

National TAB

Project: 11-07 WALGREENS #4133 - PASADENA, TX

System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU1

AREA:SALES

Unit Data			Test Data		
	Design	Actual		Design	Actual
MFG	YORK	YORK	SF CFM	5688	5773
Serial Num	-	N2E2504397	SF RPM	-	1041
Model Num	ZT210N30R4B5GCB2C1	ZT210N30R4B5GCB2C1	RA CFM	5000	5124
Type	RTU	RTU	OA CFM	688	649
Configuration	VERTICAL	VERTICAL DISCHARGE	RL Voltage	-	495/498/495
Num OA Filters 1	-	6	RL Amperage	-	8.2/8.6/8.5
OA Filter Size 1	-	16x28x1	SF Rotation	-	CCW
Num Final Filter 1	-	8	RA Damper Position	-	82%
Final Filter Size 1	-	16x20x2	Min OA Damper Position	-	18%

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	215T
Horsepower	11.50	10
Motor Rpm	3	1770
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	12.5

Drive Data		
	Design	Actual
Motor Sheave Size	-	1VP60
Motor Bore Size	-	1 3/8"
Motor Sheave SetPt	-	3.0 TURNS OPEN
Fan Sheave Size	-	BK90
Fan Sheave Bore	-	1 3/16"
Belt CL Distance	-	28"
Num of Belts	-	1
Belt Size	-	BX75
Belt Alignment	-	CORRECT

Min OA Damper Type	-	PARALLEL BLADE
OA Enthalpy Setpt	-	24 BTU/LB

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.73"
Fan Suction SP	-	-1.06"
Fan Discharge SP	-	0.58"
Total ESP	2.0"	1.31"
Fan Total SP	-	1.64"

General		
	Design	Actual
Fan Rotation Correct	-	YES
Unit Filters Clean	-	YES
Condensate Drain Installed	-	YES

Completed By: Wesley John

Notes:

National TAB

Project:11-07 WALGREENS #4133 - PASADENA, TX

AHU/RTU



Comfort. Under control.

Diffuser Supply (GRD)

RTU1/SALES

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	SALES			156	1.0	214	231	184	117.9
SGRD2	SALES			156	1.0	177	194	172	110.3
SGRD3	SALES			156	1.0	150	160	169	108.3
SGRD4	SALES			156	1.0	169	184	189	121.2
SGRD5	SALES			156	1.0	186	202	180	115.4
SGRD6	SALES			156	1.0	162	177	186	119.2
SGRD7	SALES			156	1.0	192	203	167	107.1
SGRD8	SALES			752	1.0	696	772	807	107.3
SGRD9	SALES			752	1.0	736	791	838	111.4
SGRD10	SALES			752	1.0	762	829	855	113.7
SGRD11	SALES			752	1.0	539	588	602	80.1
SGRD12	SALES			192	1.0	180	195	179	93.2
SGRD13	SALES			632	1.0	462	524	554	87.7
SGRD14	OFFICE			365	1.0	410	444	348	95.3
SGRD15	HALLWAY			186	1.0	123	135	149	80.1
SGRD16	EMPLOYEE			213	1.0	195	215	194	91.1

Completed By: Brianna Biggs on

National TAB

Project: 11-07 WALGREENS #4133 - PASADENA, TX

System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU2

AREA:SALES

Unit Data			Test Data		
	Design	Actual		Design	Actual
MFG	YORK	YORK	SF CFM	3250	3011
Serial Num	-	N2F2614642	SF RPM	1018	1017
Model Num	ZT120N18R4B5GCL2R1	ZT120N18R4B5GCL2R1	RA CFM	2600	2402
Type	RTU	RTU	OA CFM	650	609
Configuration	VERTICAL	VERTICAL DISCHARGE	RL Voltage	-	495/491/492
Num OA Filters 1	-	1	RL Amperage	-	4.1/4.0/4.0
OA Filter Size 1	-	22x30x1	SF Rotation	-	CCW
Num Final Filter 1	-	4	RA Damper Position	-	79%
Final Filter Size 1	-	20x24x2	Min OA Damper Position	-	21%

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	56HZ
Horsepower	3.45	3
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	4.1

Drive Data		
	Design	Actual
Motor Sheave Size	-	1VM50
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	2.0 TURNS OPEN
Fan Sheave Size	-	AK74
Fan Sheave Bore	-	1"
Belt CL Distance	-	19"
Num of Belts	-	1
Belt Size	-	A54
Belt Alignment	-	CORRECT

Min OA Damper Type	-	PARALLEL BLADE
OA Enthalpy Setpt	-	24 BTU/LB

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.58"
Fan Suction SP	-	-0.81"
Fan Discharge SP	-	0.47"
Total ESP	0.6"	1.05"
Fan Total SP	-	1.28"

General		
	Design	Actual
Fan Rotation Correct	-	YES
Unit Filters Clean	-	YES
Condensate Drain Installed	-	YES

Completed By: Wesley John

Notes:

National TAB

Project:11-07 WALGREENS #4133 - PASADENA, TX

AHU/RTU



Comfort. Under control.

Diffuser Supply (GRD)

RTU2/SALES

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	SALES			750	1.0	528	549	649	86.5
SGRD2	SALES			750	1.0	649	680	672	89.6
SGRD3	SALES			750	1.0	710	744	707	94.3
SGRD4	SALES			750	1.0	657	685	742	98.9
SGRD5	RR HALLWAY			250	1.0	360	378	241	96.4

Completed By: Brianna Biggs on

National TAB

Project: 11-07 WALGREENS #4133 - PASADENA, TX

System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU3

AREA:PHARMACY

Unit Data			Test Data		
	Design	Actual		Design	Actual
MFG	YORK	YORK	SF CFM	1625	1574
Serial Num	-	N2K2935592	SF RPM	1051	859
Model Num	ZJ061N08D4B5GCB2R3	ZJ061N08D4B5GCB2R3	RA CFM	1525	1471
Type	RTU	RTU	OA CFM	100	103
Configuration	VERTICAL	VERTICAL DISCHARGE	RL Voltage	-	493/495/496
Num OA Filters 1	-	1	RL Amperage	-	3.4/3.4/3.2
OA Filter Size 1	-	22x30x1	SF Rotation	-	CCW
Num Final Filter 1	-	4	RA Damper Position	-	84%
Final Filter Size 1	-	16x24x2	Min OA Damper Position	-	16%

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	2.30	2
Motor Rpm	-	1725
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	3.4

Drive Data		
	Design	Actual
Motor Sheave Size	-	1VP40
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	1.0 TURN OPEN
Fan Sheave Size	-	AK74
Fan Sheave Bore	-	1"
Belt CL Distance	-	17 3/4"
Num of Belts	-	1
Belt Size	-	A51
Belt Alignment	-	CORRECT

Min OA Damper Type	-	PARALLEL BLADE
OA Enthalpy Setpt	-	24 BTU/LB

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.57"
Fan Suction SP	-	-0.80"
Fan Discharge SP	-	0.44"
Total ESP	1.3"	1.01"
Fan Total SP	-	1.24"

General		
	Design	Actual
Fan Rotation Correct	-	YES
Unit Filters Clean	-	YES
Condensate Drain Installed	-	YES

Completed By: Wesley John

Notes:

National TAB

Project:11-07 WALGREENS #4133 - PASADENA, TX

AHU/RTU



Comfort. Under control.

Diffuser Supply (GRD)

RTU3/PHARMACY

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	SEATING			155	1.0	130	145	148	95.5
SGRD2	PHARMACY			245	1.0	197	211	221	90.2
SGRD3	PHARMACY			245	1.0	171	191	227	92.7
SGRD4	PHARMACY			245	1.0	118	132	231	94.3
SGRD5	PHARMACY			245	1.0	234	260	229	93.5
SGRD6	VALUABLES			355	1.0	420	468	373	105.1
SGRD7	ELECTRICAL			35	1.0	69	73	37	105.7
SGRD8	CONSULTATION			100	1.0	127	134	108	108.0

Completed By: Wesley John on

National TAB

Project: 11-07 WALGREENS #4133 - PASADENA, TX

System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU4

AREA:STOCK ROOM

Unit Data		
	Design	Actual
MFG	YORK	YORK
Serial Num	-	N2F2554982
Model Num	ZJ037N08D4B5BCB2R3	ZJ037N08D4B5BCB2R3
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL DISCHARGE
Num OA Filters 1	-	1
OA Filter Size 1	-	22x30x1
Num Final Filter 1	-	4
Final Filter Size 1	-	16x24x2

Test Data		
	Design	Actual
SF CFM	975	1024
SF RPM	960	881
RA CFM	875	930
OA CFM	100	94
RL Voltage	-	491/492/491
RL Amperage	-	2.0/2.2/2.2
SF Rotation	-	CCW
RA Damper Position	-	85%
Min OA Damper Position	-	15%
Min OA Damper Type	-	PARALLEL BLADE
OA Enthalpy Setpt	-	24 BTU/LB

Motor Data		
	Design	Actual
Motor MFG	-	CENTURY
Frame	-	56H
Horsepower	1.50	1.5
Motor Rpm	-	1725
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	2.5

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.37"
Fan Suction SP	-	-0.59"
Fan Discharge SP	-	0.43"
Total ESP	1.2"	0.80"
Fan Total SP	-	1.02"

Drive Data		
	Design	Actual
Motor Sheave Size	-	1VL44
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	3.5 TURNS OPEN
Fan Sheave Size	-	AK69
Fan Sheave Bore	-	1"
Belt CL Distance	-	16 1/4"
Num of Belts	-	1
Belt Size	-	A47
Belt Alignment	-	CORRECT

