

Report By:

**National TAB
1329 E. KEMPER ROAD
SUITE 4210
CINCINNATI, OH 45246**

NATIONAL

TAB

Comfort. Under control.

**Report: TAB Report
Function: Test, Adjust, & Balance
Date: 06/22/2023**

PROJECT

TUKHS HM Retail Space (Overland Park, KS)

6301-6621 W 119th St

Overland Park, KS

Client

Temp-Con, Inc.
15670 S Keller St
Olathe, KS 66062

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Project: TUKHS HM Retail Space (Overland Park, KS)

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National TAB

Project: TUKHS HM Retail Space (Overland Park, KS)

System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU1

AREA:

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	3608G50364
Model Num	NA	48TFE007---511-
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	8.5X7
Num PreFilter 1	-	2
PreFilter Size 1	-	16X25X2

Motor Data		
	Design	Actual
Motor MFG	-	GE COMMERICAL MOTORS
Frame	-	56Y
Horsepower	2.0	NA
Motor Rpm	-	1725
Phase	-	3
Rated Voltage	-	208-230V
Rated Amperage	-	5.2A
Service Factor	-	1.15

Test Data		
	Design	Actual
SF CFM	2100	2384
RA CFM	1800	2175
OA CFM	300	209
RL Voltage	-	211.9V
RL Amperage	-	3.7A
OA Damper Position	-	MAX SETPOINT

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.15"
Fan Suction SP	-	-0.68"
Fan Discharge SP	-	0.50"
Total ESP	0.75	0.65"
Fan Total SP	1.10	1.18"

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Project:TUKHS HM Retail Space (Overland Park, KS)

AHU/RTU



Comfort. Under control.

Diffuser Supply (GRD)

RTU1/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
RTU1-SGRD1	LEFT-FRONT	S2	12X8	350	371	379	108.3
RTU1-SGRD2	LEFT-BACK	S2	12X8	350	391	381	108.9
RTU1-SGRD3	MIDDLE-FRONT	S2	10X8	300	337	328	109.3
RTU1-SGRD4	MIDDLE-BACK	S2	12X8	350	369	393	112.3
RTU1-SGRD5	RIGHT-FRONT	S2	10X8	300	325	337	112.3
RTU1-SGRD6	RIGHT-BACK	S2	12X8	350	424	383	109.4
RTU1-SGRD7	OFFICE	S1	8	100	167	167	167.0
Total				2100	2384	2368	112.76%

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Project: TUKHS HM Retail Space (Overland Park, KS)

System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU2

AREA:

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	4011G50528
Model Num	NA	48TCED09A2A5A0A0A0
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	NA
OA Filter Size 1	-	NA
Num PreFilter 1	-	4
PreFilter Size 1	-	20X20X2

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56Y
Horsepower	2.0	NA
Motor Rpm	-	1725
Phase	-	3
Rated Voltage	-	208-230V
Rated Amperage	-	5.2A
Service Factor	-	1.15

Test Data		
	Design	Actual
SF CFM	2900	3184
RA CFM	2500	3184
OA CFM	400	0
RL Voltage	-	208.1/208.4/208.8
RL Amperage	-	3.7/3.5/3.6
OA Damper Position	-	NA

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.24"
Fan Suction SP	-	-0.52"
Fan Discharge SP	-	0.57"
Total ESP	0.75	0.81"
Fan Total SP	1.20	1.09"

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Project:TUKHS HM Retail Space (Overland Park, KS)

AHU/RTU



Comfort. Under control.

Diffuser Supply (GRD)

RTU2/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
RTU2-SGRD1	ROOM 103	S1	8	125	177	138	110.4
RTU2-SGRD2	ROOM 102	S1	8	175	170	189	108.0
RTU2-SGRD3	OPEN AREA	S1	12	400	421	384	96.0
RTU2-SGRD4	OPEN AREA	S1	12	400	476	366	91.5
RTU2-SGRD5	NEAR FRONT DOOR	S2	12X6	250	202	217	86.8
RTU2-SGRD6	NEAR FRONT DOOR	S2	12X6	250	198	264	105.6
RTU2-SGRD7	OPEN AREA	S1	12	400	461	386	96.5
RTU2-SGRD8	OPEN AREA	S1	12	400	509	419	104.8
RTU2-SGRD9	NEAR SIDE DOOR	S2	12X6	250	267	307	122.8
RTU2-SGRD10	NEAR SIDE DOOR	S2	12X6	250	303	376	150.4
Total				2900	3184	3046	105.03%

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Project: TUKHS HM Retail Space (Overland Park, KS)

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF1

AREA:

Unit Data		
	Design	Actual
MFG	NA	ECON-AIR
Model Num	NA	EABDU18
Serial Num	-	2845862
Type	CRE	CRE

Test Data		
	Design	Actual
CFM	350	1429
RL Voltage	-	NA
RL Amperage	-	NA
Total ESP	0.50	0.86"

Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	56
Horsepower	0.10	1.00
Motor Rpm	-	1750
Phase	1	1
Voltage (rated)	120	115/208-230V
Amperage (rated)	-	9.0/4.98-4.50A
Service Factor	-	1.15

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Project:TUKHS HM Retail Space (Overland Park, KS)

FAN - Exhaust



Comfort. Under control.

Diffuser Ret/Exh (GRD)

EF1/

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EF1-EGRD1	E1	8	75	1	365	365	365	486.7
EF1-EGRD2	E1	8	100	1	336	336	336	336.0
EF1-EGRD3	E1	8	100	1	373	373	373	373.0
EF1-EGRD4	E1	8	75	1	355	355	355	473.3
Total			350		1429	1429	1429	408.29%