

# National TAB

Project: LA Fitness (Missouri City, TX)

## System/Unit: AHU/RTU



Comfort. Under control.

Asset: DHU-1

AREA: POOL

Unit Data		
	Design	Actual
MFG	NA	SERESCO
Serial Num	-	19061827
Model Num	NA	NE-012-PB-X-P3EB5562G2E5AD3
Configuration	VERTICAL	VERTICAL DISCHARGE
Num OA Filters 1	-	2
OA Filter Size 1	-	16x24x2
Num PreFilter 1	-	6
PreFilter Size 1	-	16x20x2

Motor Data		
	Design	Actual
Motor MFG	-	ZIEHL-ABEGG
Frame	-	NL
Horsepower	-	3.9 (2)
Motor Rpm	-	NL
Phase	-	3
Rated Voltage	-	460
Rated Amperage	-	3.7
Service Factor	-	NL

Test Data		
	Design	Actual
SF CFM	5200	5240
RA CFM	4000	3946
OA CFM	1200	1294
RL Voltage	-	498/494/497
RL Amperage	-	3.7/3.7/3.7 // 3.6/3.7/3.6
OA Damper Position	-	OPEN
Brake Horse Power	-	3.90 / 3.83

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.78"
Fan Suction SP	-	-1.27"
Fan Discharge SP	-	0.58"
Total ESP	1.5"	1.36"
Fan Total SP	-	1.85"

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Notes:

# National TAB

Project: LA Fitness (Missouri City, TX)

## AHU/RTU



Comfort. Under control.

### Diffuser Supply (GRD)

#### DHU-1/POOL

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
D1-1		S-4	12"	400	712	421	105.3
D1-2		S-4	12"	400	759	409	102.3
D1-3		S-4	12"	400	403	387	96.8
D1-4		S-4	12"	400	443	425	106.3
D1-5		S-5	8"	200	134	209	104.5
D1-6		S-5	8"	200	129	211	105.5
D1-7		S-5	8"	200	149	204	102.0
D1-8		S-5	8"	200	143	198	99.0
D1-9		S-5	8"	200	157	182	91.0
D1-10		S-5	8"	200	184	193	96.5
D1-11		S-5	8"	200	138	180	90.0
D1-12		S-5	8"	200	144	186	93.0
D1-13		S-5	8"	200	158	189	94.5
D1-14		S-5	8"	200	167	194	97.0
D1-15		S-5	8"	200	139	184	92.0
D1-16		S-5	8"	200	154	186	93.0
D1-17		S-4	12"	400	633	431	107.8
D1-18		S-4	12"	400	508	421	105.3
D1-19		S-4	12"	400	503	430	107.5

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# National TAB

Project: LA Fitness (Missouri City, TX)

## System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU-1

AREA:141 BASKETBALL

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	3519P82076
Model Num	NA	48HCDD12A2A6A0A0M0
Configuration	VERTICAL	HORIZONTAL DISCHARGE
Num OA Filters 1	-	2
OA Filter Size 1	-	15x20x1
Num PreFilter 1	-	4
PreFilter Size 1	-	20x20x2

Test Data		
	Design	Actual
SF CFM	4000	3339
SF RPM	-	616
RA CFM	3520	2884
OA CFM	480	455
RL Voltage	-	493/496/496
RL Amperage	-	1.6/1.4/1.6
OA Damper Position	-	1/4"
Brake Horse Power	2.93	NA

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	-	NL
Motor Rpm	-	1750
Phase	-	3
Rated Voltage	-	460
Rated Amperage	-	4.6
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.29"
Fan Suction SP	-	-0.43"
Fan Discharge SP	-	0.32"
Total ESP	1.0"	0.61"
Fan Total SP	-	0.75"

Drive Data		
	Design	Actual
Motor Sheave Size	-	1VM50
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	4.0 TURNS OPEN
Fan Sheave Size	-	AFD74
Fan Sheave Bore	-	1"
Belt CL Distance	-	17"
Num of Belts	-	1
Belt Size	-	A49

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# National TAB

Project: LA Fitness (Missouri City, TX)

## AHU/RTU



Comfort. Under control.

### Diffuser Supply (GRD)

#### RTU-1/141 BASKETBALL

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-1				4000	3339	3339	83.5

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# National TAB

Project: LA Fitness (Missouri City, TX)

## System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU-2

AREA:ANCILLARY/MED SPA

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	3519P82077
Model Num	NA	48HCDD12A2A6A0A0M0
Configuration	VERTICAL	HORIZONTAL DISCHARGE
Num OA Filters 1	-	2
OA Filter Size 1	-	15x20x1
Num PreFilter 1	-	4
PreFilter Size 1	-	20x20x2

Test Data		
	Design	Actual
SF CFM	4000	3857
SF RPM	-	758
RA CFM	3520	3419
OA CFM	480	438
RL Voltage	-	496/494/497
RL Amperage	-	2.6/2.6/2.4
OA Damper Position	-	1/4"
Brake Horse Power	2.93	NA

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	-	NL
Motor Rpm	-	1750
Phase	-	3
Rated Voltage	-	460
Rated Amperage	-	4.6
Service Factor	-	NL

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.32"
Fan Suction SP	-	-0.45"
Fan Discharge SP	-	0.33"
Total ESP	1.0"	0.65"
Fan Total SP	-	0.78"

Drive Data		
	Design	Actual
Motor Sheave Size	-	1VM50
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	4.0 TURNS OPEN
Fan Sheave Size	-	AFD74
Fan Sheave Bore	-	1"
Belt CL Distance	-	17"
Num of Belts	-	1
Belt Size	-	A49

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# National TAB

Project: LA Fitness (Missouri City, TX)

## AHU/RTU



Comfort. Under control.

### Diffuser Supply (GRD)

#### RTU-2/ANCILLARY/MED SPA

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-1		C	30"X14"	1850	1893	1893	102.3
2-2		A	8"	150			-
2-3		C	30"X14"	2000	1964	1964	98.2

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# National TAB

Project: LA Fitness (Missouri City, TX)

## System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU-3

AREA:140 PHYSICAL THERAPY

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	3519P81948
Model Num	NA	48HCDE07A1A6A6W2M0
Configuration	VERTICAL	VERTICAL DISCHARGE
Num OA Filters 1	-	1
OA Filter Size 1	-	20x36x1
Num PreFilter 1	-	4
PreFilter Size 1	-	16x20x2

Test Data		
	Design	Actual
SF CFM	2400	2559
SF RPM	-	691
RA CFM	2040	2208
OA CFM	360	351
RL Voltage	-	497/497/495
RL Amperage	-	1.4/1.3/1.6
OA Damper Position	-	3.5 VDC (18%)
Brake Horse Power	1.24	NA

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	-	NL
Motor Rpm	-	1690
Phase	-	3
Rated Voltage	-	460
Rated Amperage	-	2.7
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.35"
Fan Suction SP	-	-0.56"
Fan Discharge SP	-	0.43"
Total ESP	0.5"	0.78"
Fan Total SP	-	0.99"

Drive Data		
	Design	Actual
Motor Sheave Size	-	1VL34
Motor Bore Size	-	5/8"
Motor Sheave SetPt	-	1.5 TURNS OPEN
Fan Sheave Size	-	AK71
Fan Sheave Bore	-	1"
Belt CL Distance	-	17 1/4"
Num of Belts	-	1
Belt Size	-	A48

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# National TAB

Project: LA Fitness (Missouri City, TX)

## AHU/RTU



Comfort. Under control.

### Diffuser Supply (GRD)

#### RTU-3/140 PHYSICAL THERAPY

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3-1		S-2	18"X6"	300	317	330	110.0
3-2		S-2	18"X6"	300	337	324	108.0
3-3		S-2	18"X6"	300	284	297	99.0
3-4		S-2	18"X6"	300	342	317	105.7
3-5		S-2	18"X6"	300	309	324	108.0
3-6		S-2	18"X6"	300	310	322	107.3
3-7		S-2	18"X6"	300	377	326	108.7
3-8		S-2	18"X6"	300	309	319	106.3

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# National TAB

Project: LA Fitness (Missouri City, TX)

## System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU-4

AREA:139 AEROBICS/CYCLING

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	3619P24093
Model Num	NA	48HCDE17A3A6A6W2J0
Configuration	VERTICAL	VERTICAL DISCHARGE
Num OA Filters 1	-	4
OA Filter Size 1	-	16x25x1
Num PreFilter 1	-	6
PreFilter Size 1	-	20x25x2

Test Data		
	Design	Actual
SF CFM	6000	6429
SF RPM	-	892
RA CFM	5280	5680
OA CFM	720	749
RL Voltage	-	497/495/497
RL Amperage	-	4.2/4.1/3.9
OA Damper Position	-	3.70 VDC (21%)
Brake Horse Power	3.50	NA

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	145TZ
Horsepower	-	NL
Motor Rpm	-	1745
Phase	-	3
Rated Voltage	-	460
Rated Amperage	-	7.0
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.49"
Fan Suction SP	-	-0.73"
Fan Discharge SP	-	0.55"
Total ESP	1.0	1.04"
Fan Total SP	-	1.28"

Drive Data		
	Design	Actual
Motor Sheave Size	-	1VP62
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	3.5 TURNS OPEN
Fan Sheave Size	-	BK100
Fan Sheave Bore	-	1 3/16"
Belt CL Distance	-	13 1/2"
Num of Belts	-	1
Belt Size	-	BX48

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# National TAB

Project: LA Fitness (Missouri City, TX)

## AHU/RTU



Comfort. Under control.

