

Report By:

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



Report: BHHC Office (Plano, TX) TAB REPORT

Function: Test, Adjust, & Balance

Date: 02/14/2025

Completed By: National TAB

PROJECT
BHHC Office (Plano, TX)

6105 Tennyson Parkway

Plano, TX 75024

Client

Pacific Builders

7950 Legacy Dr.

Suite 150

Plano, TX 75024

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Project: BHHC Office (Plano, TX)

Table Of Contents

Section	Page #
VAV-Fan Powered Box	3
VAV - Single Duct	9

National TAB

Project: BHHC Office (Plano, TX)

VAV-Fan Powered Box



FPB/

Asset										
Asset Name	Service	Type	Inlet Size	Design Max Cool CFM	Max Cool CFM	Design Min Cool CFM	Min Cool CFM	Design Fan CFM (Heat)	Fan CFM (Heat)	Ak (max)
(E)FPB-1	20	REHEAT	12	1545	1554	386	382	1081	1037	2.38

Completed By: Bayley Morvant on 10/17/2024

Diffuser Supply (GRD)

(E)FPB-1/113

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	113	S2	12X8	175	172	172	98.3
SGRD2	113	S2	12X8	110	101	101	91.8
SGRD3	113	S2	12X8	175	183	183	104.6
SGRD4	113	S2	12X8	175	161	161	92.0
SGRD5	113	S2	12X8	230	241	241	104.8
SGRD6	113	S2	12X8	230	229	229	99.6
SGRD7	113	S2	12X8	110	119	119	108.2
SGRD8	113	S2	12X8	230	236	236	102.6
SGRD9	113	S2	12X8	110	112	112	101.8
Total				1545	1554	1554	100.58%

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Project: BHHC Office (Plano, TX)

VAV-Fan Powered Box



FPB/

Asset										
Asset Name	Service	Type	Inlet Size	Design Max Cool CFM	Max Cool CFM	Design Min Cool CFM	Min Cool CFM	Design Fan CFM (Heat)	Fan CFM (Heat)	Ak (max)
(E)FPB-2	18	REHEAT	12	1650	1643	412	410	1155	1115	2.49

Completed By: Bayley Morvant on 10/17/2024

Diffuser Supply (GRD)

(E)FPB-2/118

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	113	S2	12X8	1750.98	182	186	10.6
SGRD2	114	S2	12X8	175	175	179	102.3
SGRD3	114	S2	12X8	200	206	211	105.5
SGRD4	114	S2	12X8	175	160	164	93.7
SGRD5	118	S2	12X8	175	173	177	101.1
SGRD6	118	S2	12X8	200	186	190	95.0
SGRD7	118	S2	12X8	175	174	182	104.0
SGRD8	118	S2	12X8	200	189	193	96.5
SGRD9	118	S2	12X8	175	157	161	92.0
Total				3225.98	1602	1643	50.93%

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Project: BHHC Office (Plano, TX)

VAV-Fan Powered Box



FPB/

Asset										
Asset Name	Service	Type	Inlet Size	Design Max Cool CFM	Max Cool CFM	Design Min Cool CFM	Min Cool CFM	Design Fan CFM (Heat)	Fan CFM (Heat)	Ak (max)
(E)FPB-3	21	REHEAT	12	1810	1502	452	432	1267	1173	3.86

Completed By: Bayley Morvant on 10/17/2024

Asset	Notes	Date	Written By
(E)FPB-3	ORIGINAL BOX DESIGN IS 1580 CFM, HOWEVER, DIFFUSER TOTAL EQUALS 1810 CFM. BOX WAS BALANCED AND CALIBRATED BASED ON DIFFUSER TOTAL. UNIT DAMPER IS 100% OPEN. BOX IS ONLY 12" PRIMARY AIR INLET. UNIT WAS BALANCED PROPORTIONATELY AT 82% OF DESIGN.	10/17/2024	Bayley Morvant

Diffuser Supply (GRD)

(E)FPB-3/112

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	112	R2	12X8	220	190	190	86.4
SGRD2	112.	S2	12X8	230	177	177	77.0
SGRD3	112	S2	12X8	230	179	179	77.8
SGRD4	112	R2	12X8	220	194	194	88.2
SGRD5	113	S2	12X8	230	189	189	82.2
SGRD6	113	S2	12X8	220	192	192	87.3
SGRD7	109	S3	10	230	185	185	80.4
SGRD8	109	S3	10	230	196	196	85.2
Total				1810	1502	1502	82.98%

National TAB

Project: BHHC Office (Plano, TX)

VAV-Fan Powered Box



FPB/

Asset										
Asset Name	Service	Type	Inlet Size	Design Max Cool CFM	Max Cool CFM	Design Min Cool CFM	Min Cool CFM	Design Fan CFM (Heat)	Fan CFM (Heat)	Ak (max)
(E)FPB-4	14	REHEAT	12	1580	1616	395	388	1106	1197	2.09

Completed By: Bayley Morvant on 10/17/2024

Diffuser Supply (GRD)

(E)FPB-4/108

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	108	S2	12X8	230	250	2361716	1026833.0
SGRD2	108	S2	12X8	330	345	326	98.8
SGRD3	108	S2	12X8	230	265	250	108.7
SGRD4	108	S2	12X8	230	239	226	98.3
SGRD5	108	S2	12X8	330	366	346	104.8
SGRD6	108	S2	12X8	230	245	232	100.9
Total				1580	1710	2363096	149563.04%

National TAB

Project: BHHC Office (Plano, TX)

VAV-Fan Powered Box



FPB/

Asset										
Asset Name	Service	Type	Inlet Size	Design Max Cool CFM	Max Cool CFM	Design Min Cool CFM	Min Cool CFM	Design Fan CFM (Heat)	Fan CFM (Heat)	Ak (max)
(E)FPB-5	25	REHEAT	12	1420	1432	355	357	994	1023	1.34

Completed By: Bayley Morvant on 02/07/2025

Diffuser Supply (GRD)

(E)FPB-5/108

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	108	S2	12X8	240	283	246	102.5
SGRD2	108	S2	12X8	240	261	227	94.6
SGRD3	108	S2	12X8	230	265	231	100.4
SGRD4	108	S2	12X8	230	276	240	104.3
SGRD5	108	S2	12X8	240	262	228	95.0
SGRD6	108	S2	12X8	240	299	260	108.3
Total				1420	1646	1432	100.85%

National TAB

Project: BHHC Office (Plano, TX)

VAV-Fan Powered Box



FPB/

Asset										
Asset Name	Service	Type	Inlet Size	Design Max Cool CFM	Max Cool CFM	Design Min Cool CFM	Min Cool CFM	Design Fan CFM (Heat)	Fan CFM (Heat)	Ak (max)
(E)FPB-6	36	REHEAT	14"	980	1035	245	241	686	690	1.94

Completed By: Bayley Morvant on 02/07/2025

Asset	Notes	Date	Written By
(E)FPB-6	BOX SERVES OTHER SPACE AS WELL. DRAWINGS DO NOT SHOW WHAT OTHER DIFFUSERS ARE DESIGNED TO, ONLY SHOWS WHAT BOX TOTAL SHOULD BE. BOX WAS CALIBRATED AND BALANCED USING THE BOX TOTAL SHOW ON DRAWINGS.	10/16/2024	Bayley Morvant

Diffuser Supply (GRD)

(E)FPB-6/107

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	105	S1	8	130	221	122	93.8
SGRD2	106	S1	8	130	34	118	90.8
SGRD3	107	S1	8	130	28	120	92.3
Total				390	283	360	92.31%

National TAB

Project: BHHC Office (Plano, TX)

VAV - Single Duct



VAV/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
(E)VAV-1	COOLING	8	1150	1122	288	291	2.99

Completed By: Bayley Morvant on 10/16/2024

Asset	Notes	Date	Written By
(E)VAV-1	SERVICE: 44	10/16/2024	Bayley Morvant

Diffuser Supply (GRD)

(E)VAV-1/116

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	HALL	S3	8	100	38	98	98.0
SGRD2	116	S1	8	150	0	157	104.7
SGRD3	113	S1	8	100	0	98	98.0
SGRD4	119	S1	10	300	0	277	92.3
SGRD5	113	S2	12X8	125	297	117	93.6
SGRD6	113	S2	12X8	125	297	129	103.2
SGRD7	113	S2	12X8	125	297	133	106.4
SGRD8	113	S2	12X8	125	297	113	90.4
Total				1150	1226	1122	97.57%

National TAB

Project: BHHC Office (Plano, TX)

VAV - Single Duct



VAV/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
(E)VAV-2	COOLING	8	900	869	225	219	2.62

Completed By: Bayley Morvant on 10/16/2024

Asset	Notes	Date	Written By
(E)VAV-2	SERVICE: 49 DIFFUSER TOTAL EQUATES TO MORE THAN SCHEDULE DESIGN. UNIT WAS BALANCED TO DIFFUSER TOTAL.	10/15/2024	Bayley Morvant

Diffuser Supply (GRD)

(E)VAV-2/118

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	118	S3	10	200	50	183	91.5
SGRD2	118	S3	10	200	164	209	104.5
SGRD3	118	S3	10	200	230	194	97.0
SGRD4	118	S3	10	200	174	187	93.5
SGRD5	HALL	S1	8	100	353	96	96.0
Total				900	971	869	96.56%

National TAB

Project: BHHC Office (Plano, TX)

VAV - Single Duct



VAV/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
(E)VAV-3	COOLING	8	660	673	165	155	3.61

Completed By: Bayley Morvant on 10/16/2024

Asset	Notes	Date	Written By
(E)VAV-3	SERVICE: 42	10/16/2024	Bayley Morvant

Diffuser Supply (GRD)

(E)VAV-3/108

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	108	S2	12X8	165	139	181	109.7
SGRD2	108	S2	12X8	165	115	150	90.9
SGRD3	108	S2	12X8	165	128	167	101.2
SGRD4	108	S2	12X8	165	134	175	106.1
Total				660	516	673	101.97%

National TAB

Project: BHHC Office (Plano, TX)

VAV - Single Duct



VAV/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
(E)VAV-4	COOLING	8	500	487	125	134	2.62

Completed By: Bayley Morvant on 10/15/2024

Asset	Notes	Date	Written By
(E)VAV-4	SERVICE: 32	10/15/2024	Bayley Morvant

Diffuser Supply (GRD)

(E)VAV-4/122

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	121	S1	8	150	39	161	107.3
SGRD2	110	S1	6	50	167	50	100.0
SGRD3	HALL	S1	8	100	37	90	90.0
SGRD4	111	S1	6	50	108	49	98.0
SGRD5	122	S1	8	150	80	137	91.3
Total				500	431	487	97.4%

National TAB

Project: BHHC Office (Plano, TX)

VAV - Single Duct



VAV/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
(E)VAV-5	COOLING	8	730	763	183	176	3.38

Completed By: Bayley Morvant on 10/16/2024

Asset	Notes	Date	Written By
(E)VAV-5	SERVICE: 24	10/16/2024	Bayley Morvant

Diffuser Supply (GRD)

(E)VAV-5/108

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	108	S2	12X8	230	185	240	104.3
SGRD2	108	S2	12X8	230	194	252	109.6
SGRD3	104	S1	8	150	112	146	97.3
SGRD4	103	S1	8	120	123	125	104.2
Total				730	614	763	104.52%

National TAB

Project: BHHC Office (Plano, TX)

VAV - Single Duct



VAV/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
VV-1-13	COOL	6	300	299	75	72	6.60

Completed By: Bayley Morvant on 10/15/2024

Asset	Notes	Date	Written By
VV-1-13	SERVICE:15	10/15/2024	Bayley Morvant

Diffuser Supply (GRD)

VV-1-13/117

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	117	S1	10	300	166	299	99.7
Total				300	166	299	99.67%

National TAB

Project: BHHC Office (Plano, TX)

VAV - Single Duct



VAV/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
VV-1-14	COOL	6	275	274	75	77	6.10

Completed By: Bayley Morvant on 10/15/2024

Asset	Notes	Date	Written By
VV-1-14	SERVICE: 16	10/15/2024	Bayley Morvant

Diffuser Supply (GRD)

VV-1-14/120

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	120	S1	10	275	158	274	99.6
Total				275	158	274	99.64%

National TAB

Project: BHHC Office (Plano, TX)

VAV - Single Duct



VAV/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
VV-1-15	COOL	6	350	346	75	77	6.17

Completed By: Bayley Morvant on 10/15/2024

Asset	Notes	Date	Written By
VV-1-15	SERVICE: 17	10/15/2024	Bayley Morvant

Diffuser Supply (GRD)

VV-1-15/123

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	123	S1	10	350	198	346	98.9
Total				350	198	346	98.86%

National TAB

Project: BHHC Office (Plano, TX)

VAV - Single Duct



VAV/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
VV-1-16	COOL	6	385	401	75	72	7.45

Completed By: Bayley Morvant on 10/15/2024

Asset	Notes	Date	Written By
VV-1-16	SERVICE: 19	10/15/2024	Bayley Morvant

Diffuser Supply (GRD)

VV-1-16/124

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	124	S1	8	225	92	235	104.4
SGRD2	101	S3	6	60	77	64	106.7
SGRD3	108	S1	8	100	49	102	102.0
Total				385	218	401	104.16%

National TAB

Project: BHHC Office (Plano, TX)

VAV - Single Duct



VAV/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
VV-1-17	COOL	6	300	304	75	77	7.68

Completed By: Bayley Morvant on 10/15/2024

Asset	Notes	Date	Written By
VV-1-17	SERVICE: 22	10/15/2024	Bayley Morvant

Diffuser Supply (GRD)

VV-1-17/102

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	102	S1	10	300	154	304	101.3
Total				300	154	304	101.33%