

Report By:

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



Report: TEST

Function: Test, Adjust, & Balance

Date: 01/13/2026

Completed By: National TAB

PROJECT

Lake Murray Elementary School Addition (Chapin, SC)

1531 Three Dog Road

Chapin, SC 29036

Client

Walker White, Inc.

7402 Fairfield Road

Columbia, SC 29203

National TAB

Project: Lake Murray Elementary School Addition (Chapin, SC)

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Project: Lake Murray Elementary School Addition (Chapin, SC)



System/Unit: AHU/RTU

Asset: RTU-1

AREA:CLASSROOM H102

Unit Data		
	Design	Actual
MFG	NA	NA
Serial Num	-	
Model Num	NA	NA
Configuration	-	
Num OA Filters 1	-	
OA Filter Size 1	-	
Num OA Filters 2	-	
OA Filter Size 2	-	
Num PreFilter 1	-	
PreFilter Size 1	-	
Num PreFilter 2	-	
PreFilter Size 2	-	
Num Final Filter 1	-	
Final Filter Size 1	-	
Num Final Filter 2	-	
Final Filter Size 2	-	

Test Data		
	Design	Actual
SF CFM	9000	
SF RPM	-	
RA CFM	9000	
OA CFM	0	
RL Voltage	460	
RL Amperage	2.9	
VFD Max SetPt	-	
VFD Min SetPt	-	
SF Motor Freq(HZ)	-	
SF Flow Station (Kv)	-	
OA Flow Station (Kv)	-	
SF System SetPt	-	
RA Flow Station (Kv)	-	
Min OA Damper Position	-	
Econo Damper Position	-	
Brake Horse Power	3.91	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	
Motor Rpm	-	
Phase	-	
Rated Voltage	-	
Rated Amperage	-	
Service Factor	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	3.0	
Fan Total SP	-	
Pre-Filter P.D.	-	
Cooling Coil P.D.	-	
CHW Coil P.D.	-	
PreHeat Coil P.D.	-	
Heating Coil P.D.	-	
HW Coil P.D.	-	
Heat Wheel (Sup) P.D.	-	
OA Temp (db/wb)	-	
RA Temp (db/wb)	-	
MA Temp (db/wb)	-	
SA Temp (db/wb)	-	

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

National TAB

Project: Lake Murray Elementary School Addition (Chapin, SC)

AHU/RTU



VAV - Single Duct

RTU-1/CLASSROOM H102

Asset											
Asset Name	MFG	Model Num	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
T1-1	NA	NA		10	1100		330		330		
T1-2	NA	NA		10	1050		330		330		
T1-3	NA	NA		10	1050		330		330		
T1-4	NA	NA		10	1050		330		330		
T1-5	NA	NA		10	1150		345		345		
T1-6	NA	NA		10	1050		330		330		
T1-7	NA	NA		10	1050		330		330		
T1-8	NA	NA		10	1050		330		330		
T1-9	NA	NA		10	1150		345		345		

Diffuser Ret/Exh (GRD)

RTU-1/CLASSROOM H102

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
R1-1	CLASSROOM H102	2A-L	12	525				-
R1-2	CLASSROOM H102	2A-L	12	525				-
R1-3	CLASSROOM H104	2A-L	12	525				-
R1-4	CLASSROOM H104	2A-L	12	525				-
R1-5	CLASSROOM H106	2A-L	12	525				-
R1-6	CLASSROOM H106	2A-L	12	525				-
R1-7	CLASSROOM H108	2A-L	12	575				-
R1-8	CLASSROOM H108	2A-L	12	575				-
R1-9	CLASSROOM H112	2A-L	12	525				-
R1-10	CLASSROOM H112	2A-L	12	525				-
R1-11	CLASSROOM H114	2A-L	12	525				-
R1-12	CLASSROOM H114	2A-L	12	525				-
R1-13	CLASSROOM H101	2A-L	12	525				-
R1-14	CLASSROOM H101	2A-L	12	525				-
R1-15	CLASSROOM H113	2A-L	12	575				-
R1-16	CLASSROOM H113	2A-L	12	575				-
R1-17	CORRIDOR C103	2A-L	12	550				-
R1-18	CORRIDOR C103	2A-L	12	550				-
R1-19	CLASSROOM H115	2A-L	12	525				-

