

Report By:

National TAB



Report: PRE

Function: Test, Adjust, & Balance

Date: 07/09/2025

Completed By: National TAB

PROJECT

Cincinnati Classical Academy (Blue Ash, OH)

10200 Anderson Way

Cincinnati, OH 45242

Client

Mechanical Services & Design (MSD)

4401 Springfield St

Dayton, OH 45431

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Project: Cincinnati Classical Academy (Blue Ash, OH)

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Project: Cincinnati Classical Academy (Blue Ash, OH)

System/Unit: AHU/RTU



Asset: RTU-1

AREA:FLOOR 2 AREA D

Unit Data		
	Design	Actual
MFG	NA	TRANE
Serial Num	-	
Model Num	NA	YHK240A4S0H
Configuration	-	VERTICAL
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	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	2@ 3.0	
Motor Rpm	-	1432
Phase	3	
Rated Voltage	460	
Rated Amperage	-	
Service Factor	-	

Test Data		
	Design	Actual
SF CFM	8350	
SF RPM (Initial)	-	
SF RPM	-	
RA CFM	5690	
OA CFM	2390	
RL Voltage	460	
RL Amperage	-	
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)	-	
OA Damper Position	-	
Brake Horse Power	-	

Performance Data		
	Design	Actual
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	1.323	
Fan Total SP	-	
Pre-Filter P.D.	-	
Final Filters 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)	-	

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Project: Cincinnati Classical Academy (Blue Ash, OH)

AHU/RTU



Diffuser Supply (GRD)

RTU-1/FLOOR 2 AREA D

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	244	S-1	10	300			-
SGRD2	244	S-1	10	300			-
SGRD2	244	S-1	10	300			-
SGRD4	244	S-1	10	300			-
SGRD5	243	S-1	10	300			-
SGRD6	243	S-1	10	300			-
SGRD7	243	S-1	10	300			-
SGRD8	243	S-1	10	300			-
SGRD9	CORR	S-1	8	200			-
SGRD10	STAIR	EXISTING	12X6	250			-
SGRD11	CORR	S-1	8	200			-
SGRD12	229 RR	EXISTING		150			-
SGRD13	230 RR	EXISTING		150			-
SGRD14	241	S-1	10	300			-
SGRD15	241	S-1	10	300			-
SGRD16	241	S-1	10	300			-
SGRD17	241	S-1	10	300			-
SGRD18	242	S-1	10	350			-
SGRD19	242	S-1	10	350			-
SGRD20	242	S-1	10	350			-
SGRD21	242	S-1	10	350			-
SGRD22	245	S-1	10	300			-
SGRD23	245	S-1	10	300			-
SGRD24	245	S-1	10	300			-
SGRD25	245	S-1	10	300			-
SGRD26	246	S-1	10	300			-
SGRD27	246	S-1	10	300			-
SGRD28	246	S-1	10	300			-
SGRD29	246	S-1	10	300			-
Total				8350	0	0	0%

Diffuser Ret/Exh (GRD)

RTU-1/FLOOR 2 AREA D

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
EGRD1	CORR	DUCT	58X18	5690				-
Total				5690		0	0	0%

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Project: Cincinnati Classical Academy (Blue Ash, OH)

System/Unit: AHU/RTU



Asset: RTU-A 1

AREA:FLOOR 1,2 AREA A

Unit Data		
	Design	Actual
MFG	NA	TRANE
Serial Num	-	
Model Num	NA	SFHLLF604LK67C9AD80010BZB
Configuration	-	VERTICAL
Num OA Filters 1	-	
OA Filter Size 1	-	
Num PreFilter 1	-	
PreFilter Size 1	-	

Test Data		
	Design	Actual
SF CFM	21000	
SF RPM	-	
RA CFM	-	
OA CFM	-	
RL Voltage	460	
RL Amperage	-	
OA Damper Position	-	
Brake Horse Power	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	40.0	
Motor Rpm	-	
Phase	3	
Rated Voltage	460	
Rated Amperage	-	
Service Factor	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	3.50	
Fan Total SP	-	
Cooling Coil P.D.	-	

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	

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Project: Cincinnati Classical Academy (Blue Ash, OH)

AHU/RTU



VAV - Single Duct

RTU-A 1/FLOOR 1,2 AREA A

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)
VAV-123	TITUS	DESV	COOLING	10	1195	1228	410	407	0	0	1364
VAV-126	TITUS	DESV	COOLING	10	1100	1112	410	421	0	0	1407
VAV-138	TITUS	DESV	COOLING	6	350	355	145	139	0	0	473
VAV-215	TITUS	DESV	COOLING	10	1000	986	410	412	0	0	1363
VAV-217	TITUS	DESV	COOLING	10	1030	1046	410	418	0	0	1438
VAV-219	TITUS	DESV	COOLING	8	550	557	175	177	0	0	912

VAV-236	TITUS	DESV	COOLING	8	650	652	175	177	0	0	927
VAV-238	TITUS	DESV	COOLING	8	650	656	175	179	0	0	859
VAVR-113	TITUS	DESV	REHEAT	10	1000	1017	280	291	380	376	1392
VAVR-114	TITUS	DESV	REHEAT	10	1000	1012	280	286	380	389	1476
VAVR-115	TITUS	DESV	REHEAT	10	1000	1002	280	288	380	397	1482
VAVR-116	TITUS	DESV	REHEAT	8	900	934	160	170	265	259	975
VAVR-119	TITUS	DESV	REHEAT	8	700		160		245		
VAVR-120	TITUS	DESV	REHEAT	6	500	447	100	97	215	221	481
VAVR-200	TITUS	DESV	REHEAT	6	450	448	100	105	215	222	425
VAVR-208	TITUS	DESV	REHEAT	10	1200	1229	280	289	425	411	1429
VAVR-209	TITUS	DESV	REHEAT	10	1200	1223	280	271	425	418	1329
VAVR-210	TITUS	DESV	REHEAT	10	1200	1232	280	290	425	431	1462
VAVR-211	TITUS	DESV	REHEAT	10	1000	996	280	274	425	433	1244
VAVR-213	TITUS	DESV	REHEAT	8	750	785	160	162	265	258	822

Diffuser Ret/Exh (GRD)

RTU-A 1/FLOOR 1,2 AREA A

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
EGRD1	FLR 2 HALL	RG	50X26	11700				-
EGRD2	FLR 1 HALL	EXISTING RG	30X60					
Total				11700		0	0	0%

Diffuser Supply (GRD)

VAV-123/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	123	S-1	8	150	135	135	90.0
SGRD2	125 RR	S-1	6	75	80	80	106.7
SGRD3	124 RR	S-1	6	75	67	67	89.3
SGRD4	127	S-1	8	150	143	143	95.3
SGRD5	123	S-1	8	150	141	141	94.0
SGRD6	122	S-1	8	125	153	153	122.4
SGRD7	140 RR	S-1	8	135	164	164	121.5
SGRD8	141 RR	S-1	8	135	200	200	148.1
SGRD9	139 RR	S-1	8	200	145	145	72.5
Total				1195	1228	1228	102.76%

VAV-126/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	126	S-1	8	200	136	205	102.5
SGRD2	126	S-1	8	200	195	195	97.5
SGRD3	126	S-1	8	200	147	198	99.0
SGRD4	126	S-1	8	150	205	138	92.0
SGRD5	126	S-1	8	200	149	211	105.5
SGRD6	126	S-1	8	150	246	165	110.0
Total				1100	1078	1112	101.09%

VAV-138/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	138	S-1	10	350	378	355	101.4
Total				350	378	355	101.43%

VAV-215/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	215	S-1	8	200	165	198	99.0
SGRD2	215	S-1	8	200	155	188	94.0
SGRD3	215	S-1	8	200	230	205	102.5
SGRD4	215	S-1	8	200	225	185	92.5
SGRD5	215	S-1	8	200	193	210	105.0
Total				1000	968	986	98.6%

VAV-217/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	217	S-1	8	150	59	161	107.3
SGRD2	217	S-1	8	150	164	155	103.3
SGRD3	217	S-1	8	150	162	147	98.0
SGRD4	217	S-1	8	150	92	153	102.0
SGRD5	216	S-1	8	115	193	118	102.6
SGRD6	218	S-1	8	115	158	121	105.2
SGRD7	CORR	S-1	8	200	228	191	95.5
Total				1030	1056	1046	101.55%

VAV-219/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	219	S-1	10	225	281	235	104.4
SGRD2	220A	S-1	8	125	146	127	101.6
SGRD3	220B	S-1	8	125	153	119	95.2
SGRD4	221	S-2	6	75	28	76	101.3
Total				550	608	557	101.27%

VAV-236/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	236	S-1	8	200	264	180	90.0
SGRD2	236	S-1	10	225	209	231	102.7
SGRD3	236	S-1	10	225	194	241	107.1
Total				650	667	652	100.31%

VAV-238/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	238	S-1	8	200	184	209	104.5
SGRD2	238	S-1	10	225	191	216	96.0
SGRD3	238	S-1	10	225	243	231	102.7
Total				650	618	656	100.92%

VAVR-113/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	113	S-1	10	300	287	305	101.7
SGRD2	113	S-1	8	200	200	205	102.5
SGRD3	113	S-1	8	200	167	186	93.0
SGRD4	113	S-1	10	300	316	321	107.0
Total				1000	970	1017	101.7%

VAVR-114/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	114	S-1	10	300	331	298	99.3
SGRD2	114	S-1	8	200	156	206	103.0
SGRD3	114	S-1	8	200	226	199	99.5
SGRD4	114	S-1	10	300	315	309	103.0
Total				1000	1028	1012	101.2%

VAVR-115/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	115	S-1	10	300	314	309	103.0
SGRD2	115	S-1	8	200	173	191	95.5
SGRD3	115	S-1	8	200	204	196	98.0
SGRD4	115	S-1	10	300	341	306	102.0
Total				1000	1032	1002	100.2%

VAVR-116/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	116	S-1	8	150	135	161	107.3
SGRD2	116	S-1	10	250	311	267	106.8
SGRD3	116	S-1	10	250	318	245	98.0
SGRD4	116	S-1	10	250	207	261	104.4
Total				900	971	934	103.78%

VAVR-119/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	119	S-1	8	125			-
SGRD2	119	S-1	8	125			-
SGRD3	119	S-1	10	225			-
SGRD4	119	S-1	10	225			-
Total				700	0	0	0%

VAVR-120/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1		EXISTING		150	121	154	102.7
SGRD2		EXISTING		300	171	293	97.7
Total				450	292	447	99.33%

VAVR-200/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1		EXISTING	8	150		159	106.0
SGRD2		EXISTING	12	300		289	96.3
Total				450	0	448	99.56%

VAVR-208/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	208	S-1	10	300		319	106.3
SGRD2	208	S-1	10	300		311	103.7
SGRD3	208	S-1	10	300		290	96.7
SGRD4	208	S-1	10	300		309	103.0
Total				1200	0	1229	102.42%

VAVR-209/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	209	S-1	10	300	297	325	108.3
SGRD2	209	S-1	10	300	309	328	109.3
SGRD3	209	S-1	10	300	253	282	94.0
SGRD4	209	S-1	10	300	259	288	96.0
Total				1200	1118	1223	101.92%

VAVR-210/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	210	S-1	10	300		324	108.0
SGRD2	210	S-1	10	300		324	108.0
SGRD3	210	S-1	10	300		276	92.0
SGRD4	210	S-1	10	300		308	102.7
Total				1200	0	1232	102.67%

VAVR-211/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	211	S-1	8	175	144	160	91.4
SGRD2	211	S-1	10	275	273	285	103.6
SGRD3	211	S-1	10	275	271	299	108.7
SGRD4	211	S-1	10	275	178	252	91.6
Total				1000	866	996	99.6%

VAVR-213/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	213	S-1	8	150	136	155	103.3
SGRD2	213	S-1	8	150	110	135	90.0
SGRD3	213	S-1	10	225	244	248	110.2
SGRD4	213	S-1	10	225	235	247	109.8
Total				750	725	785	104.67%

Asset	Notes	Date	Written By
VAV-123	Dampers for diffusers 2 and 3 were unable to locate and access. Dampers for diffuser 8 unable to locate	07/02/2025	Corey Dick

National TAB

Project: Cincinnati Classical Academy (Blue Ash, OH)

System/Unit: AHU/RTU



Asset: RTU-B 1

AREA:

Unit Data		
	Design	Actual
MFG	NA	TRANE
Serial Num	-	
Model Num	NA	GBC240A4EHA000000000
Configuration	-	VERTICAL
Num OA Filters 1	-	
OA Filter Size 1	-	
Num PreFilter 1	-	
PreFilter Size 1	-	

Test Data		
	Design	Actual
SF CFM	7850	7931
SF RPM	-	
RA CFM	5650	
OA CFM	-	
RL Voltage	460	
RL Amperage	-	
OA Damper Position	-	
Brake Horse Power	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	5.0	
Motor Rpm	-	
Phase	3	
Rated Voltage	460	
Rated Amperage	-	
Service Factor	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	1.50	
Fan Total SP	-	
Cooling Coil P.D.	-	

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: Cincinnati Classical Academy (Blue Ash, OH)

AHU/RTU



Diffuser Supply (GRD)

RTU-B 1/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	STAIRS	EXISTING	12X6	250		251	100.4
SGRD2	234 RR	EXISTING	12X6	150		149	99.3
SGRD3	233 RR	S-2	10	250		238	95.2
SGRD5	249	S-1	10	300	408	321	107.0
SGRD6	249	S-1	10	300	330	329	109.7
SGRD7	249	S-1	10	300	278	294	98.0
SGRD8	249	S-1	10	300	318	286	95.3
SGRD9	250	S-1	10	300		298	99.3
SGRD10	250	S-1	10	300		292	97.3
SGRD11	250	S-1	10	300		328	109.3
SGRD12	250	S-1	10	300		326	108.7
SGRD13	235	S-1	10	300		316	105.3
SGRD14	235	S-1	10	300		297	99.0
SGRD15	235	S-1	10	300		304	101.3
SGRD16	235	S-1	10	300		325	108.3
SGRD17	251	S-1	10	300		283	94.3
SGRD18	251	S-1	10	300		329	109.7
SGRD19	251	S-1	10	300		324	108.0
SGRD20	251	S-1	10	300		292	97.3
SGRD21	248	S-1	10	300		313	104.3
SGRD22	248	S-1	10	300		290	96.7
SGRD23	248	S-1	10	300		289	96.3
SGRD24	248	S-1	10	300		287	95.7
SGRD25	247	S-1	10	300		285	95.0
SGRD26	247	S-1	10	300		320	106.7
SGRD27	247	S-1	10	300		291	97.0
SGRD28	247	S-1	10	300		274	91.3
Total				7850	1334	7931	101.03%

Diffuser Ret/Exh (GRD)

RTU-B 1/

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
EGRD1	HALL	RG	58X18	5650				-
Total				5650		0	0	0%

National TAB

Project: Cincinnati Classical Academy (Blue Ash, OH)

System/Unit: AHU/RTU



Asset: RTU-C 1

AREA:

Unit Data		
	Design	Actual
MFG	NA	TRANE
Serial Num	-	
Model Num	NA	GBC240A4EHA000000000
Configuration	-	VERTICAL
Num OA Filters 1	-	
OA Filter Size 1	-	
Num PreFilter 1	-	
PreFilter Size 1	-	

Test Data		
	Design	Actual
SF CFM	8000	
SF RPM	-	
RA CFM	-	
OA CFM	-	
RL Voltage	460	
RL Amperage	-	
OA Damper Position	-	
Brake Horse Power	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	5.0	
Motor Rpm	-	
Phase	3	
Rated Voltage	460	
Rated Amperage	-	
Service Factor	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	1.50	
Fan Total SP	-	
Cooling Coil P.D.	-	

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: Cincinnati Classical Academy (Blue Ash, OH)

AHU/RTU



Diffuser Supply (GRD)

RTU-C 1/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	147 CAFETERIA	S-1	10	275			-
SGRD2	147 CAFETERIA	S-1	10	250			-
SGRD3	147 CAFETERIA	S-1	10	250			-
SGRD4	147 CAFETERIA	S-1	10	325			-
SGRD5	147 CAFETERIA	S-1	10	325			-
SGRD6	147 CAFETERIA	S-1	10	325			-
SGRD7	147 CAFETERIA	S-1	10	325			-
SGRD8	147 CAFETERIA	S-1	10	250			-
SGRD9	147 CAFETERIA	S-1	10	250			-
SGRD10	147 CAFETERIA	S-1	10	250			-
SGRD11	147 CAFETERIA	S-1	10	250			-
SGRD12	KITCHEN	S-1	8	175			-
SGRD13	KITCHEN	S-1	10	300			-
SGRD14	KITCHEN	S-1	10	300			-
SGRD15	KITCHEN	S-1	8	175			-
SGRD16	147 CAFETERIA	S-1	10	250			-
SGRD17	147 CAFETERIA	S-1	10	325			-
SGRD18	147 CAFETERIA	S-1	10	325			-
SGRD19	147 CAFETERIA	S-1	10	250			-
SGRD20	147 CAFETERIA	S-1	10	250			-
SGRD21	142 LOBBY	S-1	10	250			-
SGRD22	142 LOBBY	S-1	10	250			-
SGRD23	142 LOBBY	S-1	10	325			-
SGRD24	147 CAFETERIA	S-1	10	275			-
SGRD25	147 CAFETERIA	S-1	10	325			-
SGRD26	147 CAFETERIA	S-1	10	325			-
Total				7175	0	0	0%

Diffuser Ret/Exh (GRD)

RTU-C 1/

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
EGRD1	FLR 2 HALL	DAMPER	54X16	6055				-
EGRD2	137 ELEC	RG						
Total				6055		0	0	0%

National TAB

Project: Cincinnati Classical Academy (Blue Ash, OH)

System/Unit: AHU/RTU



Asset: RTU-D 1

AREA:

Unit Data		
	Design	Actual
MFG	NA	TRANE
Serial Num	-	
Model Num	NA	YSD240G4RHA00D001000
Configuration	-	VERTICAL
Num OA Filters 1	-	
OA Filter Size 1	-	
Num PreFilter 1	-	
PreFilter Size 1	-	

Test Data		
	Design	Actual
SF CFM	8000	
SF RPM	-	
RA CFM	-	
OA CFM	-	
RL Voltage	460	
RL Amperage	-	
OA Damper Position	-	
Brake Horse Power	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	5.0	
Motor Rpm	-	
Phase	3	
Rated Voltage	460	
Rated Amperage	-	
Service Factor	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	1.50	
Fan Total SP	-	
Cooling Coil P.D.	-	

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: Cincinnati Classical Academy (Blue Ash, OH)

AHU/RTU



Diffuser Supply (GRD)

RTU-D 1/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	149 NURSE	DAMPER	30X14				
SGRD2	FLR 1 CORR	S-1	8	145			-
SGRD3	135 RR	S-1	8	135			-
SGRD4	134 RR	S-1	8	135			-
SGRD5	149 NURSE	S-2	10	350			-
SGRD6	150 RR	S-2	6	75			-
SGRD7	151 WORKROOM	S-1	10	215			-
SGRD8	FLR 1 RR	S-2	6	75			-
SGRD9	FLR 1 RR	S-2	6	75			-
SGRD10	151 WORKROOM	S-1	10	215			-
SGRD11	164 OFFICE	S-1	8	125			-
SGRD12	163 OFFICE	S-1	8	145			-
SGRD13	161 OFFICE	S-1	8	145			-
SGRD14	157 OFFICE	S-1	8	145			-
SGRD15	159 OFFICE	S-1	8	145			-
SGRD16	158 OFFICE	S-1	8	145			-
SGRD17	156 OFFICE	S-1	10	425			-
SGRD18	155 OFFICE	S-1	10	425			-
SGRD19	154 OFFICE	S-1	10	425			-
SGRD20	153 OFFICE	S-1	10	275			-
SGRD21	173 OFFICE	S-1	10	275			-
SGRD22	173 OFFICE	S-1	10	275			-
SGRD23	165 RECEPTION	S-2	10	300			-
SGRD24	166 OFFICE	S-1	8	135			-
SGRD25	167 OFFICE	S-1	8	135			-
SGRD26	168 WORKROOM	S-1	8	175			-
SGRD27	168 WORKROOM	S-1	8	175			-
SGRD28	169 OFFICE	S-1	8	135			-
SGRD29	100 LOBBY						
SGRD30	100 LOBBY						
SGRD31	100 LOBBY						
SGRD32	100 LOBBY						
SGRD33	176 HM MEETING	S-1	10	275			-
SGRD34	176 HM MEETING	S-1	10	275			-
SGRD35	175 HM	S-3	10	225			-
SGRD36	175 HM	S-3	10	225			-
SGRD37	179 OFFICE	S-1	10	275			-
SGRD38	178 OFFICE	S-1	10	300			-
SGRD39	177 OFFICE	S-3	10	275			-
SGRD40	177 OFFICE	S-3	10	275			-
Total				7550	0	0	0%

Diffuser Ret/Exh (GRD)

RTU-D 1/

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
EGRD1	289 SCIENCE	DAMPER	58X18	7650				-
EGRD2	137 ELEC							
Total				7650		0	0	0%

National TAB

Project: Cincinnati Classical Academy (Blue Ash, OH)

System/Unit: AHU/RTU



Asset: RTU-E 1

AREA:FLOOR 1,2 AREA C

Unit Data		
	Design	Actual
MFG	NA	TRANE
Serial Num	-	
Model Num	NA	SFHLLF604LK67C9AD80010BZB
Configuration	-	VERTICAL
Num OA Filters 1	-	
OA Filter Size 1	-	
Num PreFilter 1	-	
PreFilter Size 1	-	

Test Data		
	Design	Actual
SF CFM	21000	
SF RPM	-	
RA CFM	-	
OA CFM	-	
RL Voltage	460	
RL Amperage	-	
OA Damper Position	-	
Brake Horse Power	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	40.0	
Motor Rpm	-	
Phase	3	
Rated Voltage	460	
Rated Amperage	-	
Service Factor	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	3.50	
Fan Total SP	-	
Cooling Coil P.D.	-	

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: Cincinnati Classical Academy (Blue Ash, OH)

AHU/RTU



VAV - Single Duct

RTU-E 1/FLOOR 1,2 AREA C

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)
VAV-103	TITUS	DESV	COOLING	10	980	1009	410	416	0	0	1564
VAV-128	TITUS	DESV	COOLING	6	470	464	145	149	0	0	470
VAV-130	TITUS	DESV	COOLING	6	300	310	145	156	0	0	473
VAV-131	TITUS	DESV	COOLING	10	1000	995	410	412	0	0	1463
VAV-200	TITUS	DESV	COOLING	6	500	519	145	151	0	0	480
VAV-201	TITUS	DESV	COOLING	10	1000	1015	410	416	0	0	1420

VAV-228	TITUS	DESV	COOLING	8	750	769	175	177	0	0	983
VAV-239	TITUS	DESV	COOLING	8	750		175				
VAV-240	TITUS	DESV	COOLING	8	650	664	175	179	0	0	942
VAVR-100	TITUS	DESV	REHEAT	6	500		100		215		
VAVR-107	TITUS	DESV	REHEAT	10	1200	1212	280	289	425	416	1483
VAVR-108	TITUS	DESV	REHEAT	10	1200	1187	280	291	425	409	1383
VAVR-109	TITUS	DESV	REHEAT	8	800	817	160	166	300	279	871
VAVR-110	TITUS	DESV	REHEAT	10	1000	1023	280	277	380	388	1323
VAVR-111	TITUS	DESV	REHEAT	10	1000	988	280	269	380	394	1407
VAVR-112	TITUS	DESV	REHEAT	10	1000	1004	280	276	380	394	1436
VAVR-202	TITUS	DESV	REHEAT	10	1400	1275	280	276	425	431	1413
VAVR-203	TITUS	DESV	REHEAT	10	1400		280		425		
VAVR-204	TITUS	DESV	REHEAT	8	800	812	160	166	265	259	796
VAVR-205	TITUS	DESV	REHEAT	10	1200	1217	160	151	425	431	1414
VAVR-206	TITUS	DESV	REHEAT	10	1200	1199	280	274	425	433	1562
VAVR-207	TITUS	DESV	REHEAT	10	1200	1213	280	290	425	413	1436

Diffuser Supply (GRD)

VAV-103/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	103	S-1	8	150	168	148	98.7
SGRD2	103	S-1	8	150	169	161	107.3
SGRD3	105	S-1	8	115	175	155	134.8
SGRD4	103	S-1	8	150	159	149	99.3
SGRD5	103	S-1	8	150	148	147	98.0
SGRD6	106	S-1	8	115	133	133	115.7
SGRD7	102	S-1	8	150	138	116	77.3
Total				980	1090	1009	102.96%

VAV-128/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	129	S-1	8	135	163	136	100.7
SGRD2	128	S-1	8	135	158	131	97.0
SGRD3	102	S-1	8	200	173	197	98.5
Total				470	494	464	98.72%

VAV-130/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	130	S-1	8	150	161	159	106.0
SGRD2	130	S-1	8	150	156	151	100.7
Total				300	317	310	103.33%

VAV-131/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	131	S-1	10	250	266	264	105.6
SGRD2	131	S-1	10	250	329	235	94.0
SGRD3	131	S-1	10	250	336	229	91.6
SGRD4	131	S-1	10	250	88	267	106.8
Total				1000	1019	995	99.5%

VAV-200/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	WOMEN RR	S-1	8	150	45	151	100.7
SGRD2	MENS RR	S-1	8	150	210	163	108.7
SGRD3	200	S-1	8	200	285	205	102.5
Total				500	540	519	103.8%

VAV-201/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	201	S-1	8	200	115	188	94.0
SGRD2	201	S-1	8	200	145	185	92.5
SGRD3	201	S-1	8	200	221	215	107.5
SGRD4	201	S-1	8	200	267	209	104.5
SGRD5	200	S-1	8	200	241	218	109.0
Total				1000	989	1015	101.5%

VAV-228/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	200 CORR	S-1	8	200	196	195	97.5
SGRD2	200 CORR	S-1	8	200	233	215	107.5
SGRD3	228	S-1	8	200	225	209	104.5
SGRD4	RR	S-2	6	75	76	73	97.3
SGRD5	RR	S-2	6	75	86	77	102.7
Total				750	816	769	102.53%

VAV-239/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	239	S-1	10	200			-
SGRD2	239	S-1	10	225			-
SGRD3	239	S-1	10	225			-
Total				650	0	0	0%

VAV-240/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	240	S-1	10	200	228	205	102.5
SGRD2	240	S-1	10	225	320	231	102.7
SGRD3	240	S-1	10	225	130	228	101.3
Total				650	678	664	102.15%

VAVR-100/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	STAIR HALL	EXISTING		150			-
SGRD2	STAIR HALL	EXISTING		300			-
Total				450	0	0	0%

VAVR-107/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	107	S-1	10	300	198	297	99.0
SGRD2	107	S-1	10	300	116	321	107.0
SGRD3	107	S-1	10	300	103	305	101.7
SGRD4	107	S-1	10	300	680	289	96.3
Total				1200	1097	1212	101%

VAVR-108/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	108	S-1	10	300	298	287	95.7
SGRD2	108	S-1	10	300	330	304	101.3
SGRD3	108	S-1	10	300	355	271	90.3
SGRD4	108	S-1	10	300	195	325	108.3
Total				1200	1178	1187	98.92%

VAVR-109/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	109	S-1	10	300	199	297	99.0
SGRD2	109	S-1	8	200	150	199	99.5
SGRD3	109	S-1	10	300	390	321	107.0
Total				800	739	817	102.12%

VAVR-110/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	110	S-1	10	300	295	330	110.0
SGRD2	110	S-1	8	200	178	193	96.5
SGRD3	110	S-1	8	200	170	189	94.5
SGRD4	110	S-1	10	300	279	311	103.7
Total				1000	922	1023	102.3%

VAVR-111/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	111	S-1	10	300	367	296	98.7
SGRD2	111	S-1	8	200	153	204	102.0
SGRD3	111	S-1	8	200	216	188	94.0
SGRD4	111	S-1	10	300	244	300	100.0
Total				1000	980	988	98.8%

VAVR-112/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	112	S-1	10	300	267	329	109.7
SGRD2	112	S-1	8	200	210	184	92.0
SGRD3	112	S-1	8	200	164	205	102.5
SGRD4	112	S-1	10	300	361	286	95.3
Total				1000	1002	1004	100.4%

VAVR-202/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	202	S-1	10	350	245	321	91.7
SGRD2	202	S-1	10	350	271	316	90.3
SGRD3	202	S-1	10	350	354	317	90.6
SGRD4	202	S-1	10	350	370	321	91.7
Total				1400	1240	1275	91.07%

VAVR-203/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	203	S-1	10	350			-
SGRD2	203	S-1	10	350			-
SGRD3	203	S-1	10	350			-
SGRD4	203	S-1	10	350			-
Total				1400	0	0	0%

VAVR-204/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	204	S-1	10	300	354	328	109.3
SGRD2	204	S-1	8	200	105	189	94.5
SGRD3	204	S-1	10	300	206	295	98.3
Total				800	665	812	101.5%

VAVR-205/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	205	S-1	10	300	487	310	103.3
SGRD2	205	S-1	10	300	485	305	101.7
SGRD3	205	S-1	10	300	348	285	95.0
SGRD4	205	S-1	10	300	432	317	105.7
Total				1200	1752	1217	101.42%

VAVR-206/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	206	S-1	10	300	194	285	95.0
SGRD2	206	S-1	10	300	240	311	103.7
SGRD3	206	S-1	10	300	404	297	99.0
SGRD4	206	S-1	10	300	360	306	102.0
Total				1200	1198	1199	99.92%

VAVR-207/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	207	S-1	10	300	234	276	92.0
SGRD2	207	S-1	10	300	450	330	110.0
SGRD3	207	S-1	10	300	475	286	95.3
SGRD4	207	S-1	10	300	589	321	107.0
Total				1200	1748	1213	101.08%

Completed By: Corey Dick on 06/26/2025

National TAB

Project: Cincinnati Classical Academy (Blue Ash, OH)

System/Unit: FAN - Exhaust



Asset: CEF-1

AREA:221 RR

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

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	44W	
Motor Rpm	1075	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	Actual
CFM	119	
Motor Frequency	-	
System SetPt	-	
RL Voltage	115	
RL Amperage	0.417	
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.375	
Brake Horse Power	-	

National TAB

Project: Cincinnati Classical Academy (Blue Ash, OH)

System/Unit: FAN - Exhaust



Asset: CEF-2

AREA:

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

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	44W	
Motor Rpm	1075	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	Actual
CFM	119	
Motor Frequency	-	
System SetPt	-	
RL Voltage	115	
RL Amperage	0.417	
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.375	
Brake Horse Power	-	

National TAB

Project: Cincinnati Classical Academy (Blue Ash, OH)

System/Unit: FAN - Exhaust



Asset: CEF-3

AREA:

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

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	44W	
Motor Rpm	1075	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	Actual
CFM	119	
Motor Frequency	-	
System SetPt	-	
RL Voltage	115	
RL Amperage	0.417	
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.375	
Brake Horse Power	-	

National TAB

Project: Cincinnati Classical Academy (Blue Ash, OH)

System/Unit: FAN - Exhaust



Asset: CEF-4

AREA:

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

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	44W	
Motor Rpm	1075	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	Actual
CFM	119	
Motor Frequency	-	
System SetPt	-	
RL Voltage	115	
RL Amperage	0.417	
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.375	
Brake Horse Power	-	

National TAB

Project: Cincinnati Classical Academy (Blue Ash, OH)

System/Unit: FAN - Exhaust



Asset: REF-1

AREA:

Unit Data		
	Design	Actual
MFG	NA	COOK
Model Num	NA	150C5B
Serial Num	-	
Type	CRE DNBLAST	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	0.50	
Motor Rpm	1725	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	
Service Factor	-	

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	

Test Data		
	Design	Actual
CFM	1650	
Fan RPM	1156	
RL Voltage	115	
RL Amperage	9.8	
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.75	
Brake Horse Power	-	

National TAB

Project: Cincinnati Classical Academy (Blue Ash, OH)

FAN - Exhaust



Diffuser Ret/Exh (GRD)

REF-1/

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
EGRD1	233 RR	E-1	8X8	225				-
EGRD2	233 RR	E-1	8X8	225				-
EGRD3	124 RR	E-1	8X8	100				-
EGRD4	125 RR	E-1	8X8	100				-
Total				650		0	0	0%

National TAB

Project: Cincinnati Classical Academy (Blue Ash, OH)

System/Unit: FAN - Exhaust



Asset: UREF-1

AREA:HOODS 1 & 2

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	DU240HFA
Serial Num	-	
Type	CRE UPBLAST	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	5.0	
Motor Rpm	1071	
Phase	3	
Voltage (rated)	460	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	Actual
CFM	5281	
Motor Frequency	-	
System SetPt	-	
RL Voltage	460	
RL Amperage	7.0	
Suction ESP	-	
Discharge ESP	-	
Total ESP	2.00	
Brake Horse Power	-	3.481

National TAB

Project: Cincinnati Classical Academy (Blue Ash, OH)

System/Unit: FAN - Supply



Asset: MAU-1

AREA:

Unit Data		
	Design	Actual
MFG	NA	ECON-AIR
Model Num	NA	EARTU3-I.400-20-12.5T-DOAS
Serial Num	-	
Type	DOAS	
Configuration	VERTICAL	
Num Filters Size 1	-	
Filter Size 1	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	3.00	
Motor Rpm	-	
Phase	3	
Voltage (rated)	460	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	Actual
CFM	4200	
SF RPM	-	
Motor Frequency	-	
SF System SetPt	-	
RL Voltage	460	
RL Amperage	-	
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.600	
Brake Horse Power	-	

National TAB

Project: Cincinnati Classical Academy (Blue Ash, OH)

System/Unit: Kitchen Hood Type I



Asset: H-1

AREA:

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	5424 ND-2-PSP-F
Job / Serial Num	-	7142471
Type	TYPE I CANOPY	
Hood length	147	
Hood Width	54	
Supply Plenum Type	-	PSP
Supply Plenum Width	18	
Supply Plenum Length	159	

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	
Filter Size 1	20X16	
Filter Size 2	-	
Filter Qty 1	9	
Filter Qty 2	-	
Filter AK factor size 1	2.08	
Filters AK factor size 2	-	
Filter Total AK Area	18.72	
Filter1 FPM	-	
Filter2 FPM	-	
Filter3 FPM	-	
Filter4 FPM	-	
Filter5 FPM	-	
Filter6 FPM	-	
Filter7 FPM	-	
Filter8 FPM	-	
Filter9 FPM	-	
Filter10 FPM	-	
Filter11 FPM	-	
Filter12 FPM	-	
Filter Ave FPM(corr)	-	
CFM	3369	

Cooking Equipment	
	Actual
Item 1	
Item 2	
Item 3	
Item 4	
Item 5	

Test Data Supply		
	Design	Actual
Total Area	19.88	
Kv factor (Vel)	0.91	
Num of Readings	-	
Reading1 FPM	-	
Reading2 FPM	-	
Reading3 FPM	-	
Reading4 FPM	-	
Reading5 FPM	-	
Reading6 FPM	-	
Reading7 FPM	-	
Reading8 FPM	-	
Reading9 FPM	-	
Reading10 FPM	-	
Reading11 FPM	-	
Reading12 FPM	-	
Reading13 FPM	-	
Reading14 FPM	-	
Ave FPM(corr)	-	
CFM	2695	

National TAB

Project: Cincinnati Classical Academy (Blue Ash, OH)

System/Unit: Kitchen Hood Type I



Asset: H-2

AREA:

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	5424 ND-2-PSP-F
Job / Serial Num	-	7142471
Type	TYPE I CANOPY	
Hood length	102	
Hood Width	54	
Supply Plenum Type	-	PSP
Supply Plenum Width	14	
Supply Plenum Length	114	

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	
Filter Size 1	20X16	
Filter Size 2	-	
Filter Qty 1	6	
Filter Qty 2	-	
Filter AK factor size 1	2.08	
Filters AK factor size 2	-	
Filter Total AK Area	12.48	
Filter1 FPM	-	
Filter2 FPM	-	
Filter3 FPM	-	
Filter4 FPM	-	
Filter5 FPM	-	
Filter6 FPM	-	
Filter7 FPM	-	
Filter8 FPM	-	
Filter9 FPM	-	
Filter10 FPM	-	
Filter11 FPM	-	
Filter12 FPM	-	
Filter Ave FPM(corr)	-	
CFM	1912	

Cooking Equipment	
	Actual
Item 1	
Item 2	
Item 3	
Item 4	
Item 5	

Test Data Supply		
	Design	Actual
Total Area	11.08	
Kv factor (Vel)	0.90	
Num of Readings	-	
Reading1 FPM	-	
Reading2 FPM	-	
Reading3 FPM	-	
Reading4 FPM	-	
Reading5 FPM	-	
Reading6 FPM	-	
Reading7 FPM	-	
Reading8 FPM	-	
Reading9 FPM	-	
Reading10 FPM	-	
Reading11 FPM	-	
Reading12 FPM	-	
Reading13 FPM	-	
Reading14 FPM	-	
Ave FPM(corr)	-	
CFM	1530	

National TAB

Project: Cincinnati Classical Academy (Blue Ash, OH)

System/Unit: Split Sys Furnace



Asset: FCU-1

AREA:

Unit Data		
	Design	Actual
MFG	NA	NA
Model Num	NA	NA
Serial Num	-	
Configuration	-	
Filter Size Size 1	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	
Motor Rpm	-	
Phase	1	
Voltage	208	
Amperage	-	

Test Data		
	Design	Actual
SF CFM	540	
Motor Speed SetPt	-	
RL Voltage	208	
RL Amperage	1.0	
RA CFM	-	
OA CFM	90	

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

National TAB

Project: Cincinnati Classical Academy (Blue Ash, OH)

System/Unit: AHU-DUAL FAN



Asset: DOAS-1

AREA:OA FOR RTU-A

UNIT DATA - SUPPLY		
	Design	Actual
Manufacturer	NA	CAPTIVEAIRE
Model Number	NA	CAS-HVAC4-1.500-22-22T-ERV
Serial Number	-	
No. Pre-Filters / Size (1)	-	
No. Pre-Filters / Size (2)	-	
No. Pre-Filters / Size (3)	-	
No. Final Filters / Size (1)	-	
No. Final Filters / Size (2)	-	
No. Final Filters / Size (3)	-	

MOTOR DATA - SUPPLY	
	Actual
Motor MFG / Frame	
Horsepower / RPM	5.00 /
Rated Volts / Phase	460 / 3
Rated Amperage / SF	

TEST DATA - SUPPLY		
	Design	Actual
Total CFM	5245	
Fan RPM	-	
VFD Speed	-	
RL Voltage	460	
RL Amperage	-	
Motor B.H.P.	-	

PERFORMANCE DATA - SUPPLY		
	Design	Actual
Static Pressure Stpt	-	
Suction S.P.	-	
Discharge S.P.	-	
Total S.P.	-	
Chilled Water Coil P.D.	-	
Pre Heat Coil P.D.	-	
Final Filters P.D.	-	
Heat Wheel P.D.	-	
Pre-Filters P.D.	-	
Total ESP	0.750	

UNIT DATA - EXHAUST/RETURN		
	Design	Actual
Manufacturer	-	CAPTIVEAIRE
Model Number	-	CAS-HVAC4-1.500-22-22T-ERV
Serial Number	-	
No. Pre-Filters / Size (1)	-	
No. Pre-Filters / Size (2)	-	
No. Pre-Filters / Size (3)	-	

MOTOR DATA - EXHAUST/RETURN	
	Actual
Motor MFG / FRAME	
Horsepower / RPM	4.80 /
Rated Volts / Phase	460 / 3
Rated Amperage / SF	

TEST DATA - EXHAUST/RETURN		
	Design	Actual
Total CFM	5245	
Fan RPM	-	
VFD Speed	-	
RL Voltage	460	
RL Amperage	-	
Motor B.H.P.	-	

PERFORMANCE DATA - EXHAUST/RETURN		
	Design	Actual
Static Pressure Stpt	-	
Suction S.P.	-	
Discharge S.P.	-	
Total S.P.	-	
Heat Wheel P.D.	-	
Pre-Filters P.D.	-	
Total ESP	0.5	

National TAB

Project: Cincinnati Classical Academy (Blue Ash, OH)

System/Unit: AHU-DUAL FAN



Asset: DOAS-2

AREA:OA FOR RTU-B, RTU-C

UNIT DATA - SUPPLY		
	Design	Actual
Manufacturer	NA	CAPTIVEAIRE
Model Number	NA	CAS-HVAC3-1.300-18-12.5T-ERV
Serial Number	-	
No. Pre-Filters / Size (1)	-	
No. Pre-Filters / Size (2)	-	
No. Pre-Filters / Size (3)	-	
No. Final Filters / Size (1)	-	
No. Final Filters / Size (2)	-	
No. Final Filters / Size (3)	-	

MOTOR DATA - SUPPLY	
	Actual
Motor MFG / Frame	
Horsepower / RPM	5.00 /
Rated Volts / Phase	460 / 3
Rated Amperage / SF	

TEST DATA - SUPPLY		
	Design	Actual
Total CFM	2860	
Fan RPM	-	
VFD Speed	-	
RL Voltage	460	
RL Amperage	-	
Motor B.H.P.	-	

PERFORMANCE DATA - SUPPLY		
	Design	Actual
Static Pressure Stpt	-	
Suction S.P.	-	
Discharge S.P.	-	
Total S.P.	-	
Chilled Water Coil P.D.	-	
Pre Heat Coil P.D.	-	
Final Filters P.D.	-	
Heat Wheel P.D.	-	
Pre-Filters P.D.	-	
Total ESP	0.750	

UNIT DATA - EXHAUST/RETURN		
	Design	Actual
Manufacturer	-	CAPTIVEAIRE
Model Number	-	CAS-HVAC3-1.300-18-12.5T-ERV
Serial Number	-	
No. Pre-Filters / Size (1)	-	
No. Pre-Filters / Size (2)	-	
No. Pre-Filters / Size (3)	-	

MOTOR DATA - EXHAUST/RETURN	
	Actual
Motor MFG / FRAME	
Horsepower / RPM	4.80 /
Rated Volts / Phase	460 / 3
Rated Amperage / SF	

TEST DATA - EXHAUST/RETURN		
	Design	Actual
Total CFM	4255	
Fan RPM	-	
VFD Speed	-	
RL Voltage	460	
RL Amperage	-	
Motor B.H.P.	-	

PERFORMANCE DATA - EXHAUST/RETURN		
	Design	Actual
Static Pressure Stpt	-	
Suction S.P.	-	
Discharge S.P.	-	
Total S.P.	-	
Heat Wheel P.D.	-	
Pre-Filters P.D.	-	
Total ESP	0.5	

National TAB

Project: Cincinnati Classical Academy (Blue Ash, OH)

AHU-DUAL FAN



Diffuser Supply (GRD)

DOAS-2/OA FOR RTU-B, RTU-C

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	TO RTU-B	DUCT	26X14	2310			-
SGRD2	TO RTU-C	DUCT	26X12	1945			-
Total				4255	0	0	0%

Diffuser Ret/Exh (GRD)

DOAS-2/OA FOR RTU-B, RTU-C

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
EGRD1	TOP OF DOAS	DAMPER	24X24	2650				-
Total				2650		0	0	0%

National TAB

Project: Cincinnati Classical Academy (Blue Ash, OH)

System/Unit: AHU-DUAL FAN



Asset: DOAS-3

AREA:OA FOR RTU-1, RTU-D

UNIT DATA - SUPPLY		
	Design	Actual
Manufacturer	NA	CAPTIVEAIRE
Model Number	NA	CAS-HVAC3-1.400-24-20T-ERV
Serial Number	-	
No. Pre-Filters / Size (1)	-	
No. Pre-Filters / Size (2)	-	
No. Pre-Filters / Size (3)	-	
No. Final Filters / Size (1)	-	
No. Final Filters / Size (2)	-	
No. Final Filters / Size (3)	-	

MOTOR DATA - SUPPLY	
	Actual
Motor MFG / Frame	
Horsepower / RPM	7.50 /
Rated Volts / Phase	460 / 3
Rated Amperage / SF	

TEST DATA - SUPPLY		
	Design	Actual
Total CFM	4255	
Fan RPM	-	
VFD Speed	-	
RL Voltage	460	
RL Amperage	-	
Motor B.H.P.	-	

PERFORMANCE DATA - SUPPLY		
	Design	Actual
Static Pressure Stpt	-	
Suction S.P.	-	
Discharge S.P.	-	
Total S.P.	-	
Chilled Water Coil P.D.	-	
Pre Heat Coil P.D.	-	
Final Filters P.D.	-	
Heat Wheel P.D.	-	
Pre-Filters P.D.	-	
Total ESP	0.750	

UNIT DATA - EXHAUST/RETURN		
	Design	Actual
Manufacturer	-	CAPTIVEAIRE
Model Number	-	CAS-HVAC3-1.400-24-20T-ERV
Serial Number	-	
No. Pre-Filters / Size (1)	-	
No. Pre-Filters / Size (2)	-	
No. Pre-Filters / Size (3)	-	

MOTOR DATA - EXHAUST/RETURN	
	Actual
Motor MFG / FRAME	
Horsepower / RPM	4.80 /
Rated Volts / Phase	460 / 3
Rated Amperage / SF	

TEST DATA - EXHAUST/RETURN		
	Design	Actual
Total CFM	2860	
Fan RPM	-	
VFD Speed	-	
RL Voltage	460	
RL Amperage	-	
Motor B.H.P.	-	

PERFORMANCE DATA - EXHAUST/RETURN		
	Design	Actual
Static Pressure Stpt	-	
Suction S.P.	-	
Discharge S.P.	-	
Total S.P.	-	
Heat Wheel P.D.	-	
Pre-Filters P.D.	-	
Total ESP	0.50	

National TAB

Project: Cincinnati Classical Academy (Blue Ash, OH)

AHU-DUAL FAN



Diffuser Supply (GRD)

DOAS-3/OA FOR RTU-1, RTU-D

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	TO RTU-D	DUCT		350			-
SGRD2	TO RTU-1	DUCT	26X14	2310			-
Total				2660	0	0	0%

Diffuser Ret/Exh (GRD)

DOAS-3/OA FOR RTU-1, RTU-D

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
EGRD1	TOP OF DOAS	DAMPER	24X24	2510				-
Total				2510		0	0	0%

National TAB

Project: Cincinnati Classical Academy (Blue Ash, OH)

System/Unit: AHU-DUAL FAN



Asset: DOAS-4

AREA:OA FOR RTU-E

UNIT DATA - SUPPLY		
	Design	Actual
Manufacturer	NA	CAPTIVEAIRE
Model Number	NA	CAS-HVAC4-1.600-30-22T-ERV
Serial Number	-	
No. Pre-Filters / Size (1)	-	
No. Pre-Filters / Size (2)	-	
No. Pre-Filters / Size (3)	-	
No. Final Filters / Size (1)	-	
No. Final Filters / Size (2)	-	
No. Final Filters / Size (3)	-	

MOTOR DATA - SUPPLY	
	Actual
Motor MFG / Frame	
Horsepower / RPM	10.00 /
Rated Volts / Phase	460 / 3
Rated Amperage / SF	

TEST DATA - SUPPLY		
	Design	Actual
Total CFM	5670	
Fan RPM	-	
VFD Speed	-	
RL Voltage	460	
RL Amperage	-	
Motor B.H.P.	-	

PERFORMANCE DATA - SUPPLY		
	Design	Actual
Static Pressure Stpt	-	
Suction S.P.	-	
Discharge S.P.	-	
Total S.P.	-	
Chilled Water Coil P.D.	-	
Pre Heat Coil P.D.	-	
Final Filters P.D.	-	
Heat Wheel P.D.	-	
Pre-Filters P.D.	-	
Total ESP	0.750	

UNIT DATA - EXHAUST/RETURN		
	Design	Actual
Manufacturer	-	CAPTIVEAIRE
Model Number	-	CAS-HVAC4-1.600-30-22T-ERV
Serial Number	-	
No. Pre-Filters / Size (1)	-	
No. Pre-Filters / Size (2)	-	
No. Pre-Filters / Size (3)	-	

MOTOR DATA - EXHAUST/RETURN	
	Actual
Motor MFG / FRAME	
Horsepower / RPM	4.80 /
Rated Volts / Phase	460 / 3
Rated Amperage / SF	

TEST DATA - EXHAUST/RETURN		
	Design	Actual
Total CFM	5670	
Fan RPM	-	
VFD Speed	-	
RL Voltage	460	
RL Amperage	-	
Motor B.H.P.	-	

PERFORMANCE DATA - EXHAUST/RETURN		
	Design	Actual
Static Pressure Stpt	-	
Suction S.P.	-	
Discharge S.P.	-	
Total S.P.	-	
Heat Wheel P.D.	-	
Pre-Filters P.D.	-	
Total ESP	0.50	