**Diffuser Supply (GRD)**

**RTU-4/139 AEROBICS/CYCLING**

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
4-1		S-3	50"X10"	1500	1565	1558	103.9
4-2		S-3	50"X10"	1500	1685	1642	109.5
4-3		S-3	50"X10"	1500	1617	1592	106.1
4-4		S-3	50"X10"	1500	1895	1637	109.1

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Project: LA Fitness (Missouri City, TX)

## System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU-5

AREA:WOMENS LOCKER

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	3519P82005
Model Num	NA	48HCDE08A2A6A6W2M0
Configuration	VERTICAL	VERTICAL DISCHARGE
Num OA Filters 1	-	1
OA Filter Size 1	-	20x36x1
Num PreFilter 1	-	4
PreFilter Size 1	-	20x20x2

Test Data		
	Design	Actual
SF CFM	3000	2867
SF RPM	-	780
RA CFM	2550	2438
OA CFM	450	429
RL Voltage	-	497/497/495
RL Amperage	-	3.3/3.3/3.1
OA Damper Position	-	3.45 VDC (18%)
Brake Horse Power	1.35	NA

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	-	NL
Motor Rpm	-	1670
Phase	-	3
Rated Voltage	-	460
Rated Amperage	-	3.3
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.44"
Fan Suction SP	-	-0.69"
Fan Discharge SP	-	0.43"
Total ESP	0.5"	0.87"
Fan Total SP	-	1.12"

Drive Data		
	Design	Actual
Motor Sheave Size	-	1VL44
Motor Bore Size	-	5/8"
Motor Sheave SetPt	-	3.5 TURNS OPEN
Fan Sheave Size	-	AFD74
Fan Sheave Bore	-	1"
Belt CL Distance	-	16 1/2"
Num of Belts	-	1
Belt Size	-	A48

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Notes:

# National TAB

Project: LA Fitness (Missouri City, TX)

## AHU/RTU



Comfort. Under control.

**Diffuser Supply (GRD)**

**RTU-5/WOMENS LOCKER**

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
5-1		S-1	10"	350	262	329	94.0
5-2		S-1	10"	350	291	337	96.3
5-3		S-1	10"	375	350	376	100.3
5-4		S-1	10"	375	401	342	91.2
5-5		S-1	10"	375	380	339	90.4
5-6		S-1	10"	375	369	347	92.5
5-7		S-1	8"	150	190	143	95.3
5-8		S-1	8"	150	154	159	106.0
5-9		S-1	6"	100	110	103	103.0
5-10		S-2	10"X6"	80	92	84	105.0
5-11		S-2	18"X6"	250	176	235	94.0
5-12		S-1	6"	70	138	73	104.3

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# National TAB

Project: LA Fitness (Missouri City, TX)

## System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU-6

AREA:MENS LOCKER

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	3519P82004
Model Num	NA	48HCDE08A2A6A6W2M0
Configuration	VERTICAL	VERTICAL DISCHARGE
Num OA Filters 1	-	1
OA Filter Size 1	-	20x36x1
Num PreFilter 1	-	4
PreFilter Size 1	-	20x20x2

Test Data		
	Design	Actual
SF CFM	3000	3041
SF RPM	-	808
RA CFM	2550	2602
OA CFM	450	439
RL Voltage	-	499/499/495
RL Amperage	-	2.4/2.4/2.3
OA Damper Position	-	3.40 VDC (18%)
Brake Horse Power	1.35	NA

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	-	NL
Motor Rpm	-	1670
Phase	-	3
Rated Voltage	-	460
Rated Amperage	-	3.3
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.41"
Fan Suction SP	-	-0.68"
Fan Discharge SP	-	0.46"
Total ESP	0.5"	0.87"
Fan Total SP	-	1.14"

Drive Data		
	Design	Actual
Motor Sheave Size	-	1VL44
Motor Bore Size	-	5/8"
Motor Sheave SetPt	-	3.0 TURNS OPEN
Fan Sheave Size	-	AFD74
Fan Sheave Bore	-	1"
Belt CL Distance	-	17"
Num of Belts	-	1
Belt Size	-	A49

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Notes:

# National TAB

Project: LA Fitness (Missouri City, TX)

## AHU/RTU



Comfort. Under control.