RTU-1/CLASSROOM H102

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
R1-20	CLASSROOM H115	2A-L	12	525				-
Total				10750		0	0	0%

T1-2/

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
1-2-1	CLASSROOM H102	1C-L	8	260				-
1-2-2	CLASSROOM H102	1C-L	8	260				-
1-2-3	CLASSROOM H102	1C-L	8	265				-
1-2-4	CLASSROOM H102	1C-L	8	265				-
Total				1050		0	0	0%

Diffuser Supply (GRD)**T1-1/**

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design	
1-1-1	CLASSROOM H101	1C-L	8	265				-
1-1-2	CLASSROOM H101	1C-L	8	260				-
1-1-3	CLASSROOM H101	1C-L	8	260				-
1-1-4	CLASSROOM H101	1C-L	8	265				-
Total				1050		0	0	0%

T1-3/

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design	
1-3-1	CLASSROOM H104	1C-L	8	265				-
1-3-2	CLASSROOM H104	1C-L	8	265				-
1-3-3	CLASSROOM H104	1C-L	8	260				-
1-3-4	CLASSROOM H104	1C-L	8	260				-
Total				1050		0	0	0%

T1-4/

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design	
1-4-1	CLASSROOM H106	1C-L	8	260				-
1-4-2	CLASSROOM H106	1C-L	8	260				-
1-4-3	CLASSROOM H106	1C-L	8	265				-
1-4-4	CLASSROOM H106	1C-L	8	265				-
Total				1050		0	0	0%

T1-5/

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design	
1-5-1	CLASSROOM H108	1C-L	8	290				-
1-5-2	CLASSROOM H108	1C-L	8	290				-

T1-5/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-5-3	CLASSROOM H108	1C-L	8	285			-
1-5-4	CLASSROOM H108	1C-L	8	285			-
Total				1150	0	0	0%

T1-6/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-6-1	CLASSROOM H112	1C-L	8	265			-
1-6-2	CLASSROOM H112	1C-L	8	265			-
1-6-3	CLASSROOM H112	1C-L	8	260			-
1-6-4	CLASSROOM H112	1C-L	8	260			-
Total				1050	0	0	0%

T1-7/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-7-1	CLASSROOM H114	1C-L	8	265			-
1-7-2	CLASSROOM H114	1C-L	8	265			-
1-7-3	CLASSROOM H114	1C-L	8	260			-
1-7-4	CLASSROOM H114	1C-L	8	260			-
Total				1050	0	0	0%

T1-8/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-8-1	CLASSROOM H115	1C-L	8	290			-
1-8-2	CLASSROOM H115	1C-L	8	290			-
1-8-3	CLASSROOM H115	1C-L	8	285			-
1-8-4	CLASSROOM H115	1C-L	8	285			-
Total				1150	0	0	0%

T1-9/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-9-1	CLASSROOM H115	1C-L	8	260			-
1-9-2	CLASSROOM H115	1C-L	8	260			-
1-9-3	CLASSROOM H115	1C-L	8	265			-
1-9-4	CLASSROOM H115	1C-L	8	265			-
Total				1050	0	0	0%

National TAB

Project: Lake Murray Elementary School Addition (Chapin, SC)



System/Unit: AHU/RTU

Asset: RTU-2

AREA:CLASSROOM H213

Unit Data		
	Design	Actual
MFG	NA	NA
Serial Num	-	
Model Num	NA	NA
Configuration	-	
Num OA Filters 1	-	
OA Filter Size 1	-	
Num OA Filters 2	-	
OA Filter Size 2	-	
Num PreFilter 1	-	
PreFilter Size 1	-	
Num PreFilter 2	-	
PreFilter Size 2	-	
Num Final Filter 1	-	
Final Filter Size 1	-	
Num Final Filter 2	-	
Final Filter Size 2	-	

Test Data		
	Design	Actual
SF CFM	10000	
SF RPM	-	
RA CFM	10000	
OA CFM	0	
RL Voltage	460	
RL Amperage	2.9	
VFD Max SetPt	-	
VFD Min SetPt	-	
SF Motor Freq(HZ)	-	
SF Flow Station (Kv)	-	
OA Flow Station (Kv)	-	
SF System SetPt	-	
RA Flow Station (Kv)	-	
Min OA Damper Position	-	
Econo Damper Position	-	
Brake Horse Power	4.3	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	
Motor Rpm	-	
Phase	-	
Rated Voltage	-	
Rated Amperage	-	
Service Factor	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	3.0	
Fan Total SP	-	
Pre-Filter P.D.	-	
Cooling Coil P.D.	-	
CHW Coil P.D.	-	
PreHeat Coil P.D	-	
Heating Coil P.D.	-	
HW Coil P.D.	-	
Heat Wheel (Sup) P.D.	-	
OA Temp (db/wb)	-	
RA Temp (db/wb)	-	
MA Temp (db/wb)	-	
SA Temp (db/wb)	-	

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

National TAB

Project: Lake Murray Elementary School Addition (Chapin, SC)

AHU/RTU



VAV - Single Duct

RTU-2/CLASSROOM H213

Asset											
Asset Name	MFG	Model Num	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
T1-10	NA	NA		10	1150		345		345		
T2-1	NA	NA		10	1250		375		375		
T2-2	NA	NA		10	1100		330		330		
T2-3	NA	NA		10	1100		330		330		
T2-4	NA	NA		10	1100		330		330		
T2-5	NA	NA		10	1200		360		360		
T2-6	NA	NA		10	1100		330		330		
T2-7	NA	NA		10	1150		345		345		
T2-8	NA	NA		10	1250		375		375		
T2-9	NA	NA		10	1100		330		330		
T2-10	NA	NA		10	1350		405		405		

Diffuser Ret/Exh (GRD)

RTU-2/CLASSROOM H213

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
R2-1	CLASSROOM H215	2A-L	12	625				-
R2-2	CLASSROOM H213	2A-L	12	550				-
R2-3	CLASSROOM H213	2A-L	12	550				-
R2-4	CLASSROOM H215	2A-L	12	625				-
R2-5	CLASSROOM H201	2A-L	14	600				-
R2-6	CLASSROOM H201	2A-L	14	600				-
R2-7	CLASSROOM H214	2A-L	12	550				-
R2-8	CLASSROOM H214	2A-L	12	550				-
R2-9	CLASSROOM H212	2A-L	12	550				-
R2-10	CLASSROOM H212	2A-L	12	550				-
R2-11	CLASSROOM H208	2A-L	12	600				-
R2-12	CLASSROOM H208	2A-L	12	600				-
R2-13	CLASSROOM H206	2A-L	12	550				-
R2-14	CLASSROOM H206	2A-L	12	550				-
R2-15	CLASSROOM H204	2A-L	12	550				-
R2-16	CLASSROOM H204	2A-L	12	550				-
R2-17	CLASSROOM H202	2A-L	12	550				-
R2-18	CLASSROOM H202	2A-L	12	550				-

RTU-2/CLASSROOM H213

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
Total				10250		0	0	0%

Diffuser Supply (GRD)

T1-10/

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design	
1-10-1	CORRIDOR C103	1E-L	12	400				-
1-10-2	TEACHER WORKROOM H110	1D-L	10	300				-
1-10-3	CORRIDOR C102	1C-L	8	200				-
1-10-4	STAFF RR H107	1		50				-
1-10-5	BOYS RR H105	1A-L	6	100				-
1-10-6	GIRLS RR H103	1A-L	6	100				-
1-10-7	CORRIDOR C102	1C-L	8	200				-
Total				1350	0	0	0	0%

T2-1/

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design	
2-1-1	CLASSROOM H201	1D-L	10	300				-
2-1-2	CLASSROOM H201	1D-L	10	300				-
2-1-3	STORAGE H201A	1A-L	6	50				-
2-1-4	CLASSROOM H201	1D-L	10	300				-
2-1-5	CLASSROOM H201	1D-L	10	300				-
Total				1250	0	0	0	0%

T2-2/

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design	
2-2-1	CLASSROOM H202	1C-L	8	275				-
2-2-2	CLASSROOM H202	1C-L	8	275				-
2-2-3	CLASSROOM H202	1C-L	8	275				-
2-2-4	CLASSROOM H202	1C-L	8	275				-
Total				1100	0	0	0	0%

T2-3/

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design	
2-3-1	CLASSROOM H204	2C-L	8	275				-
2-3-2	CLASSROOM H204	2C-L	8	275				-
2-3-3	CLASSROOM H204	2C-L	8	275				-
2-3-4	CLASSROOM H204	2C-L	8	275				-
Total				1100	0	0	0	0%

T2-4/

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design	
2-4-1	CLASSROOM H206	1C-L	8	275				-
2-4-2	CLASSROOM H206	1C-L	8	275				-
2-4-3	CLASSROOM H206	1C-L	8	275				-

T2-4/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-4-4	CLASSROOM H206	1C-L	8	275			-
Total				1100	0	0	0%

T2-5/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-5-1	CLASSROOM H208	1D-L	10	300			-
2-5-2	CLASSROOM H208	1D-L	10	300			-
2-5-3	CLASSROOM H208	1D-L	10	300			-
2-5-4	CLASSROOM H208	1D-L	10	300			-
Total				1200	0	0	0%

T2-6/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-6-1	CLASSROOM H212	1C-L	8	275			-
2-6-2	CLASSROOM H212	1C-L	8	275			-
2-6-3	CLASSROOM H212	1C-L	8	275			-
2-6-4	CLASSROOM H212	1C-L	8	275			-
Total				1100	0	0	0%

T2-7/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-7-1	CLASSROOM H214	1C-L	8	275			-
2-7-2	CLASSROOM H214	1C-L	8	275			-
2-7-3	CLASSROOM H214	1C-L	8	275			-
2-7-4	CLASSROOM H214	1C-L	8	275			-
2-7-5	STORAGE H214A	1A-L	6	50			-
Total				1150	0	0	0%

T2-8/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-8-1	CLASSROOM H215	1D-L	10	315			-
2-8-2	CLASSROOM H215	1D-L	10	315			-
2-8-3	CLASSROOM H215	1D-L	10	310			-
2-8-4	CLASSROOM H215	1D-L	10	310			-
Total				1250	0	0	0%

T2-9/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-9-1	CLASSROOM H213	1C-L	8	275			-
2-9-2	CLASSROOM H213	1C-L	8	275			-
2-9-3	CLASSROOM H213	1C-L	8	275			-
2-9-4	CLASSROOM H213	1C-L	8	275			-

T2-9/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
Total				1100	0	0	0%

T2-10/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-10-1	CORRIDOR C202	1E-L	12	400			-
2-10-2	STAFF RR H207	1A-L	6	50			-
2-10-3	BOYS RR	1B-L	6	100			-
2-10-4	GIRLS RR H203	1B-L	6	100			-
2-10-5	CORRIDOR C201	1E-L	12	400			-
2-10-6	WORKROOM H210	1D-L	10	300			-
Total				1350	0	0	0%

National TAB

Project: Lake Murray Elementary School Addition (Chapin, SC)



System/Unit: FAN - Exhaust

Asset: EF-1

AREA: STORAGE H111

Unit Data		
	Design	Actual
MFG	NA	NA
Model Num	NA	NA
Serial Num	-	
Type	-	

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

Test Data		
	Design	Actual
CFM	1725	
Motor Frequency	-	
System SetPt	-	
RL Voltage	115	
RL Amperage	-	
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.75	
Brake Horse Power	-	

National TAB

Project: Lake Murray Elementary School Addition (Chapin, SC)



FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF-1/STORAGE H111

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
E1-1	STORAGE H111	2B		75				-
E1-2	JAN H109	2B		100				-
E1-3	STAFF RR H107	2B	8	150				-
E1-4	BOYS RR H105	2A-L	12	550				-
E1-5	GIRLS RR H103	2A	12	550				-
Total				1425		0	0	0%

National TAB

Project: Lake Murray Elementary School Addition (Chapin, SC)



System/Unit: FAN - Exhaust

Asset: EF-2

AREA:STAFF RR

Unit Data		
	Design	Actual
MFG	NA	NA
Model Num	NA	NA
Serial Num	-	
Type	-	

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

Test Data		
	Design	Actual
CFM	1725	
Motor Frequency	-	
System SetPt	-	
RL Voltage	115	
RL Amperage	-	
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.5	
Brake Horse Power	-	

National TAB

Project: Lake Murray Elementary School Addition (Chapin, SC)



FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF-2/STAFF RR

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
E2-1	STAFF RR H207	2B-L	6	150				-
E2-2	JAN H209	2A-L	6	50				-
E2-3	STORAGE H211	2A-L	6	75				-
E2-4	BOYS RR	2A-L	12	550				-
E2-5	GIRLS RR H203	2A-L	12	550				-
Total				1375		0	0	0%