

Report By:

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Report: CERTIFIED TAB
Function: Test, Adjust, & Balance
Date: 09/08/2025
Completed By: National TAB

PROJECT
Charles Schwab (Cupertino, CA)

19499 STEVENS CREEK BLVD

Cupertino, CA 95014

Client

Buffalo Mechanical
501 South Parallel Ave

Ripon, CA 95366

National TAB

Project: Charles Schwab (Cupertino, CA)

Table Of Contents

Section	Page #
AHU/RTU	3
FAN - Exhaust	15

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Project: Charles Schwab (Cupertino, CA)
System/Unit: AHU/RTU



Asset: RTU-5

AREA:

Unit Data		
	Design	Actual
MFG	NA	ICP
Serial Num	-	P161995581
Model Num	NA	RGH120LDHW7LABA
Configuration	-	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	35X19
Num PreFilter 1	-	4
PreFilter Size 1	-	20X20X2

Test Data		
	Design	Actual
SF CFM	4000	3839
SF RPM	-	1223
RA CFM	3070	2921
OA CFM	930	918
RL Voltage	-	487/487/487
RL Amperage	-	4.76/4.76/4.76
OA Damper Position	-	31%
Brake Horse Power	-	N/A

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	145TZ
Horsepower	-	NL
Motor Rpm	-	1725
Phase	-	3
Rated Voltage	-	460
Rated Amperage	-	6.4
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.71"
Fan Suction SP	-	-0.99"
Fan Discharge SP	-	0.77"
Total ESP	-	1.48"
Fan Total SP	-	1.76"

Drive Data	
	Actual
Motor Sheave Size	VP65
Motor Bore Size	7/8"
Motor Sheave SetPt	4 TURNS OPEN
Fan Sheave Size	AFD84
Fan Sheave Bore	1"
Belt CL Distance	17.5"
Num of Belts	1
Belt Size	AX54

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Unit Data - PHOTO LOG



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Project: Charles Schwab (Cupertino, CA)

AHU/RTU



VAV - Single Duct

RTU-5/

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)
VVT-1	CARRIER	35EV	VVT	7"	685	661	130	131	NL	N/A	N/A
VVT-2	CARRIER	35EV	VVT	7"	390	371	100	99	NL	N/A	N/A
VVT-3	CARRIER	35EV	VVT	7"	390	381	100	97	NL	N/A	N/A
VVT-4	CARRIER	35EV	VVT	7"	390	399	100	103	NL	N/A	N/A
VVT-5	CARRIER	35EV	VVT	7"	335	307	75	77	NL	N/A	N/A
VVT-10	CARRIER	35EV	VVT	12"	1300	1209	300	311	NL	N/A	N/A
VVT-12	CARRIER	35EV	VVT	8"	510	511	175	181	NL	N/A	N/A

Diffuser Supply (GRD)

VVT-1/TEAM ROOM 106

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V1-1	TEAM ROOM 106	SD-1	8	105	89	99	94.3
V1-2	TEAM ROOM 106	SD-1	8	105	88	107	101.9
V1-3	TEAM ROOM 106	SD-1	8	105	93	104	99.0
V1-4	TEAM ROOM 106	SD-1	8	105	91	97	92.4
V1-5	TEAM ROOM 106	SD-1	8	105	85	99	94.3
V1-6	TEAM ROOM 106	SD-2	10	160	144	155	96.9
Total				685	590	661	96.5%

VVT-2/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V2-1	109	SD-1	8	130	101	125	96.2
V2-2	108	SD-1	8	130	107	125	96.2
V2-3	107	SD-1	8	130	103	121	93.1
Total				390	311	371	95.13%

VVT-3/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V3-1	112	SD-1	8	130	101	122	93.8
V3-2	111	SD-1	8	130	110	131	100.8
V3-3	110	SD-1	8	130	107	128	98.5
Total				390	318	381	97.69%

VVT-4/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V4-1	115	SD-1	8	130	101	135	103.8
V4-2	114	SD-1	8	130	97	127	97.7
V4-3	113	SD-1	8	130	91	137	105.4
Total				390	289	399	102.31%

VVT-5/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V5-1	116	SD-1	8	130	111	118	90.8
V5-2	117	SD-1	8	130	117	120	92.3
V5-3	118	SD-1	6	75	66	69	92.0
Total				335	294	307	91.64%

VVT-10/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V10-1	135	SD-1	8	165	133	149	90.3
V10-2	135	SD-1	8	160	127	151	94.4
V10-3	135	SD-1	8	165	130	149	90.3
V10-4	135	SD-1	8	160	125	152	95.0
V10-5	135	SD-1	8	165	121	155	93.9
V10-6	135	SD-1	8	160	123	152	95.0
V10-7	135	SD-1	8	165	125	154	93.3
V10-8	135	SD-1	8	160	135	147	91.9
Total				1300	1019	1209	93%

VVT-12/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V12-1	119	SD-1	8	170	144	172	101.2
V12-2	119	SD-1	8	170	141	171	100.6
V12-3	119	SD-1	8	170	137	168	98.8
Total				510	422	511	100.2%

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Project: Charles Schwab (Cupertino, CA)

System/Unit: AHU/RTU



Asset: RTU-6

AREA:

Unit Data		
	Design	Actual
MFG	NA	ICP
Serial Num	-	P161905433
Model Num	NA	RGH150LECW7LABA
Configuration	-	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	23X25.5
Num PreFilter 1	-	6
PreFilter Size 1	-	18X24X2

Test Data		
	Design	Actual
SF CFM	5000	4862
SF RPM	-	716
RA CFM	4400	4263
OA CFM	600	599
RL Voltage	-	487/487/487
RL Amperage	-	4.1/4.1/4.1
OA Damper Position	-	13%

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	-	NL
Motor Rpm	-	1725
Phase	-	3
Rated Voltage	-	460
Rated Amperage	-	5.3
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.63"
Fan Suction SP	-	-0.91"
Fan Discharge SP	-	0.69"
Total ESP	-	1.32"
Fan Total SP	-	1.60"

Drive Data	
	Actual
Motor Sheave Size	VP50
Motor Bore Size	7/8"
Motor Sheave SetPt	3 TURNS OPEN
Fan Sheave Size	AK104
Fan Sheave Bore	1-3/16"
Belt CL Distance	20.5"
Num of Belts	1
Belt Size	A61

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Unit Data - PHOTO LOG



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National TAB

Project: Charles Schwab (Cupertino, CA)

AHU/RTU



VAV - Single Duct

RTU-6/

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)
VVT-6	CARRIER	35EV	VVT	8"	620	601	100	101	NL	N/A	N/A
VVT-7	CARRIER	35EV	VVT	7"	390	387	100	103	NL	N/A	N/A
VVT-8	CARRIER	35EV	VVT	5"	200	217	50	52	NL	N/A	N/A
VVT-9	CARRIER	35EV	VVT	6"	260	283	65	67	NL	N/A	N/A
VVT-13	CARRIER	35EV	VVT	10"	900	888	225	227	NL	N/A	N/A
VVT-14	CARRIER	35EV	VVT	7"	390	379	100	99	NL	N/A	N/A
VVT-18	CARRIER	35EV	VVT	14"	2240	2107	600	597	NL	N/A	N/A

Diffuser Supply (GRD)

VVT-6/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V6-1	OFFICE 103	SD-1	8	140	111	131	93.6
V6-2	OFFICE 104	SD-1	8	100	91	102	102.0
V6-3	OFFICE 104	SD-2	8	140	109	134	95.7
V6-4	OFFICE 105	SD-2	8	140	107	137	97.9
V6-5	OFFICE 105	SD-1	8	100	95	97	97.0
Total				620	513	601	96.94%

VVT-7/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V7-1	OFFICE 143	SD-1	8	130	111	124	95.4
V7-2	OFFICE 144	SD-1	8	130	107	133	102.3
V7-3	OFFICE 146	SD-1	8	130	102	130	100.0
Total				390	320	387	99.23%

VVT-8/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V8-1	TOUCHDOWN 137	SD-1	8	100	81	108	108.0
V8-2	TOUCHDOWN 137	SD-1	8	100	85	109	109.0
Total				200	166	217	108.5%

VVT-9/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V9-1	OFFICE 139	SD-1	8	130	109	141	108.5
V9-2	OFFICE 138	SD-1	8	130	103	142	109.2
Total				260	212	283	108.85%

VVT-13/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V13-1	CONF RM 102	SD-1	8	100	84	101	101.0
V13-2	CONF RM 102	SD-1	8	100	87	98	98.0
V13-3	CONF RM 102	SD-2	8	125	103	122	97.6
V13-4	CONF RM 102	SD-1	8	100	81	94	94.0
V13-5	CONF RM 102	SD-2	8	125	107	130	104.0
V13-6	CONF RM 102	SD-1	8	100	82	99	99.0
V13-7	CONF RM 102	SD-2	8	125	100	123	98.4
V13-8	CONF RM 102	SD-2	8	125	98	121	96.8
Total				900	742	888	98.67%

VVT-14/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V14-1	RM 142	SD-1	8	130	111	126	96.9
V14-2	141	SD-1	8	130	108	125	96.2
V14-3	OFFICE 140	SD-1	8	130	102	128	98.5
Total				390	321	379	97.18%

VVT-18/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V18-1	TOWNSQUARE 100	SD-2	10	280	222	255	91.1
V18-2	TOWNSQUARE 100	SD-2	10	280	227	261	93.2
V18-3	TOWNSQUARE 100	SD-2	10	280	221	269	96.1
V18-4	TOWNSQUARE 100	SD-2	10	280	217	261	93.2
V18-5	HALLWAY 101	SD-2	10	280	231	271	96.8
V18-6	HALLWAY 101	SD-2	10	280	229	269	96.1
V18-7	HALLWAY 101	SD-2	10	280	230	263	93.9
V18-8	HALLWAY 101	SD-2	10	280	225	258	92.1
Total				2240	1802	2107	94.06%

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Project: Charles Schwab (Cupertino, CA)
System/Unit: AHU/RTU



Asset: RTU-7

AREA:

Unit Data		
	Design	Actual
MFG	NA	ICP
Serial Num	-	P161905434
Model Num	NA	RGH150LEGW7LABA
Configuration	-	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	23X25.5
Num PreFilter 1	-	6
PreFilter Size 1	-	18AX24X2

Test Data		
	Design	Actual
SF CFM	5000	4808
SF RPM	-	789
RA CFM	4400	4197
OA CFM	600	611
RL Voltage	-	487/487/487
RL Amperage	-	5.2/5.2/5.2
OA Damper Position	-	13%
Brake Horse Power	-	4.26

Motor Data		
	Design	Actual
Motor MFG	-	CENTURY
Frame	-	184T
Horsepower	-	5
Motor Rpm	-	1755
Phase	-	3
Rated Voltage	-	460
Rated Amperage	-	6.3
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.66"
Fan Suction SP	-	-0.92"
Fan Discharge SP	-	0.72"
Total ESP	-	1.38"
Fan Total SP	-	1.64"

Drive Data	
	Actual
Motor Sheave Size	VP65
Motor Bore Size	1-1/8"
Motor Sheave SetPt	3 TURNS CLOSED
Fan Sheave Size	BK120
Fan Sheave Bore	1-3/16"
Belt CL Distance	21.5"
Num of Belts	1
Belt Size	BX67

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Unit Data - PHOTO LOG



09/03/2025

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Project: Charles Schwab (Cupertino, CA)

AHU/RTU



VAV - Single Duct

RTU-7/

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)
VVT-11	CARRIER	35EV	VVT	12"	1005	1001	300	301	NL	N/A	N/A
VVT-15	CARRIER	35EV	VVT	12"	1320	1207	350	347	NL	N/A	N/A
VVT-16	CARRIER	35EV	VVT	7"	390	369	100	103	NL	N/A	N/A
VVT-17	CARRIER	35EV	VVT	7"	290	281	100	102	NL	N/A	N/A
VVT-19	CARRIER	35EV	VVT	14"	1995	1941	600	631	NL	N/A	N/A

Diffuser Supply (GRD)

VVT-11/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V11-1	NA	SD-1	10	230	201	232	100.9
V11-2	NA	SD-1	10	230	205	227	98.7
V11-3	NA	SD-1	10	230	209	229	99.6
V11-4	MENS 123	SD-1	8	125	102	127	101.6
V11-5	125	SD-1	6	65	51	63	96.9
V11-6	WOMEN 124	SD-1	8	125	109	123	98.4
Total				1005	877	1001	99.6%

VVT-15/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V15-1	BEV BAR 134	SD-1	8	110	83	99	90.0
V15-2	BEV BAR 134	SD-1	8	110	81	100	90.9
V15-3	BEV BAR 134	SD-1	8	110	77	99	90.0
V15-4	BEV BAR 134	SD-1	8	110	82	102	92.7
V15-5	BEV BAR 134	SD-1	8	110	73	107	97.3
V15-6	BEV BAR 134	SD-1	8	110	72	100	90.9
V15-7	BEV BAR 134	SD-1	8	110	80	101	91.8
V15-8	BEV BAR 134	SD-1	8	110	73	101	91.8
V15-9	BEV BAR 134	SD-1	8	110	75	100	90.9
V15-10	BEV BAR 134	SD-1	8	110	77	101	91.8
V15-11	BEV BAR 134	SD-1	8	110	79	103	93.6
V15-12	BEV BAR 134	SD-1	8	110	76	103	93.6
Total				1320	928	1216	92.12%

VVT-16/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V16-1	OFFICE 132	SD-1	8	130	101	125	96.2
V16-2	OFFICE 131	SD-1	8	130	107	123	94.6
V16-3	OFFICE 130	SD-1	8	130	106	121	93.1
Total				390	314	369	94.62%

VVT-17/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V17-1	OFFICE 120	SD-1	8	145	111	141	97.2
V17-2	OFFICE 121	SD-1	8	145	117	140	96.6
Total				290	228	281	96.9%

VVT-19/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V19-1	HALL 133	SD-2	10	285	231	271	95.1
V19-2	HALL 133	SD-2	10	285	227	275	96.5
V19-3	HALL 133	SD-2	10	285	225	288	101.1
V19-4	HALL 133	SD-2	10	285	221	269	94.4
V19-5	HALL 133	SD-2	10	285	225	276	96.8
V19-6	HALL 133	SD-2	10	285	234	281	98.6
V19-7	HALL 133	SD-2	10	285	224	281	98.6
Total				1995	1587	1941	97.29%

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National TAB

Project: Charles Schwab (Cupertino, CA)
System/Unit: FAN - Exhaust



Asset: EF-1

AREA:

Unit Data		
	Design	Actual
MFG	NA	FLO AIRE
Model Num	NA	DR30H
Serial Num	-	7384697
Type	-	CRE

Test Data		
	Design	Actual
CFM	800	809
Fan RPM	-	1540
RL Voltage	-	NA
RL Amperage	-	NA
Suction ESP	-	-0.59"
Discharge ESP	-	ATM

Motor Data		
	Design	Actual
Motor MFG	-	TELCO GREEN
Frame	-	NL
Horsepower	-	0.333
Motor Rpm	-	2000
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	4.3
Service Factor	-	NL

Drive Data	
	Actual
Motor Sheave Size	DD
Motor Bore Size	DD
Motor Sheave SetPt	DD
Fan Sheave Size	DD
Fan Sheave Bore	DD
Belt CL Distance	DD
Num of Belts	DD
Belt Size	DD

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National TAB

Project: Charles Schwab (Cupertino, CA)

FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF-1/

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
E1-1	NL	EG-1	8	150	1	121	145	96.7
E1-2	MENS 123	EG-1	8	200	1	135	197	98.5
E1-3	WOMEN 124	EG-1	8	200	1	259	211	105.5
E1-4	JAN 129	EG-1	8	50	1	101	53	106.0
E1-5	126	EG-1	8	200	1	291	203	101.5
Total				800		907	809	101.12%