General		
	Design	Actual
Fan Rotation Correct	-	YES
Unit Filters Clean	-	YES
Condensate Drain Installed	-	YES

Completed By: Wesley John

Notes:

National TAB

Project: 11-07 WALGREENS #4133 - PASADENA, TX

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF1

AREA: LOUNGE

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	SP-250	SP-A410-QD
Serial Num	-	20888468
Type	CEILING	CENTRIFUGAL
Configuration	VERTICAL	CEILING

Motor Data		
	Design	Actual
Motor MFG	-	MCMILLAN
Frame	-	NL
Horsepower	120W	1/19
Motor Rpm	-	1100
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	1.7
Service Factor	-	NL

Test Data		
	Design	Actual
CFM	300	281
Fan RPM	1000	1100
Fan Rotation	-	CW
Motor RPM	-	1100
System SetPt	-	SINGLE SPEED
RL Voltage	-	121
RL Amperage	-	1.2
Total ESP	0.375"	NA
Fan Inlet SP	-	NA
Fan Discharge SP	-	NA

Completed By: Wesley John

Notes:

National TAB

Project: 11-07 WALGREENS #4133 - PASADENA, TX

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF2

AREA:MENS RR

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	SP-226	SP-A410-QD
Serial Num	-	20920311
Type	CEILING	CENTRIFUGAL
Configuration	VERTICAL	CEILING

Motor Data		
	Design	Actual
Motor MFG	-	MCMILLAN
Frame	-	NL
Horsepower	120W	1/19
Motor Rpm	-	1100
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	1.7
Service Factor	-	NL

Test Data		
	Design	Actual
CFM	240	23
Fan RPM	1000	1100
Fan Rotation	-	CW
Motor RPM	-	1100
System SetPt	-	SINGLE SPEED
RL Voltage	-	121
RL Amperage	-	1.5
Total ESP	0.375"	NA
Fan Inlet SP	-	NA
Fan Discharge SP	-	NA

Completed By: Wesley John

Notes:

National TAB

Project: 11-07 WALGREENS #4133 - PASADENA, TX

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF3

AREA:WOMENS RR

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	SP-226	SP-A410-QD
Serial Num	-	20888474
Type	CEILING	CENTRIFUGAL
Configuration	VERTICAL	CEILING

Motor Data		
	Design	Actual
Motor MFG	-	MCMILLAN
Frame	-	NL
Horsepower	120W	1/19
Motor Rpm	-	1100
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	1.7
Service Factor	-	NL

Test Data		
	Design	Actual
CFM	240	209
Fan RPM	1000	1100
Fan Rotation	-	CW
Motor RPM	-	1100
System SetPt	-	SINGLE SPEED
RL Voltage	-	121
RL Amperage	-	1.4
Total ESP	0.375"	NA
Fan Inlet SP	-	NA
Fan Discharge SP	-	NA

Completed By: Wesley John

Notes:

National TAB

Project: 11-07 WALGREENS #4133 - PASADENA, TX

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF4

AREA:OFFICE

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	SP-250	SP-A410-QD
Serial Num	-	20886735
Type	CEILING	CENTRIFUGAL
Configuration	VERTICAL	CEILING

Motor Data		
	Design	Actual
Motor MFG	-	MCMILLAN
Frame	-	NL
Horsepower	120W	1/19
Motor Rpm	-	1100
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	1.7
Service Factor	-	NL

Test Data		
	Design	Actual
CFM	300	0
Fan RPM	1000	NA
Fan Rotation	-	NA
Motor RPM	-	NA
System SetPt	-	NA
RL Voltage	-	NA
RL Amperage	-	NA
Total ESP	0.375"	NA
Fan Inlet SP	-	NA
Fan Discharge SP	-	NA

Completed By: Wesley John

Notes:

National TAB

Project: 11-07 WALGREENS #4133 - PASADENA, TX

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF5

AREA:PHOTO

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	SP-260	NA
Serial Num	-	NA
Type	CEILING	NA
Configuration	VERTICAL	NA

Motor Data		
	Design	Actual
Motor MFG	-	NA
Frame	-	NA
Horsepower	285W	NA
Motor Rpm	-	NA
Phase	1	NA
Voltage (rated)	120	NA
Amperage (rated)	-	NA
Service Factor	-	NA

Test Data		
	Design	Actual
CFM	750	-
Fan RPM	1000	NA
Fan Rotation	-	NA
Motor RPM	-	NA
System SetPt	-	NA
RL Voltage	-	NA
RL Amperage	-	NA
Total ESP	0.375"	NA
Fan Inlet SP	-	NA
Fan Discharge SP	-	NA

Completed By: Wesley John

Notes: