



National TAB

Project: CW 2999 - Verily Floor 9
Address: 2999 Olympus Blvd Dallas, TX

Asset: SCU-9-1

Area: FLOOR 9

Unit Data	
Manufacturer	DAIKIN
Model Number	SWP099HLH
Serial Number	FBOU210601682
Configuration	HORIZONTAL
No. Pre Filters / Size	
No. Pre Filters / Size	
No. Pre Filters / Size	
No. Final Filters / Size	20 / 24X24X2
No. Final Filters / Size	
No. Final Filters / Size	

Motor Data	
Motor MFG / Frame	BALDOR
Horsepower / RPM	50 / 1775
Rated Volts / Phase	460 / 3
Rated Amperage / SF	57.0

Drive Data	
	Actual
Motor Sheave Size	2B5V94
Motor Bore Size	2.125"
Fan Sheave Size	2B5V160
Fan Bore Size	2.4375"
Belt CL Distance	50"
No of Belts	2
Belt Size	5VX1400

Test Data		
	Design	Actual
Total CFM	32000 [1]	29587
Fan RPM	1014	[3]
RA CFM	28000	
OA CFM	4000	
Operating HZ		54.7
RL Voltage	460	453/451/451
RL Amperage	57.0	48.1/47.8/45.8
Motor B.H.P.		

Performance Data		
	Design	Actual
Suction S.P.		-0.16
Discharge S.P.		3.06
Total SP	4.21	3.22
CW Coil P.D.		-0.87
HW Coil P.D.		
Final Filters P.D.		-0.21
Heat Wheel P.D.		
Pre Filters P.D.		
Total ESP	3.00	2.14

NOTES:

- [1] UNIT IS DESIGNED FOR 32000 CFM, HOWEVER BOX TOTAL FOR THE FLOOR EQUATES 31240 CFM.
- [2] UNIT STAT PRESSURE WAS SET TO 2.0 S.P. DURING TESTING TO ACHIEVE AIRFLOW.
- [3] UNABLE TO OBTAIN OPERATING RPM.



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Asset: VAV SGRD's

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
V9-3-1	928	I	10X10	335	151	311	0.93
V9-3-2	928	I	10X10	335	319	303	0.90
V9-3-3	928	I	10X10	335	270	309	0.92
VAV-9-3				1005	740	923	0.92
V9-4-1	910	A	8	50	38	46	0.92
V9-4-2	909	A	8	50	41	51	1.02
V9-4-3	908	A	8	100	35	98	0.98
VAV-9-4				200	114	195	0.98
V9-5-1	COFFEE AREA	C1	8	100	53	106	1.06
V9-5-2	COFFEE AREA	C1	8	100	66	104	1.04
V9-5-3	935	A	8	50	90	49	0.98
VAV-9-5				250	209	259	1.04
V9-6-1	953	A	8	200	185	195	0.98
V9-6-2	953	A	8	200	234	196	0.98
V9-6-3	953	A	8	200	166	192	0.96
V9-6-4	953	A	8	200	158	182	0.91
V9-6-5	953	A	8	200	235	198	0.99
V9-6-6	953	A	8	200	215	199	1.00
VAV-9-6				1200	1193	1162	0.97
V9-7-1	937	A	8	100	85	93	0.93
V9-7-2	936	A	8	100	104	98	0.98
VAV-9-7				200	189	191	0.96
V9-8-1	943	I	14"X6"	400	516	393	0.98
V9-8-2	943	I	14"X6"	400	540	406	1.02
V9-8-3	943	A	8	200	102	196	0.98
V9-8-4	943	A	8	200	123	214	1.07
V9-8-5	943	A	8	200	100	198	0.99
VAV-9-8				1400	1381	1407	1.01
V9-9-1	950	A	8	50	154	54	1.08
V9-9-2	949	A	8	75	82	71	0.95
V9-9-3	948	A	8	155	133	146	0.94
V9-9-4	947	A	8	155	80	150	0.97
VAV-9-9				435	449	421	0.97



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Project: CW 2999 - Verily Floor 9
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Asset: SCU-9-1 Fan Powered Boxes

Asset	Area Served	Address	Type	Size	Design Max CFM	Actual Max CFM	Design Min CFM	Min CFM	Design Fan + Heat CFM	Actual Fan + Heat CFM	Ak (max)
FPB-9-1	926	FPB-9N-4	REHEAT	12	1440	1467	288	289	1008	1025	2483
FPB-9-2	926	FPB-9N-5	REHEAT	10	860	872	172	181	602	610	1311
FPB-9-3	926	FPB-9N-6	REHEAT	12	1000	970	200	197	700	696	1441
FPB-9-4	926	FPB-9N-7	REHEAT	12	1430	1369	286	296	1001	945	2051
FPB-9-5	931	FPB-9N-8	REHEAT	12	1025	1023	205	198	718	721	2208
FPB-9-6	901 HALL	FPB-9N-10	REHEAT	12	1080	1051	216	213	756	764	1977
FPB-9-7	953	FPB-9S-14	REHEAT	10	720	759	144	146	504	547	1109
FPB-9-8	953	FPB-9S-15	REHEAT	10	850	801	170	171	595	570	1124
FPB-9-9	938	FPB-9S-16	REHEAT	10	660	677	132	136	462	480	1487
FPB-9-10	939	FPB-9S-17	REHEAT	10	800	810	160	159	560	589	1267
FPB-9-11	943	FPB-9S-18	REHEAT	12	1040	1079	208	213	728	751	1498
FPB-9-12	943	FPB-9S-19	REHEAT	12	1040	908	208	206	728	662	1539 [2]
FPB-9-13	943	FPB-9S-20	REHEAT	12	1030	1027	206	207	721	733	1833
FPB-9-14	944	FPB-9S-22	REHEAT	10	730	665	146	140	511	472	988
FPB-9-15	902 HALL	FPB-9S-25	REHEAT	8	540	459	108	105	378	343	605 [1]
FPB-9-16	912	FPB-9N-26	REHEAT	10	640	622	128	125	448	439	1100
FPB-9-17	913	FPB-9S-28	REHEAT	8	440	437	88	81	308	317	659
FPB-9-18	916	FPB-9N-29	REHEAT	8	510	507	102	98	357	361	744
FPB-9-19	917	FPB-9N-32	REHEAT	12	1400	1358	280	276	980	954	1583
FPB-9-20	925	FPB-9N-35	REHEAT	12	1275	1208	255	246	893	856	1232
FPB-9-21	925	FPB-9N-37	REHEAT	12	770	774	154	151	539	546	1170
FPB-9-22	925	FPB-9N-38	REHEAT	10	900	572	180	176	630	571	1656 [3]
					20180	19415	4036	4010	14126	13952	

NOTES:

- [1] FPB-9-15: UNABLE TO ACHIEVE DESIGN AIRFLOW. UNIT IS BALANCED PROPORTIONALATELY AT 85% OF DESIGN.
- [2] FPB-9-12: UNABLE TO ACHIEVE DESIGN AIRFLOW. UNIT IS BALANCED PROPORTIONALATELY AT 87% OF DESIGN.
- [3] FPB-22: UNABLE TO ACHIEVE DESIGN AIRFLOW. ACCESSIBLE DAMPERS WERE VERIFIED TO BE 100% OPEN.



Comfort. Under control.

National TAB

Project: CW 2999 - Verily Floor 9
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Asset: SGRD's

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
F9-6-1	901 HALL	C	10	180	189	174	0.97
F9-6-2	901 HALL	C	10	180	168	164	0.91
F9-6-3	953 HALL	C	10	180	179	176	0.98
F9-6-4	953 HALL	C	10	180	194	184	1.02
F9-6-5	953 HALL	C	10	180	153	167	0.93
F9-6-6	953 HALL	C	10	180	223	186	1.03
FPB-9-6				1080	1106	1051	0.97
F9-7-1	953	C	10	180	183	194	1.08
F9-7-2	953	C	10	180	166	186	1.03
F9-7-3	953	C	10	180	201	196	1.09
F9-7-4	953	C	10	180	166	183	1.02
FPB-9-7				720	716	759	1.05
F9-8-1	953	C	10	180	138	164	0.91
F9-8-2	953	C	10	180	175	176	0.98
F9-8-3	953	C	10	245	171	227	0.93
F9-8-4	953	C	10	245	164	234	0.96
FPB-9-8				850	648	801	0.94
F9-9-1	938	C	10	165	131	165	1.00
F9-9-2	938	C	10	165	174	176	1.07
F9-9-3	938	C	10	165	158	175	1.06
F9-9-4	938	C	10	165	141	161	0.98
FPB-9-9				660	604	677	1.03
F9-10-1	938	C1	8	90	124	91	1.01
F9-10-2	939	C1	8	90	83	92	1.02
F9-10-3	939	C1	8	90	107	96	1.07
F9-10-4	941	C	10	180	126	190	1.06
F9-10-5	942	C	10	260	169	253	0.97
F9-10-6	942	C1	8	90	91	88	0.98
FPB-9-10				800	700	810	1.01
F9-11-1	943	C1	10	260	136	254	0.98
F9-11-2	943	C1	10	260	182	267	1.03
F9-11-3	943	C1	10	260	190	276	1.06
F9-11-4	943	C1	10	260	172	282	1.08
FPB-9-11				1040	680	1079	1.04



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Asset: SGRD's

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
F9-12-1	943	C	10	200	115	173	0.87
F9-12-2	943	C	10	200	124	174	0.87
F9-12-3	943	C	10	150	53	134	0.89
F9-12-4	943	C	10	150	85	129	0.86
F9-12-5	943	C	10	170	60	146	0.86
F9-12-6	943	C	10	170	43	152	0.89
FPB-9-12				1040	480	908	[2]
F9-13-1	943	C1	10	170	85	164	0.96
F9-13-2	943	C1	10	170	83	157	0.92
F9-13-3	943	C1	10	90	98	95	1.06
F9-13-4	944	C1	10	90	75	91	1.01
F9-13-5	944	C1	10	170	110	169	0.99
F9-13-6	945	C1	10	170	129	179	1.05
F9-13-7	945	C1	10	170	128	172	1.01
FPB-9-13				1030	708	1027	1.00
F9-14-1	944	A	8	100	122	92	0.92
F9-14-2	944	C	10	170	136	156	0.92
F9-14-3	944	C	10	230	150	206	0.90
F9-14-4	944	C	10	230	130	211	0.92
FPB-9-14				730	538	665	0.91
F9-15-1	902 HALL	C	10	180	112	162	0.90
F9-15-2	902 HALL	C	10	180	112	150	0.83
F9-15-3	902 HALL	C	10	180	116	147	0.82
FPB-9-15				540	340	459	[1]
F9-16-1	912	C	10	200	91	182	0.91
F9-16-2	912	C	10	170	210	176	1.04
F9-16-3	912	A	8	100	283	109	1.09
F9-16-4	912	C	10	170	85	155	0.91
FPB-9-16				640	669	622	0.97
F9-17-1	913	C	10	170	87	158	0.93
F9-17-2	913	A	8	100	113	95	0.95
F9-17-3	913	C	10	170	94	184	1.08
FPB-9-17				440	294	437	0.99

NOTES:

[1] FPB-9-15: UNABLE TO ACHIEVE DESIGN AIRFLOW. UNIT IS BALANCED PROPORTIONALATELY AT 85% OF DESIGN.

[2] FPB-9-12: UNABLE TO ACHIEVE DESIGN AIRFLOW. UNIT IS BALANCED PROPORTIONALATELY AT 87% OF DESIGN.



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Asset: SGRD's

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
F9-18-1	94	C	10	170	130	174	1.02
F9-18-2	915	C	10	170	164	164	0.96
F9-18-3	916	C	10	170	157	169	0.99
FPB-9-18				510	451	507	0.99
F9-19-1	917	C	10	255	262	247	0.97
F9-19-2	917	C	10	255	219	254	1.00
F9-19-3	917	C	10	255	117	239	0.94
F9-19-4	917	C	10	255	109	251	0.98
F9-19-5	917	C	10	125	102	122	0.98
F9-19-6	917	C	10	255	128	245	0.96
FPB-9-19				1400	937	1358	0.97
F9-20-1	925	C	10	255	150	230	0.90
F9-20-2	925	C	10	255	180	259	1.02
F9-20-3	925	C	10	255	126	235	0.92
F9-20-4	925	C	10	255	146	231	0.91
F9-20-5	925	C	10	255	189	253	0.99
FPB-9-20				1275	791	1208	0.95
F9-21-1	925	C1	10	130	177	136	1.05
F9-21-2	925	C1	10	130	221	140	1.08
F9-21-3	925	C1	10	170	220	160	0.94
F9-21-4	925	C1	10	170	248	184	1.08
F9-21-5	925	C1	10	170	74	154	0.91
FPB-9-21				770	940	774	1.01
F9-22-1	925	C	10	150	46	56	0.37
F9-22-2	925	C	10	150	33	30	0.20
F9-22-3	925	C	10	150	72	107	0.71
F9-22-4	925	C	10	150	72	114	0.76
F9-22-5	925	C	10	150	76	115	0.77
F9-22-6	925	C	10	150	81	150	1.00
FPB-9-22				900	380	572	[1]

NOTES:

[1] FPB-22: UNABLE TO ACHIEVE DESIGN AIRFLOW. ACCESSIBLE DAMPERS WERE VERIFIED TO BE 100% OPEN.

NO ACCESS TO DUCT WORK TO VERIFY NO EXTRA DAMPERS OR OTHER ISSUES ARE THERE.

DIFFUSERS WERE LEFT AS IS TO MAINTAIN MAXIMUM AIRFLOW IN AREA SERVED.



National TAB

Project: CW 2999 - Verily Floor 9
Address: Address: 2999 Olympus Blvd Dallas, TX

Asset: AC-9-2

Area: SERVER 911 (TWINNED WITH AC-9-1)

Unit Data	
MFG	VERTIV
Model Num	MMD24ENPR0DN0AM9
Serial Num	Y23H003992

Motor Data	
Motor MFG	U.S. MOTORS
Horsepower	0.5
Motor Rpm	1060/980/900
Phase	1
Voltage (rated)	208
Amperage (rated)	2.8

Test Data		
	Design	Actual
SA CFM	885	1705
Fan Speed		MEDIUM
OA CFM	0	0
RA CFM	885	1705
RL Voltage	208	214
RL Amperage	2.8	1.5
Suction ESP		-0.28
Discharge ESP		0.08
Total ESP	0.3	0.36
Brake HP		0.28

NOTE: SEE AC-9-1 FOR DIFFUSERS