

# National TAB

Project: Heartland Dental (New Braunfels, TX)

System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU-1

AREA:100

Unit Data		
	Design	Actual
MFG	TRANE	LENNOX
Serial Num	-	5622C01750
Model Num	YHC048	LGH048H4EH5Y
Configuration	VERTICAL	VERTICAL DISCHARGE
Num OA Filters 1	-	1
OA Filter Size 1	-	15x30x1
Num PreFilter 1	-	4
PreFilter Size 1	-	16x20x2

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	0.75
Motor Rpm	-	NL
Phase	-	1
Rated Voltage	-	NL
Rated Amperage	-	6.1
Service Factor	-	NL

Drive Data		
	Design	Actual
Motor Sheave Size	-	DIRECT DRIVE
Motor Bore Size	-	DIRECT DRIVE
Motor Sheave SetPt	-	DIRECT DRIVE
Fan Sheave Size	-	DIRECT DRIVE
Fan Sheave Bore	-	DIRECT DRIVE
Belt CL Distance	-	DIRECT DRIVE
Num of Belts	-	DIRECT DRIVE
Belt Size	-	DIRECT DRIVE

Test Data		
	Design	Actual
SF CFM	1595	1695
SF RPM	-	DIRECT DRIVE
RA CFM	1430	1525
OA CFM	165	170
RL Voltage	-	120
RL Amperage	-	5.2
OA Damper Position	-	18%
Brake Horse Power	-	0.64

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.29"
Fan Suction SP	-	-0.42"
Fan Discharge SP	-	0.32"
Total ESP	0.75"	0.61"
Fan Total SP	-	0.74"

Completed By: Wesley John

Notes:

# National TAB

Project: Heartland Dental (New Braunfels, TX)

## AHU/RTU



Comfort. Under control.

### Diffuser Supply (GRD)

#### RTU-1/100

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-1	104	A	10"	300	379	330	110.0
1-2	102	A	8"	190	159	192	101.1
1-3	102	A	8"	190	236	203	106.8
1-4	101	A	10"	305	321	314	103.0
1-5	101	A	10"	305	298	325	106.6
1-6	101	A	10"	305	379	331	108.5

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# National TAB

Project: Heartland Dental (New Braunfels, TX)

System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU-2

AREA:TREATMENT 1-5

Unit Data		
	Design	Actual
MFG	TRANE	LENNOX
Serial Num	-	5622G07032
Model Num	YHC048	LGH048S4TU5Y
Configuration	VERTICAL	VERTICAL DISCHARGE
Num OA Filters 1	-	1
OA Filter Size 1	-	15x30x1
Num PreFilter 1	-	4
PreFilter Size 1	-	16x20x2

Test Data		
	Design	Actual
SF CFM	1600	1897
SF RPM	-	1098
RA CFM	1280	1567
OA CFM	320	330
RL Voltage	-	209/209/209
RL Amperage	-	3.4/3.3/3.4
OA Damper Position	-	29% (34% LOW FAN SPEED)
Brake Horse Power	-	1.12

Motor Data		
	Design	Actual
Motor MFG	-	US MOTORS
Frame	-	56HZ
Horsepower	-	2.0
Motor Rpm	-	1740
Phase	-	3
Rated Voltage	-	208
Rated Amperage	-	6.0
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.35"
Fan Suction SP	-	-0.50"
Fan Discharge SP	-	0.38"
Total ESP	0.75"	0.73"
Fan Total SP	-	0.88"

Drive Data		
	Design	Actual
Motor Sheave Size	-	1VP44
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	5.0 TURNS OPEN
Fan Sheave Size	-	AK51
Fan Sheave Bore	-	1"
Belt CL Distance	-	16"
Num of Belts	-	1
Belt Size	-	AX43

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Notes:

# National TAB

Project: Heartland Dental (New Braunfels, TX)

## AHU/RTU



Comfort. Under control.

**Diffuser Supply (GRD)**

**RTU-2/TREATMENT 1-5**

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-1	109	A	8"	165	254	199	120.6
2-2	119	A	8"	205	245	244	119.0
2-3	108	A	8"	165	182	188	113.9
2-4	100	A	6"	70	115	85	121.4
2-5	118	A	8"	220	218	238	108.2
2-6	107	A	8"	165	201	198	120.0
2-7	117	A	8"	165	181	202	122.4
2-8	106	A	8"	165	187	199	120.6
2-9	100	A	6"	70	137	80	114.3
2-10	115	A	6"	40	132	51	127.5
2-11	116	A	6"	40	107	51	127.5
2-12	105	A	6"	40	117	53	132.5
2-13	100	A	6"	90	117	109	121.1

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# National TAB

Project: Heartland Dental (New Braunfels, TX)

System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU-3

AREA:125

Unit Data		
	Design	Actual
MFG	TRANE	LENNOX
Serial Num	-	5622H05192
Model Num	YHC048	KGB036S4BM3Y
Configuration	VERTICAL	VERTICAL DISCHARGE
Num OA Filters 1	-	1
OA Filter Size 1	-	15x30x1
Num PreFilter 1	-	4
PreFilter Size 1	-	16x20x2

Test Data		
	Design	Actual
SF CFM	1200	1219
SF RPM	-	744
RA CFM	910	935
OA CFM	290	284
RL Voltage	-	211/210/211
RL Amperage	-	1.6/1.8/1.7
OA Damper Position	-	4.30 VDC (28%)
Brake Horse Power	-	0.61

Motor Data		
	Design	Actual
Motor MFG	-	INTERLINK
Frame	-	56HZ
Horsepower	-	1.0
Motor Rpm	-	1760
Phase	-	3
Rated Voltage	-	208
Rated Amperage	-	2.8
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.21"
Fan Suction SP	-	-0.38"
Fan Discharge SP	-	0.33"
Total ESP	0.75"	0.54"
Fan Total SP	-	0.71"

Drive Data		
	Design	Actual
Motor Sheave Size	-	1VP34
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	2.0 TURNS OPEN
Fan Sheave Size	-	AK66
Fan Sheave Bore	-	1"
Belt CL Distance	-	14 3/4"
Num of Belts	-	1
Belt Size	-	AX42

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Notes: FAN PULLEY FIELD CHANGED BY NTAB FROM AK40 TO AK66 TO BRING AIR FLOW TO WITHIN TOLERANCE.

# National TAB

Project: Heartland Dental (New Braunfels, TX)

## AHU/RTU



Comfort. Under control.

### Diffuser Supply (GRD)

#### RTU-3/125

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3-1	110	A	8"	145	198	138	95.2
3-2	110	A	8"	145	171	135	93.1
3-3	111	A	6"	35	105	38	108.6
3-4	100	A	6"	80	124	87	108.8
3-5	121	A	8"	180	240	176	97.8
3-6	122	A	8"	135	229	145	107.4
3-7	123	A	8"	135	270	141	104.4
3-8	100	A	6"	75	182	80	106.7
3-9	124	A	8"	135	292	134	99.3
3-10	125	A	8"	135	277	145	107.4

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# National TAB

Project: Heartland Dental (New Braunfels, TX)

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-1

AREA:111

Unit Data		
	Design	Actual
<b>MFG</b>	GREENHECK	COOK
<b>Model Num</b>	SP-B90	GEMINI 140
<b>Serial Num</b>	-	NL

Test Data		
	Design	Actual
<b>CFM</b>	85	91

Motor Data		
	Design	Actual
<b>Motor MFG</b>	-	QUEACE
<b>Horsepower</b>	80W	15W
<b>Motor Rpm</b>	-	1550
<b>Phase</b>	-	1
<b>Voltage (rated)</b>	-	115
<b>Amperage (rated)</b>	-	0.40

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Notes:

# National TAB

Project: Heartland Dental (New Braunfels, TX)

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-2

AREA:112

Unit Data		
	Design	Actual
MFG	GREENHECK	COOK
Model Num	G-0600-D	90 ACEL
Serial Num	-	287SK34292
Type	CRE	CRE

Test Data		
	Design	Actual
CFM	50	0
RL Voltage	-	N/A
RL Amperage	-	N/A
Total ESP	0.250"	N/A

Motor Data		
	Design	Actual
Motor MFG	-	US MOTORS
Frame	-	42Y
Horsepower	0.10	0.04
Motor Rpm	-	1050
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	1.1
Service Factor	-	NL

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Notes: FAN WAS BALANCED THEN FOUND TO NOT BE RUNNING EVEN THOUGH POWER WAS STILL APPLIED TO MOTOR.

# National TAB

Project:Heartland Dental (New Braunfels, TX)

## FAN - Exhaust



Comfort. Under control.

### Diffuser Ret/Exh (GRD)

#### EF-2/112

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
E2-1	B	6"X6"	50		53	-	53	106.0

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# National TAB

Project: Heartland Dental (New Braunfels, TX)

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-3

AREA:110

### Unit Data

	Design	Actual
<b>MFG</b>	GREENHECK	COOK
<b>Model Num</b>	SP-B90	GEMINI 140
<b>Serial Num</b>	-	NL

### Test Data

	Design	Actual
<b>CFM</b>	110	117

### Motor Data

	Design	Actual
<b>Motor MFG</b>	-	QUEACE
<b>Horsepower</b>	125W	15W
<b>Motor Rpm</b>	-	1550
<b>Phase</b>	-	1
<b>Voltage (rated)</b>	-	115
<b>Amperage (rated)</b>	-	0.40

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Notes:

# National TAB

Project: Heartland Dental (New Braunfels, TX)

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-4

AREA:114

### Unit Data

	Design	Actual
<b>MFG</b>	GREENHECK	COOK
<b>Model Num</b>	SP-B90	GEMINI 120
<b>Serial Num</b>	-	NL

### Test Data

	Design	Actual
<b>CFM</b>	50	53

### Motor Data

	Design	Actual
<b>Motor MFG</b>	-	QUEACE
<b>Horsepower</b>	20W	5W
<b>Motor Rpm</b>	-	1550
<b>Phase</b>	-	1
<b>Voltage (rated)</b>	-	115
<b>Amperage (rated)</b>	-	0.20

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Notes:

# National TAB

Project: Heartland Dental (New Braunfels, TX)

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-5

AREA:116

### Unit Data

	Design	Actual
<b>MFG</b>	GREENHECK	COOK
<b>Model Num</b>	SP-B90	GEMINI 120
<b>Serial Num</b>	-	NL

### Test Data

	Design	Actual
<b>CFM</b>	85	77

### Motor Data

	Design	Actual
<b>Motor MFG</b>	-	QUEACE
<b>Horsepower</b>	80W	5W
<b>Motor Rpm</b>	-	1550
<b>Phase</b>	-	1
<b>Voltage (rated)</b>	-	115
<b>Amperage (rated)</b>	-	0.20

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Notes:

# National TAB

Project: Heartland Dental (New Braunfels, TX)

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-6

AREA:105

Unit Data		
	Design	Actual
MFG	GREENHECK	COOK
Model Num	SP-B90	GEMINI 140
Serial Num	-	NL

Test Data		
	Design	Actual
CFM	85	86

Motor Data		
	Design	Actual
Motor MFG	-	QUEACE
Horsepower	80W	15W
Motor Rpm	-	1550
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	0.40

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Notes:

# National TAB

Project: Heartland Dental (New Braunfels, TX)

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-7

AREA:103

Unit Data		
	Design	Actual
MFG	GREENHECK	COOK
Model Num	SP-B90	GEMINI 120
Serial Num	-	NL

Test Data		
	Design	Actual
CFM	50	54

Motor Data		
	Design	Actual
Motor MFG	-	QUEACE
Horsepower	20W	5W
Motor Rpm	-	1550
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	0.20

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Notes: