

**Report By:**

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

**NATIONAL**

**TAB**

Comfort. Under control.

**Report: Test, Adjust, & Balance**

**Date: 5/23/2022**

# PROJECT

**05-09 KROGER #034-356 - HOUSTON, TX  
(RTU REPLACEMENT)**

1352 W 43RD ST

HOUSTON, TX 77018

**Client**

1331 E. Airport Frwy

Irving, TX 75062

# National TAB

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# National TAB

Project: 05-09 KROGER #034-356 - HOUSTON, TX (RTU REPLACEMENT)

## System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU1

AREA:

Unit Data		
	Design	Actual
MFG	TRANE	TRANE
Serial Num	-	C21G05201
Model Num	SFHFLF604H	SFHFLF604HV10C79DA001ACC
Configuration	-	VERTICAL DISCHARGE
Num OA Filters 1	-	N/A
OA Filter Size 1	-	N/A
Num OA Filters 2	-	
OA Filter Size 2	-	
Num Final Filter 1	-	35
Final Filter Size 1	-	16x20x2
Num Final Filter 2	-	N/A
Final Filter Size 2	-	N/A

Motor Data		
	Design	Actual
Motor MFG	-	CENTURY
Frame	-	S284T
Horsepower	25	25
Motor Rpm	-	1765
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	30.5
Service Factor	-	
Efficiency	-	
Power Factor	-	

Drive Data		
	Design	Actual
Motor Sheave Size	-	2B5V60
Motor Bore Size	-	1 7/8"
Motor Sheave SetPt	-	FIXED
Fan Sheave Size	-	2B5V124
Fan Sheave Bore	-	2 3/16"
Belt CL Distance	-	35 1/4"
Num of Belts	-	2
Belt Size	-	5VX1000
Belt Alignment	-	CORRECT

Test Data		
	Design	Actual
SF CFM (Initial)	-	
SF CFM	22500	22140
SF RPM (Initial)	-	
SF RPM	851	768
RA CFM	18500	18246
OA CFM	4000	3894
RL Voltage	-	490/485/488
RL Amperage Initial	-	
RL Amperage	-	18.0/17.3/17.7
SF Rotation	-	CW
VFD Max SetPt	-	
VFD Min SetPt	-	
RA Damper Position	-	5"
OA Damper Position	-	
OA Damper Type	-	
Min OA Damper Position	-	1/4"
OA Enthalpy Setpt	-	
Brake Horse Power	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.80"
Fan Suction SP	-	-1.58"
Fan Discharge SP	-	1.22"
Total ESP	3.132"	2.02"
Fan Total SP	-	2.80"

General		
	Design	Actual
Unit free of Damage	-	
Unit Completely Assembled	-	
Unit Leveled	-	
Curb & Unit Installed Air Tight	-	
Controls Complete	-	
Unit Filters Clean	-	YES
Evap Coil Clean	-	
Condensor Coil Clean	-	
Condensor Fins Straight	-	
Condensate Drain Installed	-	

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Notes: HIGH FAN SPEED 54.0 Hz LOW FAN SPEED 27.0 Hz

Asset	Notes

# National TAB

Project: 05-09 KROGER #034-356 - HOUSTON, TX (RTU REPLACEMENT)

System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU2

AREA:

Unit Data		
	Design	Actual
MFG	TRANE	TRANE
Serial Num	-	C21G05200
Model Num	SFHFLF604H	SFHFLF604HV10C79DA001ACC
Configuration	-	VERTICAL DISCHARGE
Num OA Filters 1	-	N/A
OA Filter Size 1	-	N/A
Num OA Filters 2	-	
OA Filter Size 2	-	
Num Final Filter 1	-	35
Final Filter Size 1	-	16x20x2
Num Final Filter 2	-	N/A
Final Filter Size 2	-	N/A

Motor Data		
	Design	Actual
Motor MFG	-	CENTURY
Frame	-	S284T
Horsepower	25	25
Motor Rpm	-	1765
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	30.5
Service Factor	-	
Efficiency	-	
Power Factor	-	

Drive Data		
	Design	Actual
Motor Sheave Size	-	2B5V60
Motor Bore Size	-	1 7/8"
Motor Sheave SetPt	-	FIXED
Fan Sheave Size	-	2B5V124
Fan Sheave Bore	-	2 3/16"
Belt CL Distance	-	35 1/4"
Num of Belts	-	2
Belt Size	-	5VX1000
Belt Alignment	-	CORRECT

Test Data		
	Design	Actual
SF CFM (Initial)	-	
SF CFM	22500	21893
SF RPM (Initial)	-	
SF RPM	851	769
RA CFM	18500	18163
OA CFM	4000	3730
RL Voltage	-	491/487/489
RL Amperage Initial	-	
RL Amperage	-	19.5/18.7/19.1
SF Rotation	-	CW
VFD Max SetPt	-	
VFD Min SetPt	-	
RA Damper Position	-	5"
OA Damper Position	-	
OA Damper Type	-	
Min OA Damper Position	-	1/4"
OA Enthalpy Setpt	-	
Brake Horse Power	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.76"
Fan Suction SP	-	-1.43"
Fan Discharge SP	-	1.44"
Total ESP	3.132"	2.20"
Fan Total SP	-	2.87"

General		
	Design	Actual
Unit free of Damage	-	
Unit Completely Assembled	-	
Unit Leveled	-	
Curb & Unit Installed Air Tight	-	
Controls Complete	-	
Unit Filters Clean	-	YES
Evap Coil Clean	-	
Condensor Coil Clean	-	
Condensor Fins Straight	-	
Condensate Drain Installed	-	YES

Completed By: Wesley John

Notes: HIGH FAN SPEED 54.0 Hz LOW FAN SPEED 27.0 Hz

Asset	Notes

# National TAB

Project: 05-09 KROGER #034-356 - HOUSTON, TX (RTU REPLACEMENT)

System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU3

AREA:

Unit Data		
	Design	Actual
MFG	TRANE	TRANE
Serial Num	-	213411715L
Model Num	YHC036E4RHA	YHC036E4RHA26B0C1A1B6
Configuration	-	VERTICAL DISCHARGE
Num OA Filters 1	-	1
OA Filter Size 1	-	12x28
Num OA Filters 2	-	
OA Filter Size 2	-	
Num Final Filter 1	-	2
Final Filter Size 1	-	20x30x2
Num Final Filter 2	-	N/A
Final Filter Size 2	-	N/A

Motor Data			
	Design	Actual	
Motor MFG	-	GENTEQ	
Frame	-	NL	
Horsepower	3	0.75	
Motor Rpm	-	NL	
Phase	3	1	
Rated Voltage	460	460	
Rated Amperage	-	3.2	
Service Factor	-		
Efficiency	-		
Power Factor	-		

Drive Data		
	Design	Actual
Motor Sheave Size	-	
Motor Bore Size	-	
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
Belt Alignment	-	DIRECT DRIVE

Test Data		
	Design	Actual
SF CFM (Initial)	-	
SF CFM	1200	1237
SF RPM (Initial)	-	
SF RPM	992	DIRECT DRIVE
RA CFM	1050	1078
OA CFM	150	159
RL Voltage	-	238
RL Amperage Initial	-	
RL Amperage	-	1.1
SF Rotation	-	CW
VFD Max SetPt	-	
VFD Min SetPt	-	
RA Damper Position	-	OPEN
OA Damper Position	-	
OA Damper Type	-	
Min OA Damper Position	-	1/4"
OA Enthalpy Setpt	-	
Brake Horse Power	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.25"
Fan Suction SP	-	-0.41"
Fan Discharge SP	-	0.29"
Total ESP	0.8"	0.54"
Fan Total SP	-	0.70"

General		
	Design	Actual
Unit free of Damage	-	
Unit Completely Assembled	-	
Unit Leveled	-	
Curb & Unit Installed Air Tight	-	
Controls Complete	-	
Unit Filters Clean	-	YES
Evap Coil Clean	-	
Condensor Coil Clean	-	
Condensor Fins Straight	-	
Condensate Drain Installed	-	YES

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Notes:

Asset	Notes

# National TAB

Project: 05-09 KROGER #034-356 - HOUSTON, TX (RTU REPLACEMENT)

System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU5

AREA:

Unit Data		
	Design	Actual
MFG	TRANE	TRANE
Serial Num	-	213610506D
Model Num	YHD180G4RHD	YHD180G4RHD17F0C1A1B6
Configuration	-	VERTICAL DISCHARGE
Num OA Filters 1	-	1
OA Filter Size 1	-	18x60
Num OA Filters 2	-	
OA Filter Size 2	-	
Num Final Filter 1	-	4
Final Filter Size 1	-	16x20x2
Num Final Filter 2	-	8
Final Filter Size 2	-	20x20x2

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	2	3
Motor Rpm	-	1725
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	4.6
Service Factor	-	
Efficiency	-	
Power Factor	-	

Drive Data		
	Design	Actual
Motor Sheave Size	-	1VL40
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	1.0 TURN OPEN
Fan Sheave Size	-	BK110
Fan Sheave Bore	-	1 3/16"
Belt CL Distance	-	22"
Num of Belts	-	1
Belt Size	-	BX68
Belt Alignment	-	CORRECT

Test Data		
	Design	Actual
SF CFM (Initial)	-	
SF CFM	5625	5213
SF RPM (Initial)	-	
SF RPM	738	722
RA CFM	4625	4260
OA CFM	1000	953
RL Voltage	-	489/489/491
RL Amperage Initial	-	
RL Amperage	-	3.4/3.6/3.5
SF Rotation	-	CW
VFD Max SetPt	-	
VFD Min SetPt	-	
RA Damper Position	-	OPEN
OA Damper Position	-	
OA Damper Type	-	
Min OA Damper Position	-	1/2"
OA Enthalpy Setpt	-	
Brake Horse Power	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.47"
Fan Suction SP	-	-0.72"
Fan Discharge SP	-	0.53"
Total ESP	1.0"	1.00"
Fan Total SP	-	1.25"

General		
	Design	Actual
Unit free of Damage	-	
Unit Completely Assembled	-	
Unit Leveled	-	
Curb & Unit Installed Air Tight	-	
Controls Complete	-	
Unit Filters Clean	-	YES
Evap Coil Clean	-	
Condensor Coil Clean	-	
Condensor Fins Straight	-	
Condensate Drain Installed	-	YES

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Notes: RETURN IS HORIZONTALLY DUCTED. RETURN GRILLES SHOULD BE CLEANED. SEE PICS.

Asset	Notes