Report By:

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

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

National TAB

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	-	

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	-	

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

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	300	304	101.3
SGRD2	244	S-1	10	300	363	289	96.3
SGRD2	244	S-1	10	300	272	298	99.3
SGRD4	244	S-1	10	300	308	292	97.3
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	274	296	98.7
SGRD23	245	S-1	10	300	331	318	106.0
SGRD24	245	S-1	10	300	427	324	108.0
SGRD25	245	S-1	10	300	315	323	107.7
SGRD26	246	S-1	10	300	310	299	99.7
SGRD27	246	S-1	10	300	349	305	101.7
SGRD28	246	S-1	10	300	310	325	108.3
SGRD29	246	S-1	10	300	432	319	106.3
Total				8350	3991	3692	44.22%

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%

National TAB

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	SFHLF604LK67C9AD80010BZB
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	

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%

Completed By: Nick Payne on 07/02/2025

Asset	Notes	Date	Written By
VAV-123	Dampers for diffusers 2 and 3 were unable to locate and access. Dampers for diffuser 8 unable t o 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	

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	SFHLF604LK67C9AD80010BZB
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	

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-I.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-I.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-I.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-I.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-I.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-I.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	

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-I.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-I.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	