



*"Building Comfort with National TAB!"*

P - 800 / 291 / 7138

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## Balance Report

**PROJECT  
ADDRESS**

KROGER EXPANSION 034-509

4901 MAPLE AVE.

DALLAS, TX 75235

**ARCHITECT /  
ENGINEER**

KME (P# 972-812-1270)

-

IRVING, TX

**HVAC  
CONTRACTOR**

-

-

-

**NEBB TAB  
FIRM**

TEAMMATE FIRM - AIR SOLUTIONS, INC.

-

CINCINNATI, OH

This test completed on 4/19/2012

This report completed on 4/29/2012

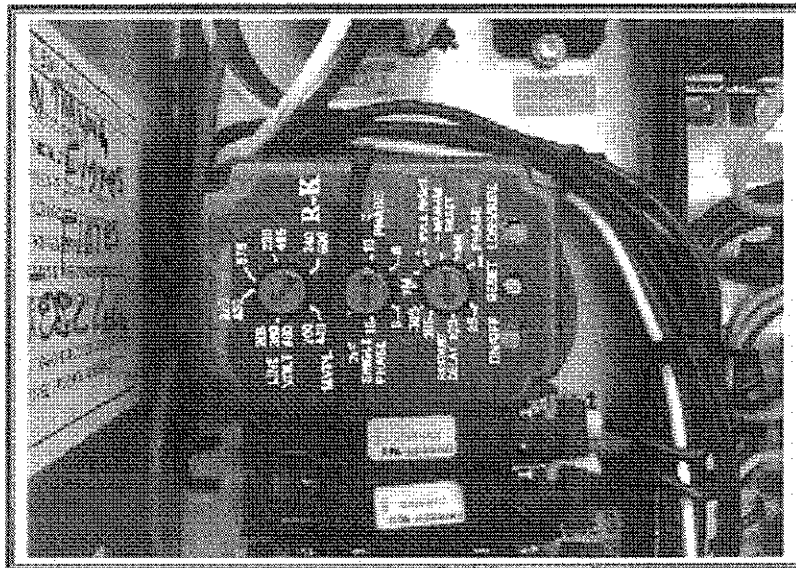
**PROJECT:** Kroger -509

**SYSTEM:** Procedure to set Brown-out Monitor on AaON UNITS

**SUMMARY**

Balancing Technician to Set for AAON UNITS ONLY (SEE BELOW)

**Phase and Brownout monitor**



*Phase & Brownout Monitor: Located inside Controls Cabinet*

**Voltage**

The top dial (Voltage) should be field set at the nameplate voltage. It is preferred to use a voltmeter to measure the single phase power across L1-L2, L2-L3 and L2-L3, average them and set the voltage at the actual duty voltage.

**Voltage Variance**

The second dial (Voltage Variance) is to be set at a value of "10". This is 1/10% the setting of the Voltage dial.

**Brownout Ride-Through**

The third dial (Brownout Ride-Through) is to be set at 10 seconds ride to prevent nuisance trip out.

If these are set correctly, and the unit has been phased correctly, the LED on the Phase monitor will glow green; if the incoming phase is incorrect or the voltage setting (top knob) is not correct, the LED will glow Red.

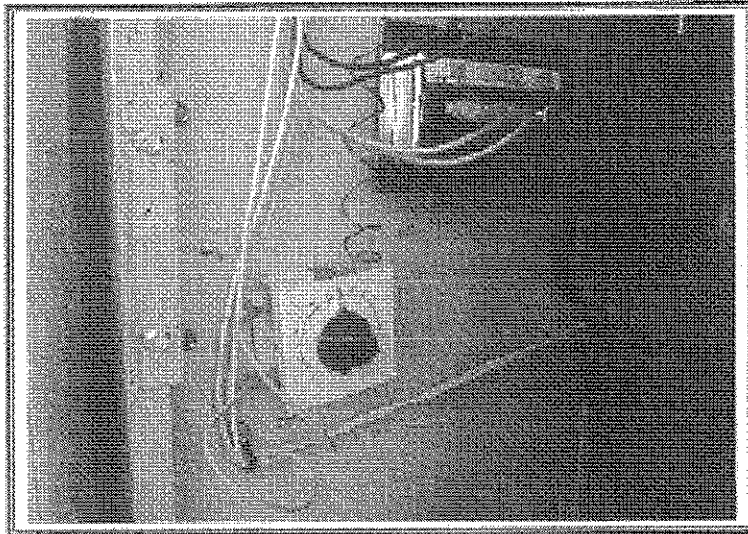
**PROJECT:** Kroger -509

**SYSTEM:** Procedure to set Freezestat on AaON UNITS

**SUMMARY**

Balancing Technician to Set for AAON UNITS ONLY (SEE BELOW) - set to 38 degrees

Freeze Thermostat



*Freeze Thermostat*

The Freeze Thermostat is located in the DX coil section. This should be factory set at 38°F, if not, set at 38°F.

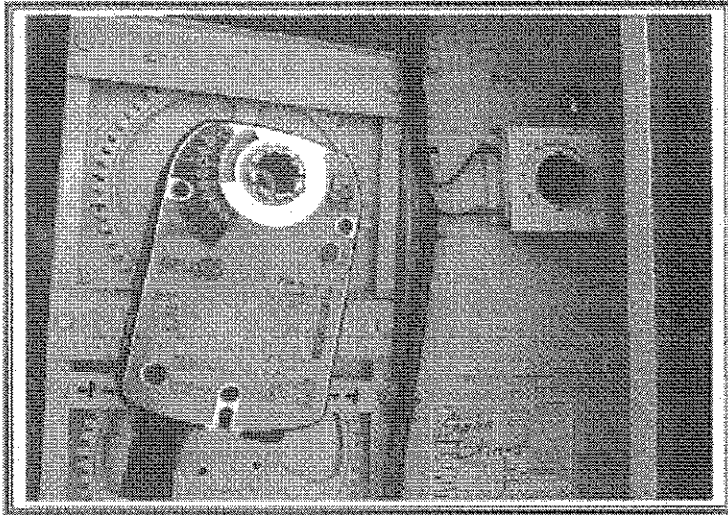
**PROJECT:** Kroger - 509

**SYSTEM:** Procedure to set Compressor Lockout on AaON UNITS

**SUMMARY**

Balancing Technician to Set for AAON UNITS ONLY (SEE BELOW) - set to 45degrees

Compressor Lockout Thermostat



The compressor lockout thermostat is located in the mixed air plenum. This is set factory set and must be field set at a minimum temperature of 45 degrees.

PROJECT: KROGER 509

LOCATION: DALLAS, TX



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### RTU & ASSOCIATED DUCTWORK CHECKLIST

**N** = NOT ACCEPTABLE & NEEDS IMMEDIATE ACTION  
**Y** = ACCEPTABLE CONDITIONS NO FURTHER ACTION REQUIRED  
**R** = RECOMMEND IMPROVEMENT BUT DOESN'T AFFECT OPENING OR IMPACT PERFORMANCE  
**N/A** = NOT APPLICABLE

Balancing technician to check all items below on each unit.  
Any items marked N must be reviewed with general contractor on site (via phone minimum) & contact the Regional Manager for National TAB immediately at 800-291-7138

DESCRIPTION	SYSTEM #			COMMENTS\ RECOMMENDED ACTION STEP
<b>RTU UNIT #</b>				
- Units are labeled and installed at proper locations	Y			
- Units size matches its design (nameplate)	Y			
- Clean filters are installed at DX coil	R			ALL FILTERS DIRTY, RECOMMEND GETTING CLEAN.
- Belts are tight and in good working order	N/A			
- Pulleys are properly aligned	N/A			
- Motors rotating correctly	Y			
- Motors are operating under full load amps	Y			
- Units sealed and properly seated to roof curb	Y			
- Evaporator coils clean and free of debris	Y			
- Gas piping installed	Y			
- Gas valves turned in the on position	Y			
- Condensate lines and P-traps installed correctly	Y			
<b>k</b>				
- No noticeable vibration or noise exist	Y			
- Economizer filters installed	N/A			
- Outside air dampers installed and functioning	Y			
- Outside air damper positions are clearly marked	Y			
- Is unit bringing in sufficient amount of outside air	Y			
- Unit is providing required supply airflow	Y			
- Condensor coil clean and free of damage	Y			
- Verify voltage input correct	Y			
- Compressors operating in correct rotation	Y			
- Heating mode tested satisfactorily	Y			
- Cooling mode tested satisfactorily	Y			
<b>DUCTWORK</b>				
- Ductwork and diffusers are installed per design	Y			
- Balance dampers installed and functional	Y			
- Balance dampers are accessible	R			RTU-9, 10 DAMPERS TOO HIGH
- Ductwork is properly covered with insulation, and insulation is secure IF required	Y			
- Tops of diffusers are properly insulated	R			
- Installed diffusers match design	Y			
<b>THERMOSTAT</b>				
If unit is required to be connected to CPC Panel - Is it wired & functional?	Y			

PROJECT: \_KROGER 509

LOCATION: DALLAS, TX



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## HOOD SYSTEM & ASSOCIATED FANS CHECKLIST

<p><b>N</b> = NOT ACCEPTABLE &amp; NEEDS IMMEDIATE ACTION</p> <p><b>Y</b> = ACCEPTABLE CONDITIONS NO FURTHER ACTION REQUIRED</p> <p><b>R</b> = RECOMMEND IMPROVEMENT BUT DOESN'T AFFECT OPENING OR IMPACT PERFORMANCE</p> <p><b>N/A</b> = NOT APPLICABLE</p>	<p>Balancing technician to check all items below on each unit. Any items marked N must be reviewed with general contractor on site (via phone minimum) &amp; contact the Regional Manager for National TAB immediately at 800-291-7138</p>
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DESCRIPTION	SYSTEM		COMMENTS / RECOMMENDATIONS
<b>HOODS / DUCT SYSTEMS</b>	EF-5		
- Welded grease duct or Listed SS grease Duct looks to be installed properly	Y		
- If fire wrap on exhaust duct does it visually appear to be installed properly (sealed)	Y		
- Make-Up-Air duct installed per plan & sufficient for balancing	N/A		
- All hood filters are installed and accounted for	Y		
- All cooking equipment is set under the hoods and operational	Y		
- Smoke capture is satisfactory	Y		
<b>HOOD EXHAUST FANS</b>	EF-5		
- Verify units marked for easy identification	R		
- Unit sealed and properly seated to roof curb	Y		
- No unusual vibration or noise	Y		
- Transition from exhaust duct to fan done properly	Y		
- Fan hinged and opened for easy access	Y		
- Grease traps properly installed on fan	Y		
- Belts properly tensioned and free of damage	Y		
- Pulleys properly aligned	Y		
- Blower wheel moves freely by hand	Y		
- Unit is providing required Exhaust airflow	Y		
- Verify on/off disconnect works	Y		
- Verify voltage input is correct	Y		
- Fan rotation is correct (compare to arrow stamped on fan)	Y		

PROJECT: KROGER 509

LOCATION: DALLAS, TX



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## RESTAURANT ENVIRONMENT CHECKLIST

**N** = NOT ACCEPTABLE & NEEDS IMMEDIATE ACTION  
**Y** = ACCEPTABLE CONDITIONS NO FURTHER ACTION REQUIRED  
**R** = RECOMMEND IMPROVEMENT BUT DOESN'T AFFECT OPENING OR IMPACT PERFORMANCE  
**N/A** = NOT APPLICABLE

Balancing technician to check all items below on each unit. Any items marked N must be reviewed with general contractor on site (via phone minimum) & contact the Regional Manager for National TAB immediately at 800-291-7138

### GENERAL EXHAUST / MUA FANS

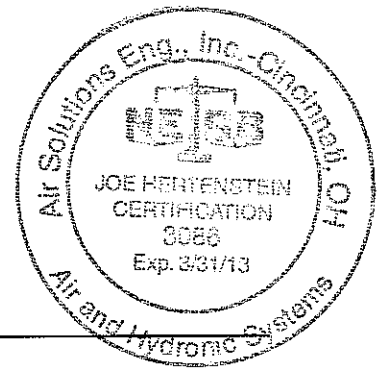
DESCRIPTION	SYSTEM			COMMENTS / RECOMMENDATIONS
	EF-2	EF-3	EF-4	
- Verify units marked for easy identification	R	R	R	
- Unit sealed and properly seated to roof curb	Y	Y	Y	
- No unusual vibration or noise	Y	Y	Y	
- Belts properly tensioned and free of damage	N/A	N/A	N/A	
- Pulleys properly aligned	N/A	N/A	N/A	
- Blower wheel moves freely by hand	Y	Y	Y	
- Unit is providing required airflow	Y	Y	N	EF-S/4 NOT POWERED
- Verify on/off disconnect works	Y	Y	N	EF-S/4 NOT POWERED
- Verify voltage input is correct	Y	Y	N	EF-S/4 NOT POWERED
- Fan rotation is correct (compare to arrow stamped on fan)	Y	Y	N	EF-S/4 NOT POWERED

### GENERAL EXHAUST / MUA FANS

DESCRIPTION	SYSTEM		COMMENTS / RECOMMENDATIONS
	EF-6	EF-7	
- Verify units marked for easy identification	R	R	
- Unit sealed and properly seated to roof curb	Y	Y	
- No unusual vibration or noise	Y	N/A	
- Belts properly tensioned and free of damage	N/A	N/A	
- Pulleys properly aligned	N/A	N/A	
- Blower wheel moves freely by hand	Y	N/A	
- Unit is providing required airflow	Y	N	EF-7 NOT POWERED
- Verify on/off disconnect works	Y	N	EF-7 NOT POWERED
- Verify voltage input is correct	Y	N	EF-7 NOT POWERED
- Fan rotation is correct (compare to arrow stamped on fan)	Y	N	EF-7 NOT POWERED



**AIR APPARATUS TEST REPORT**



**PROJECT:** KROGER - 509  
**SYSTEM/UNIT:** RTU-1

<b>UNIT DATA:</b>	
UNIT MANF.	AAON
MODEL #	RN-030-3-0-BQ02
SERIAL #	201110BNGT18938
DISCHARGE	VERTICAL
SHEAVE DIAM / BORE	DD DD
# BELTS / SIZE	DD DD
# FILTERS / SIZE	6 16X20X2
UNIT TAG (BarCode on Unit Housing)	-

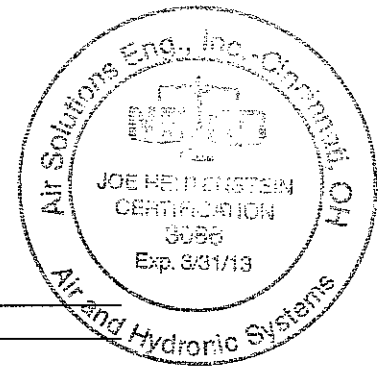
<b>MOTOR DATA:</b>	
MOTOR MANF.	BALDOR
FRAME	-
HP / RPM	15 1760
VOLTAGE / PHASE	480 3
F.L. AMPS / S.F.	21.0 1.15
SHEAVE DIAM / BORE	DD DD
C.L. DISTANCE	DD
MOTOR EFF-P.F.	-

TEST DATA	DESIGN	ACTUAL
CFM	10500	10486
FAN RPM (INITIAL)	-	41.2 Hz
FAN RPM (FINAL)	-	55 Hz
MOTOR RPM	1760	55 Hz
R.L. VOLTAGE	460	489/484/487
R.L. AMPERAGE (INITIAL)	21.0	-
R.L. AMPERAGE (FINAL)	21.0	13.4/14.0/13.1
RETURN AIR CFM	8500	8434
OUTSIDE AIR CFM	2000	2052
ROTATION	-	OK
DX FILTER CONDITION	DIRTY	

TEST DATA	DESIGN	ACTUAL
E.S.P. SUCTION	-	-1.24"
E.S.P. DISCHARGE	-	0.94"
TOTAL E.S.P.	1.50"	2.18"
UNIT TOTAL S.P. (TSP)	-	2.85"
OUTSIDE AIR / RETURN DAMPER POSITIONS	1" / 100%	
TYPE OF DAMPER	MANUAL	
<b>(IF UNIT IS AAON)-SETTINGS:</b>		
FREEZESTAT (SET @ 38 DEGREE F)	38	
COMPRESSOR LOCKOUT (SET @ 45)	45	
<b>PHASE-BROWNOUT (BLUE) MONITOR IN CABINET</b>		
Line VOLT AVERAGE (DIAL) SETTING	487	
VOLT-VARIANCE = 10	10	
3RD DIAL = 10S SET PT	10	

**REMARKS:**

## SQUARE DUCT TRAVERSE FORM



**PROJECT:** KROGER 509      **SYSTEM:** RTU-1  
**LOCATION:** DALLAS, TX      **SERVICE:** TS-1 (SUPPLY)  
**ALTITUDE:** -      **DENSITY:** -      **FACTOR:** -

<b>DUCT</b>		<b>REQUIRED</b>		<b>ACTUAL</b>	
S.P. (act)	TEMP -	SCFM -		SCFM -	
SIZE	20x36	FPM		FPM	800
AREA (ft <sup>2</sup> )	5 ft <sup>2</sup>	GPM	5310	GPM	4000 @ 41.2 Hz

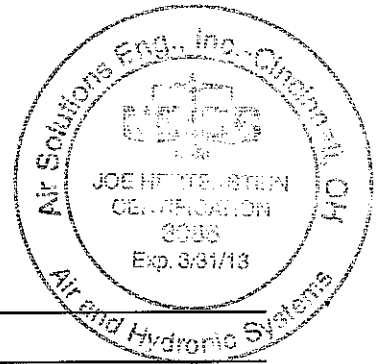
DISTANCE FROM BOTTOM	POSITION	1	2	3	4	5	6	7	8	9	10	11	12
1ST	1	943	888	984	699	626							
	2	1002	768	825	723	643							
	3	984	768	847	643	648	INITIAL						
	4	963	801	894	673	624							
	5	993	922	864	649	634							
	6												
	7												
2ND	8												
	9												
	10						FINAL						
	11												
	12												
	13												
	14												
<b>DISTANCE FROM DUCT EDGE</b>													
<b>VELOCITY SUB - TOTALS</b>													

**REMARKS:**





# AIR APPARATUS TEST REPORT



**PROJECT:** KROGER - 509  
**SYSTEM/UNIT:** RTU-2

UNIT DATA:	
UNIT MANF.	AAON
MODEL #	RN-015-3-0-CA02
SERIAL #	201110ANGL18922
DISCHARGE	VERTICAL
SHEAVE DIAM / BORE	DD DD
# BELTS / SIZE	DD DD
# FILTERS / SIZE	4 20X25X2
UNIT TAG (BarCode on Unit Housing)	-

MOTOR DATA:	
MOTOR MANF.	BALDOR
FRAME	-
HP / RPM	5 1760
VOLTAGE / PHASE	480 3
F.L. AMPS / S.F.	7.6 1.15
SHEAVE DIAM / BORE	DD DD
C.L. DISTANCE	DD
MOTOR EFF-P.F.	-

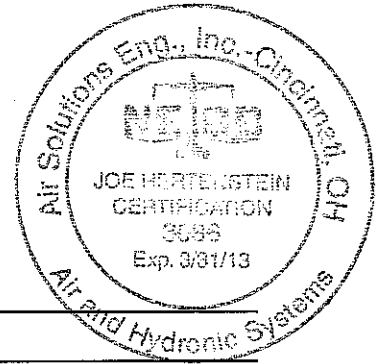
TEST DATA	DESIGN	ACTUAL
CFM	5000	5187
FAN RPM (INITIAL)	-	43 Hz
FAN RPM (FINAL)	-	39 Hz
MOTOR RPM	1760	39 Hz
R.L. VOLTAGE	460	489/484/487
R.L. AMPERAGE (INITIAL)	7.6	-
R.L. AMPERAGE (FINAL)	7.6	1.5/1.6/1.9
RETURN AIR CFM	4000	4172
OUTSIDE AIR CFM	1000	1015
ROTATION	-	OK
DX FILTER CONDITION	OK	

TEST DATA	DESIGN	ACTUAL
E.S.P. SUCTION	-	-0.18"
E.S.P. DISCHARGE	-	0.08"
TOTAL E.S.P.	0.35"	0.26"
UNIT TOTAL S.P. (TSP)	-	0.55"
OUTSIDE AIR /RETURN DAMPER POSITIONS	1" / NONE	
TYPE OF DAMPER	ECONOMIZER	
<b>(IF UNIT IS AAON)-SETTINGS:</b>		
FREEZESTAT (SET @ 38 DEGREE F)	38	
COMPRESSOR LOCKOUT (SET @ 45)	45	
<b>PHASE-BROWNOUT (BLUE) MONITOR IN CABINET</b>		
Line VOLT AVERAGE (DIAL) SETTING	487	
VOLT-VARIANCE = 10	10	
3RD DIAL = 10S SET PT	10	

**REMARKS:**



# AIR APPARATUS TEST REPORT



**PROJECT:** KROGER - 509

**SYSTEM/UNIT:** RTU-3

UNIT DATA:	
UNIT MANF.	AAON
MODEL #	RN-015-3-0-CA02
SERIAL #	201112ANGL18928
DISCHARGE	VERTICAL
SHEAVE DIAM / BORE	DD   DD
# BELTS / SIZE	DD   DD
# FILTERS / SIZE	4   20X25X2
UNIT TAG (BarCode on Unit Housing)	-

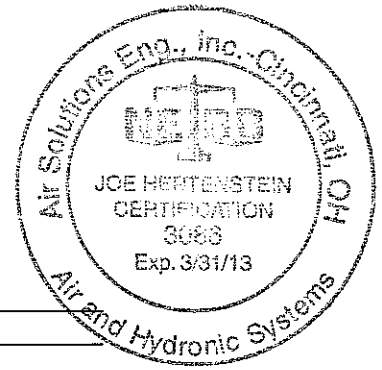
MOTOR DATA:	
MOTOR MANF.	BALDOR
FRAME	-
HP / RPM	5   1760
VOLTAGE / PHASE	480   3
F.L. AMPS / S.F.	7.6   1.15
SHEAVE DIAM / BORE	DD   DD
C.L. DISTANCE	DD
MOTOR EFF-P.F.	-

TEST DATA	DESIGN	ACTUAL
CFM	5000	5063
FAN RPM (INITIAL)	-	43 Hz
FAN RPM (FINAL)	-	41 Hz
MOTOR RPM	1760	41 Hz
R.L. VOLTAGE	460	489/483/487
R.L. AMPERAGE (INITIAL)	7.6	-
R.L. AMPERAGE (FINAL)	7.6	2.0/2.3/1.8
RETURN AIR CFM	4000	3996
OUTSIDE AIR CFM	1000	1067
ROTATION	-	OK
DX FILTER CONDITION	DIRTY	

TEST DATA	DESIGN	ACTUAL
E.S.P. SUCTION	-	-0.17"
E.S.P. DISCHARGE	-	0.14"
TOTAL E.S.P.	0.35"	0.31"
UNIT TOTAL S.P. (TSP)	-	0.69"
OUTSIDE AIR / RETURN DAMPER POSITIONS	1 1/2" / NONE	
TYPE OF DAMPER	ECONOMIZER	
<b>(IF UNIT IS AAON)-SETTINGS:</b>		
FREEZESTAT (SET @ 38 DEGREE F)	38	
COMPRESSOR LOCKOUT (SET @ 45)	45	
<b>PHASE-BROWNOUT (BLUE) MONITOR IN CABINET</b>		
Line VOLT AVERAGE (DIAL) SETTING	487	
VOLT-VARIANCE = 10	10	
3RD DIAL = 10S SET PT	10	

**REMARKS:**

## SQUARE DUCT TRAVERSE FORM



**PROJECT:** KROGER 509      **SYSTEM:** RTU-3  
**LOCATION:** DALLAS, TX      **SERVICE:** TS-3 (SUPPLY)  
**ALTITUDE:** -      **DENSITY:** -      **FACTOR:** -

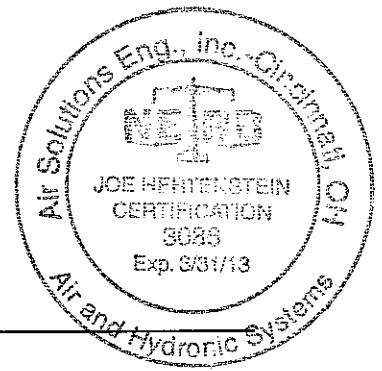
DUCT	REQUIRED	ACTUAL
S.P. (act) _____	SCFM _____	SCFM _____
TEMP _____	EPM _____	EPM 885
SIZE: 24x36	CFM 5000	CFM 5310 @ 43 Hz
AREA (ft) 6 ft <sup>2</sup>		

DISTANCE FROM BOTTOM	POSITION	1	2	3	4	5	6	7	8	9	10	11	12	
1ST	1	1169	1066	949	899	872								
	2	1345	998	764	759	877								
	3	1428	897	684	607	845	INITIAL							
	4	1381	761	561	503	792								
	5	1226	776	459	680	828								
		6												
		7												
2ND	8													
	9													
	10						FINAL							
	11													
	12													
		13												
		14												
DISTANCE FROM DUCT EDGE														
VELOCITY SUB - TOTALS														

**REMARKS:**



# AIR APPARATUS TEST REPORT



**PROJECT:** KROGER - 509

**SYSTEM/UNIT:** RTU-4

<b>UNIT DATA:</b>	
UNIT MANF.	AAON
MODEL #	RN-015-3-0-CA02
SERIAL #	201110ANGL18924
DISCHARGE	VERTICAL
SHEAVE DIAM / BORE	DD DD
# BELTS / SIZE	DD DD
# FILTERS / SIZE	4 20X25X2
UNIT TAG (BarCode on Unit Housing)	-

<b>MOTOR DATA:</b>	
MOTOR MANF.	BALDOR
FRAME	-
HP / RPM	5 1760
VOLTAGE / PHASE	480 3
F.L. AMPS / S.F.	7.6 1.15
SHEAVE DIAM / BORE	DD DD
C.L. DISTANCE	DD
MOTOR EFF-P.F.	-

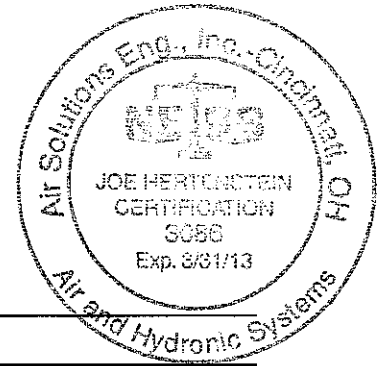
TEST DATA	DESIGN	ACTUAL
CFM	5000	5059
FAN RPM (INITIAL)	-	43 Hz
FAN RPM (FINAL)	-	39 Hz
MOTOR RPM	1760	39 Hz
R.L. VOLTAGE	460	488/482/486
R.L. AMPERAGE (INITIAL)	7.6	-
R.L. AMPERAGE (FINAL)	7.6	1.6/1.2/1.6
RETURN AIR CFM	4000	4032
OUTSIDE AIR CFM	1000	1027
ROTATION	-	OK
DX FILTER CONDITION	DIRTY	

TEST DATA	DESIGN	ACTUAL
E.S.P. SUCTION	-	-0.25"
E.S.P. DISCHARGE	-	0.05"
TOTAL E.S.P.	0.35"	0.30"
UNIT TOTAL S.P. (TSP)	-	0.54"
OUTSIDE AIR/RETURN DAMPER POSITIONS	1" / NONE	
TYPE OF DAMPER	ECONOMIZER	
<b>(IF UNIT IS AAON)-SETTINGS:</b>		
FREEZESTAT (SET @ 38 DEGREE F)	38	
COMPRESSOR LOCKOUT (SET @ 45)	45	
<b>PHASE-BROWNOUT (BLUE) MONITOR IN CABINET</b>		
Line VOLT AVERAGE (DIAL) SETTING	486	
VOLT-VARIANCE = 10	10	
3RD DIAL = 10S SET PT	10	

**REMARKS:**



# AIR APPARATUS TEST REPORT



**PROJECT:** KROGER - 509

**SYSTEM/UNIT:** RTU-5

<b>UNIT DATA:</b>	
UNIT MANF.	AAON
MODEL #	RN-015-3-0-CA02
SERIAL #	201110ANCL04620
DISCHARGE	VERTICAL
SHEAVE DIAM / BORE	DD   DD
# BELTS / SIZE	DD   DD
# FILTERS / SIZE	4   20X25X2
UNIT TAG (BarCode on Unit Housing)	-

<b>MOTOR DATA:</b>	
MOTOR MANF.	BALDOR
FRAME	-
HP / RPM	5   1760
VOLTAGE / PHASE	480   3
F.L. AMPS / S.F.	7.6   1.15
SHEAVE DIAM / BORE	DD   DD
C.L. DISTANCE	DD
MOTOR EFF-P.F.	-

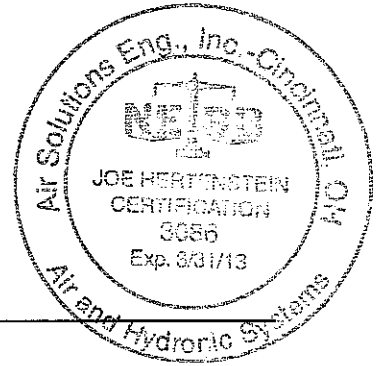
TEST DATA	DESIGN	ACTUAL
CFM	5000	5213
FAN RPM (INITIAL)	-	44 Hz
FAN RPM (FINAL)	-	40 Hz
MOTOR RPM	1760	40 Hz
R.L. VOLTAGE	460	491/485/489
R.L. AMPERAGE (INITIAL)	7.6	-
R.L. AMPERAGE (FINAL)	7.6	1.8/1.7/1.9
RETURN AIR CFM	5000	5213
OUTSIDE AIR CFM	0	0
ROTATION	-	OK
DX FILTER CONDITION	DIRTY	

TEST DATA	DESIGN	ACTUAL
E.S.P. SUCTION	-	-0.39"
E.S.P. DISCHARGE	-	0.09"
TOTAL E.S.P.	0.80"	0.48"
UNIT TOTAL S.P. (TSP)	-	0.83"
OUTSIDE AIR / RETURN DAMPER POSITIONS	0 / NONE	
TYPE OF DAMPER	ECONOMIZER	
<b>(IF UNIT IS AAON)-SETTINGS:</b>		
FREEZESTAT (SET @ 38 DEGREE F)	38	
COMPRESSOR LOCKOUT (SET @ 45)	45	
<b>PHASE-BROWNOUT (BLUE) MONITOR IN CABINET</b>		
Line VOLT AVERAGE (DIAL) SETTING	488	
VOLT-VARIANCE = 10	10	
3RD DIAL = 10S SET PT	10	

**REMARKS:**



# AIR APPARATUS TEST REPORT



**PROJECT:** KROGER - 509

**SYSTEM/UNIT:** RTU-6

<b>UNIT DATA:</b>	
UNIT MANF.	AAON
MODEL #	RN-015-3-0-CA02
SERIAL #	201110ANCL04621
DISCHARGE	VERTICAL
SHEAVE DIAM / BORE	DD   DD
# BELTS / SIZE	DD   DD
# FILTERS / SIZE	4   20X25X2
UNIT TAG (BarCode on Unit Housing)	-

<b>MOTOR DATA:</b>	
MOTOR MANF.	BALDOR
FRAME	-
HP / RPM	5   1760
VOLTAGE / PHASE	480   3
F.L. AMPS / S.F.	7.6   1.15
SHEAVE DIAM / BORE	DD   DD
C.L. DISTANCE	DD
MOTOR EFF-P.F.	-

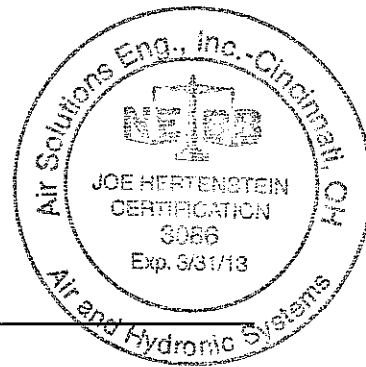
TEST DATA	DESIGN	ACTUAL
CFM	5000	5244
FAN RPM (INITIAL)	-	44 Hz
FAN RPM (FINAL)	-	40 Hz
MOTOR RPM	1760	40 Hz
R.L. VOLTAGE	460	488/483/486
R.L. AMPERAGE (INITIAL)	7.6	-
R.L. AMPERAGE (FINAL)	7.6	1.8/2.0/1.6
RETURN AIR CFM	5000	5244
OUTSIDE AIR CFM	0	0
ROTATION	-	OK
DX FILTER CONDITION	DIRTY	

TEST DATA	DESIGN	ACTUAL
E.S.P. SUCTION	-	-0.39"
E.S.P. DISCHARGE	-	0.10"
TOTAL E.S.P.	0.15"	0.49"
UNIT TOTAL S.P. (TSP)	-	0.82"
OUTSIDE AIR / RETURN DAMPER POSITIONS	0 / NONE	
TYPE OF DAMPER	ECONOMIZER	
<b>(IF UNIT IS AAON)-SETTINGS:</b>		
FREEZESTAT (SET @ 38 DEGREE F)	38	
COMPRESSOR LOCKOUT (SET @ 45)	45	
<b>PHASE-BROWNOUT (BLUE) MONITOR IN CABINET</b>		
Line VOLT AVERAGE (DIAL) SETTING	486	
VOLT-VARIANCE = 10	10	
3RD DIAL = 10S SET PT	10	

**REMARKS:**



# AIR APPARATUS TEST REPORT



**PROJECT:** KROGER - 509

**SYSTEM/UNIT:** RTU-7

UNIT DATA:	
UNIT MANF.	AAON
MODEL #	RN-015-3-0-CA02
SERIAL #	201110ANGL18925
DISCHARGE	VERTICAL
SHEAVE DIAM / BORE	DD DD
# BELTS / SIZE	DD DD
# FILTERS / SIZE	4 20X25X2
UNIT TAG (BarCode on Unit Housing)	-

MOTOR DATA:	
MOTOR MANF.	BALDOR
FRAME	-
HP / RPM	5 1760
VOLTAGE / PHASE	480 3
F.L. AMPS / S.F.	7.6 1.15
SHEAVE DIAM / BORE	DD DD
C.L. DISTANCE	DD
MOTOR EFF-P.F.	-

TEST DATA	DESIGN	ACTUAL
CFM	5000	5244
FAN RPM (INITIAL)	-	43 Hz
FAN RPM (FINAL)	-	43 Hz
MOTOR RPM	1760	43 Hz
R.L. VOLTAGE	460	488/483/488
R.L. AMPERAGE (INITIAL)	7.6	-
R.L. AMPERAGE (FINAL)	7.6	1.9/2.6/2.0
RETURN AIR CFM	4000	4212
OUTSIDE AIR CFM	1000	1032
ROTATION	-	OK
DX FILTER CONDITION	OK	

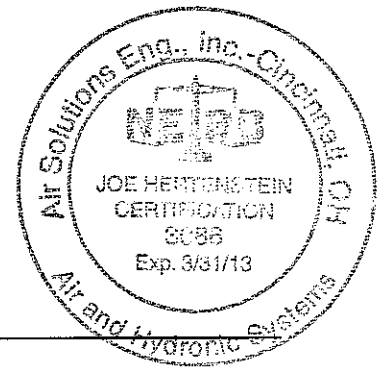
TEST DATA	DESIGN	ACTUAL
E.S.P. SUCTION	-	-0.25"
E.S.P. DISCHARGE	-	0.15"
TOTAL E.S.P.	0.35"	0.40"
UNIT TOTAL S.P. (TSP)	-	0.82"
OUTSIDE AIR /RETURN DAMPER POSITIONS	1 1/4" / NONE	
TYPE OF DAMPER	ECONOMIZER	
<b>(IF UNIT IS AAON)-SETTINGS:</b>		
FREEZESTAT (SET @ 38 DEGREE F)	38	
COMPRESSOR LOCKOUT (SET @ 45)	45	
<b>PHASE-BROWNOUT (BLUE) MONITOR IN CABINET</b>		
Line VOLT AVERAGE (DIAL) SETTING	486	
VOLT-VARIANCE = 10	10	
3RD DIAL = 10S SET PT	10	

**REMARKS:**





# AIR APPARATUS TEST REPORT



**PROJECT:** KROGER - 509  
**SYSTEM/UNIT:** RTU-8

UNIT DATA:	
UNIT MANF.	AAON
MODEL #	RN-015-3-0-CA02
SERIAL #	201110ANGL18926
DISCHARGE	VERTICAL
SHEAVE DIAM / BORE	DD   DD
# BELTS / SIZE	DD   DD
# FILTERS / SIZE	4   20X25X2
UNIT TAG (BarCode on Unit Housing)	-

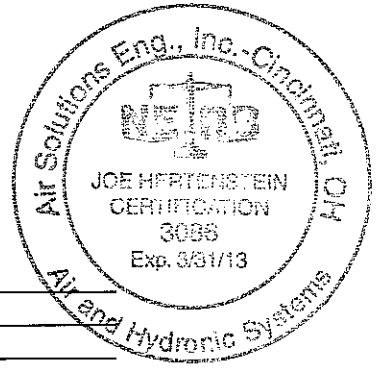
MOTOR DATA:	
MOTOR MANF.	BALDOR
FRAME	-
HP / RPM	5   1725
VOLTAGE / PHASE	480   3
F.L. AMPS / S.F.	7.6   1.15
SHEAVE DIAM / BORE	DD   DD
C.L. DISTANCE	DD
MOTOR EFF-P.F.	-

TEST DATA	DESIGN	ACTUAL
CFM	5000	5280
FAN RPM (INITIAL)	-	43 Hz
FAN RPM (FINAL)	-	43 Hz
MOTOR RPM	1760	43 Hz
R.L. VOLTAGE	460	489/484/488
R.L. AMPERAGE (INITIAL)	7.6	-
R.L. AMPERAGE (FINAL)	7.6	2.4/1.9/2.0
RETURN AIR CFM	4000	4236
OUTSIDE AIR CFM	1000	1044
ROTATION	-	OK
DX FILTER CONDITION	OK	

TEST DATA	DESIGN	ACTUAL
E.S.P. SUCTION	-	-0.25"
E.S.P. DISCHARGE	-	0.08"
TOTAL E.S.P.	0.35"	0.33"
UNIT TOTAL S.P. (TSP) OUTSIDE AIR /RETURN DAMPER POSITIONS	-	0.53"
	3/4" / NONE	
TYPE OF DAMPER	ECONOMIZER	
<b>(IF UNIT IS AAON)-SETTINGS:</b>		
FREEZESTAT (SET @ 38 DEGREE F)	38	
COMPRESSOR LOCKOUT (SET @ 45	45	
<b>PHASE-BROWNOUT (BLUE) MONITOR IN CABINET</b>		
Line VOLT AVERAGE (DIAL) SETTING	487	
VOLT-VARIANCE = 10	10	
3RD DIAL = 10S SET PT	10	

**REMARKS:**

# SQUARE DUCT TRAVERSE FORM



**PROJECT:** KROGER 509      **SYSTEM:** RTU-8  
**LOCATION:** DALLAS, TX      **SERVICE:** TS-9 (SUPPLY)  
**ALTITUDE:** -      **DENSITY:** -      **FACTOR:** -

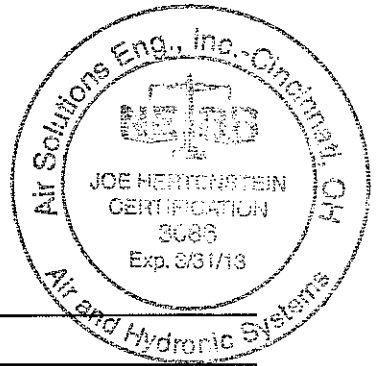
DUCT	REQUIRED	ACTUAL
S.P. (act) _____	SCFM _____	SCFM _____
TEMP _____	FPM _____	FPM 880
SIZE 24x36	CFM 5000	CFM 5280
AREA (ft) 6 ft2		

DISTANCE FROM BOTTOM	POSITION	1	2	3	4	5	6	7	8	9	10	11	12	
1ST	1	592	633	855	1175	1277								
	2	718	772	990	1421	1601								
	3	661	610	839	987	1531	INITIAL							
	4	640	553	639	635	1406								
	5	720	531	425	691	1088								
		6												
		7												
2ND	8													
	9													
	10						FINAL							
	11													
	12													
		13												
		14												
DISTANCE FROM DUCT EDGE														
VELOCITY SUB - TOTALS														

**REMARKS:**



# AIR APPARATUS TEST REPORT



**PROJECT:** KROGER - 509

**SYSTEM/UNIT:** RTU-9

UNIT DATA:	
UNIT MANF.	AAON
MODEL #	RN-007-3-0-CA01
SERIAL #	201110ANG618934
DISCHARGE	VERTICAL
SHEAVE DIAM / BORE	DD   DD
# BELTS / SIZE	DD   DD
# FILTERS / SIZE	4   16X20X2
UNIT TAG (BarCode on Unit Housing)	-

MOTOR DATA:	
MOTOR MANF.	BALDOR
FRAME	-
HP / RPM	2   1760
VOLTAGE / PHASE	480   3
F.L. AMPS / S.F.	3.4   1.15
SHEAVE DIAM / BORE	DD   DD
C.L. DISTANCE	DD
MOTOR EFF-P.F.	-

TEST DATA	DESIGN	ACTUAL
CFM	2800	2897
FAN RPM (INITIAL)	-	30.5 Hz
FAN RPM (FINAL)	-	60 Hz
MOTOR RPM	1760	60 Hz
R.L. VOLTAGE	460	488/484/487
R.L. AMPERAGE (INITIAL)	3.4	-
R.L. AMPERAGE (FINAL)	3.4	1.3/1.3/1.6
RETURN AIR CFM	2450	1239
OUTSIDE AIR CFM	350	1658 [1]
ROTATION	-	OK
DX FILTER CONDITION	DIRTY	

TEST DATA	DESIGN	ACTUAL
E.S.P. SUCTION	-	-0.09"
E.S.P. DISCHARGE	-	0.56"
TOTAL E.S.P.	0.35"	0.65"
UNIT TOTAL S.P. (TSP)	-	1.12"
OUTSIDE AIR / RETURN DAMPER POSITIONS	100 / NONE	
TYPE OF DAMPER	ECONOMIZER	
<b>(IF UNIT IS AAON)-SETTINGS:</b>		
FREEZESTAT (SET @ 38 DEGREE F)	38	
COMPRESSOR LOCKOUT (SET @ 45)	45	
<b>PHASE-BROWNOUT (BLUE) MONITOR IN CABINET</b>		
Line VOLT AVERAGE (DIAL) SETTING	487	
VOLT-VARIANCE = 10	10	
3RD DIAL = 10S SET PT	10	

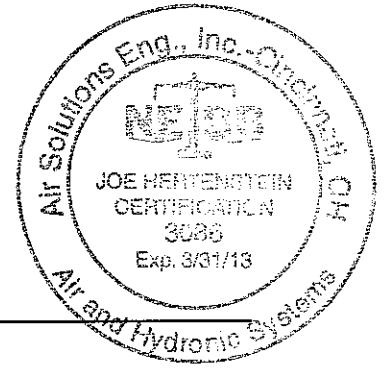
**REMARKS:**

[1] ECONOMIZER WILL NOT GO TO MIN, ONLY 100% OPEN OR CLOSED. UNIT VIBRATES.





# AIR APPARATUS TEST REPORT



**PROJECT:** KROGER - 509

**SYSTEM/UNIT:** RTU-10

UNIT DATA:	
UNIT MANF.	AAON
MODEL #	RN-008-3-0-CA01
SERIAL #	201110ANGH18935
DISCHARGE	VERTICAL
SHEAVE DIAM / BORE	DD DD
# BELTS / SIZE	DD DD
# FILTERS / SIZE	4 16X20X2
UNIT TAG (BarCode on Unit Housing)	-

MOTOR DATA:	
MOTOR MANF.	BALDOR
FRAME	-
HP / RPM	2 1760
VOLTAGE / PHASE	480 3
F.L. AMPS / S.F.	3.4 1.15
SHEAVE DIAM / BORE	DD DD
C.L. DISTANCE	DD
MOTOR EFF-P.F.	-

TEST DATA	DESIGN	ACTUAL
CFM	3200	2937
FAN RPM (INITIAL)	-	40.5 Hz
FAN RPM (FINAL)	-	60 Hz
MOTOR RPM	1760	60 Hz
R.L. VOLTAGE	460	491/485/489
R.L. AMPERAGE (INITIAL)	3.4	-
R.L. AMPERAGE (FINAL)	3.4	1.7/1.7/1.8
RETURN AIR CFM	2850	2560
OUTSIDE AIR CFM	350	377
ROTATION	-	OK
DX FILTER CONDITION	DIRTY	

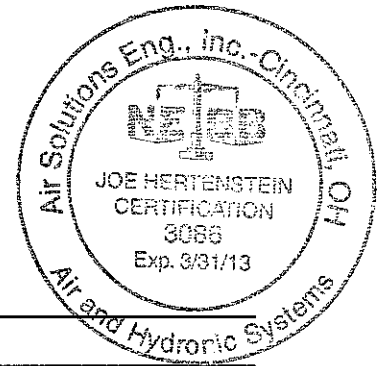
TEST DATA	DESIGN	ACTUAL
E.S.P. SUCTION	-	-0.34"
E.S.P. DISCHARGE	-	0.41"
TOTAL E.S.P.	0.80"	0.75"
UNIT TOTAL S.P. (TSP)	-	1.13"
OUTSIDE AIR / RETURN DAMPER POSITIONS	5/8" / NONE	
TYPE OF DAMPER	ECONOMIZER	
<b>(IF UNIT IS AAON)-SETTINGS:</b>		
FREEZESTAT (SET @ 38 DEGREE F)	38	
COMPRESSOR LOCKOUT (SET @ 45)	45	
<b>PHASE-BROWNOUT (BLUE) MONITOR IN CABINET</b>		
Line VOLT AVERAGE (DIAL) SETTING	488	
VOLT-VARIANCE = 10	10	
3RD DIAL = 10S SET PT	10	

**REMARKS:**





# AIR APPARATUS TEST REPORT



**PROJECT:** KROGER - 509

**SYSTEM/UNIT:** RTU-11

<b>UNIT DATA:</b>	
UNIT MANF.	AAON
MODEL #	RN-010-3-0-CA01
SERIAL #	201110-ANGJ18936
DISCHARGE	VERTICAL
SHEAVE DIAM / BORE	DD DD
# BELTS / SIZE	DD DD
# FILTERS / SIZE	4 16X20X2
UNIT TAG (BarCode on Unit Housing)	-

<b>MOTOR DATA:</b>	
MOTOR MANF.	BALDOR
FRAME	-
HP / RPM	3 1760
VOLTAGE / PHASE	480 3
F.L. AMPS / S.F.	4.8 1.15
SHEAVE DIAM / BORE	DD DD
C.L. DISTANCE	DD
MOTOR EFF-P.F.	-

TEST DATA	DESIGN	ACTUAL
CFM	4000	4008
FAN RPM (INITIAL)	-	30 Hz
FAN RPM (FINAL)	-	60 Hz
MOTOR RPM	1760	60 Hz
R.L. VOLTAGE	460	490/489/485
R.L. AMPERAGE (INITIAL)	4.8	-
R.L. AMPERAGE (FINAL)	4.8	1.9/2.0/2.5
RETURN AIR CFM	3575	3590
OUTSIDE AIR CFM	425	418
ROTATION	-	OK
DX FILTER CONDITION	DIRTY	

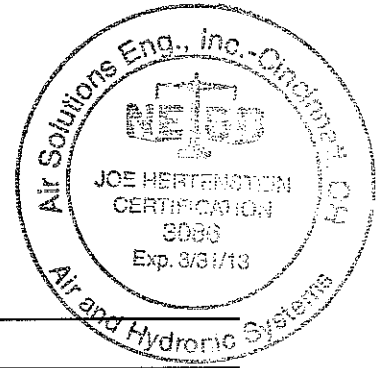
TEST DATA	DESIGN	ACTUAL
E.S.P. SUCTION	-	-0.34"
E.S.P. DISCHARGE	-	0.15"
TOTAL E.S.P.	0.80"	0.49"
UNIT TOTAL S.P. (TSP) OUTSIDE AIR /RETURN DAMPER POSITIONS	-	1.51"
	3/4" / NONE	
TYPE OF DAMPER	ECONOMIZER	
<b>(IF UNIT IS AAON)-SETTINGS:</b>		
FREEZESTAT (SET @ 38 DEGREE F) COMPRESSOR LOCKOUT (SET @ 45		38 45
<b>PHASE-BROWNOUT (BLUE) MONITOR IN CABINET</b> Line VOLT AVERAGE (DIAL) SETTING		486
VOLT-VARIANCE = 10		10
3RD DIAL = 10S SET PT		10

**REMARKS:**





# AIR APPARATUS TEST REPORT



**PROJECT:** KROGER - 509

**SYSTEM/UNIT:** RTU-12

UNIT DATA:	
UNIT MANF.	AAON
MODEL #	RN-013-3-0-CA02
SERIAL #	201110ANGK18923
DISCHARGE	VERTICAL
SHEAVE DIAM / BORE	DD DD
# BELTS / SIZE	DD DD
# FILTERS / SIZE	4 20X25X2
UNIT TAG (BarCode on Unit Housing)	-

MOTOR DATA:	
MOTOR MANF.	BALDOR
FRAME	-
HP / RPM	5 1760
VOLTAGE / PHASE	480 3
F.L. AMPS / S.F.	7.6 1.15
SHEAVE DIAM / BORE	DD DD
C.L. DISTANCE	DD
MOTOR EFF-P.F.	-

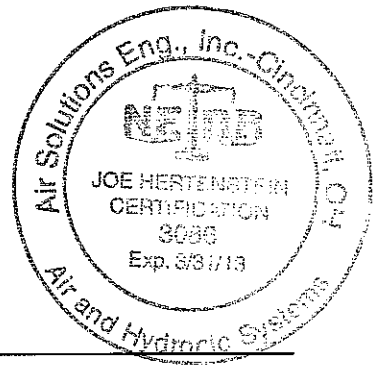
TEST DATA	DESIGN	ACTUAL
CFM	5200	5258
FAN RPM (INITIAL)	-	47 Hz
FAN RPM (FINAL)	-	44 Hz
MOTOR RPM	1760	44 Hz
R.L. VOLTAGE	460	481/488/484
R.L. AMPERAGE (INITIAL)	7.6	-
R.L. AMPERAGE (FINAL)	7.6	2.4/2.3/2.1
RETURN AIR CFM	4650	4666
OUTSIDE AIR CFM	550	592
ROTATION	-	OK
DX FILTER CONDITION	DIRTY	

TEST DATA	DESIGN	ACTUAL
E.S.P. SUCTION	-	-0.25"
E.S.P. DISCHARGE	-	0.55"
TOTAL E.S.P.	0.80"	0.80"
UNIT TOTAL S.P. (TSP)	-	1.00"
OUTSIDE AIR/RETURN DAMPER POSITIONS	3/4" / NONE	
TYPE OF DAMPER	ECONOMIZER	
<b>(IF UNIT IS AAON)-SETTINGS:</b>		
FREEZESTAT (SET @ 38 DEGREE F)	NONE	
COMPRESSOR LOCKOUT (SET @ 45)	45	
<b>PHASE-BROWNOUT (BLUE) MONITOR IN CABINET</b>		
Line VOLT AVERAGE (DIAL) SETTING	485	
VOLT-VARIANCE = 10	10	
3RD DIAL = 10S SET PT	10	

**REMARKS:**  
\*CONDENSATE DRAIN BLOCKS ACCESS DOOR.



# AIR OUTLET TEST REPORT



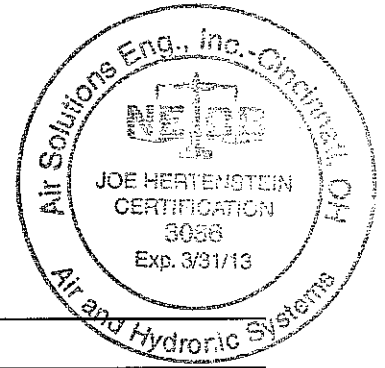
**PROJECT:** KROGER 509  
**SYSTEM/UNIT:** RTU-12

AREA SERVED	OUTLET		DESIGN CFM	PRELIMINARY			FINAL CFM	% TO DESGN	REMS
	NO	TYPE		(CFM)1	(CFM)2	(CFM)3			
BAKERY	1	CD	400	479	450		450	1.13	
BAKERY	2	CD	400	445	413		413	1.03	
BAKERY	3	CD	400	455	438		438	1.10	
BAKERY	4	CD	400	403	397		397	0.99	
BAKERY	5	CD	400	450	415		415	1.04	
DELI PREP	6	CD	400	494	462		462	1.16	
DELI PREP	7	CD	400	367	379		379	0.95	
DELI PREP	8	CD	400	573	428		428	1.07	
DELI PREP	9	CD	350	465	431		431	1.23	
RESTROOM	10	CD	225	277	224		224	1.00	
RESTROOM	11	CD	225	197	204		204	0.91	
SEATING	12	CD	600	547	520		520	0.87	
SEATING	13	CD	600	520	497		497	0.83	
<b>RTU-12 TOTAL</b>			<b>5200</b>	<b>5672</b>	<b>5258</b>		<b>5258</b>	<b>1.01</b>	

**REMARKS**



# AIR APPARATUS TEST REPORT



**PROJECT:** KROGER - 509

**SYSTEM/UNIT:** RTU-13

<b>UNIT DATA:</b>	
UNIT MANF.	AAON
MODEL #	RN-011-3-0-CA01
SERIAL #	201110ANGZ18927
DISCHARGE	VERTICAL
SHEAVE DIAM / BORE	DD   DD
# BELTS / SIZE	DD   DD
# FILTERS / SIZE	4   20X25X2
UNIT TAG (BarCode on Unit Housing)	-

<b>MOTOR DATA:</b>	
MOTOR MANF.	BALDOR
FRAME	-
HP / RPM	5   1170
VOLTAGE / PHASE	480   3
F.L. AMPS / S.F.	8.1   1.15
SHEAVE DIAM / BORE	DD   DD
C.L. DISTANCE	DD
MOTOR EFF-P.F.	-

TEST DATA	DESIGN	ACTUAL
CFM	4400	4411
FAN RPM (INITIAL)	-	57 Hz
FAN RPM (FINAL)	-	60 Hz
MOTOR RPM	1170	60 Hz
R.L. VOLTAGE	460	486/481/484
R.L. AMPERAGE (INITIAL)	8.1	-
R.L. AMPERAGE (FINAL)	8.1	1.9/1.6/2.0
RETURN AIR CFM	3400	3425
OUTSIDE AIR CFM	1000	986
ROTATION	-	OK
DX FILTER CONDITION	DIRTY	

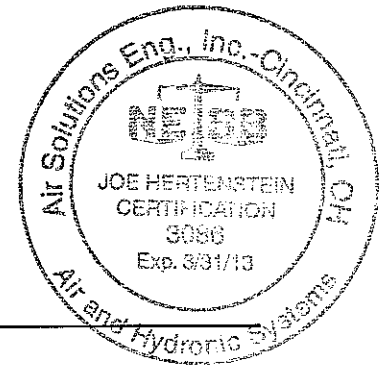
TEST DATA	DESIGN	ACTUAL
E.S.P. SUCTION	-	-0.25"
E.S.P. DISCHARGE	-	0.40"
TOTAL E.S.P.	0.80"	0.65"
UNIT TOTAL S.P. (TSP)	-	0.85"
OUTSIDE AIR / RETURN DAMPER POSITIONS	1" / NONE	
TYPE OF DAMPER	ECONOMIZER	
<b>(IF UNIT IS AAON)-SETTINGS:</b>		
FREEZESTAT (SET @ 38 DEGREE F)	38	
COMPRESSOR LOCKOUT (SET @ 45)	45	
<b>PHASE-BROWNOUT (BLUE) MONITOR IN CABINET</b>		
Line VOLT AVERAGE (DIAL) SETTING	485	
VOLT-VARIANCE = 10	10	
3RD DIAL = 10S SET PT	10	

**REMARKS:**





# AIR APPARATUS TEST REPORT



**PROJECT:** KROGER - 509  
**SYSTEM/UNIT:** RTU-14

UNIT DATA:	
UNIT MANF.	AAON
MODEL #	RQ-004-3-V-CA01
SERIAL #	201110AYGD02453
DISCHARGE	VERTICAL
SHEAVE DIAM / BORE	DD DD
# BELTS / SIZE	DD DD
# FILTERS / SIZE	2 20X20X2
UNIT TAG (BarCode on Unit Housing)	-

MOTOR DATA:	
MOTOR MANF.	BALDOR
FRAME	-
HP / RPM	1 1760
VOLTAGE / PHASE	480 3
F.L. AMPS / S.F.	2.1 1.15
SHEAVE DIAM / BORE	DD DD
C.L. DISTANCE	DD
MOTOR EFF-P.F.	-

TEST DATA	DESIGN	ACTUAL
CFM	1600	1618
FAN RPM (INITIAL)	-	60 Hz
FAN RPM (FINAL)	-	54 Hz
MOTOR RPM	1760	54 Hz
R.L. VOLTAGE	460	486/482/488
R.L. AMPERAGE (INITIAL)	2.1	-
R.L. AMPERAGE (FINAL)	2.1	0.6/0.9/0.6
RETURN AIR CFM	1340	1352
OUTSIDE AIR CFM	260	266
ROTATION	-	OK
DX FILTER CONDITION	DIRTY	

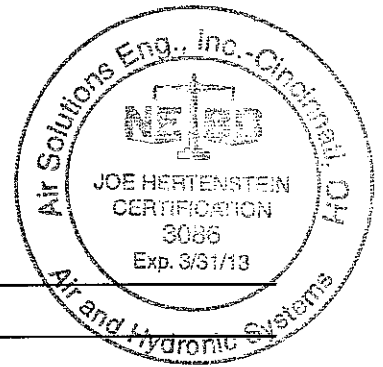
TEST DATA	DESIGN	ACTUAL
E.S.P. SUCTION	-	-0.25"
E.S.P. DISCHARGE	-	0.41"
TOTAL E.S.P.	0.50"	0.66"
UNIT TOTAL S.P. (TSP) OUTSIDE AIR/RETURN	-	0.86"
DAMPER POSITIONS	3/4" / NONE	
TYPE OF DAMPER	ECONOMIZER	
<b>(IF UNIT IS AAON)-SETTINGS:</b>		
FREEZESTAT (SET @ 38 DEGREE F)	-	
COMPRESSOR LOCKOUT (SET @ 45)	45	
<b>PHASE-BROWNOUT (BLUE) MONITOR IN CABINET</b>		
Line VOLT AVERAGE (DIAL) SETTING	487	
VOLT-VARIANCE = 10	10	
3RD DIAL = 10S SET PT	10	

