

National TAB

Project: CMS E.E. Waddell High Reno (Charlotte, NC)



Comfort. Under control.

VAV - Single Duct

VAV/

Asset								
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM
VAV-1	VAV	10"	1250	674	320	322	630	674

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Diffuser Supply (GRD)

RTU-3 DIFFUSER/

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
3-1	301	A	12	460		239	239	52.0

Asset	Notes
3-1	AHU 3 at full speed

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Diffuser Supply (GRD)

VAV-1/301A

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
3.1-1	301A	A	12"12"	400		257	257	64.3
3.1-2	301A	A	12"12"	400		166	166	41.5
3.1-3	301A	A	12"12"	400		251	251	62.8

Asset	Notes
3-1	AHU 3 at full speed

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Project: CMS E.E. Waddell High Reno (Charlotte, NC)

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF1

AREA:

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	USF-12	USF-12
Serial Num	-	20512849
Type	-	UTILITY SET

Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	56
Horsepower	-	0.25
Motor Rpm	-	1740
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	2.9
Service Factor	-	1.35

Drive Data		
	Design	Actual
Motor Sheave Size	-	VL34
Motor Bore Size	-	0.625
Fan Sheave Size	-	AK58
Fan Sheave Bore	-	1.0
Belt CL Distance	-	7.75
Num of Belts	-	1
Belt Size	-	3L280

Test Data		
	Design	Actual
CFM	870	
Fan RPM	1187	1070
RL Voltage	-	118
RL Amperage	-	2.8
Suction ESP	-	0.39
Discharge ESP	-	0.21
Total ESP	0.50	0.60
Brake Horse Power	-	0.24

Completed By: Scott Springer

Notes: NO HORSEPOWER REMAINING TO INCREASE FAN SPEED/CFM

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System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF2

AREA:

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	USF-12	USF-12
Serial Num	-	20512850
Type	-	UTILITY SET

Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	56
Horsepower	-	0.25
Motor Rpm	-	1740
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	2.9
Service Factor	-	1.35

Drive Data		
	Design	Actual
Motor Sheave Size	-	VL34
Motor Bore Size	-	0.625
Fan Sheave Size	-	AK58
Fan Sheave Bore	-	1.0
Belt CL Distance	-	7.75
Num of Belts	-	1
Belt Size	-	3L280

Test Data		
	Design	Actual
CFM	870	507
Fan RPM	1187	1061
RL Voltage	-	118
RL Amperage	-	2.8
Suction ESP	-	0.38
Discharge ESP	-	0.22
Total ESP	0.50	0.60
Brake Horse Power	-	.24

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Notes: NO HORSEPOWER REMAINING TO INCREASE FAN SPEED/CFM

National TAB

Project: CMS E.E. Waddell High Reno (Charlotte, NC)

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF3

AREA:

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	USF-12	USF-12
Serial Num	-	20512851
Type	-	UTILITY SET

Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	CRE
Horsepower	-	0.25
Motor Rpm	-	1740
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	2.9
Service Factor	-	1.35

Drive Data		
	Design	Actual
Motor Sheave Size	-	VL34
Motor Bore Size	-	0.625
Fan Sheave Size	-	AK58
Fan Sheave Bore	-	1.0
Belt CL Distance	-	7.75
Num of Belts	-	1
Belt Size	-	3L280

Test Data		
	Design	Actual
CFM	870	482
Fan RPM	1187	1098
RL Voltage	-	118
RL Amperage	-	2.8
Suction ESP	-	0.39
Discharge ESP	-	0.20
Total ESP	0.50	0.59
Brake Horse Power	-	0.24

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Notes:

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Project: CMS E.E. Waddell High Reno (Charlotte, NC)

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-4

AREA:GENERAL EXHAUST

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	G-140-VG
Serial Num	-	20518303
Type	-	CRE

Test Data		
	Design	Actual
CFM	1300	1348
RL Voltage	-	284
RL Amperage	-	2.0
Total ESP	0.50	0.42

Motor Data		
	Design	Actual
Motor MFG	-	VARIGREEN
Horsepower	-	0.50
Motor Rpm	-	300-1750
Phase	-	1
Voltage (rated)	-	277
Amperage (rated)	-	3.2

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Project: CMS E.E. Waddell High Reno (Charlotte, NC)

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-5

AREA:

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	SP-A510

Test Data		
	Design	Actual
CFM	350	400

Motor Data		
	Design	Actual
Horsepower	-	224 W
Motor Rpm	-	1015
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	3.3

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System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-6

AREA:

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	SP-A390-VG

Test Data		
	Design	Actual
CFM	175	340

Motor Data		
	Design	Actual
Horsepower	-	26 W
Motor Rpm	1099	1099
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	1.5

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System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-7

AREA:

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	SP-A390-VG

Test Data		
	Design	Actual
CFM	175	330

Motor Data		
	Design	Actual
Horsepower	-	26 W
Motor Rpm	1099	1099
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	1.5

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System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-8

AREA:

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	SP-A90-130-VG

Test Data		
	Design	Actual
CFM	129	131

Motor Data		
	Design	Actual
Motor MFG	-	Baldor
Horsepower	-	12 W
Motor Rpm	-	1041
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	0.29

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Project: CMS E.E. Waddell High Reno (Charlotte, NC)

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-9

AREA:

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	SP-A90-130-VG

Test Data		
	Design	Actual
CFM	129	132

Motor Data		
	Design	Actual
Horsepower	-	12 W
Motor Rpm	-	1041
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	0.29

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System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-10

AREA:

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	SP-A90-130-VG

Test Data		
	Design	Actual
CFM	129	115

Motor Data		
	Design	Actual
Horsepower	-	12 W
Motor Rpm	-	1041
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	0.29

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System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-11

AREA:

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	SP-A90-130-VG

Test Data		
	Design	Actual
CFM	129	122

Motor Data		
	Design	Actual
Horsepower	-	12 W
Motor Rpm	1041	1041
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	0.29

Completed By: Scott Springer

Notes: