

Report By:

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



**Report: pre
Function: Test, Adjust, & Balance
Date: 10/27/2022**

**PROJECT
11-07 PENN STATION - MINT HILL, NC**

6816 MATTHEWS - MINT HILL RD

MINT HILL, NC 28227

Client

C&T DESIGN
4025 PORT UNION RD.
FAIRFIELD, OH 45014

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Project: 11-07 PENN STATION - MINT HILL, NC

System/Unit: AHU/RTU



Comfort. Under control.

Asset: AHU1

AREA:

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	
Model Num	LGH090H	LGH090H
Configuration	VERTICAL	
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	3000	
SF RPM	NA	
RA CFM	2250	
OA CFM	750	
RL Voltage	-	
RL Amperage	-	
VFD Max SetPt	-	
SF Motor Freq(HZ)	-	
SF System SetPt	-	
RA Damper Position	-	
OA Damper Position	-	
Brake Horse Power	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	NA	
Motor Rpm	NA	
Phase	3	
Rated Voltage	208	
Rated Amperage	NA	
Service Factor	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	-	
Fan Total SP	-	
Pre-Filter Delta SP	-	
PreHeat Coil Delta SP	-	
CHW Coil Delta SP	-	
HW Coil Delta SP	-	

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Notes:

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AHU/RTU



Comfort. Under control.

Diffuser Supply (GRD)

AHU1/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
AHU1-SGRD1	DINING	CD2	24X24	415					-
AHU1-SGRD2	DINING	CD2	24X24	410					-
AHU1-SGRD3	DINING	CD2	24X24	300					-
AHU1-SGRD4	DINING	CD2	24X24	300					-
AHU1-SGRD5	DINING	CD2	24X24	300					-
AHU1-SGRD6	DINING	CD2	24X24	300					-
AHU1-SGRD7	DINING	CD2	24X24	300					-
AHU1-SGRD8	DINING	CD2	24X24	300					-
AHU1-SGRD9	DINING	CD2	8" DIA.	75					-
AHU1-SGRD10	DINING	CD2	24X24	300					-

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System/Unit: AHU/RTU



Comfort. Under control.

Asset: AHU2

AREA:

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	
Model Num	LGH090H	LGH090H
Configuration	VERICAL	
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	2765	
SF RPM	NA	
RA CFM	NA	
OA CFM	3000	
RL Voltage	-	
RL Amperage	-	
VFD Max SetPt	-	
SF Motor Freq(HZ)	-	
SF System SetPt	-	
RA Damper Position	-	
OA Damper Position	-	
Brake Horse Power	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	NA	
Motor Rpm	NA	
Phase	3	
Rated Voltage	208	
Rated Amperage	NA	
Service Factor	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	-	
Fan Total SP	-	
Pre-Filter Delta SP	-	
PreHeat Coil Delta SP	-	
CHW Coil Delta SP	-	
HW Coil Delta SP	-	

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Notes: SCHEDULED FOR 3000 CFM, BALANCED TO DIFFUSER TOTAL 2765 WITHIN NOMINAL RATING OF UNIT TONNAGE

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Project: 11-07 PENN STATION - MINT HILL, NC

AHU/RTU



Comfort. Under control.

Diffuser Supply (GRD)

AHU2/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
AHU2-SGRD1				350					-
AHU2-SGRD2				350					-
AHU2-SGRD3				350					-
AHU2-SGRD4				300					-
AHU2-SGRD5				300					-
AHU2-SGRD6				400					-
AHU2-SGRD7		AC	6X50	250					-
AHU2-SGRD8		AC	6X72	465					-

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Project: 11-07 PENN STATION - MINT HILL, NC

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: KEF1

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU85HFA	DU85HFA
Serial Num	-	
Type	UPBLAST	
Configuration	VERTICAL	

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

Test Data		
	Design	Actual
CFM	1120	
Fan RPM	1215	
Fan Rotation	-	
Motor RPM	-	
System SetPt	-	
RL Voltage	-	
RL Amperage	-	
Total ESP	1.150	
Fan Inlet SP	-	
Fan Discharge SP	-	

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Project: 11-07 PENN STATION - MINT HILL, NC

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: KEF2

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU33HFA	DU33HFA
Serial Num	-	
Type	-	
Configuration	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	.333	
Motor Rpm	1360	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	Actual
CFM	700	
Fan RPM	1360	
Fan Rotation	-	
Motor RPM	-	1360
System SetPt	-	
RL Voltage	-	
RL Amperage	-	
Total ESP	.600	
Fan Inlet SP	-	
Fan Discharge SP	-	

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Project: 11-07 PENN STATION - MINT HILL, NC

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: KEF3

AREA:FRY

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU85HFA	DU85HFA
Serial Num	-	
Type	-	
Configuration	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	.750	
Motor Rpm	1144	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	Actual
CFM	833	
Fan RPM	1144	
Fan Rotation	-	
Motor RPM	-	
System SetPt	-	
RL Voltage	-	
RL Amperage	-	
Total ESP	1.150	
Fan Inlet SP	-	
Fan Discharge SP	-	

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Notes: