	7.8
SF System SetPt	-	9.14 VDC
OA Damper Position	-	3%

Performance Data		
	Design	Actual
Fan Suction SP	-	-0.93
Fan Discharge SP	-	0.68
Total ESP	-	1.13
Fan Total SP	-	1.61

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Project: Ohio Kids Dental (Fairfield Township, OH)

AHU/RTU



Diffuser Supply (GRD)

EXRTU-4/OPEN EXAM BAY

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
4-1	HALLWAY WEST 111	SD-2	8	150	225	156	104.0
4-2	SEMI-PRIVATE 1 112	SD-2	8	175	201	178	101.7
4-3	DOCTORS 117	SD-2	8	200	140	182	91.0
4-4	STERILIZATION	SD-2	8	200	93	189	94.5
4-5	HALLWAY EAST 122	SD-2	8	150	143	145	96.7
4-6	TRE. RM. 2 126	SD-2	8	175	147	189	108.0
4-7	TRE. RM. 3 127	SD-2	8	175	163	178	101.7
4-8	TRE. RM. 1 125	SD-2	8	175	135	172	98.3
4-9	SEMI-PRIVATE 2 113	SD-2	8	175	220	192	109.7
4-10	RESTROOM 118	SD-5	6	50	53	55	110.0
4-11	RESTROOM 119	SD-5	6	50	75	55	110.0
4-12	BREAKROOM 114	SD-2	8	160	198	170	106.3
4-13	BREAKROOM 114	SD-2	8	155	183	149	96.1
Total				1990	1976	2010	101.01%

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Project: Ohio Kids Dental (Fairfield Township, OH)

System/Unit: AHU/RTU



Asset: EXRTU-5

AREA:CHECK-IN/OUT

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	0723C06200
Model Num	NA	48FCEA06A2A
Configuration	-	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	23"x12.5"
Num PreFilter 1	-	2
PreFilter Size 1	-	28"x16"

Motor Data		
	Design	Actual
Phase	-	1
Rated Voltage	-	208
Rated Amperage	-	9.2

Test Data		
	Design	Actual
SF CFM	1925	1937
RA CFM	1710	1737
OA CFM	215	200
RL Voltage	-	210
RL Amperage	-	7.8
SF System SetPt	-	9.25 VCD
OA Damper Position	-	8%

Performance Data		
	Design	Actual
Fan Suction SP	-	-1.01"
Fan Discharge SP	-	0.46"
Total ESP	-	1.16"
Fan Total SP	-	1.47"

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AHU/RTU



Diffuser Supply (GRD)

EXRTU-5/CHECK-IN/OUT

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
5-1	CHECK-IN/OUT 102	SD-2	8	150	182	135	90.0
5-2	LOBBY/WAITING 101	SD-1	10	300	316	271	90.3
5-3	LOBBY/WAITING 101	SD-1	10	300	353	290	96.7
5-4	OPEN EXAM BAY 110	SD-1	10	250	284	268	107.2
5-6	LOBBY/WAITING 101	SD-1	10	300	407	299	99.7
5-7	VESTIBULE 100	SD-2	8	150	25	164	109.3
5-8	LOBBY/WAITING 101	SD-1	10	300	341	330	110.0
5-9	FAMILY R.R. 103	SD-5	6	50	71	55	110.0
5-10	PRINTER 104	SD-3	6	50	54	51	102.0
5-11	O.M. 105	SD-3	6	75	69	74	98.7
Total				1925	2102	1937	100.62%

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Project: Ohio Kids Dental (Fairfield Township, OH)

System/Unit: AHU/RTU



Asset: RTU-1

AREA: LOBBY/WAITING

Unit Data		
	Design	Actual
MFG	NA	LENNOX
Serial Num	-	5625G02360
Model Num	NA	LGT036H5E
Configuration	-	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	14"x14"
Num PreFilter 1	-	4
PreFilter Size 1	-	20"x20"x2"

Motor Data		
	Design	Actual
Horsepower	-	0.5
Phase	-	1
Rated Amperage	-	4.3

Test Data		
	Design	Actual
SF CFM	1200	1202
SF RPM	-	899
RA CFM	1115	1108
OA CFM	85	94
RL Voltage	-	208
RL Amperage	-	1.89
SF System SetPt	-	55%
OA Damper Position	-	22%
Brake Horse Power	-	0.22

Performance Data		
	Design	Actual
Fan Suction SP	-	-0.36"
Fan Discharge SP	-	0.31"
Total ESP	1.00	0.61"
Fan Total SP	-	0.67"

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Project: Ohio Kids Dental (Fairfield Township, OH)

AHU/RTU



Diffuser Supply (GRD)

RTU-1/LOBBY/WAITING

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-1	PANO 107	SD-3	6	75	108	72	96.0
1-2	IO 2 108	SD-3	6	75	110	77	102.7
1-3	IO 1 109	SD-3	6	75	97	71	94.7
1-4	OPEN EXAM BAY 110	SD-2	8	150	66	145	96.7
1-5	OPEN EXAM BAY 110	SD-2	8	150	158	157	104.7
1-6	OPEN EXAM BAY 110	SD-2	8	150	147	157	104.7
1-7	OPEN EXAM BAY 110	SD-2	8	150	185	157	104.7
1-8	OPEN EXAM BAY 110	SD-2	8	150	211	146	97.3
1-9	OPEN EXAM BAY 110	SD-1	10	225	198	220	97.8
Total				1200	1280	1202	100.17%

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Project: Ohio Kids Dental (Fairfield Township, OH)

System/Unit: FAN - Exhaust



Asset: EF-1

AREA:RESTROOM 118

Unit Data		
	Design	Actual
MFG	NA	PENNBARRY
Model Num	NA	ZT
Serial Num	-	L23AG48185
Type	CEILING EXHAUST	CEILING EXHAUST

Test Data		
	Design	Actual
CFM	75	89
System SetPt	-	SINGLE SPEED

Motor Data		
	Design	Actual
Motor MFG	-	FASCO
Motor Rpm	-	1400
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	0.74

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Project: Ohio Kids Dental (Fairfield Township, OH)

System/Unit: FAN - Exhaust



Asset: EF-2

AREA:RESTROOM 119

Unit Data		
	Design	Actual
MFG	NA	PENNBARRY
Model Num	NA	ZT
Serial Num	-	M22A016831
Type	CEILING EXHAUST	CEILING EXHAUST

Test Data		
	Design	Actual
CFM	75	73
System SetPt	-	SINGLE SPEED

Motor Data		
	Design	Actual
Motor MFG	-	FASCO
Motor Rpm	-	1400
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	0.74

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System/Unit: FAN - Exhaust



Asset: EF-3

AREA:FAMILY R.R. 103

Unit Data		
	Design	Actual
MFG	NA	PENNBARRY
Model Num	NA	ZT
Serial Num	-	M22A016833
Type	CEILING EXHAUST	CEILING EXHAUST

Test Data		
	Design	Actual
CFM	75	80
System SetPt	-	SINGLE SPEED

Motor Data		
	Design	Actual
Motor MFG	-	FASCO
Motor Rpm	-	1400
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	0.74

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System/Unit: FAN - Exhaust



Asset: EF-4

AREA:N20 121

Unit Data		
	Design	Actual
MFG	NA	NA
Model Num	NA	CSP-A390-VG-Q0
Serial Num	-	27206534
Type	INLINE EXHAUST	INLINE

Test Data		
	Design	Actual
CFM	25	47
System SetPt	-	SINGLE SPEED

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Notes:

There is no speed control on the fan to change airflow

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Project: Ohio Kids Dental (Fairfield Township, OH)

System/Unit: FAN - Exhaust



Asset: EF-5

AREA:I.T. 129

Unit Data		
	Design	Actual
MFG	NA	PENNBARRY
Model Num	NA	ZJ1
Serial Num	-	M22A016840
Type	CEILING EXHAUST	CEILING EXHAUST

Test Data		
	Design	Actual
CFM	150	156
System SetPt	-	SINGLE SPEED

Motor Data		
	Design	Actual
Motor MFG	-	FASCO
Motor Rpm	-	1550
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	1.4

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