**REMARKS:**





# FAN TEST REPORT



**PROJECT:** KROGER 509

**SYSTEM/UNIT:** EF-2, EF-3, EF-4

FAN DATA	FAN UNIT # EF-2		FAN UNIT # EF-3		FAN UNIT # EF-4	
LOCATION	ROOF		ROOF		ROOF	
SERVICE	REAR RESTROOMS		MEAT SEAFOOD		BAKERY DBL.OVEN	
MANUFACTURER	CAPTIVEAIRE		CAPTIVEAIRE		CAPTIVEAIRE	
MODEL #	DR10HFA		DR30HFA		NCA14HPFA	
SERIAL #	1434446		1434446		1434446	
TYPE	DOWNBLAST		DOWNBLAST		UPBLAST	
MOTOR MANF / FRAME	FASCO	48	MARATHON	48	WEG	C58
MOTOR HP / RPM	.08	1550	1/4	1625	1/2	1730
VOLTAGE / PHASE	115	1	115	1	115/208-230	1
F.L.AMPS / S.F.	1.0	-	4.0	1	7.7/4.3-3.9	1.35
MTR SHEAVE DIA / BORE	DD	DD	DD	DD	VL40	5/8"
FAN SHEAVE DIA / BORE	DD	DD	DD	DD	AK46	3/4"
# BELTS / SIZE	DD	DD	DD	DD	1	AX21
SHEAVE C.L. DISTANCE	DD		DD		5"	

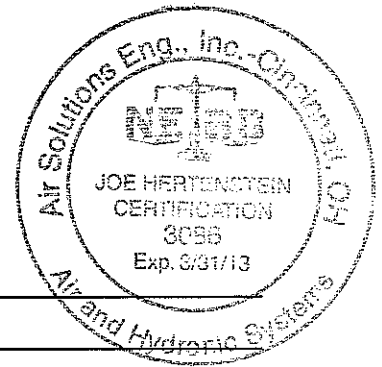
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	200	208	1200	1283	900	[1]
FAN RPM	DD	DD	DD	DD	-	-
MOTOR RPM	DD	DD	DD	DD	1730	-
E.S.P. SUCTION	-	-0.20"	-	-0.32"	-	-
E.S.P. DISCHARGE	-	ATM	-	ATM	-	-
TOTAL E.S.P.	0.13"	0.20"	0.25"	0.32"	1.20"	-
R.L. VOLTAGE	115	119	115	119	115	0
R.L. AMPERAGE	2.0	1.6	4.0	3.6	7.7	0
ROTATION	-	OK	-	OK	-	-

**REMARKS:**

[1] OVEN NOT STARTED UP YET BY MAINTENANCE. FAN KICKS ON ONLY WHEN OVEN IS IN OPERATION.



# FAN TEST REPORT



**PROJECT:** KROGER 509

**SYSTEM/UNIT:** EF-5, EF-6, EF-7

FAN DATA	FAN UNIT # EF-5		FAN UNIT # EF-6		FAN UNIT # EF-7	
LOCATION	ROOF		ROOF		ROOF	
SERVICE	DELI HOOD		PUBLIC RESTROOMS		FAMILY RESTROOM	
MANUFACTURER	CAPTIVEAIRE		CAPTIVEAIRE		-	
MODEL #	NCA16FA		DR12HFA		-	
SERIAL #	1434446		1434446		-	
TYPE	UPBLAST		DOWNBLAST		CEILING MOUNT	
MOTOR MANF / FRAME	WEG	D56	FASCO	48	-	-
MOTOR HP / RPM	1 1/2	1710	0.18	1625	-	-
VOLTAGE / PHASE	208-230/460	3	115	1	-	1
F.L.AMPS / S.F.	4.7-4.6/2.3	1.15	2.0	1	-	-
MTR SHEAVE DIA / BORE	VL40	5/8"	DD	DD	-	-
FAN SHEAVE DIA / BORE	AK54	1"	DD	DD	-	-
# BELTS / SIZE	1	AX25	DD	DD	-	-
SHEAVE C.L. DISTANCE	6 1/2"		DD		-	

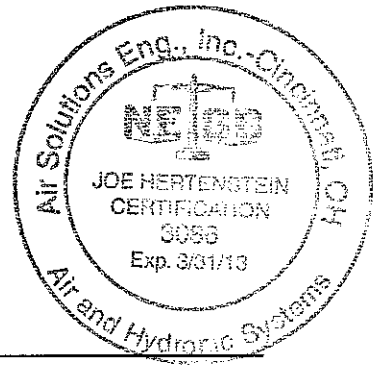
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	3150	3281	600	633	100	[1]
FAN RPM	-	1044	DD	DD	-	-
MOTOR RPM	1710	1740	DD	DD	-	-
E.S.P. SUCTION	-	-0.45"	-	-0.17"	-	-
E.S.P. DISCHARGE	-	ATM	-	ATM	-	-
TOTAL E.S.P.	0.35"	0.45"	0.13"	0.17"	0.13"	-
R.L. VOLTAGE	208	209/211/209	115	119	-	-
R.L. AMPERAGE	4.7	3.2/3.2/3.3	2.0	1.7	-	-
ROTATION	-	OK	-	OK	-	-

**REMARKS:**

[1] FAN NOT WIRED.



# AIR OUTLET TEST REPORT



**PROJECT:** KROGER 509  
**SYSTEM/UNIT:** EF OUTLETS

AREA SERVED	OUTLET		DESIGN CFM	PRELIMINARY			FINAL CFM	% TO DESGN	REMS
	NO	TYPE		(CFM)1	(CFM)2	(CFM)3			
WOMENS	1	F4	300	683	375	419	323	1.08	
MENS	2	F4	300	94	456	404	310	1.03	
<b>EF-6 TOTAL</b>			<b>600</b>	<b>777</b>	<b>831</b>	<b>823</b>	<b>633</b>	<b>1.06</b>	
SEAFOOD	1	F4	300	298	355	329	329	1.10	
SEAFOOD	2	F4	300	377	347	325	325	1.08	
SEAFOOD	3	F4	300	226	326	312	312	1.04	
SEAFOOD	4	F4	300	350	318	318	318	1.06	
<b>EF-3 TOTAL</b>			<b>1200</b>	<b>1251</b>	<b>1346</b>	<b>1284</b>	<b>1284</b>	<b>1.07</b>	
WOMENS	1	F1	100	172	137	108	108	1.08	
MENS	2	F1	100	162	132	100	100	1.00	
<b>EF-2 TOTAL</b>			<b>200</b>	<b>334</b>	<b>269</b>	<b>208</b>	<b>208</b>	<b>1.04</b>	

**REMARKS**

PROJECT: KROGER 509  
 HOOD TAG: H-1

GENERAL DATA / HOOD SUMMARY

HOOD DATA

comments:

MODEL	EXHAUST		SUPPLY		NET	
	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
6024 ND						
LENGTH	216"					
WIDTH	60"	3281				
SIZE RISER #1			←	VELOCITY RISER #1		CONTAINMENT TEST
SIZE RISER #2			←	VELOCITY RISER #2		PASS/FAIL

EXHAUST READINGS

U.L. CLASSIFIED GREASE BAFFLE FILTERS

FILTER SIZE	16x16	16x20	20x20	12x12	12x16
SQR. FT.	1.615	2.08	2.68	0.83	1.16
AREA(CORRECTED)					
# OF FILTERS	6	6			
AREA	9.69	12.48			
TOTAL AREA	22.17				

FIELD NOTES

BAFFLE FILTERS INSTALLED

READINGS	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12
VELOCITY R1	139	145	166	168	139	134	138	160	194	194	152	166
VELOCITY R2	132	139	157	156	132	126	134	149	171	176	149	156
VELOCITY R3												
VELOCITY FINAL												
AVERAGE VELOCITY	148											
EXHAUST CFM	3281											

LEAVE CELLS ABOVE BLANK IF NO READINGS ARE TAKEN (DO NOT INPUT "0")