**Diffuser Supply (GRD)**

**RTU-6/MENS LOCKER**

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
6-1		S-1	10"	400	387	402	100.5
6-2		S-1	10"	400	439	411	102.8
6-3		S-1	10"	400	374	399	99.8
6-4		S-1	10"	400	330	379	94.8
6-5		S-1	10"	400	467	419	104.8
6-6		S-1	10"	400	457	406	101.5
6-7		S-1	10"	300	334	317	105.7
6-8		S-1	6"	100	69	94	94.0
6-9		S-1	8"	200	251	214	107.0

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# National TAB

Project: LA Fitness (Missouri City, TX)

## System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU-7

AREA: VESTIBULE

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	3519P82003
Model Num	NA	48HCDD08A2A6A6W2M0
Configuration	VERTICAL	VERTICAL DISCHARGE
Num OA Filters 1	-	1
OA Filter Size 1	-	20x36x1
Num PreFilter 1	-	4
PreFilter Size 1	-	20x20x2

Test Data		
	Design	Actual
SF CFM	3000	3065
SF RPM	-	759
RA CFM	2550	2595
OA CFM	450	470
RL Voltage	-	497/498/496
RL Amperage	-	2.4/2.3/2.2
OA Damper Position	-	3.60 VDC (20%)
Brake Horse Power	1.17	NA

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	-	NL
Motor Rpm	-	1670
Phase	-	3
Rated Voltage	-	460
Rated Amperage	-	3.3
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.42"
Fan Suction SP	-	-0.69"
Fan Discharge SP	-	0.47"
Total ESP	0.5"	0.89"
Fan Total SP	-	1.16"

Drive Data		
	Design	Actual
Motor Sheave Size	-	1VL44
Motor Bore Size	-	5/8"
Motor Sheave SetPt	-	4.0 TURNS OPEN
Fan Sheave Size	-	AFD74
Fan Sheave Bore	-	1"
Belt CL Distance	-	16 3/4"
Num of Belts	-	1
Belt Size	-	A48

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Notes:

# National TAB

Project: LA Fitness (Missouri City, TX)

## AHU/RTU



Comfort. Under control.

### Diffuser Supply (GRD)

#### RTU-7/VESTIBULE

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
7-1		S-1	8"	150	189	160	106.7
7-2		S-1	8"	200	175	189	94.5
7-3		S-2	18"X6"	300	229	279	93.0
7-4		S-1	8"	200	244	217	108.5
7-5		S-1	8"	150	246	158	105.3
7-6		S-1	8"	200	243	211	105.5
7-7		S-1	12"	500	446	483	96.6
7-8		A	10"	300	247	284	94.7
7-9		S-1	10"	350	369	383	109.4
7-10		S-1	10"	350	417	381	108.9
7-11		S-1	10"	300	311	320	106.7

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# National TAB

Project: LA Fitness (Missouri City, TX)

## System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU-8

AREA: MAIN FLOOR

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	3619P24007
Model Num	NA	48HCDD17A2A6A6W2J0
Configuration	VERTICAL	VERTICAL DISCHARGE
Num OA Filters 1	-	4
OA Filter Size 1	-	16x25x1
Num PreFilter 1	-	6
PreFilter Size 1	-	20x25x2

Test Data		
	Design	Actual
SF CFM	6000	6136
SF RPM	-	717
RA CFM	5100	5219
OA CFM	900	917
RL Voltage	-	490/489/492
RL Amperage	-	3.3/3.2/3.1
OA Damper Position	-	4.75 VDC (34%)
Brake Horse Power	2.19	NA

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	-	NL
Motor Rpm	-	1750
Phase	-	3
Rated Voltage	-	460
Rated Amperage	-	4.6
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.59"
Fan Suction SP	-	-0.87"
Fan Discharge SP	-	0.52"
Total ESP	0.5"	1.11"
Fan Total SP	-	1.39"

Drive Data		
	Design	Actual
Motor Sheave Size	-	1VP50
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	5.0 TURNS OPEN
Fan Sheave Size	-	BK100
Fan Sheave Bore	-	1 3/16"
Belt CL Distance	-	12"
Num of Belts	-	1
Belt Size	-	BX44

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Notes:

# National TAB

Project: LA Fitness (Missouri City, TX)

## AHU/RTU



Comfort. Under control.

### Diffuser Supply (GRD)

#### RTU-8/MAIN FLOOR

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
8-1		S-3	50"X10"	1500			-
8-2		S-3	50"X10"	1500			-
8-3		S-3	50"X10"	1500			-
8-4		S-3	50"X10"	1500			-

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# National TAB

Project: LA Fitness (Missouri City, TX)

## System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU-9

AREA: MAIN FLOOR

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	3619P24006
Model Num	NA	48HCDD17A2A6A6W2J0
Configuration	VERTICAL	VERTICAL DISCHARGE
Num OA Filters 1	-	4
OA Filter Size 1	-	16x25x1
Num PreFilter 1	-	6
PreFilter Size 1	-	20x25x2

Test Data		
	Design	Actual
SF CFM	6000	6342
SF RPM	-	724
RA CFM	5100	5412
OA CFM	900	930
RL Voltage	-	496/490/495
RL Amperage	-	3.3/3.4/3.6
OA Damper Position	-	4.85 VDC (35%)
Brake Horse Power	2.19	NA

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	-	NL
Motor Rpm	-	1750
Phase	-	3
Rated Voltage	-	460
Rated Amperage	-	4.6
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.62"
Fan Suction SP	-	-0.90"
Fan Discharge SP	-	0.58"
Total ESP	0.5"	1.20"
Fan Total SP	-	1.48"

Drive Data		
	Design	Actual
Motor Sheave Size	-	1VM50
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	5.0 TURNS OPEN
Fan Sheave Size	-	BK100
Fan Sheave Bore	-	1 3/16"
Belt CL Distance	-	12 1/2"
Num of Belts	-	1
Belt Size	-	B44

Completed By: Wesley John

Notes:

# National TAB

Project: LA Fitness (Missouri City, TX)

## AHU/RTU



Comfort. Under control.

### Diffuser Supply (GRD)

#### RTU-9/MAIN FLOOR

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
9-1		S-3	50"X10"	1500			-
9-2		S-3	50"X10"	1500			-
9-3		S-3	50"X10"	1500			-
9-4		S-3	50"X10"	1500			-

Completed By: Michael Gabbert on

# National TAB

Project: LA Fitness (Missouri City, TX)  
System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU-10

AREA: MAIN FLOOR

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	3619P24005
Model Num	NA	48HCDD17A2A6A6W2J0
Configuration	VERTICAL	VERTICAL DISCHARGE
Num OA Filters 1	-	4
OA Filter Size 1	-	16x25x1
Num PreFilter 1	-	6
PreFilter Size 1	-	20x25x2

Test Data		
	Design	Actual
SF CFM	6000	6211
SF RPM	-	727
RA CFM	5100	5297
OA CFM	900	914
RL Voltage	-	496/493/496
RL Amperage	-	3.2/3.3/3.5
OA Damper Position	-	4.80 VDC (35%)
Brake Horse Power	2.19	NA

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	-	NL
Motor Rpm	-	1750
Phase	-	3
Rated Voltage	-	460
Rated Amperage	-	4.6
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.70"
Fan Suction SP	-	-0.94"
Fan Discharge SP	-	0.52"
Total ESP	0.5"	1.22"
Fan Total SP	-	1.46"

Drive Data		
	Design	Actual
Motor Sheave Size	-	1VM50
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	5.0 TURNS OPEN
Fan Sheave Size	-	BK100
Fan Sheave Bore	-	1 3/16"
Belt CL Distance	-	12 1/2"
Num of Belts	-	1
Belt Size	-	B44

Completed By: Wesley John

Notes:

# National TAB

Project: LA Fitness (Missouri City, TX)

## AHU/RTU



Comfort. Under control.

### Diffuser Supply (GRD)

#### RTU-10/MAIN FLOOR

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
10-1		S-3	50"X10"	1500			-
10-2		S-3	50"X10"	1500			-
10-3		S-3	50"X10"	1500			-
10-4		S-3	50"X10"	1500			-

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# National TAB

Project: LA Fitness (Missouri City, TX)  
System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU-11

AREA:MAIN FLOOR

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	3619P24004
Model Num	NA	48HCDD17A2A6A6W2J0
Configuration	VERTICAL	VERTICAL DISCHARGE
Num OA Filters 1	-	4
OA Filter Size 1	-	16x25x1
Num PreFilter 1	-	6
PreFilter Size 1	-	20x25x2

Test Data		
	Design	Actual
SF CFM	6000	6342
SF RPM	-	710
RA CFM	5100	5414
OA CFM	900	928
RL Voltage	-	496/493/496
RL Amperage	-	3.3/3.2/3.0
OA Damper Position	-	4.50 VDC (31%)
Brake Horse Power	2.19	NA

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	-	NL
Motor Rpm	-	1750
Phase	-	3
Rated Voltage	-	460
Rated Amperage	-	4.6
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.72"
Fan Suction SP	-	-0.99"
Fan Discharge SP	-	0.56"
Total ESP	0.5"	1.28"
Fan Total SP	-	1.55"

Drive Data		
	Design	Actual
Motor Sheave Size	-	1VM50
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	5.0 TURNS OPEN
Fan Sheave Size	-	BK100
Fan Sheave Bore	-	1 3/16"
Belt CL Distance	-	12 1/2"
Num of Belts	-	1
Belt Size	-	B44

Completed By: Wesley John

Notes:

# National TAB

Project: LA Fitness (Missouri City, TX)

## AHU/RTU



Comfort. Under control.

### Diffuser Supply (GRD)

#### RTU-11/MAIN FLOOR

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
11-1		S-3	50"X10"	1500			-
11-2		S-3	50"X10"	1500			-
11-3		S-3	50"X10"	1500			-
11-4		S-3	50"X10"	1500			-

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# National TAB

Project: LA Fitness (Missouri City, TX)  
System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU-12

AREA: XPOX

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	3619P24003
Model Num	NA	48HCDD17A2A6A6W2J0
Configuration	VERTICAL	VERTICAL DISCHARGE
Num OA Filters 1	-	4
OA Filter Size 1	-	16x25x1
Num PreFilter 1	-	6
PreFilter Size 1	-	20x25x2

Test Data		
	Design	Actual
SF CFM	6000	6213
SF RPM	-	756
RA CFM	5100	5279
OA CFM	900	934
RL Voltage	-	496/495/497
RL Amperage	-	2.6/2.7/2.7
OA Damper Position	-	5.20 VDC (40%)
Brake Horse Power	2.19	NA

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	-	NL
Motor Rpm	-	1750
Phase	-	3
Rated Voltage	-	460
Rated Amperage	-	4.6
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.64"
Fan Suction SP	-	-0.90"
Fan Discharge SP	-	0.53"
Total ESP	0.5"	1.17"
Fan Total SP	-	1.43"

Drive Data		
	Design	Actual
Motor Sheave Size	-	1VM50
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	4.5 TURNS OPEN
Fan Sheave Size	-	BK100
Fan Sheave Bore	-	1 3/16"
Belt CL Distance	-	12 12"
Num of Belts	-	1
Belt Size	-	B44

Completed By: Wesley John

Notes:

# National TAB

Project: LA Fitness (Missouri City, TX)

## AHU/RTU



Comfort. Under control.

### Diffuser Supply (GRD)

#### RTU-12/XPOX

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
12-1		C	30"X14"	3000	3427	3222	107.4
12-2		C	30"X14"	3000	3181	2991	99.7

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# National TAB

Project: LA Fitness (Missouri City, TX)  
System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-1

AREA:112

Unit Data		
	Design	Actual
<b>MFG</b>	NA	NA
<b>Model Num</b>	NA	NA
<b>Serial Num</b>	-	
<b>Type</b>	-	CRE

Test Data		
	Design	Actual
<b>CFM</b>	300	
<b>Fan RPM</b>	-	
<b>RL Voltage</b>	-	
<b>RL Amperage</b>	-	
<b>Suction ESP</b>	-	
<b>Discharge ESP</b>	-	
<b>Total ESP</b>	0.6"	
<b>Brake Horse Power</b>	-	

Motor Data		
	Design	Actual
<b>Motor MFG</b>	-	
<b>Frame</b>	-	
<b>Horsepower</b>	0.25	
<b>Motor Rpm</b>	-	
<b>Phase</b>	1	
<b>Voltage (rated)</b>	277	
<b>Amperage (rated)</b>	-	
<b>Service Factor</b>	-	

Drive Data		
	Design	Actual
<b>Motor Sheave Size</b>	-	
<b>Motor Bore Size</b>	-	
<b>Motor Sheave SetPt</b>	-	
<b>Fan Sheave Size</b>	-	
<b>Fan Sheave Bore</b>	-	
<b>Belt CL Distance</b>	-	
<b>Num of Belts</b>	-	
<b>Belt Size</b>	-	

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Notes:

# National TAB

Project: LA Fitness (Missouri City, TX)

## FAN - Exhaust



Comfort. Under control.

**Diffuser Ret/Exh (GRD)**

**EF-1/112**

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
E1-1	E-1	12"X12"	300					-

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# National TAB

Project: LA Fitness (Missouri City, TX)  
System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-2

AREA:110

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	GB-071-4
Serial Num	-	16107247
Type	-	CRE

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56
Horsepower	0.25	0.25
Motor Rpm	-	1725
Phase	1	1
Voltage (rated)	277	277
Amperage (rated)	-	2.1
Service Factor	-	1.35

Drive Data		
	Design	Actual
Motor Sheave Size	-	VP30
Motor Bore Size	-	5/8"
Motor Sheave SetPt	-	2.0 TURNS OPEN
Fan Sheave Size	-	AK34
Fan Sheave Bore	-	3/4"
Belt CL Distance	-	5 1/2"
Num of Belts	-	1
Belt Size	-	3L200R

Test Data		
	Design	Actual
CFM	300	307
Fan RPM	-	1410
RL Voltage	-	276
RL Amperage	-	1.9
Suction ESP	-	-0.37"
Discharge ESP	-	ATM
Total ESP	0.6"	0.37"
Brake Horse Power	-	0.23

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Notes:

# National TAB

Project: LA Fitness (Missouri City, TX)

## FAN - Exhaust



Comfort. Under control.

### Diffuser Ret/Exh (GRD)

#### EF-2/110

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
E2-1	E-1	18"X12"	300	1.0	307	-	307	102.3

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# National TAB

Project: LA Fitness (Missouri City, TX)  
System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-3

AREA:116

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	GB-180-7-X
Serial Num	-	16107288
Type	-	CRE

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56
Horsepower	0.75	0.75
Motor Rpm	-	1725
Phase	1	1
Voltage (rated)	277	277
Amperage (rated)	-	4.3
Service Factor	-	1.25

Drive Data		
	Design	Actual
Motor Sheave Size	-	VP34
Motor Bore Size	-	5/8"
Motor Sheave SetPt	-	2.0 TURNS OPEN
Fan Sheave Size	-	AK52
Fan Sheave Bore	-	3/4"
Belt CL Distance	-	7"
Num of Belts	-	1
Belt Size	-	AP25

Test Data		
	Design	Actual
CFM	2450	2496
Fan RPM	-	955
RL Voltage	-	277
RL Amperage	-	3.3
Suction ESP	-	-0.68"
Discharge ESP	-	ATM
Total ESP	1.0"	0.68"
Brake Horse Power	-	0.58

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Notes:

# National TAB

Project: LA Fitness (Missouri City, TX)

## FAN - Exhaust



Comfort. Under control.

**Diffuser Ret/Exh (GRD)**

**EF-3/116**

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
E3-1	E-1	8"X8"	200	1.0	234	-	211	105.5
E3-2	E-1	8"X8"	200	1.0	217	-	209	104.5
E3-3	E-1	8"X8"	200	1.0	214	-	218	109.0
E3-4	E-1	8"X8"	200	1.0	191	-	198	99.0
E3-5	E-1	14"X14"	600	1.0	537	-	573	95.5
E3-6	E-1	8"X8"	150	1.0	187	-	162	108.0
E3-7	E-1	8"X8"	150	1.0	170	-	160	106.7
E3-8	E-1	8"X8"	150	1.0	159	-	162	108.0
E3-9	E-1	8"X8"	150	1.0	167	-	157	104.7
E3-10	E-1	8"X8"	150	1.0	143	-	149	99.3
E3-11	E-1	8"X8"	150	1.0	132	-	139	92.7
E3-12	E-1	8"X8"	150	1.0	164	-	158	105.3

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# National TAB

Project: LA Fitness (Missouri City, TX)

## System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-4

AREA:UNISEX

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	GB-071-4
Serial Num	-	16131938
Type	-	CRE

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56
Horsepower	0.24	0.25
Motor Rpm	-	1725
Phase	1	1
Voltage (rated)	277	277
Amperage (rated)	-	2.1
Service Factor	-	1.35

Drive Data		
	Design	Actual
Motor Sheave Size	-	VP30
Motor Bore Size	-	5/8"
Motor Sheave SetPt	-	1.5 TURNS OPEN
Fan Sheave Size	-	AK34
Fan Sheave Bore	-	3/4"
Belt CL Distance	-	5 1/2"
Num of Belts	-	1
Belt Size	-	3L200R

Test Data		
	Design	Actual
CFM	200	184
Fan RPM	-	1446
RL Voltage	-	277
RL Amperage	-	1.7
Suction ESP	-	-0.31"
Discharge ESP	-	ATM
Total ESP	0.5"	0.31"
Brake Horse Power	-	0.20

Completed By: Wesley John

Notes:

# National TAB

Project: LA Fitness (Missouri City, TX)

## FAN - Exhaust



Comfort. Under control.

**Diffuser Ret/Exh (GRD)**

**EF-4/UNISEX**

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
E4-1	E-1	8"X8"	100	1.0	103	-	93	93.0
E4-2	E-1	8"X8"	100	1.0	82	-	91	91.0

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# National TAB

Project: LA Fitness (Missouri City, TX)  
System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-5

AREA:123

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	GB-180-7-X
Serial Num	-	16107289
Type	-	CRE

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56
Horsepower	0.75	0.75
Motor Rpm	-	1725
Phase	1	1
Voltage (rated)	277	277
Amperage (rated)	-	4.3
Service Factor	-	1.25

Drive Data		
	Design	Actual
Motor Sheave Size	-	VP34
Motor Bore Size	-	5/8"
Motor Sheave SetPt	-	2.0 TURNS OPEN
Fan Sheave Size	-	AK52
Fan Sheave Bore	-	3/4"
Belt CL Distance	-	7"
Num of Belts	-	1
Belt Size	-	AP25

Test Data		
	Design	Actual
CFM	2600	2587
Fan RPM	-	958
RL Voltage	-	276
RL Amperage	-	3.1
Suction ESP	-	-0.81"
Discharge ESP	-	ATM
Total ESP	1.0"	0.81"
Brake Horse Power	-	0.54

Completed By: Wesley John

Notes:

# National TAB

Project: LA Fitness (Missouri City, TX)

## FAN - Exhaust



Comfort. Under control.

**Diffuser Ret/Exh (GRD)**

**EF-5/123**

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
E5-1	E-1	8"X8"	200	1.0	229	208	208	104.0
E5-2	E-1	8"X8"	200	1.0	208	183	183	91.5
E5-3	E-1	8"X8"	200	1.0	215	188	188	94.0
E5-4	E-1	8"X8"	200	1.0	234	210	210	105.0
E5-5	E-1	14"X14"	600	1.0	668	590	590	98.3
E5-6	E-1	8"X8"	150	1.0	165	144	144	96.0
E5-7	E-1	8"X8"	150	1.0	166	144	144	96.0
E5-8	E-1	8"X8"	150	1.0	170	154	154	102.7
E5-9	E-1	8"X8"	150	1.0	170	151	151	100.7
E5-10	E-1	8"X8"	150	1.0	152	138	138	92.0
E5-11	E-1	8"X8"	150	1.0	186	165	165	110.0
E5-12	E-1	8"X8"	150	1.0	174	149	149	99.3
E5-13	E-1	8"X8"	150	1.0	181	163	163	108.7

Completed By: Michael Gabbert on

# National TAB

Project: LA Fitness (Missouri City, TX)  
System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-6

AREA: JANITOR

Unit Data		
	Design	Actual
<b>MFG</b>	NA	GREENHECK
<b>Model Num</b>	NA	SP-B150-QD
<b>Serial Num</b>	-	105090224-0002

Test Data		
	Design	Actual
<b>CFM</b>	100	153

Motor Data		
	Design	Actual
<b>Motor MFG</b>	-	GREENHECK
<b>Horsepower</b>	57W	NL
<b>Motor Rpm</b>	-	1050
<b>Phase</b>	1	1
<b>Voltage (rated)</b>	120	115
<b>Amperage (rated)</b>	-	1.8

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Notes:

# National TAB

Project: LA Fitness (Missouri City, TX)  
System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-7

AREA: POOL

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	GB-141-7-X
Serial Num	-	16107317
Type	-	CRE

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56
Horsepower	0.75	0.75
Motor Rpm	-	1725
Phase	1	1
Voltage (rated)	277	277
Amperage (rated)	-	4.3
Service Factor	-	1.25

Drive Data		
	Design	Actual
Motor Sheave Size	-	VP34
Motor Bore Size	-	5/8"
Motor Sheave SetPt	-	2.0 TURNS OPEN
Fan Sheave Size	-	AK34
Fan Sheave Bore	-	3/4"
Belt CL Distance	-	6"
Num of Belts	-	1
Belt Size	-	AP20

Test Data		
	Design	Actual
CFM	2000	2072
Fan RPM	-	1482
RL Voltage	-	276
RL Amperage	-	3.7
Suction ESP	-	-0.76"
Discharge ESP	-	ATM
Total ESP	1.0"	0.76"
Brake Horse Power	-	0.65

Completed By: Wesley John

Notes:

# National TAB

Project: LA Fitness (Missouri City, TX)

## FAN - Exhaust



Comfort. Under control.

**Diffuser Ret/Exh (GRD)**

**EF-7/POOL**

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
E7-1	E-1	14"X14"	1000	1.0	1022	-	1031	103.1
E7-2	E-1	12"X12"	450	1.0	512	-	487	108.2
E7-3	E-1	12"X12"	450	1.0	479	-	461	102.4
E7-4	E-1	8"X8"	100	1.0	87	-	93	93.0

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# National TAB

Project: LA Fitness (Missouri City, TX)  
System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-8

AREA: POOL EQUIP.

Unit Data		
	Design	Actual
<b>MFG</b>	NA	FANTECH
<b>Model Num</b>	NA	FG 6XL
<b>Serial Num</b>	-	1004866483
<b>Type</b>	-	INLINE

Test Data		
	Design	Actual
<b>CFM</b>	260	131
<b>RL Voltage</b>	-	122
<b>RL Amperage</b>	-	1.1
<b>Total ESP</b>	0.8"	0.13"

Motor Data		
	Design	Actual
<b>Motor MFG</b>	-	NL
<b>Frame</b>	-	NL
<b>Horsepower</b>	158W	149 W
<b>Motor Rpm</b>	-	NL
<b>Phase</b>	1	1
<b>Voltage (rated)</b>	120	120
<b>Amperage (rated)</b>	-	1.31
<b>Service Factor</b>	-	NL

Completed By: Wesley John

Notes:

# National TAB

Project: LA Fitness (Missouri City, TX)  
System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-9

AREA: POOL EQUIP.

Unit Data		
	Design	Actual
MFG	NA	FANTECH
Model Num	NA	FG 6XL
Serial Num	-	1004866483
Type	-	INLINE

Test Data		
	Design	Actual
CFM	260	153
RL Voltage	-	121
RL Amperage	-	1.1
Total ESP	0.8"	0.16"

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	158W	149 W
Motor Rpm	-	NL
Phase	1	1
Voltage (rated)	120	120
Amperage (rated)	-	1.31
Service Factor	-	NL

Completed By: Wesley John

Notes: