

# National TAB

Project: UC Pharmacy Relo PH1 (Cincinnati, OH)

## VAV - Single Duct



**AIR VALVES/**

Asset						
Asset Name	Type	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
V-11-GPH1	VAV	515	499	515	499	680

Completed By: Riley Frady on 08/20/2024

**Diffuser Supply (GRD)**

**V-11-GPH1/COORDINATORS**

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-1	G962	A10	8	170	218	163	95.9
1-2	G961	A10	8	170	198	175	102.9
1-3	G960	A10	8	175	169	161	92.0
Total				515	585	499	96.89%

# National TAB

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Asset						
Asset Name	Type	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
V-11-GPH2	VAV	200	219	200	219	680

Completed By: Riley Frady on 08/20/2024

**Diffuser Supply (GRD)**

**V-11-GPH2/OFFICE**

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-1	G963	A10	8	100	118	110	110.0
2-2	G964	A10	8	100	126	109	109.0
Total				200	244	219	109.5%

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Asset						
Asset Name	Type	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
V-11-GPH3	VAV	1300	1325	1300	325	720

Completed By: Riley Frady on 08/20/2024

**Diffuser Supply (GRD)**

**V-11-GPH3/G968**

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3-1	G966	A10	12	100	122	109	109.0
3-2	G961	A10	12	200	269	207	103.5
3-3	G965	A10	12	200	36	210	105.0
3-4	G961	A10	12	200	297	215	107.5
3-5	G961	A10	12	200	319	211	105.5
3-6	HALL	A10	12	200	278	187	93.5
3-7	HALL	A10	12	200	182	186	93.0
Total				1300	1503	1325	101.92%

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Asset						
Asset Name	Type	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
V-11-GPH4	VAV	2355	2270	2350	2270	2260

Asset	Notes	Date	Written By
V-11-GPH4	No damper on 4-2 at top of duct, unable to finish device balance	08/20/2024	Riley Frady

**Diffuser Supply (GRD)**

**V-11-GPH4/PHARMACY-1**

Asset							
Asset Name	Location	Type	Size	Design CFM	Max CFM (1)	Min CFM	% to design
4-1	G961	A10	14	245	282	240	98.0
4-2	G967	A10	14	150	202	178	8.7
4-3	G961	A10	14	245	314	225	91.8
4-4	G961	A10	14	245	233	206	84.1
4-5	G961	A10	14	245	321	233	95.1
4-6	G961	A10	14	245	259	278	113.5
4-7	HALL	A10	14	245	258	233	95.1
4-8	HALL	A10	14	245	280	259	105.7
4-9	HALL	A10	14	245	239	224	91.4
4-10	G969	A10	14	245	223	194	79.2
Total				2355	2611	2270	96.39%

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**AIR VALVES/**

Asset						
Asset Name	Type	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
V-11-GPH5	VAV	350	358	350	358	676

Completed By: Riley Frady on 08/20/2024

**Diffuser Supply (GRD)**

**V-11-GPH5/PHARMACY-1**

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% difference
5-1	G968	A10	8	175	185	167	95.4
5-2	G969	A10	8	175	216	191	109.1
Total				350	401	358	102.29%

# National TAB

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**AIR VALVES/**

Asset						
Asset Name	Type	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
V-11-GPH1R 1	VAV	2405	2402	1865	2402	1530

Completed By: Riley Frady on 08/20/2024

**Diffuser Ret/Exh (GRD)**

**V-11-GPH1R 1/PHARMACY-1**

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
1R1-1	J10	14	1000		740		1037	103.7
1R1-2	J10	8	100		137		99	99.0
1R1-3	J10	8	100		126		105	105.0
1R1-4	J10	14	865		579		801	92.6
1R1-5	J10	10	340		270		360	105.9
Total			2405		1852	0	2402	99.88%

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**AIR VALVES/**

Asset						
Asset Name	Type	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
V-11-GPH4R 1	VAV	2550	2499	2550	2463	2700

**Diffuser Ret/Exh (GRD)**

**V-11-GPH4R 1/G961-1**

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R4R-1	J10	12	550		541		582	105.8
R4R-2	J10	14	1000		846		915	91.5
R4R-3	J10	14	1000		984		1002	100.2
Total			2550		2371	0	2499	98%

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**Circuit Setter**

**HW CS/**

Asset							
Asset Name	Size	Type	Design GPM	Setting	Delta P	Final GPM	% to Design
CS-1	0.75	AUTOFLOW	0.4	2-32 PSI	5.5	0.4	100.0
CS-2	0.75	AUTOFLOW	1.1	2-32 PSI	6.2	1.1	100.0
CS-3	1	AUTOFLOW	2.6	2-32 PSI	5.8	2.6	100.0
CS-4	1	AUTOFLOW	4.6	2-32 PSI	5.2	4.6	100.0
CS-5	0.75	AUTOFLOW	0.7	2-32 PSI	5.1	0.7	100.0
Total			9.4			9.4	100%