

National TAB

Project: 09-26 NIKE - THE WOODLANDS, TX

System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU1

AREA:SALES

Unit Data		
	Design	Actual
MFG	CARRIER	CARRIER
Serial Num	-	2522P26569
Model Num	48HCDE17	48HCDE17A2M6A2X1G0
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL DISCHARGE
Num OA Filters 1	-	4
OA Filter Size 1	-	16x24
Num Final Filter 1	-	6
Final Filter Size 1	-	20x25x2

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	-	NL
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	480	460
Rated Amperage	-	4.6

Drive Data		
	Design	Actual
Motor Sheave Size	-	1VM50
Motor Bore Size	-	7/8"
Fan Sheave Size	-	BK100
Fan Sheave Bore	-	1 3/16"
Belt CL Distance	-	12"
Num of Belts	-	1
Belt Size	-	BX44

Electrical		
	Design	Actual

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Notes:

Test Data		
	Design	Actual
SF CFM	3660	3681
SF RPM	-	826
RA CFM	2675	2726
OA CFM	985	955
RL Voltage	-	479/480/477
RL Amperage	-	4.3/4.6/4.6
SF Rotation	-	CW
RA Damper Position	-	65%
Min OA Damper Position	-	35%
Min OA Damper Type	-	OPPOSED BLADE

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.71"
Fan Suction SP	-	-1.02"
Fan Discharge SP	-	0.62"
Total ESP	1.25"	1.33"
OA Temp (db/wb)	-	100.6/94.9
RA Temp (db/wb)	-	72.1/62.7
SA Temp (db/wb)	-	55.5/49.6

General		
	Design	Actual
Fan Rotation Correct	-	YES
Unit Filters Clean	-	YES

National TAB

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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	DSG1	12X8	125	0.54	4567	-	131	104.8
SGRD2	SALES	DSG1	12X8	125	0.54	-	-	127	101.6
SGRD3	SALES	DSG1	12X8	125	0.54	-	-	132	105.6
SGRD4	SALES	DSG1	12X8	125	0.54	--	-	134	107.2
SGRD5	SALES	DSG1	12X8	175	0.54	-	-	192	109.7
SGRD6	SALES	DSG1	12X8	175	0.54	-	-	187	106.9
SGRD7	SALES	DSG1	12X8	175	0.54	-	-	186	106.3
SGRD8	RR HALL	CSD3	6"	65	1.00	-	-	70	107.7
SGRD9	SALES	CSD2	6"	75	1.00	-	-	78	104.0
SGRD10	SALES	CSD2	6"	75	1.00	-	-	78	104.0
SGRD11	SALES	DSG1	12X8	175	0.54	-	-	183	104.6
SGRD12	SALES	DSG1	12X8	175	0.54	-	-	188	107.4
SGRD13	SALES	DSG1	12X8	175	0.54	-	-	182	104.0
SGRD14	SALES	DSG1	12X8	175	0.54	-	-	190	108.6
SGRD15	SALES	DSG1	12X8	175	0.54	-	-	189	108.0
SGRD16	SALES	DSG1	12X8	175	0.54	-	-	180	102.9
VAV1	SOLAR ZONE		12"	1070		-	-	975	91.1
VAV2	FITTING ROOMS		7"	300		-	-	279	93.0

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Asset	Notes
SGRD1	CFM1 COLUMN MEASUREMENT IS A TOTAL TRAVERSE.

National TAB

Project: 09-26 NIKE - THE WOODLANDS, TX

System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU2

AREA:BOH

Unit Data		
	Design	Actual
MFG	CARRIER	CARRIER
Serial Num	-	2822P78836
Model Num	48HCDE08	48HCDE08A2M6A2W1G0
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL DISCHARGE
Num OA Filters 1	-	1
OA Filter Size 1	-	20x36
Num Final Filter 1	-	4
Final Filter Size 1	-	20x20x2

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	-	NL
Motor Rpm	-	1670
Phase	3	3
Rated Voltage	480	460
Rated Amperage	-	3.3

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

Electrical		
	Design	Actual

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Notes:

Test Data		
	Design	Actual
SF CFM	2135	2164
SF RPM	-	988
RA CFM	1785	1797
OA CFM	350	367
RL Voltage	-	482/482/484
RL Amperage	-	2.8/2.8/2.8
SF Rotation	-	CCW
RA Damper Position	-	75%
Min OA Damper Position	-	25%
Min OA Damper Type	-	OPPOSED BLADE

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.42"
Fan Suction SP	-	-0.68"
Fan Discharge SP	-	0.51"
Total ESP	1.25"	0.93"
OA Temp (db/wb)	-	82.9/60.8
RA Temp (db/wb)	-	72.8/52.8
SA Temp (db/wb)	-	55.6/43.2

General		
	Design	Actual
Fan Rotation Correct	-	YES
Unit Filters Clean	-	YES

National TAB

Project:09-26 NIKE - THE WOODLANDS, TX

AHU/RTU



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Diffuser Supply (GRD)

RTU2/BOH

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	QUIET ROOM	CSD1	6"	90	1.0	120	129	99	110.0
SGRD2	BREAK ROOM	CSD1	8"	135	1.0	208	226	131	97.0
SGRD3	BREAK ROOM	CSD1	8"	140	1.0	131	144	139	99.3
SGRD4	COACH'S OFFICE	CSD1	8"	170	1.0	216	235	179	105.3
SGRD5	BOH	CSD2	8"	200	1.0	120	131	194	97.0
SGRD6	ELECTRICAL	CSD3	6"	100	1.0	124	129	108	108.0
SGRD7	IT ROOMS	CSD3	8"	200	1.0	154	167	210	105.0
SGRD8	BOH	CSD2	8"	200	1.0	174	190	198	99.0
SGRD9	BOH	CSD2	8"	200	1.0	120	127	187	93.5
SGRD10	BOH	CSD2	8"	200	1.0	152	163	189	94.5
SGRD11	BOH	CSD2	10"	250	1.0	222	243	261	104.4
SGRD12	BOH	CSD2	8"	175	1.0	213	233	191	109.1
SGRD13	RESTROOM (ADA)	CSD3	6"	75	1.0	89	94	78	104.0

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National TAB

Project: 09-26 NIKE - THE WOODLANDS, TX

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF1

AREA:RESTROOM

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	SQ-080-VG	SQ-80-VG-X
Serial Num	-	19945953
Type	INLINE	CENTRIFUGAL
Configuration	HORIZONTAL	INLINE

Motor Data		
	Design	Actual
Motor MFG	-	BROAD OCEAN
Frame	-	NL
Horsepower	1/10	0.10
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	120	120
Amperage (rated)	-	NL
Service Factor	-	NL

Test Data		
	Design	Actual
CFM	200	200
Fan RPM	1548	DIRECT DRIVE
Fan Rotation	-	CW
Motor RPM	-	DIRECT DRIVE
System SetPt	-	LOW
RL Voltage	-	121
RL Amperage	-	0.94
Total ESP	0.5"	0.39"
Fan Inlet SP	-	-0.22"
Fan Discharge SP	-	0.17"

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Notes:

National TAB

Project:09-26 NIKE - THE WOODLANDS, TX

FAN - Exhaust



Comfort. Under control.

Diffuser Ret/Exh (GRD)

EF1/RESTROOM

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	RESTROOM	CEG1	6"	100	1.0	136	93	97	97.0
EGRD2	JANITOR	CEG1	6"	100	1.0	162	109	103	103.0

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Project: 09-26 NIKE - THE WOODLANDS, TX

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF2

AREA:IT CLOSET

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	SQ-100-VG	SQ-100-VG-4-X
Serial Num	-	19945973
Type	INLINE	CENTRIFUGAL
Configuration	HORIZONTAL	INLINE

Motor Data		
	Design	Actual
Motor MFG	-	BROAD OCEAN
Frame	-	NL
Horsepower	1/4	0.25
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	120	120
Amperage (rated)	-	NL
Service Factor	-	NL

Test Data		
	Design	Actual
CFM	1000	990
Fan RPM	1385	DIRECT DRIVE
Fan Rotation	-	CW
Motor RPM	-	DIRECT DRIVE
System SetPt	-	HIGH
RL Voltage	-	122
RL Amperage	-	1.6
Total ESP	0.3"	0.41"
Fan Inlet SP	-	-0.14"
Fan Discharge SP	-	0.27"

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Notes:

National TAB

Project:09-26 NIKE - THE WOODLANDS, TX



Comfort. Under control.

VAV - Single Duct

3HVAC EQUIPMENT/

Asset									
Asset Name	Type	Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
VAV1	VAV	12"	975	975	0	0	535	540	2250
VAV2	VAV	7"	300	279	175	170	175	178	670