



# Unit Submittal

2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094  
AAONEcat32 Ver. 4.91 (SN: 0449226)

1A 1B 1C 1D 2 3 4 5A 5B 5C 6A 6B 6C 7 8 9 10 11 12 13 14A 14B 15 16 17 18 19 20 21 22 23

**RN-070-3-0-BQ04-2B2:A000-E0B-FFL-000-CJACHBJ-00-0A000000X**

Tag: RTU# 1: Sales Area PNET060-00040506

Job Name: Kroger SW548 - Allen, TX Unit Submittal For: The Kroger Company / Kroger L.P.  
Job Number: SW548 Unit Submittal Date: August 08, 2006

	Base Option	Description
R	Series	Roof Top Unit
N	Generation	Ninth Generation
070	Unit Size	Seventy
3	Voltage	460V/3Ø/60Hz
0	Inter. Protection	Standard
B	Cooling - Style	R410A
Q	Cooling - Configuration	Air Cooled Cond w/ 6R Evap coil w/ RA bypass
0	Cooling - Coating	Standard
4	Cooling - Staging	4 Stage
2	Heating - Type	Nat. Gas Aluminized
B	Heating - Designation	Heat B - 780 MBtuh
2	Heating - Staging	2 Stage

	Feature Option	Description
A	1A. Return / Outside Air Section	Economizer
0	1B. R/A Blower Configuration	Std (None)
0	1C. R/A Blower	Std (None)
0	1D. R/A Motor	Std (No Motor)
E	2. O/A CONTROL	<del>DDC Actuator</del>
0	3. GAS OPTIONS	Standard
B	4. MAINTENANCE OPTIONS	115V convenience outlet, factory wired
F	5A. S/A BLOWER CONFIG.	2 Blowers (Premium efficiency motor) w/ two motors on one VFD
F	5B. S/A BLOWER	Blower F (BI 30 90% Alum. 1750 rpm Max)
L	5C. S/A MOTOR	15 hp (1760 rpm)
0	6A. PRE FILTER TYPE	Standard (None)
0	6B. UNIT FILTER TYPE	Standard - 2" Pleated 30% eff
0	6C. FILTER OPTIONS	Std
C	7. REFRIG. CONTROL	Fan Cycling
J	8. REFRIG. OPTIONS	HGB Lead + HGB Lag + MHGR <b>R404 RECLAIM COIL, 2 CKTS</b>
A	9. REFRIG. ACCESSORIES	Sight Glass
C	10. POWER OPTIONS	Power Switch (225 amps)
H	11. SAFETY OPTIONS	Remote smoke detector terminals (field detector)
B	12. CONTROLS	Phase & Brown Out Protection
J	13. SPECIAL CONTROLS	Factory Installed DDC Controls Furnished by <del>Others (SPA)</del> <b>AAON, CPC MULTIFLEX/BBAD + 8R</b>
0	14A. PREHEAT CONFIG.	Standard (No Preheat)
0	14B. PREHEAT SIZING	Standard (No Preheat)
0	15. BLANK	Standard
A	16. INT. CAB. OPTIONS	Stainless Steel Drain Pans
0	17. EXT. CAB. OPTIONS	Standard
0	18. CUSTOMER CODE	Standard
0	19. CODE OPTIONS	Std ETL U.S.A. Listing
0	20. CRATING	Standard
0	21. WATER COOLED COND.	Std (No Water Condenser)
0	22. BLANK	Standard
X	23. TYPE	Special Price Authorization & Gray Paint <b>SLOPED CURB/BB</b>



# Unit Rating

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**RN-070-3-0-BQ04-2B2:A000-E0B-FFL-000-CJACHBJ-00-0A000000X**

Tag: RTU# 1: Sales Area PNET060-00040506

### Job Information

Job Name: Kroger SW548 - Allen, TX  
 Job Number: SW548  
 Site Altitude: 997 ft  
 Refrigerant: R-410A

### Static Pressure

External: 1.30 in. wg.  
 Evaporator: 0.74 in. wg.  
 Filters Clean: 0.26 in. wg.  
 Dirt Allowance: 0.2 in. wg.

### Cooling Section

	Gross	Net
Total Capacity:	689.79	637.51 MBH
Sensible Capacity:	575.24	522.96 MBH
Latent Capacity:	114.55 MBH	
Mixed Air Temp:	81.56 °F DB	64.95 °F WB
Entering Air Temp:	81.56 °F DB	64.95 °F WB
Lv Air Temp (Coil):	52.15 °F DB	52.09 °F WB
Lv Air Temp (Unit):	73.19 °F DB	60.58 °F WB
Supply Air Fan:	2 x 300 @ 11.94 BHP Ea.	
SA Fan RPM / Width:	1408 / 5.436"	
Evaporator Coil:	37.5 ft <sup>2</sup> / 6 Rows / 12 FPI	
Evaporator Face Velocity:	512.0 fpm @ 19200 CFM	

### Unit Information

\*\*WEIGHT AND PERFORMANCE DO NOT INCLUDE SPA

Approx. Op./Ship Weights: ~~6000~~ **7900 lbs.**\*\*  
 Supply CFM/ESP: 24000 / 1.3 in. wg.  
 Final-Filter FV / Qty: 500.00 fpm / 12  
 Outside CFM: 6000  
 Ambient Temperature: 100.4 °F DB / 76 °F WB  
 Return Temperature: 73 °F DB / 58.9 °F WB

Economizer: 0.20 in. wg.  
 Heating: 0.29 in. wg.  
 Cabinet: 0.32 in. wg.  
 Re-Heat Coil: 0.12 in. wg.  
 Total: 3.43 in. wg.

### Heating Section

PreHeat Type: Std (No Preheat)  
 Heating Type: Nat. Gas Heat  
 Heating CFM: 24000  
 Total Capacity: 631.8 MBH  
 OA Temp: 21.1 DB / 18.0 °F WB  
 RA Temp: 73.0 °F DB / 58.9 °F WB  
 Entering Air Temp: 60.0 °F DB / 51.0 °F WB  
 Leaving Air Temp: 84.4 °F DB / 60.6 °F WB  
 Input: 780.0 MBH  
 Heater Qty: 1  
 Consumption: 780.0 MBH  
 Operation: N/A

### Re-Heat Coil:

Capacity: 357 MBH  
 LA DB / WB: 70.00 °F / 59.03 °F  
 RH: 53%

### EER - ARI Listing Information

EER @ ARI Conditions: 9.3  
 No ARI Rating Program Exists for Units Over 20 Tons  
 All AAON Units Are Tested in Accordance With ARI Standards

Application EER @ Op. Conditions: 7.3

### Electrical Data

Rating: 460/3/60  
 Unit FLA: 151

Minimum Circuit Amp: 157  
 Maximum Overcurrent: 175

	Qty	HP	VAC	Phase	RPM	FLA	RLA
Compressor 1:	4		460	3			23.7
Condenser Fans:	6	0.75	460	1	1075	2.3	
Supply Fan:	2	15.00	460	3	1760	21.0	
Combustion:	2	0.25	460	1	3200	0.9	

### Cabinet Sound Power Levels\*

Octave Bands:	63	125	250	500	1000	2000	4000	8000
Discharge LW(dB):	98	97	98	100	96	92	89	82
Return LW(dB):	80	82	82	77	79	74	66	54

\*Sound power levels are given for informational purposes only. The sound levels are not guaranteed.



# 30.0" STAR Plenum

2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094  
AAONEcat32 Ver. 4.91 (SN: 0449226)

## JOB INFORMATION:

Job Name: Kroger SW548 - Allen, TX  
 Job Tag: RTU# 1: Sales Area  
 Rep Firm: PNET060-00040506  
 Date: A C Equipment  
 08/08/2006

## WHEEL SPECIFICATION:

Max RPM: 1,800  
 Diameter x Qty: 30.0 in. x 2  
 Width%: 90  
 Tip Speed: 11,058 FPM  
 Inertia: 90 WR<sup>2</sup>

## OPERATING CONDITIONS:

Air Flow: 24,000 CFM  
 Static Pressure: 3.43 in. Wg.  
 Plenum DP: 0.00 in. Wg.  
 Inlet Grill DP: 0.00 in. Wg.  
 TSP: 3.43 in. Wg.  
 Site Altitude: 997.00 Ft  
 TSP @ Sea Level: 3.56 in. Wg.

## MOTOR SELECTION:

Rated HP / Bypass: 15 x 2 / No  
 Frame Size: 254T  
 Nominal RPM: 1760  
 VAC/PH/HZ: 460/3/60  
 Efficiency: Premium / 0.93  
 Enclosure Type: ODP  
 Max Inertial Load: 149 WR<sup>2</sup>

## FAN PERFORMANCE:

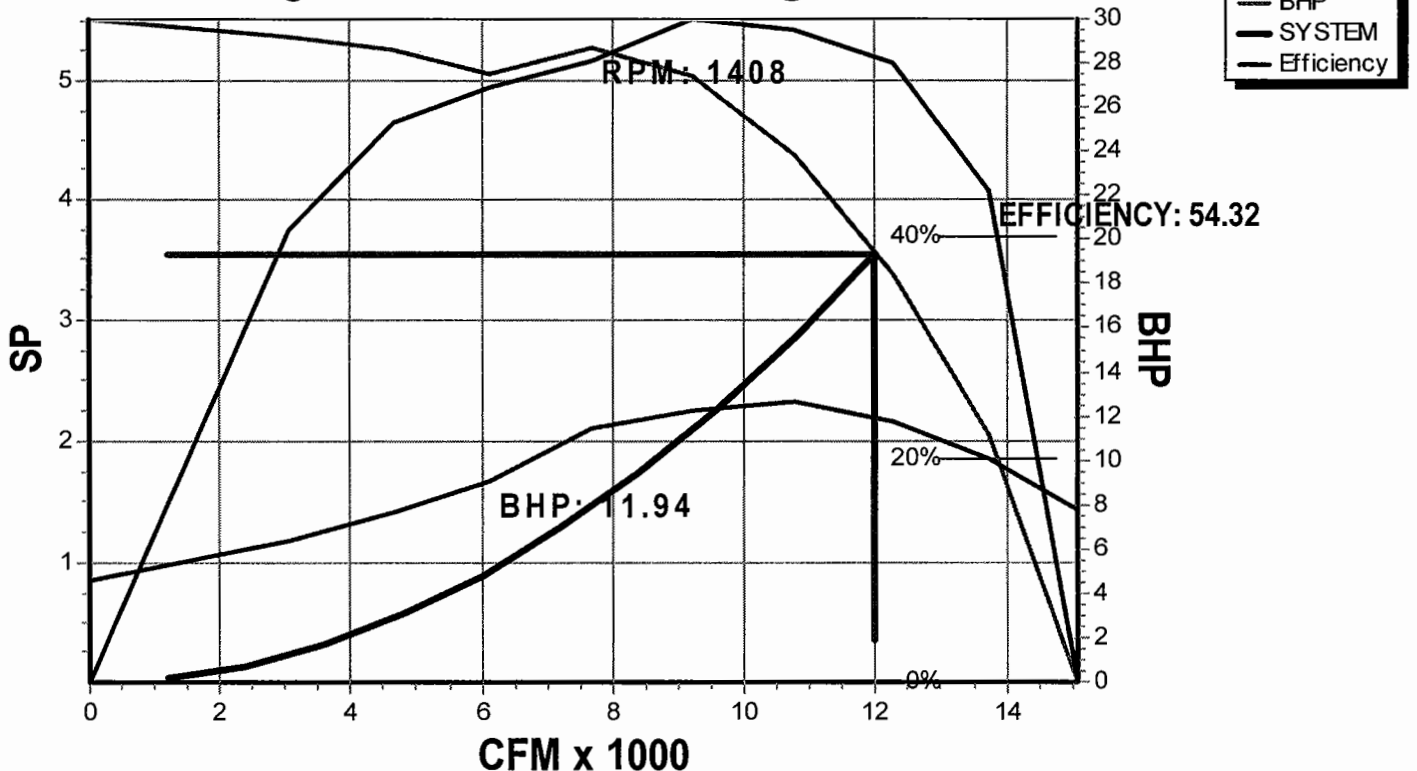
RPM: 1408  
 BHP: 11.94  
 Efficiency: 54.3%  
 In/Out Velocity: 2020/2655 FPM  
 Plenum Out Velocity: 271 FPM

## FAN SOUND POWER x 2 Fans (In/Out):

Octave Band:	(Re 10 <sup>-12</sup> watts)							
	1	2	3	4	5	6	7	8
	92	93	93	93	93	91	87	82
	98	97	98	102	100	96	93	86

SOUND POWER A-Weighted: 97 / 103 dB

Supply Fan Model: 300 @ 1408 RPM and 90% Width  
 Design Conditions: 12000 CFM @ 3.56" SP





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**RM-015-3-0-BA02-000:0000-00B-BCF-000-CJAAHBJ-00-0A000000X**

Tag: RTU# 2 & 5: Sales Area PNET060-00040506

Job Name: *Kroger SW548 - Allen, TX* Unit Submittal For: *The Kroger Company // Kroger L.P*  
Job Number: *SW548* Unit Submittal Date: *August 08, 2006*

	Base Option	Description
<b>R</b>	Series	Roof Top Unit
<b>M</b>	Generation	Eighth Generation
<b>015</b>	Unit Size	Fifteen
<b>3</b>	Voltage	460V/3Ø/60Hz
<b>0</b>	Inter. Protection	Standard
<b>B</b>	Cooling - Style	R410A
<b>A</b>	Cooling - Configuration	Air Cooled Cond w/ Std Coil
<b>0</b>	Cooling - Coating	Standard
<b>2</b>	Cooling - Staging	2 Stage
<b>0</b>	Heating - Type	No Heat
<b>0</b>	Heating - Designation	No Heat
<b>0</b>	Heating - Staging	No Heat

	Feature Option	Description
<b>0</b>	1A. Return / Outside Air Section	Standard - Manual Outside Air
<b>0</b>	1B. R/A Blower Configuration	Std (None)
<b>0</b>	1C. R/A Blower	Std (None)
<b>0</b>	1D. R/A Motor	Std (No Motor)
<b>0</b>	2. O/A CONTROL	Std (No Actuator)
<b>0</b>	3. GAS OPTIONS	Standard
<b>B</b>	4. MAINTENANCE OPTIONS	115V convenience outlet, factory wired
<b>B</b>	5A. S/A BLOWER CONFIG.	1 Blower (Premium efficiency motor)
<b>C</b>	5B. S/A BLOWER	Blower C (BI 18.5")
<b>F</b>	5C. S/A MOTOR	5.0 hp (1760 rpm)
<b>0</b>	6A. PRE FILTER TYPE	Standard (None)
<b>0</b>	6B. UNIT FILTER TYPE	Standard - 2" Pleated 30% eff
<b>0</b>	6C. FILTER OPTIONS	Std
<b>C</b>	7. REFRIG. CONTROL	Fan Cycling
<b>J</b>	8. REFRIG. OPTIONS	HGB Lead + HGB Lag + MHGR
<b>A</b>	9. REFRIG. ACCESSORIES	Sight Glass
<b>A</b>	10. POWER OPTIONS	Power Switch (100 amps)
<b>H</b>	11. SAFETY OPTIONS	Remote smoke detector terminals (field detector)
<b>B</b>	12. CONTROLS	Phase & Brown Out Protection
<b>J</b>	13. SPECIAL CONTROLS	Factory Installed DDC Controls Furnished by <del>Others (CPA)</del> <b>AAON, CPC MULTIFLEX 88A0</b>
<b>0</b>	14A. PREHEAT CONFIG.	Standard (No Preheat)
<b>0</b>	14B. PREHEAT SIZING	Standard (No Preheat)
<b>0</b>	15. BLANK	Standard
<b>A</b>	16. INT. CAB. OPTIONS	Stainless Steel Drain Pans
<b>0</b>	17. EXT. CAB. OPTIONS	Standard
<b>0</b>	18. CUSTOMER CODE	Standard
<b>0</b>	19. CODE OPTIONS	Std ETL U.S.A. Listing
<b>0</b>	20. CRATING	Standard
<b>0</b>	21. WATER COOLED COND.	Std (No Water Condenser)
<b>0</b>	22. BLANK	Standard
<b>X</b>	23. TYPE	Special Price Authorization & Gray Paint <b>CURB / BG</b>



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 1A 1B 1C 1D 2 3 4 5A 5B 5C 6A 6B 6C 7 8 9 10 11 12 13 14A 14B 15 16 17 18 19 20 21 22 23

Tag: RTU# 2 & 5: Sales Area PNET060-00040506

### Job Information

Job Name: Kroger SW548 - Allen, TX  
 Job Number: SW548  
 Site Altitude: 997 ft  
 Refrigerant: R-410A

### Static Pressure

External: 0.40 in. wg.  
 Evaporator: 0.62 in. wg.  
 Filters Clean: 0.21 in. wg.  
 Dirt Allowance: 0.35 in. wg.

### Cooling Section

	Gross	Net
Total Capacity:	160.60	149.49 MBH
Sensible Capacity:	151.61	140.49 MBH
Latent Capacity:	9.00 MBH	
Mixed Air Temp:	73.00 °F DB	58.90 °F WB
Entering Air Temp:	73.00 °F DB	58.90 °F WB
Lv Air Temp (Coil):	48.60 °F DB	48.53 °F WB
Lv Air Temp (Unit):	50.36 °F DB	49.31 °F WB
Supply Air Fan:	1 x 185 @ 3.68 BHP	
SA Fan RPM / Width:	1937 / 6.290"	
Evaporator Coil:	11.7 ft <sup>2</sup> / 4 Rows / 14 FPI	
Evaporator Face Velocity:	514.3 fpm	

### EER - ARI Listing Information

EER @ ARI Conditions: 10.6

### Electrical Data

Rating: 460/3/60  
 Unit FLA: 37

	Qty	HP	VAC
Compressor 1:	2		460
Condenser Fans:	2	0.75	460
Supply Fan:	1	5.00	460

### Cabinet Sound Power Levels\*

Octave Bands:	63	125	250	500	1000	2000	4000	8000
Discharge LW(dB):	88	89	93	98	93	90	82	77
Return LW(dB):	79	82	81	78	74	70	62	53

\*Sound power levels are given for informational purposes only. The sound levels are not guaranteed.

### Unit Information

\*\*WEIGHT AND PERFORMANCE DO NOT INCLUDE SPA

Approx. Op./Ship Weights: 1260 / 1260 lbs.\*\*  
 Supply CFM/ESP: 6000 / 0.4 in. wg.  
 Final-Filter FV / Qty: 450.00 fpm / 6  
 Ambient Temperature: 100.4 °F DB / 76 °F WB  
 Return Temperature: 73 °F DB / 58.9 °F WB

Economizer: 0.00 in. wg.  
 Heating: 0.00 in. wg.

Re-Heat Coil:  
 Total: 1.70 in. wg.

### Heating Section

PreHeat Type: Std (No Preheat)  
 Heating Type: No Heat

### Re-Heat Coil:

Capacity: 104 MBH  
 LA DB / WB: 65.18 °F / 55.44 °F  
 RH: 55%

Application EER @ Op. Conditions: 7.9

Minimum Circuit Amp: 40  
 Maximum Overcurrent: 50

Phase	RPM	FLA	RLA
3			12.2
1	1075	2.3	
3	1760	7.6	



# 18.5" STAR Plenum

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AAONEcat32 Ver. 4.91 (SN: 0449226)

## JOB INFORMATION:

Job Name: Kroger SW548 - Allen, TX  
 Job Tag: RTU# 2 & 5: Sales Area  
 Rep Firm: PNET060-00040506  
 Date: A C Equipment  
 08/08/2006

## WHEEL SPECIFICATION:

Max RPM: 2,200  
 Diameter x Qty: 18.5 in. x 1  
 Width%:  
 Tip Speed: 100  
 Inertia: 9,381 FPM  
 3 WR<sup>2</sup>

## OPERATING CONDITIONS:

Air Flow: 6,000 CFM  
 Static Pressure: 1.70 in. Wg.  
 Plenum DP: 0.00 in. Wg.  
 Inlet Grill DP: 0.00 in. Wg.  
 TSP: 1.70 in. Wg.  
 Site Altitude: 997.00 Ft  
 TSP @ Sea Level: 1.76 in. Wg.

## MOTOR SELECTION:

Rated HP / Bypass: 5 / No  
 Frame Size: 184T  
 Nominal RPM: 1760  
 VAC/PH/HZ: 460/3/60  
 Efficiency: Premium / 0.895  
 Enclosure Type: ODP  
 Max Inertial Load: 52 WR<sup>2</sup>

## FAN PERFORMANCE:

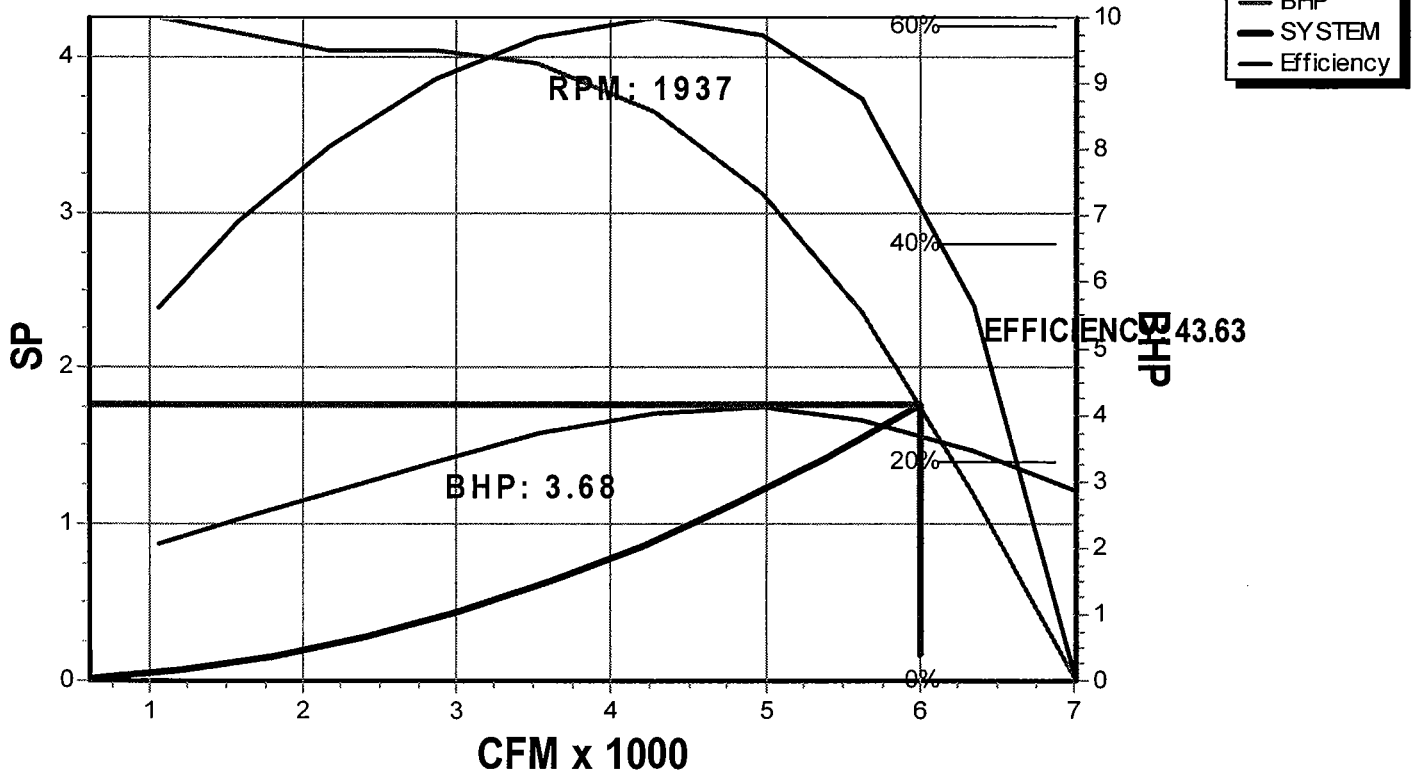
RPM: 1937  
 BHP: 3.68  
 Efficiency: 43.6%  
 In/Out Velocity: 3046/2362 FPM  
 Plenum Out Velocity: 100 FPM

## FAN SOUND POWER (Inlet/Outlet):

Octave Band:	(Re 10 <sup>-12</sup> watts)							
	1	2	3	4	5	6	7	8
	87	89	92	93	87	84	80	75
	88	89	93	99	96	93	85	80

SOUND POWER A-Weighted: 91 / 98 dB

Supply Fan Model: 185 @ 1937 RPM and 100% Width  
 Design Conditions: 6000 CFM @ 1.76" SP





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Tag: RTU# 3 & 4: Sales Area PNET060-00040506

Job Name: Kroger SW548 - Allen, TX      Unit Submittal For: The Kroger Company//Kroger L.P  
Job Number: SW548      Unit Submittal Date: August 08, 2006

	Base Option	Description
R	Series	Roof Top Unit
M	Generation	Eighth Generation
015	Unit Size	Fifteen
3	Voltage	460V/3Ø/60Hz
0	Inter. Protection	Standard
B	Cooling - Style	R410A
A	Cooling - Configuration	Air Cooled Cond w/ Std Coil
0	Cooling - Coating	Standard
2	Cooling - Staging	2 Stage
2	Heating - Type	Nat. Gas Aluminized
3	Heating - Designation	Heat 3 - 180 MBtuh
2	Heating - Staging	2 Stage

	Feature Option	Description
0	1A. Return / Outside Air Section	Standard - Manual Outside Air
0	1B. R/A Blower Configuration	Std (None)
0	1C. R/A Blower	Std (None)
0	1D. R/A Motor	Std (No Motor)
0	2. O/A CONTROL	Std (No Actuator)
0	3. GAS OPTIONS	Standard
B	4. MAINTENANCE OPTIONS	115V convenience outlet, factory wired
B	5A. S/A BLOWER CONFIG.	1 Blower (Premium efficiency motor)
C	5B. S/A BLOWER	Blower C (BI 18.5")
F	5C. S/A MOTOR	5.0 hp (1760 rpm)
0	6A. PRE FILTER TYPE	Standard (None)
0	6B. UNIT FILTER TYPE	Standard - 2" Pleated 30% eff
0	6C. FILTER OPTIONS	Std
C	7. REFRIG. CONTROL	Fan Cycling
J	8. REFRIG. OPTIONS	HGB Lead + HGB Lag + MHGR
A	9. REFRIG. ACCESSORIES	Sight Glass
A	10. POWER OPTIONS	Power Switch (100 amps)
H	11. SAFETY OPTIONS	Remote smoke detector terminals (field detector)
B	12. CONTROLS	Phase & Brown Out Protection
J	13. SPECIAL CONTROLS	Factory Installed DDC Controls Furnished by <del>Others (SPA)</del> <b>AAON, CPC MULTIFLEX 88A0</b>
0	14A. PREHEAT CONFIG.	Standard (No Preheat)
0	14B. PREHEAT SIZING	Standard (No Preheat)
0	15. BLANK	Standard
A	16. INT. CAB. OPTIONS	Stainless Steel Drain Pans
0	17. EXT. CAB. OPTIONS	Standard
0	18. CUSTOMER CODE	Standard
0	19. CODE OPTIONS	Std ETL U.S.A. Listing
0	20. CRATING	Standard
0	21. WATER COOLED COND.	Std (No Water Condenser)
0	22. BLANK	Standard
X	23. TYPE	Special Price Authorization & Gray Paint <b>CURBIBG</b>



# Unit Rating

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Tag: RTU# 3 & 4: Sales Area PNET060-00040506

## Job Information

Job Name: Kroger SW548 - Allen, TX  
 Job Number: SW548  
 Site Altitude: 997 ft  
 Refrigerant: R-410A

## Static Pressure

External: 0.45 in. wg.  
 Evaporator: 0.60 in. wg.  
 Filters Clean: 0.21 in. wg.  
 Dirt Allowance: 0.35 in. wg.

## Cooling Section

	Gross	Net
Total Capacity:	170.31	158.00 MBH
Sensible Capacity:	158.84	146.53 MBH
Latent Capacity:	11.47 MBH	
Mixed Air Temp:	78.48 °F DB	62.86 °F WB
Entering Air Temp:	78.48 °F DB	62.86 °F WB
Lv Air Temp (Coil):	52.66 °F DB	52.58 °F WB
Lv Air Temp (Unit):	54.61 °F DB	53.38 °F WB
Supply Air Fan:	1 x 185 @ 4.09 BHP	
SA Fan RPM / Width:	1988 / 6.290"	
Evaporator Coil:	11.7 ft <sup>2</sup> / 4 Rows / 14 FPI	
Evaporator Face Velocity:	514.3 fpm	

## EER - ARI Listing Information

EER @ ARI Conditions: 10.6

## Electrical Data

Rating: 460/3/60  
 Unit FLA: 37

	Qty	HP	VAC
Compressor 1:	2		460
Condenser Fans:	2	0.75	460
Supply Fan:	1	5.00	460
Combustion:	1	0.09	460

## Cabinet Sound Power Levels\*

Octave Bands:	63	125	250	500	1000	2000	4000	8000
Discharge LW(dB):	86	87	91	96	93	88	82	76
Return LW(dB):	78	80	80	76	74	69	62	52

\*Sound power levels are given for informational purposes only. The sound levels are not guaranteed.

## Unit Information

\*\*WEIGHT AND PERFORMANCE DO NOT INCLUDE SPA

Approx. Op./Ship Weights: 1365 / 1365 lbs.\*\*  
 Supply CFM/ESP: 6000 / 0.45 in. wg.  
 Final-Filter FV / Qty: 450.00 fpm / 6  
 Outside CFM: 1200  
 Ambient Temperature: 100.4 °F DB / 76 °F WB  
 Return Temperature: 73 °F DB / 58.9 °F WB

Economizer: 0.00 in. wg.  
 Heating: 0.30 in. wg.

Re-Heat Coil: 0.12 in. wg.  
 Total: 2.04 in. wg.

## Heating Section

PreHeat Type: Std (No Preheat)  
 Heating Type: Nat. Gas Heat  
 Heating CFM: 6000  
 Total Capacity: 145.8 MBH  
 OA Temp: 21.1 DB / 18.0 °F WB  
 RA Temp: 73.0 °F DB / 58.9 °F WB  
 Entering Air Temp: 62.6 °F DB / 52.7 °F WB  
 Leaving Air Temp: 85.1 °F DB / 61.4 °F WB  
 Input: 180.0 MBH  
 Heater Qty: 1  
 Consumption: 180.0 MBH  
 Operation: N/A

## Re-Heat Coil:

Capacity: 108 MBH  
 LA DB / WB: 70.00 °F / 59.28 °F  
 RH: 54%

Application EER @ Op. Conditions: 8.1

Minimum Circuit Amp: 40  
 Maximum Overcurrent: 50

Phase	RPM	FLA	RLA
3			12.2
1	1075	2.3	
3	1760	7.6	
1	3000	0.7	



# 18.5" STAR Plenum

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AAONEcat32 Ver. 4.91 (SN: 0449226)

## JOB INFORMATION:

Job Name: Kroger SW548 - Allen, TX  
 Job Tag: RTU# 3 & 4: Sales Area  
 Rep Firm: PNET060-00040506  
 Date: A C Equipment  
 08/08/2006

## WHEEL SPECIFICATION:

Max RPM: 2,200  
 Diameter x Qty: 18.5 in. x 1  
 Width%:  
 Tip Speed: 100  
 Inertia: 9,628 FPM  
 3 WR<sup>2</sup>

## OPERATING CONDITIONS:

Air Flow: 6,000 CFM  
 Static Pressure: 2.04 in. Wg.  
 Plenum DP: 0.00 in. Wg.  
 Inlet Grill DP: 0.00 in. Wg.  
 TSP: 2.04 in. Wg.  
 Site Altitude: 997.00 Ft  
 TSP @ Sea Level: 2.12 in. Wg.

## MOTOR SELECTION:

Rated HP / Bypass: 5 / No  
 Frame Size: 184T  
 Nominal RPM: 1760  
 VAC/PH/HZ: 460/3/60  
 Efficiency: Premium / 0.895  
 Enclosure Type: ODP  
 Max Inertial Load: 52 WR<sup>2</sup>

## FAN PERFORMANCE:

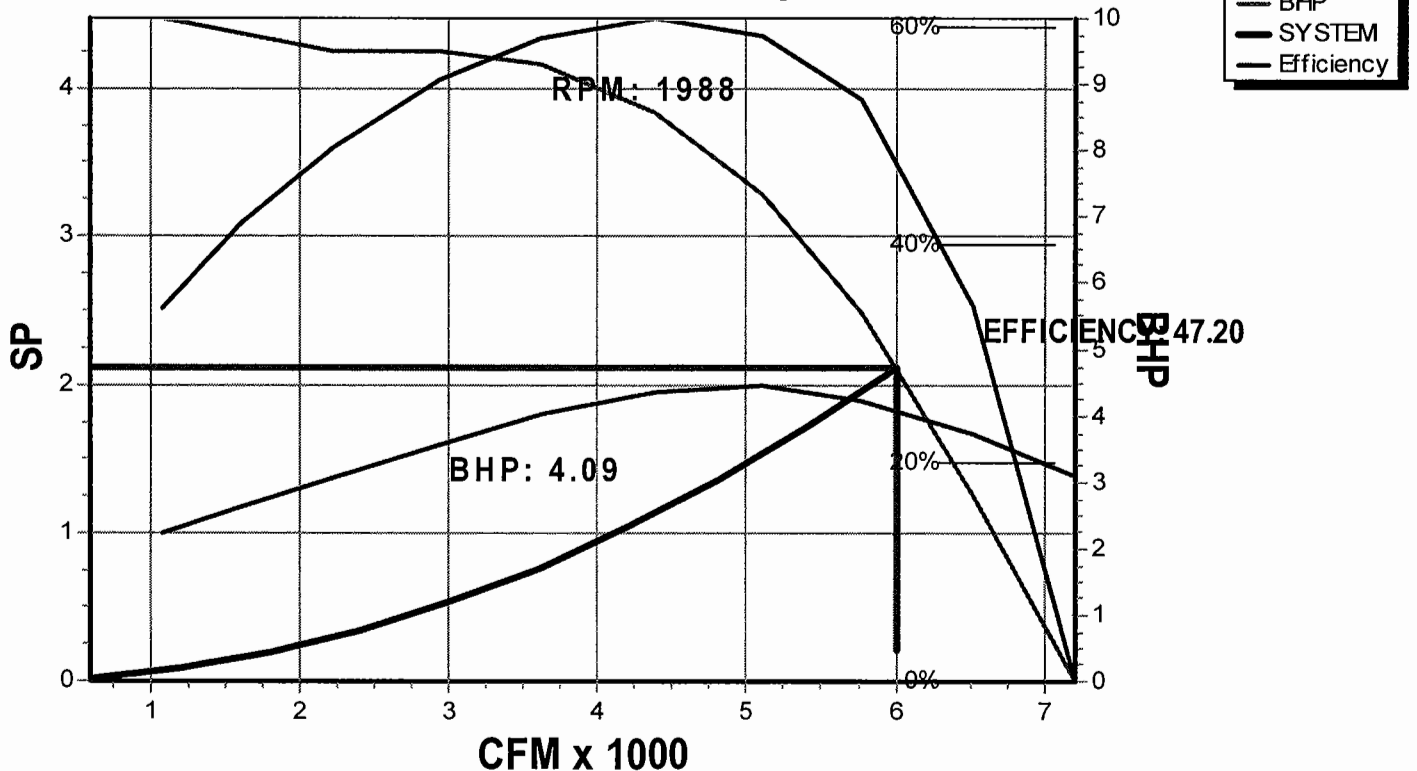
RPM: 1988  
 BHP: 4.09  
 Efficiency: 47.2%  
 In/Out Velocity: 3046/2362 FPM  
 Plenum Out Velocity: 100 FPM

## FAN SOUND POWER (Inlet/Outlet):

Octave Band:	(Re 10 <sup>-12</sup> watts)							
	1	2	3	4	5	6	7	8
	85	87	90	91	86	83	79	74
	86	87	91	97	95	91	85	79

SOUND POWER A-Weighted: 90 / 97 dB

Supply Fan Model: 185 @ 1988 RPM and 100% Width  
 Design Conditions: 6000 CFM @ 2.12" SP





# Unit Submittal

2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094  
AAONEcat32 Ver. 4.91 (SN: 0449226)

1A 1B 1C 1D 2 3 4 5A 5B 5C 6A 6B 6C 7 8 9 10 11 12 13 14A 14B 15 16 17 18 19 20 21 22 23

**RM-008-3-0-BA02-232:0000-00B-BCD-000-C0AAHBJ-00-0A000000X**

Tag: RTU# 6: Deli/Bakery PNET060-00040506

Job Name: Kroger SW548 - Allen, TX      Unit Submittal For: The Kroger Company / Kroger L.P.  
Job Number: SW548      Unit Submittal Date: August 08, 2006

	Base Option	Description
R	Series	Roof Top Unit
M	Generation	Eighth Generation
008	Unit Size	Eight
3	Voltage	460V/3Ø/60Hz
0	Inter. Protection	Standard
B	Cooling - Style	R410A
A	Cooling - Configuration	Air Cooled Cond w/ Std Coil
0	Cooling - Coating	Standard
2	Cooling - Staging	2 Stage
2	Heating - Type	Nat. Gas Aluminized
3	Heating - Designation	Heat 3 - 180 MBtuh
2	Heating - Staging	2 Stage

	Feature Option	Description
0	1A. Return / Outside Air Section	Standard - Manual Outside Air
0	1B. R/A Blower Configuration	Std (None)
0	1C. R/A Blower	Std (None)
0	1D. R/A Motor	Std (No Motor)
0	2. O/A CONTROL	Std (No Actuator)
0	3. GAS OPTIONS	Standard
B	4. MAINTENANCE OPTIONS	115V convenience outlet, factory wired
B	5A. S/A BLOWER CONFIG.	1 Blower (Premium efficiency motor)
C	5B. S/A BLOWER	Blower C (BI 18.5")
D	5C. S/A MOTOR	2.0 hp (1760 rpm)
0	6A. PRE FILTER TYPE	Standard (None)
0	6B. UNIT FILTER TYPE	Standard - 2" Throw-Away
0	6C. FILTER OPTIONS	Std
C	7. REFRIG. CONTROL	Fan Cycling
0	8. REFRIG. OPTIONS	Standard
A	9. REFRIG. ACCESSORIES	Sight Glass
A	10. POWER OPTIONS	Power Switch (100 amps)
H	11. SAFETY OPTIONS	Remote smoke detector terminals (field detector)
B	12. CONTROLS	Phase & Brown Out Protection
J	13. SPECIAL CONTROLS	Factory Installed DDC Controls Furnished by <del>Others (CPA)</del> <b>AAON, CPC MULTIFLEX 88AD</b>
0	14A. PREHEAT CONFIG.	Standard (No Preheat)
0	14B. PREHEAT SIZING	Standard (No Preheat)
0	15. BLANK	Standard
A	16. INT. CAB. OPTIONS	Stainless Steel Drain Pans
0	17. EXT. CAB. OPTIONS	Standard
0	18. CUSTOMER CODE	Standard
0	19. CODE OPTIONS	Std ETL U.S.A. Listing
0	20. CRATING	Standard
0	21. WATER COOLED COND.	Std (No Water Condenser)
0	22. BLANK	Standard
X	23. TYPE	Special Price Authorization & Gray Paint <b>CURB/BB</b>



# Unit Rating

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AAONEcat32 Ver. 4.91 (SN: 0449226)

1A 1B 1C 1D 2 3 4 5A 5B 5C 6A 6B 6C 7 8 9 10 11 12 13 14A 14B 15 16 17 18 19 20 21 22 23

**RM-008-3-0-BA02-232:0000-00B-BCD-000-C0AAHBJ-00-0A000000X**

Tag: RTU# 6: Deli/Bakery PNET060-00040506

## Job Information

Job Name: Kroger SW548 - Allen, TX  
Job Number: SW548  
Site Altitude: 997 ft  
Refrigerant: R-410A

## Unit Information

**\*\*WEIGHT AND PERFORMANCE DO NOT INCLUDE SPA**

Approx. Op./Ship Weights: 1139 / 1139 lbs.\*\*  
Supply CFM/ESP: 3200 / 0.5 in. wg.  
Final-Filter FV / Qty: 240.00 fpm / 6  
Outside CFM: 600  
Ambient Temperature: 100.4 °F DB / 76 °F WB  
Return Temperature: 73 °F DB / 58.9 °F WB

## Static Pressure

External: 0.50 in. wg.  
Evaporator: 0.10 in. wg.  
Filters Clean: 0.09 in. wg.  
Dirt Allowance: 0.2 in. wg.

Economizer: 0.00 in. wg.  
Heating: 0.12 in. wg.

Total: 1.01 in. wg.

## Cooling Section

	Gross	Net
Total Capacity:	84.00	81.04 MBH
Sensible Capacity:	81.86	78.91 MBH
Latent Capacity:	2.14 MBH	
Mixed Air Temp:	78.14 °F DB	62.63 °F WB
Entering Air Temp:	78.14 °F DB	62.63 °F WB
Lv Air Temp (Coil):	53.32 °F DB	53.20 °F WB
Lv Air Temp (Unit):	54.19 °F DB	53.55 °F WB
Supply Air Fan:	1 x 185 @ 0.92 BHP	
SA Fan RPM / Width:	1183 / 6.290"	
Evaporator Coil:	11.7 ft <sup>2</sup> / 2 Rows / 14 FPI	
Evaporator Face Velocity:	274.3 fpm	

## Heating Section

PreHeat Type: Std (No Preheat)  
Heating Type: Nat. Gas Heat  
Heating CFM: 3200  
Total Capacity: 145.8 MBH  
OA Temp: 21.1 DB / 18.0 °F WB  
RA Temp: 73.0 °F DB / 58.9 °F WB  
Entering Air Temp: 63.3 °F DB / 53.1 °F WB  
Leaving Air Temp: 105.5 °F DB / 68.2 °F WB  
Input: 180.0 MBH  
Heater Qty: 1  
Consumption: 180.0 MBH  
Operation: N/A

## EER - ARI Listing Information

EER @ ARI Conditions: 11.6

Application EER @ Op. Conditions: 9.4

## Electrical Data

Rating: 460/3/60  
Unit FLA: 20

Minimum Circuit Amp: 22  
Maximum Overcurrent: 25

	Qty	HP	VAC	Phase	RPM	FLA	RLA
Compressor 1:	2		460	3			7.1
Condenser Fans:	1	0.75	460	1	1075	2.3	
Supply Fan:	1	2.00	460	3	1760	3.4	
Combustion:	1	0.09	460	1	3000	0.7	

## Cabinet Sound Power Levels\*

Octave Bands:	63	125	250	500	1000	2000	4000	8000
Discharge LW(dB):	74	77	82	81	76	70	65	60
Return LW(dB):	71	73	70	60	61	56	48	41

\*Sound power levels are given for informational purposes only. The sound levels are not guaranteed.



# 18.5" STAR Plenum

2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094  
AAONEcat32 Ver. 4.91 (SN: 0449226)

## JOB INFORMATION:

Job Name: Kroger SW548 - Allen, TX  
 Job Tag: RTU# 6: Deli/Bakery  
 Rep Firm: PNET060-00040506  
 Date: A C Equipment  
 08/08/2006

## WHEEL SPECIFICATION:

Max RPM: 2,200  
 Diameter x Qty: 18.5 in. x 1  
 Width%:  
 Tip Speed: 100  
 Inertia: 5,730 FPM  
 3 WR<sup>2</sup>

## OPERATING CONDITIONS:

Air Flow: 3,200 CFM  
 Static Pressure: 1.01 in. Wg.  
 Plenum DP: 0.00 in. Wg.  
 Inlet Grill DP: 0.00 in. Wg.  
 TSP: 1.01 in. Wg.  
 Site Altitude: 997.00 Ft  
 TSP @ Sea Level: 1.05 in. Wg.

## MOTOR SELECTION:

Rated HP / Bypass: 2 / No  
 Frame Size: 145T  
 Nominal RPM: 1760  
 VAC/PH/HZ: 460/3/60  
 Efficiency: Premium / 0.865  
 Enclosure Type: ODP  
 Max Inertial Load: 27 WR<sup>2</sup>

## FAN PERFORMANCE:

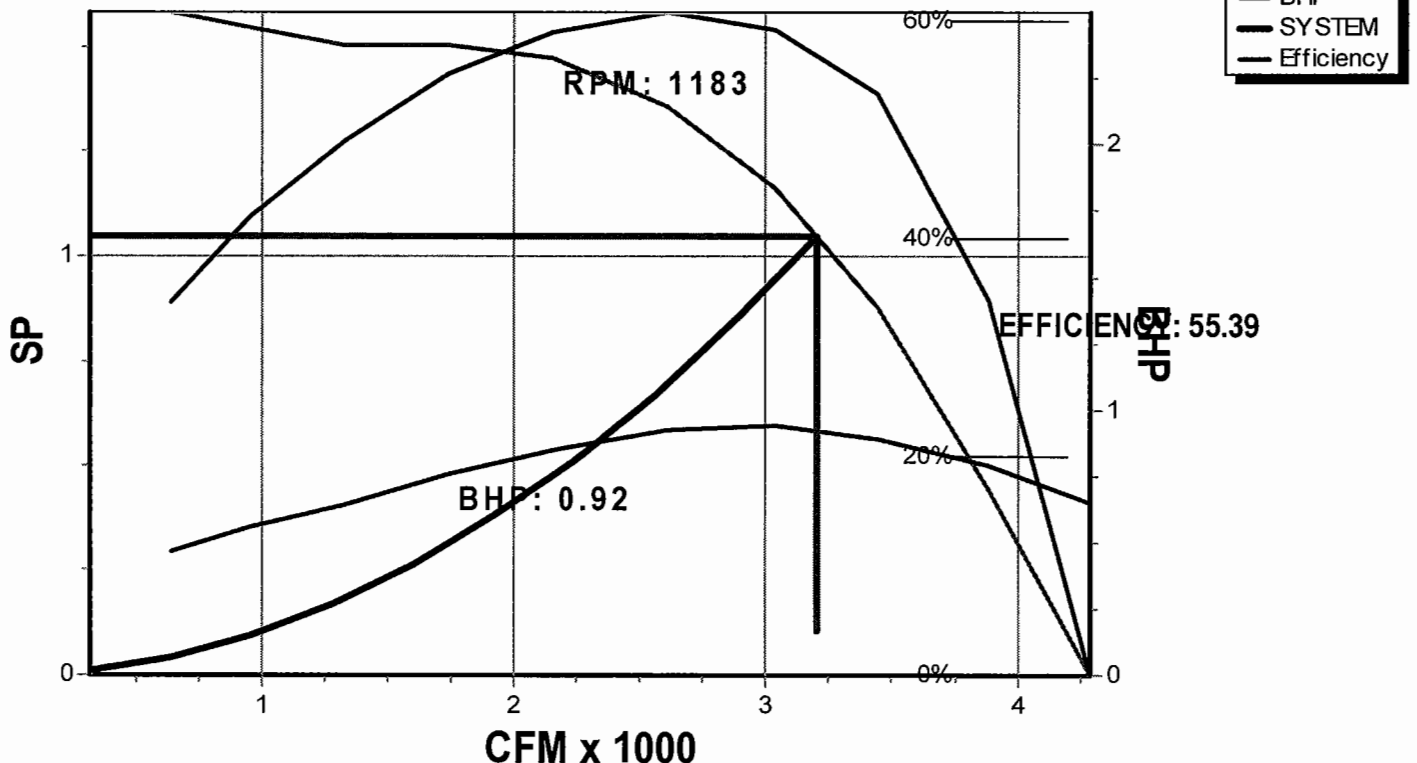
RPM: 1183  
 BHP: 0.92  
 Efficiency: 55.4%  
 In/Out Velocity: 1624/1260 FPM  
 Plenum Out Velocity: 53 FPM

## FAN SOUND POWER (Inlet/Outlet):

Octave Band:	(Re 10 <sup>-12</sup> watts)							
	1	2	3	4	5	6	7	8
	75	77	78	73	70	66	62	58
	74	77	82	82	78	73	68	63

SOUND POWER A-Weighted: 77 / 81 dB

Supply Fan Model: 185 @ 1183 RPM and 100% Width  
 Design Conditions: 3200 CFM @ 1.05" SP





# Unit Submittal

2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094  
AAONEcat32 Ver. 4.91 (SN: 0449226)

1A 1B 1C 1D 2 3 4 5A 5B 5C 6A 6B 6C 7 8 9 10 11 12 13 14A 14B 15 16 17 18 19 20 21 22 23

**HB-002-3-V-AA01-212 : B000-00A-0BF-000-000A00J-00-00A00000X**

Tag: RTU# 7: Customer/CBT/Acct. PNET060-00040506

Job Name: *Kroger SW548 - Allen, TX* Unit Submittal For: *The Kroger Company // Kroger L.P*  
Job Number: *SW548* Unit Submittal Date: *August 08, 2006*

	Base Option	Description
H	Series	Horizontal Unit
B	Generation	2nd Generation
002	Unit Size	Two
3	Voltage	460V/3Ø/60Hz
V	Discharge Location	Standard (Vertical Discharge - Vertical Return)
A	Cooling - Style	R410A
A	Cooling - Configuration	Air Cooled Cond w/ Std Coil
0	Cooling - Coating	Standard
1	Cooling - Staging	1 Stage
2	Heating - Type	Nat. Gas Aluminized
1	Heating - Designation	Heat 1 - 45 MBH
2	Heating - Staging	2 Stage

	Feature Option	Description
B	1A. Return / Outside Air Section	Manual Outside Air
0	1B. R/A Blower Configuration	Standard (None)
0	1C. R/A Blower	Standard (None)
0	1D. R/A Motor	Standard (None)
0	2. O/A CONTROL	Standard (No Actuator)
0	3. GAS OPTIONS	Standard ( <del>None</del> Field Kits for LP and Propane Regulators Available Separately)
A	4. MAINTENANCE OPTIONS	115V convenience outlet, <del>field wired</del>
0	5A. S/A BLOWER CONFIG.	1 Blower
B	5B. S/A BLOWER	Blower B (BI 16.5")
F	5C. S/A MOTOR	0.25 hp - Variable Speed
0	6A. PRE FILTER TYPE	Standard (None)
0	6B. UNIT FILTER TYPE	Standard - 2" Throw-Away 30% eff
0	6C. FILTER OPTIONS	Std
0	7. REFRIG. CONTROL	Std (5 min (On-Off) times, Fan Cycling and Adj. Compressor Lockout)
0	8. REFRIG. OPTIONS	Standard
0	9. REFRIG. ACCESSORIES	Standard
A	10. POWER OPTIONS	Power Switch (60 amps)
0	11. SAFETY OPTIONS	Standard
0	12. CONTROLS	Standard
J	13. SPECIAL CONTROLS	Factory Installed DDC Controls Furnished by <del>Others (CPA)</del> <b>AA7 ICPC MULTIFLEX 88AD</b>
0	14A. PREHEAT CONFIG.	Standard (No Preheat)
0	14B. PREHEAT SIZING	Standard (No Preheat)
0	15. BLANK	Standard
0	16. INT. CAB. OPTIONS	Standard (Stainless Steel Drain Pans)
A	17. EXT. CAB. OPTIONS	1" Double Wall G90 w/ Foam Insulation + Cond Coil Guards
0	18. CUSTOMER CODE	Standard
0	19. CODE OPTIONS	Std ETL U.S.A. Listing 1
0	20. CRATING	Standard
0	21. BLANK	Standard
0	22. BLANK	Standard
X	23. TYPE	Special Price Authorization & Gray Paint <b>CURB / BB</b>



# Unit Rating

2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094  
AAONEcat32 Ver. 4.91 (SN: 0449226)

1A 1B 1C 1D 2 3 4 5A 5B 5C 6A 6B 6C 7 8 9 10 11 12 13 14A 14B 15 16 17 18 19 20 21 22 23  
**HB-002-3-V-AA01-212: B000-00A-0BF-000-000A00J-00-00A00000X**

Tag: RTU# 7: Customer/CBT/Acct. PNET060-00040506

## Job Information

Job Name: Kroger SW548 - Allen, TX  
 Job Number: SW548  
 Site Altitude: 997 ft

## Static Pressure

External: 0.35 in. wg.  
 Evaporator: 0.05 in. wg.  
 Filters Clean: 0.06 in. wg.  
 Dirt Allowance: 0.15 in. wg.

## Cooling Section

	Gross	Net
Total Capacity:	24.38	23.51 MBH
Sensible Capacity:	21.58	20.71 MBH
Latent Capacity:	2.79 MBH	
Mixed Air Temp:	76.43 °F DB	61.42 °F WB
Entering Air Temp:	76.43 °F DB	61.42 °F WB
Lv Air Temp (Coil):	50.20 °F DB	50.03 °F WB
Lv Air Temp (Unit):	51.23 °F DB	50.47 °F WB
Supply Air Fan:	1 x DEE165(1/4hp-VS) @ 0.17 BHP	
SA Fan RPM / Width:	1012 / 3.386"	
Evaporator Coil:	5.0 ft <sup>2</sup> / 3 Rows / 14 FPI	
Evaporator Face Velocity:	161.2 fpm	

## SEER - ARI Listing Information

SEER @ ARI Conditions: 13.5

## Electrical Data

Rating: 460/3/60  
 Unit FLA: 7

Minimum Circuit Amp: 8  
 Maximum Overcurrent: 15

	Qty	HP	VAC	Phase	RPM	FLA	RLA
Compressor 1:	1		460	3			4.5
Condenser Fans:	1	0.33	460	1	1075	1.1	
Supply Fan:	1	0.25	460	1	1150	1.1	
Combustion:	1	0.09	460	1	3000	0.7	

## Cabinet Sound Power Levels\*

Octave Bands:	63	125	250	500	1000	2000	4000	8000
Discharge LW(dB):	72	73	75	68	66	64	58	53
Return LW(dB):	70	68	61	50	51	47	38	31

\*Sound power levels are given for informational purposes only. The sound levels are not guaranteed.

## Unit Information

\*\*WEIGHT AND PERFORMANCE DO NOT INCLUDE SPA

Approx. Op./Ship Weights: 868 / 868 lbs.\*\*  
 Supply CFM/ESP: 800 / 0.35 in. wg.  
 Final-Filter FV / Qty: 90.00 fpm / 4  
 Outside CFM: 100  
 Ambient Temperature: 100.4 °F DB / 76 °F WB  
 Return Temperature: 73 °F DB / 58.9 °F WB

Economizer: 0.02 in. wg.  
 Heating: 0.08 in. wg.  
 Cabinet: 0.00 in. wg.  
 Total: 0.71 in. wg.

## Heating Section

PreHeat Type: Std (No Preheat)  
 Heating Type: Nat. Gas Heat  
 Heating CFM: 800  
 Total Capacity: 36.0 MBH  
 OA Temp: 21.1 DB / 18.0 °F WB  
 RA Temp: 73.0 °F DB / 58.9 °F WB  
 Entering Air Temp: 66.5 °F DB / 55.1 °F WB  
 Leaving Air Temp: 107.9 °F DB / 69.4 °F WB  
 Input: 45.0 MBH  
 Heater Qty: 1  
 Consumption: 45.0 MBH  
 Operation: N/A



# 16.5" DEE Plenum

2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094  
AAONEcat32 Ver. 4.91 (SN: 0449226)

## JOB INFORMATION:

Job Name: Kroger SW548 - Allen, TX  
 Job Tag: RTU# 7:  
 Rep Firm: Customer / CBT / Acct.  
 Date: PNET060-00040506  
 A C Equipment  
 08/08/2006

## WHEEL SPECIFICATION:

Max RPM: 1,200  
 Diameter x Qty: 16.9 in. x 1  
 CFM:  
 Tip Speed: 800  
 4,478 FPM

## OPERATING CONDITIONS:

Air Flow: 800 CFM  
 Static Pressure: 0.71 in. Wg.  
 Relief Dampers DP: 0.00 in. Wg.  
 TSP: 0.71 in. Wg.  
 Site Altitude: 997.00 Ft  
 TSP @ Sea Level: 0.74 in. Wg.

## MOTOR SELECTION:

Rated HP / Bypass: 0.25 / No  
 Nominal RPM: 1150  
 VAC/PH/HZ: 460/3/60  
 Efficiency: 0.5

## FAN PERFORMANCE:

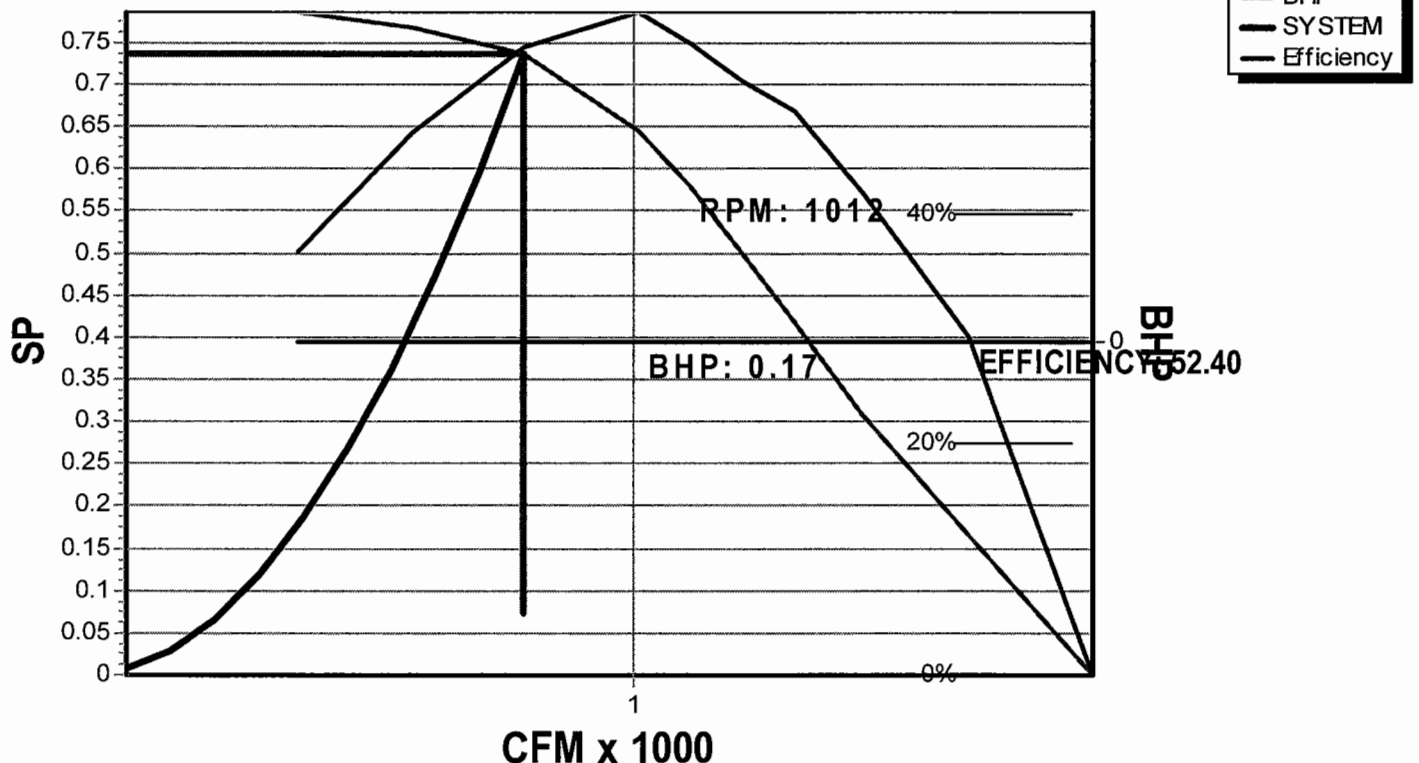
RPM: 1012  
 BHP: 0.17  
 Efficiency: 52.4%  
 In/Out Velocity: 1013/616 FPM  
 Plenum Out Velocity: 13 FPM

## FAN SOUND POWER (Inlet/Outlet):

Octave Band:	(Re 10 <sup>-12</sup> watts)							
	1	2	3	4	5	6	7	8
	73	72	69	62	60	57	52	47
	72	73	75	70	70	68	62	57

SOUND POWER A-Weighted: 73 / 75 dB

Supply Fan Model: DEE165(1/4hp-VS) @ 1012 RPM and 100% Width  
 Design Conditions: 800 CFM @ 0.74" SP





# Unit Submittal

2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094  
AAONEcat32 Ver. 4.91 (SN: 0449226)

1A 1B 1C 1D 2 3 4 5A 5B 5C 6A 6B 6C 7 8 9 10 11 12 13 14A 14B 15 16 17 18 19 20 21 22 23

**HB-004-3-V-AA01-000 : B000-00A-0BG-000-000A00J-00-00A00000X**

Tag: RTU# 8: ECR/Manager PNET060-00040506

Job Name: *Kroger SW548 - Allen, TX* Unit Submittal For: *The Kroger Company / Kroger L.P*  
Job Number: *SW548* Unit Submittal Date: *August 08, 2006*

	Base Option	Description
H	Series	Horizontal Unit
B	Generation	2nd Generation
004	Unit Size	Four
3	Voltage	460V/3Ø/60Hz
V	Discharge Location	Standard (Vertical Discharge - Vertical Return)
A	Cooling - Style	R410A
A	Cooling - Configuration	Air Cooled Cond w/ Std Coil
0	Cooling - Coating	Standard
1	Cooling - Staging	1 Stage
0	Heating - Type	No Heat
0	Heating - Designation	No Heat
0	Heating - Staging	No Heat

	Feature Option	Description
B	1A. Return / Outside Air Section	Manual Outside Air
0	1B. R/A Blower Configuration	Standard (None)
0	1C. R/A Blower	Standard (None)
0	1D. R/A Motor	Standard (None)
0	2. O/A CONTROL	Standard (No Actuator)
0	3. GAS OPTIONS	<del>Standard (None - Field Kits for LP and Propane Regulators Available Separately)</del>
A	4. MAINTENANCE OPTIONS	115V convenience outlet, <del>field wired</del>
0	5A. S/A BLOWER CONFIG.	1 Blower
B	5B. S/A BLOWER	Blower B (BI 16.5")
G	5C. S/A MOTOR	0.75 hp - Variable Speed
0	6A. PRE FILTER TYPE	Standard (None)
0	6B. UNIT FILTER TYPE	Standard - 2" Throw-Away 30% eff
0	6C. FILTER OPTIONS	Std
0	7. REFRIG. CONTROL	Std (5 min (On-Off) times, Fan Cycling and Adj. Compressor Lockout)
0	8. REFRIG. OPTIONS	Standard
0	9. REFRIG. ACCESSORIES	Standard
A	10. POWER OPTIONS	Power Switch (60 amps)
0	11. SAFETY OPTIONS	Standard
0	12. CONTROLS	Standard
J	13. SPECIAL CONTROLS	Factory Installed DDC Controls Furnished by <del>Others (SPA)</del> <b>AAON, CPC MULTIFLEX 88AD</b>
0	14A. PREHEAT CONFIG.	Standard (No Preheat)
0	14B. PREHEAT SIZING	Standard (No Preheat)
0	15. BLANK	Standard
0	16. INT. CAB. OPTIONS	Standard (Stainless Steel Drain Pans)
A	17. EXT. CAB. OPTIONS	1" Double Wall G90 w/ Foam Insulation + Cond Coil Guards
0	18. CUSTOMER CODE	Standard
0	19. CODE OPTIONS	Std ETL U.S.A. Listing 1
0	20. CRATING	Standard
0	21. BLANK	Standard
0	22. BLANK	Standard
X	23. TYPE	Special Price Authorization & Gray Paint <b>CRAB / B3</b>



# Unit Rating

2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094  
AAONEcat32 Ver. 4.91 (SN: 0449226)

1A 1B 1C 1D 2 3 4 5A 5B 5C 6A 6B 6C 7 8 9 10 11 12 13 14A 14B 15 16 17 18 19 20 21 22 23

**HB-004-3-V-AA01-000:B000-00A-0BG-000-000A00J-00-00A00000X**

Tag: RTU# 8: ECR/Manager PNET060-00040506

## Job Information

Job Name: Kroger SW548 - Allen, TX  
Job Number: SW548  
Site Altitude: 997 ft

## Static Pressure

External: 0.50 in. wg.  
Evaporator: 0.21 in. wg.  
Filters Clean: 0.07 in. wg.  
Dirt Allowance: 0.15 in. wg.

## Cooling Section

	Gross	Net
Total Capacity:	43.88	41.63 MBH
Sensible Capacity:	41.46	39.20 MBH
Latent Capacity:	2.43 MBH	
Mixed Air Temp:	77.71 °F DB	62.33 °F WB
Entering Air Temp:	77.71 °F DB	62.33 °F WB
Lv Air Temp (Coil):	52.47 °F DB	52.39 °F WB
Lv Air Temp (Unit):	53.81 °F DB	52.94 °F WB
Supply Air Fan:	1 x DEE165(3/4hp-VS) @ 0.48 BHP	
SA Fan RPM / Width:	1395 / 3.386"	
Evaporator Coil:	5.1 ft <sup>2</sup> / 4 Rows / 14 FPI	
Evaporator Face Velocity:	310.9 fpm	

## SEER - ARI Listing Information

SEER @ ARI Conditions: 13.3

## Electrical Data

Rating: 460/3/60  
Unit FLA: 10

Minimum Circuit Amp: 12  
Maximum Overcurrent: 15

	Qty	HP	VAC	Phase	RPM	FLA	RLA
Compressor 1:	1		460	3			7.1
Condenser Fans:	1	0.33	460	1	1075	1.1	
Supply Fan:	1	0.88	460	1	1625	2.1	

## Cabinet Sound Power Levels\*

Octave Bands:	63	125	250	500	1000	2000	4000	8000
Discharge LW(dB):	74	81	80	79	73	73	68	62
Return LW(dB):	70	76	70	61	58	57	49	42

\*Sound power levels are given for informational purposes only. The sound levels are not guaranteed.

## Unit Information

\*\*WEIGHT AND PERFORMANCE DO NOT INCLUDE SPA

Approx. Op./Ship Weights: 815 / 815 lbs.\*\*  
Supply CFM/ESP: 1600 / 0.5 in. wg.  
Final-Filter FV / Qty: 180.00 fpm / 4  
Outside CFM: 275  
Ambient Temperature: 100.4 °F DB / 76 °F WB  
Return Temperature: 73 °F DB / 58.9 °F WB

Economizer: 0.04 in. wg.  
Heating: 0.00 in. wg.  
Cabinet: 0.00 in. wg.  
Total: 0.97 in. wg.

## Heating Section

PreHeat Type: Std (No Preheat)  
Heating Type: No Heat



# 16.5" DEE Plenum

2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094  
AAONEcat32 Ver. 4.91 (SN: 0449226)

## JOB INFORMATION:

Job Name: Kroger SW548 - Allen, TX  
 Job Tag: RTU# 8: ECR/Manager  
 Rep Firm: PNET060-00040506  
 Date: A C Equipment  
 08/08/2006

## WHEEL SPECIFICATION:

Max RPM: 1,710  
 Diameter x Qty: 16.9 in. x 1  
 CFM:  
 Tip Speed: 1600  
 6,172 FPM

## OPERATING CONDITIONS:

Air Flow: 1,600 CFM  
 Static Pressure: 0.97 in. Wg.  
 Relief Dampers DP: 0.00 in. Wg.  
 TSP: 0.97 in. Wg.  
 Site Altitude: 997.00 Ft  
 TSP @ Sea Level: 1.01 in. Wg.

## MOTOR SELECTION:

Rated HP / Bypass: 0.88 / No  
 Nominal RPM: 1625  
 VAC/PH/HZ: 460/3/60  
 Efficiency: 0.54

## FAN PERFORMANCE:

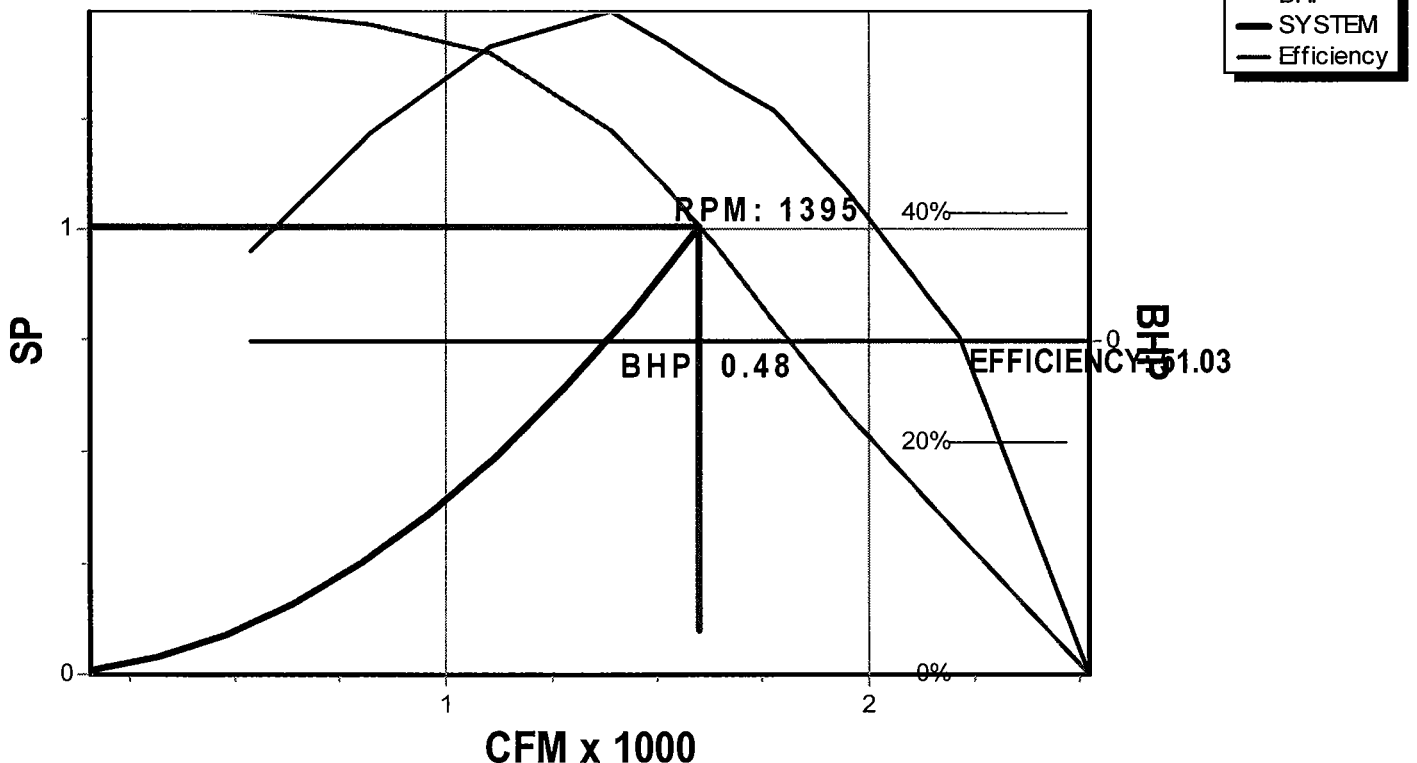
RPM: 1395  
 BHP: 0.48  
 Efficiency: 51.0%  
 In/Out Velocity: 2025/1233 FPM  
 Plenum Out Velocity: 27 FPM

## FAN SOUND POWER (Inlet/Outlet):

Octave Band:	(Re 10 <sup>-12</sup> watts)							
	1	2	3	4	5	6	7	8
	74	80	78	74	68	68	64	60
	74	81	80	81	76	76	72	66

SOUND POWER A-Weighted: 77 / 82 dB

Supply Fan Model: DEE165(3/4hp-VS) @ 1395 RPM and 100% Width  
 Design Conditions: 1600 CFM @ 1.01" SP





# Unit Submittal

2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094  
AAONEcat32 Ver. 4.91 (SN: 0449226)

1A 1B 1C 1D 2 3 4 5A 5B 5C 6A 6B 6C 7 8 9 10 11 12 13 14A 14B 15 16 17 18 19 20 21 22 23

**HB-005-3-V-AA01-222 : B000-00A-0BG-000-000AH0J-00-00A00000X**

Tag: RTU# 9: Pharmacy PNET060-00040506

Job Name: Kroger SW548 - Allen, TX      Unit Submittal For: The Kroger Company / Kroger L.P.  
Job Number: SW548      Unit Submittal Date: August 08, 2006

	Base Option	Description
H	Series	Horizontal Unit
B	Generation	2nd Generation
005	Unit Size	Five
3	Voltage	460V/3Ø/60Hz
V	Discharge Location	Standard (Vertical Discharge - Vertical Return)
A	Cooling - Style	R410A
A	Cooling - Configuration	Air Cooled Cond w/ Std Coil
0	Cooling - Coating	Standard
1	Cooling - Staging	1 Stage
2	Heating - Type	Nat. Gas Aluminized
2	Heating - Designation	Heat 2 - 60 MBH
2	Heating - Staging	2 Stage

	Feature Option	Description
B	1A. Return / Outside Air Section	Manual Outside Air
0	1B. R/A Blower Configuration	Standard (None)
0	1C. R/A Blower	Standard (None)
0	1D. R/A Motor	Standard (None)
0	2. O/A CONTROL	Standard (No Actuator)
0	3. GAS OPTIONS	Standard ( <del>None - Field Kits for LP and Propane Regulators Available Separately</del> )
A	4. MAINTENANCE OPTIONS	115V convenience outlet, <u>field wired</u>
0	5A. S/A BLOWER CONFIG.	1 Blower
B	5B. S/A BLOWER	Blower B (BI 16.5")
G	5C. S/A MOTOR	0.75 hp - Variable Speed
0	6A. PRE FILTER TYPE	Standard (None)
0	6B. UNIT FILTER TYPE	Standard - 2" Throw-Away 30% eff
0	6C. FILTER OPTIONS	Std
0	7. REFRIG. CONTROL	Std (5 min (On-Off) times, Fan Cycling and Adj. Compressor Lockout)
0	8. REFRIG. OPTIONS	Standard
0	9. REFRIG. ACCESSORIES	Standard
A	10. POWER OPTIONS	Power Switch (60 amps)
H	11. SAFETY OPTIONS	Remote smoke detector terminals (field detector)
0	12. CONTROLS	Standard
J	13. SPECIAL CONTROLS	Factory Installed DDC Controls Furnished by <del>Others (SPA)</del> <b>AAON, CPC MULTIFLEX 88 AD</b>
0	14A. PREHEAT CONFIG.	Standard (No Preheat)
0	14B. PREHEAT SIZING	Standard (No Preheat)
0	15. BLANK	Standard
0	16. INT. CAB. OPTIONS	Standard (Stainless Steel Drain Pans)
A	17. EXT. CAB. OPTIONS	1" Double Wall G90 w/ Foam Insulation + Cond Coil Guards
0	18. CUSTOMER CODE	Standard
0	19. CODE OPTIONS	Std ETL U.S.A. Listing 1
0	20. CRATING	Standard
0	21. BLANK	Standard
0	22. BLANK	Standard
X	23. TYPE	Special Price Authorization & Gray Paint <b>CURS/BG</b>



# Unit Rating

2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094  
AAONEcat32 Ver. 4.91 (SN: 0449226)

LA 1B 1C 1D 2 3 4 5A 5B 5C 6A 6B 6C 7 8 9 10 11 12 13 14A 14B 15 16 17 18 19 20 21 22 23  
**HB-005-3-V-AA01-222 : B000-00A-0BG-000-000AH0J-00-00A00000X**

Tag: RTU# 9: Pharmacy PNET060-00040506

### Job Information

Job Name: Kroger SW548 - Allen, TX  
 Job Number: SW548  
 Site Altitude: 997 ft

### Unit Information

**\*\*WEIGHT AND PERFORMANCE DO NOT INCLUDE SPA**

Approx. Op./Ship Weights: 952 / 952 lbs.\*\*  
 Supply CFM/ESP: 2000 / 0.4 in. wg.  
 Final-Filter FV / Qty: 225.00 fpm / 4  
 Outside CFM: 400  
 Ambient Temperature: 100.4 °F DB / 76 °F WB  
 Return Temperature: 73 °F DB / 58.9 °F WB

### Static Pressure

External: 0.40 in. wg.  
 Evaporator: 0.32 in. wg.  
 Filters Clean: 0.08 in. wg.  
 Dirt Allowance: 0.15 in. wg.

Economizer: 0.05 in. wg.  
 Heating: 0.10 in. wg.  
 Cabinet: 0.00 in. wg.  
 Total: 1.10 in. wg.

### Cooling Section

	Gross	Net
Total Capacity:	54.65	51.26 MBH
Sensible Capacity:	51.65	48.27 MBH
Latent Capacity:	2.99 MBH	
Mixed Air Temp:	78.48 °F DB	62.86 °F WB
Entering Air Temp:	78.48 °F DB	62.86 °F WB
Lv Air Temp (Coil):	53.29 °F DB	53.04 °F WB
Lv Air Temp (Unit):	54.90 °F DB	53.70 °F WB
Supply Air Fan:	1 x DEE165(3/4hp-VS) @ 0.72 BHP	
SA Fan RPM / Width:	1615 / 3.386"	
Evaporator Coil:	5.1 ft <sup>2</sup> / 4 Rows / 14 FPI	
Evaporator Face Velocity:	388.7 fpm	

### Heating Section

PreHeat Type: Std (No Preheat)  
 Heating Type: Nat. Gas Heat  
 Heating CFM: 1600  
 Total Capacity: 48.0 MBH  
 OA Temp: 21.1 DB / 18.0 °F WB  
 RA Temp: 73.0 °F DB / 58.9 °F WB  
 Entering Air Temp: 60.0 °F DB / 51.0 °F WB  
 Leaving Air Temp: 87.3 °F DB / 61.7 °F WB  
 Input: 60.0 MBH  
 Heater Qty: 1  
 Consumption: 60.0 MBH  
 Operation: N/A

### SEER - ARI Listing Information

SEER @ ARI Conditions: 13.0

### Electrical Data

Rating: 460/3/60  
 Unit FLA: 12

Minimum Circuit Amp: 14  
 Maximum Overcurrent: 20

	Qty	HP	VAC	Phase	RPM	FLA	RLA
Compressor 1:	1		460	3			9
Condenser Fans:	1	0.33	460	1	1075	1.1	
Supply Fan:	1	0.88	460	1	1625	2.1	
Combustion:	1	0.09	460	1	3000	0.7	

### Cabinet Sound Power Levels\*

Octave Bands:	63	125	250	500	1000	2000	4000	8000
Discharge LW(dB):	75	85	84	84	77	76	73	67
Return LW(dB):	70	78	74	66	62	62	55	48

\*Sound power levels are given for informational purposes only. The sound levels are not guaranteed.



# 16.5" DEE Plenum

2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094  
AAONEcat32 Ver. 4.91 (SN: 0449226)

## JOB INFORMATION:

Job Name: Kroger SW548 - Allen, TX  
 Job Tag: RTU# 9: Pharmacy  
 Rep Firm: PNET060-00040506  
 Date: A C Equipment  
 08/08/2006

## WHEEL SPECIFICATION:

Max RPM: 1,710  
 Diameter x Qty: 16.9 in. x 1  
 CFM:  
 Tip Speed: 2000  
 7,145 FPM

## OPERATING CONDITIONS:

Air Flow: 2,000 CFM  
 Static Pressure: 1.10 in. Wg.  
 Relief Dampers DP: 0.00 in. Wg.  
 TSP: 1.10 in. Wg.  
 Site Altitude: 997.00 Ft  
 TSP @ Sea Level: 1.14 in. Wg.

## MOTOR SELECTION:

Rated HP / Bypass: 0.88 / No  
 Nominal RPM: 1625  
 VAC/PH/HZ: 460/3/60  
 Efficiency: 0.54

## FAN PERFORMANCE:

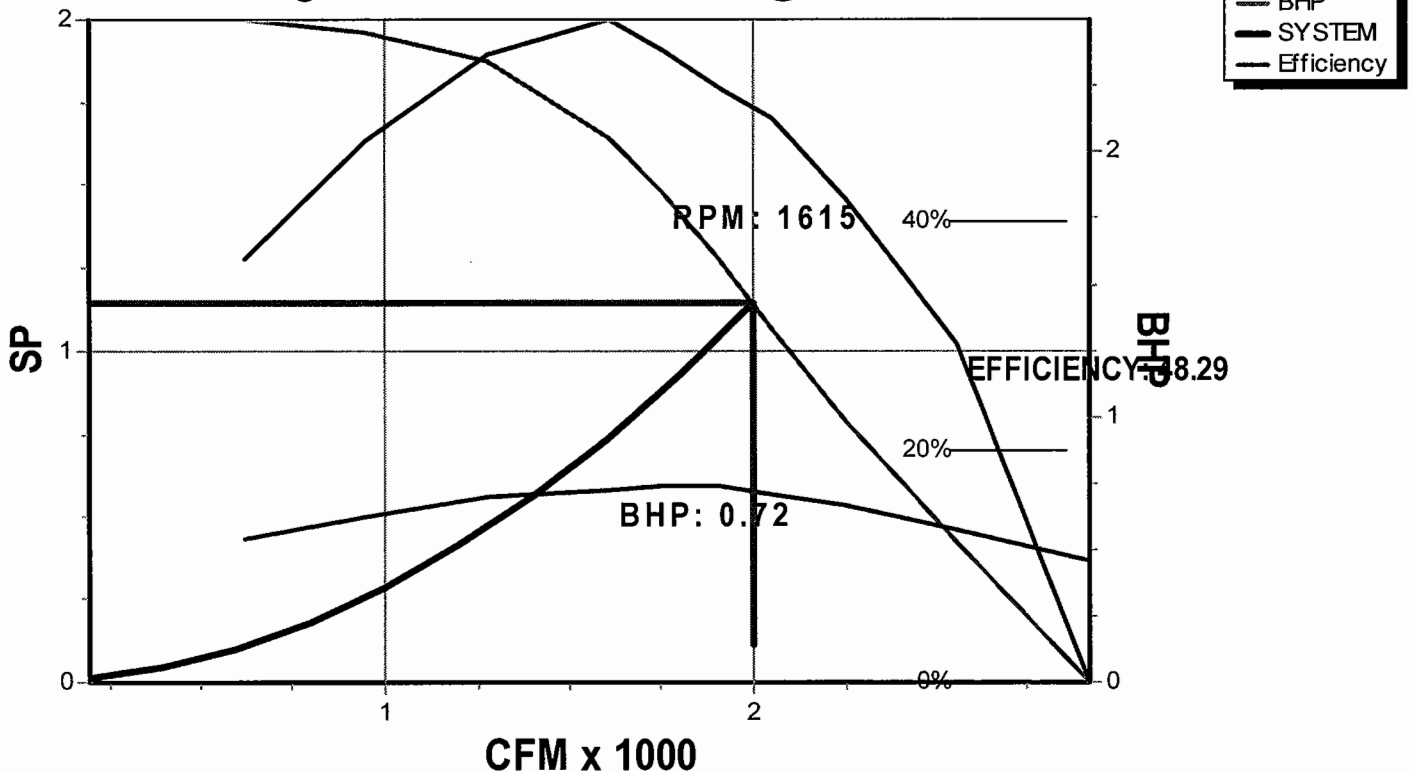
RPM: 1615  
 BHP: 0.72  
 Efficiency: 48.3%  
 In/Out Velocity: 2532/1541 FPM  
 Plenum Out Velocity: 33 FPM

## FAN SOUND POWER (Inlet/Outlet):

Octave Band:	(Re 10 <sup>-12</sup> watts)							
	1	2	3	4	5	6	7	8
	75	83	83	79	72	73	70	66
	75	85	84	86	81	80	77	71

SOUND POWER A-Weighted: 80 / 85 dB

Supply Fan Model: DEE165(3/4hp-VS) @ 1615 RPM and 100% Width  
 Design Conditions: 2000 CFM @ 1.14" SP





# Unit Submittal

2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094  
AAONEcat32 Ver. 4.91 (SN: 0449226)

1A 1B 1C 1D 2 3 4 5A 5B 5C 6A 6B 6C 7 8 9 10 11 12 13 14A 14B 15 16 17 18 19 20 21 22 23

**HB-004-3-V-AA01-212 : B000-00A-0BG-000-000A00J-00-00A00000X**

Tag: RTU# 10: Conference PNET060-00040506

Job Name: *Kroger SW548 - Allen, TX* Unit Submittal For: *The Kroger Company // Kroger L.P*  
Job Number: *SW548* Unit Submittal Date: *August 08, 2006*

	Base Option	Description
<b>H</b>	Series	Horizontal Unit
<b>B</b>	Generation	2nd Generation
<b>004</b>	Unit Size	Four
<b>3</b>	Voltage	460V/3Ø/60Hz
<b>V</b>	Discharge Location	Standard (Vertical Discharge - Vertical Return)
<b>A</b>	Cooling - Style	R410A
<b>A</b>	Cooling - Configuration	Air Cooled Cond w/ Std Coil
<b>0</b>	Cooling - Coating	Standard
<b>1</b>	Cooling - Staging	1 Stage
<b>2</b>	Heating - Type	Nat. Gas Aluminized
<b>1</b>	Heating - Designation	Heat 1 - 45 MBH
<b>2</b>	Heating - Staging	2 Stage

	Feature Option	Description
<b>B</b>	<b>1A.</b> Return / Outside Air Section	Manual Outside Air
<b>0</b>	<b>1B.</b> R/A Blower Configuration	Standard (None)
<b>0</b>	<b>1C.</b> R/A Blower	Standard (None)
<b>0</b>	<b>1D.</b> R/A Motor	Standard (None)
<b>0</b>	<b>2.</b> O/A CONTROL	Standard (No Actuator)
<b>0</b>	<b>3.</b> GAS OPTIONS	Standard ( <del>None - Field Kits for LP and Pressure Regulators Available Separately</del> )
<b>A</b>	<b>4.</b> MAINTENANCE OPTIONS	115V convenience outlet, <del>field-wired</del>
<b>0</b>	<b>5A.</b> S/A BLOWER CONFIG.	1 Blower
<b>B</b>	<b>5B.</b> S/A BLOWER	Blower B (BI 16.5")
<b>G</b>	<b>5C.</b> S/A MOTOR	0.75 hp - Variable Speed
<b>0</b>	<b>6A.</b> PRE FILTER TYPE	Standard (None)
<b>0</b>	<b>6B.</b> UNIT FILTER TYPE	Standard - 2" Throw-Away 30% eff
<b>0</b>	<b>6C.</b> FILTER OPTIONS	Std
<b>0</b>	<b>7.</b> REFRIG. CONTROL	Std (5 min (On-Off) times, Fan Cycling and Adj. Compressor Lockout)
<b>0</b>	<b>8.</b> REFRIG. OPTIONS	Standard
<b>0</b>	<b>9.</b> REFRIG. ACCESSORIES	Standard
<b>A</b>	<b>10.</b> POWER OPTIONS	Power Switch (60 amps)
<b>0</b>	<b>11.</b> SAFETY OPTIONS	Standard
<b>0</b>	<b>12.</b> CONTROLS	Standard
<b>J</b>	<b>13.</b> SPECIAL CONTROLS	Factory Installed DDC Controls Furnished by <del>Others (CPA)</del> <b>AAON, CPC MULTIFLEX 85AD</b>
<b>0</b>	<b>14A.</b> PREHEAT CONFIG.	Standard (No Preheat)
<b>0</b>	<b>14B.</b> PREHEAT SIZING	Standard (No Preheat)
<b>0</b>	<b>15.</b> BLANK	Standard
<b>0</b>	<b>16.</b> INT. CAB. OPTIONS	Standard (Stainless Steel Drain Pans)
<b>A</b>	<b>17.</b> EXT. CAB. OPTIONS	1" Double Wall G90 w/ Foam Insulation + Cond Coil Guards
<b>0</b>	<b>18.</b> CUSTOMER CODE	Standard
<b>0</b>	<b>19.</b> CODE OPTIONS	Std ETL U.S.A. Listing 1
<b>0</b>	<b>20.</b> CRATING	Standard
<b>0</b>	<b>21.</b> BLANK	Standard
<b>0</b>	<b>22.</b> BLANK	Standard
<b>X</b>	<b>23.</b> TYPE	Special Price Authorization & Gray Paint <b>CURB / BG</b>



# Unit Rating

2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094  
AAONEcat32.Ver. 4.91 (SN: 0449226)

1A 1B 1C 1D 2 3 4 5A 5B 5C 6A 6B 6C 7 8 9 10 11 12 13 14A 14B 15 16 17 18 19 20 21 22 23  
**HB-004-3-V-AA01-212:B000-00A-0BG-000-000A00J-00-00A00000X**

Tag: RTU# 10: Conference PNET060-00040506

### Job Information

Job Name: Kroger SW548 - Allen, TX  
 Job Number: SW548  
 Site Altitude: 997 ft

### Unit Information

**\*\*WEIGHT AND PERFORMANCE DO NOT INCLUDE SPA**

Approx. Op./Ship Weights: 871 / 871 lbs.\*\*  
 Supply CFM/ESP: 1600 / 0.3 in. wg.  
 Final-Filter FV / Qty: 180.00 fpm / 4  
 Outside CFM: 300  
 Ambient Temperature: 100.4 °F DB / 76 °F WB  
 Return Temperature: 73 °F DB / 58.9 °F WB

### Static Pressure

External: 0.30 in. wg.  
 Evaporator: 0.21 in. wg.  
 Filters Clean: 0.07 in. wg.  
 Dirt Allowance: 0.15 in. wg.

Economizer: 0.04 in. wg.  
 Heating: 0.16 in. wg.  
 Cabinet: 0.00 in. wg.  
 Total: 0.93 in. wg.

### Cooling Section

	Gross	Net
Total Capacity:	44.11	41.93 MBH
Sensible Capacity:	41.64	39.45 MBH
Latent Capacity:	2.47 MBH	
Mixed Air Temp:	78.14 °F DB	62.63 °F WB
Entering Air Temp:	78.14 °F DB	62.63 °F WB
Lv Air Temp (Coil):	52.77 °F DB	52.69 °F WB
Lv Air Temp (Unit):	54.07 °F DB	53.22 °F WB
Supply Air Fan:	1 x DEE165(3/4hp-VS) @ 0.46 BHP	
SA Fan RPM / Width:	1380 / 3.386"	
Evaporator Coil:	5.1 ft <sup>2</sup> / 4 Rows / 14 FPI	
Evaporator Face Velocity:	310.9 fpm	

### Heating Section

PreHeat Type: Std (No Preheat)  
 Heating Type: Nat. Gas Heat  
 Heating CFM: 1200  
 Total Capacity: 36.0 MBH  
 OA Temp: 21.1 DB / 18.0 °F WB  
 RA Temp: 73.0 °F DB / 58.9 °F WB  
 Entering Air Temp: 60.0 °F DB / 51.0 °F WB  
 Leaving Air Temp: 87.3 °F DB / 61.7 °F WB  
 Input: 45.0 MBH  
 Heater Qty: 1  
 Consumption: 45.0 MBH  
 Operation: N/A

### SEER - ARI Listing Information

SEER @ ARI Conditions: 13.3

### Electrical Data

Rating: 460/3/60  
 Unit FLA: 10

Minimum Circuit Amp: 12  
 Maximum Overcurrent: 15

	Qty	HP	VAC	Phase	RPM	FLA	RLA
Compressor 1:	1		460	3			7.1
Condenser Fans:	1	0.33	460	1	1075	1.1	
Supply Fan:	1	0.88	460	1	1625	2.1	
Combustion:	1	0.09	460	1	3000	0.7	

### Cabinet Sound Power Levels\*

Octave Bands:	63	125	250	500	1000	2000	4000	8000
Discharge LW(dB):	74	81	80	79	73	73	68	62
Return LW(dB):	70	76	70	60	58	57	49	42

\*Sound power levels are given for informational purposes only. The sound levels are not guaranteed.



# 16.5" DEE Plenum

2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094  
AAONEcat32 Ver. 4.91 (SN: 0449226)

## JOB INFORMATION:

Job Name: Kroger SW548 - Allen, TX  
 Job Tag: RTU# 10: Conference  
 Rep Firm: PNET060-00040506  
 Date: A C Equipment  
 08/08/2006

## WHEEL SPECIFICATION:

Max RPM: 1,710  
 Diameter x Qty: 16.9 in. x 1  
 CFM:  
 Tip Speed: 1600  
 6,106 FPM

## OPERATING CONDITIONS:

Air Flow: 1,600 CFM  
 Static Pressure: 0.93 in. Wg.  
 Relief Dampers DP: 0.00 in. Wg.  
 TSP: 0.93 in. Wg.  
 Site Altitude: 997.00 Ft  
 TSP @ Sea Level: 0.96 in. Wg.

## MOTOR SELECTION:

Rated HP / Bypass: 0.88 / No  
 Nominal RPM: 1625  
 VAC/PH/HZ: 460/3/60  
 Efficiency: 0.54

## FAN PERFORMANCE:

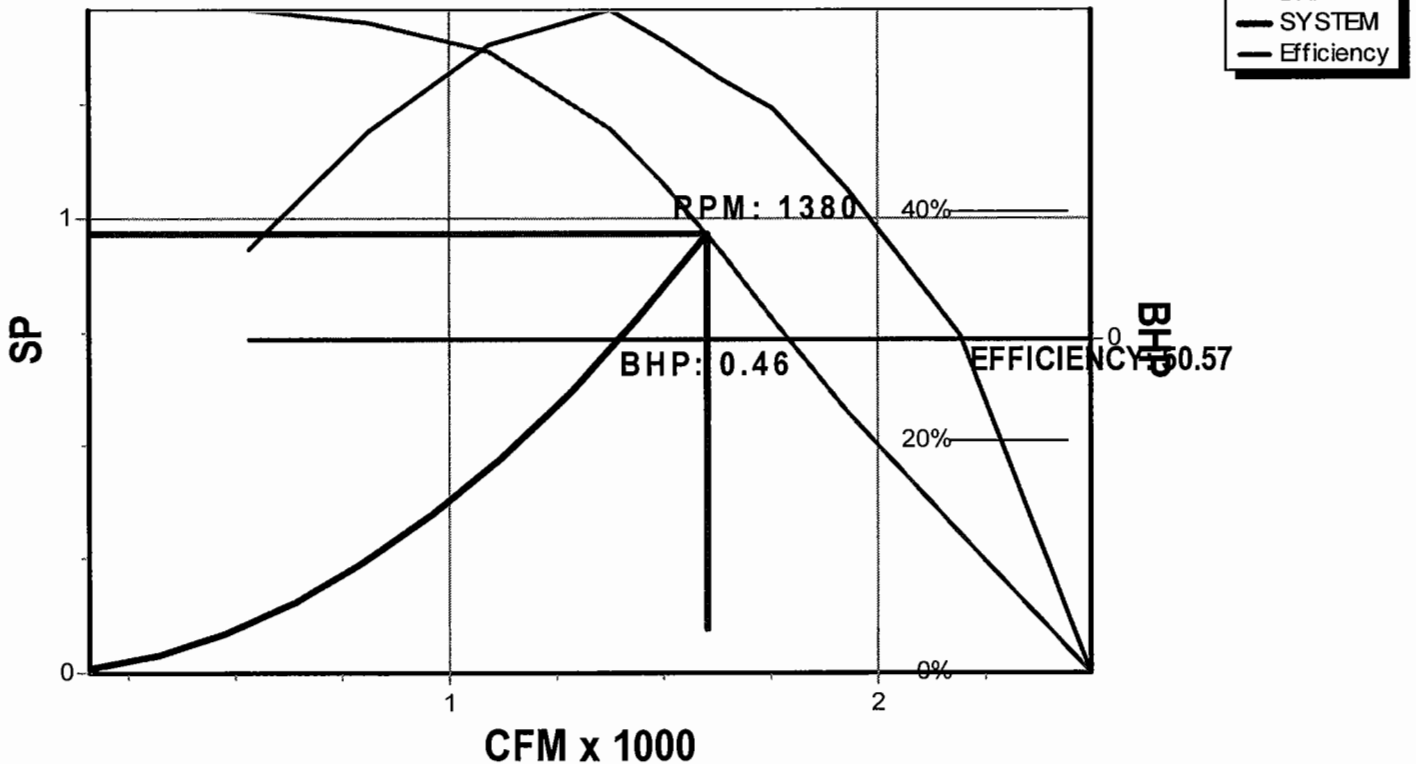
RPM: 1380  
 BHP: 0.46  
 Efficiency: 50.6%  
 In/Out Velocity: 2025/1233 FPM  
 Plenum Out Velocity: 27 FPM

## FAN SOUND POWER (Inlet/Outlet):

Octave Band:	(Re 10 <sup>-12</sup> watts)							
	1	2	3	4	5	6	7	8
	74	80	78	73	68	68	64	60
	74	81	80	81	76	76	72	66

SOUND POWER A-Weighted: 77 / 81 dB

Supply Fan Model: DEE165(3/4hp-VS) @ 1380 RPM and 100% Width  
 Design Conditions: 1600 CFM @ 0.96" SP





# Unit Submittal

2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094  
AAONEcat32 Ver. 4.91 (SN: 0449226)

1A 1B 1C 1D 2 3 4 5A 5B 5C 6A 6B 6C 7 8 9 10 11 12 13 14A 14B 15 16 17 18 19 20 21 22 23

**RM-008-3-0-BA02-232:0000-00B-BCD-000-C0AAHBJ-00-0A000000X**

Tag: RTU# 11: Loading Dock PNET060-00040506

Job Name: Kroger SW548 - Allen, TX Unit Submittal For: The Kroger Company // Kroger L.P.  
Job Number: SW548 Unit Submittal Date: August 08, 2006

	Base Option	Description
R	Series	Roof Top Unit
M	Generation	Eighth Generation
008	Unit Size	Eight
3	Voltage	460V/3Ø/60Hz
0	Inter. Protection	Standard
B	Cooling - Style	R410A
A	Cooling - Configuration	Air Cooled Cond w/ Std Coil
0	Cooling - Coating	Standard
2	Cooling - Staging	2 Stage
2	Heating - Type	Nat. Gas Aluminized
3	Heating - Designation	Heat 3 - 180 MBtuh
2	Heating - Staging	2 Stage

	Feature Option	Description
0	1A. Return / Outside Air Section	Standard - Manual Outside Air
0	1B. R/A Blower Configuration	Std (None)
0	1C. R/A Blower	Std (None)
0	1D. R/A Motor	Std (No Motor)
0	2. O/A CONTROL	Std (No Actuator)
0	3. GAS OPTIONS	Standard
B	4. MAINTENANCE OPTIONS	115V convenience outlet, factory wired
B	5A. S/A BLOWER CONFIG.	1 Blower (Premium efficiency motor)
C	5B. S/A BLOWER	Blower C (BI 18.5")
D	5C. S/A MOTOR	2.0 hp (1760 rpm)
0	6A. PRE FILTER TYPE	Standard (None)
0	6B. UNIT FILTER TYPE	Standard - 2" Throw-Away
0	6C. FILTER OPTIONS	Std
C	7. REFRIG. CONTROL	Fan Cycling
0	8. REFRIG. OPTIONS	Standard
A	9. REFRIG. ACCESSORIES	Sight Glass
A	10. POWER OPTIONS	Power Switch (100 amps)
H	11. SAFETY OPTIONS	Remote smoke detector terminals (field detector)
B	12. CONTROLS	Phase & Brown Out Protection
J	13. SPECIAL CONTROLS	Factory Installed DDC Controls Furnished by <del>Others (SPA)</del> <b>AAON, CPC MULTIFLEX 88A0</b>
0	14A. PREHEAT CONFIG.	Standard (No Preheat)
0	14B. PREHEAT SIZING	Standard (No Preheat)
0	15. BLANK	Standard
A	16. INT. CAB. OPTIONS	Stainless Steel Drain Pans
0	17. EXT. CAB. OPTIONS	Standard
0	18. CUSTOMER CODE	Standard
0	19. CODE OPTIONS	Std ETL U.S.A. Listing
0	20. CRATING	Standard
0	21. WATER COOLED COND.	Std (No Water Condenser)
0	22. BLANK	Standard
X	23. TYPE	Special Price Authorization & Gray Paint <b>C428 189</b>



# Unit Rating

2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094  
AAONEcat32 Ver. 4.91 (SN: 0449226)

1A 1B 1C 1D 2 3 4 5A 5B 5C 6A 6B 6C 7 8 9 10 11 12 13 14A 14B 15 16 17 18 19 20 21 22 23

**RM-008-3-0-BA02-232:0000-00B-BCD-000-C0AAHBJ-00-0A000000X**

Tag: RTU# 11: Loading Dock PNET060-00040506

## Job Information

Job Name: Kroger SW548 - Allen, TX  
 Job Number: SW548  
 Site Altitude: 997 ft  
 Refrigerant: R-410A

## Static Pressure

External: 0.40 in. wg.  
 Evaporator: 0.10 in. wg.  
 Filters Clean: 0.09 in. wg.  
 Dirt Allowance: 0.35 in. wg.

## Cooling Section

	Gross	Net
Total Capacity:	81.46	78.39 MBH
Sensible Capacity:	79.77	76.70 MBH
Latent Capacity:	1.69 MBH	
Mixed Air Temp:	75.57 °F DB	60.80 °F WB
Entering Air Temp:	75.57 °F DB	60.80 °F WB
Lv Air Temp (Coil):	51.39 °F DB	51.35 °F WB
Lv Air Temp (Unit):	52.30 °F DB	51.73 °F WB
Supply Air Fan:	1 x 185 @ 0.96 BHP	
SA Fan RPM / Width:	1197 / 6.290"	
Evaporator Coil:	11.7 ft <sup>2</sup> / 2 Rows / 14 FPI	
Evaporator Face Velocity:	274.3 fpm	

## EER - ARI Listing Information

EER @ ARI Conditions: 11.6

## Electrical Data

Rating: 460/3/60  
 Unit FLA: 20

	Qty	HP	VAC
Compressor 1:	2		460
Condenser Fans:	1	0.75	460
Supply Fan:	1	2.00	460
Combustion:	1	0.09	460

## Cabinet Sound Power Levels\*

Octave Bands:	63	125	250	500	1000	2000	4000	8000
Discharge LW(dB):	74	77	82	81	76	71	64	60
Return LW(dB):	72	73	70	61	61	56	48	41

\*Sound power levels are given for informational purposes only. The sound levels are not guaranteed.

## Unit Information

\*\*WEIGHT AND PERFORMANCE DO NOT INCLUDE SPA

Approx. Op./Ship Weights: 1139 / 1139 lbs.\*\*  
 Supply CFM/ESP: 3200 / 0.4 in. wg.  
 Final-Filter FV / Qty: 240.00 fpm / 6  
 Outside CFM: 300  
 Ambient Temperature: 100.4 °F DB / 76 °F WB  
 Return Temperature: 73 °F DB / 58.9 °F WB

Economizer: 0.00 in. wg.  
 Heating: 0.12 in. wg.

Total: 1.06 in. wg.

## Heating Section

PreHeat Type: Std (No Preheat)  
 Heating Type: Nat. Gas Heat  
 Heating CFM: 3200  
 Total Capacity: 145.8 MBH  
 OA Temp: 21.1 DB / 18.0 °F WB  
 RA Temp: 73.0 °F DB / 58.9 °F WB  
 Entering Air Temp: 68.1 °F DB / 56.1 °F WB  
 Leaving Air Temp: 110.3 °F DB / 70.4 °F WB  
 Input: 180.0 MBH  
 Heater Qty: 1  
 Consumption: 180.0 MBH  
 Operation: N/A

Application EER @ Op. Conditions: 9.1

Minimum Circuit Amp: 22  
 Maximum Overcurrent: 25

Phase	RPM	FLA	RLA
3			7.1
1	1075	2.3	
3	1760	3.4	
1	3000	0.7	



# 18.5" STAR Plenum

2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094  
AAONEcat32 Ver. 4.91 (SN: 0449226)

## JOB INFORMATION:

Job Name: Kroger SW548 - Allen, TX  
 Job Tag: RTU# 11: Loading Dock  
 Rep Firm: PNET060-00040506  
 Date: A C Equipment  
 08/08/2006

## WHEEL SPECIFICATION:

Max RPM: 2,200  
 Diameter x Qty: 18.5 in. x 1  
 Width%:  
 Tip Speed: 100  
 Inertia: 5,797 FPM  
 3 WR<sup>2</sup>

## OPERATING CONDITIONS:

Air Flow: 3,200 CFM  
 Static Pressure: 1.06 in. Wg.  
 Plenum DP: 0.00 in. Wg.  
 Inlet Grill DP: 0.00 in. Wg.  
 TSP: 1.06 in. Wg.  
 Site Altitude: 997.00 Ft  
 TSP @ Sea Level: 1.10 in. Wg.

## MOTOR SELECTION:

Rated HP / Bypass: 2 / No  
 Frame Size: 145T  
 Nominal RPM: 1760  
 VAC/PH/HZ: 460/3/60  
 Efficiency: Premium / 0.865  
 Enclosure Type: ODP  
 Max Inertial Load: 27 WR<sup>2</sup>

## FAN PERFORMANCE:

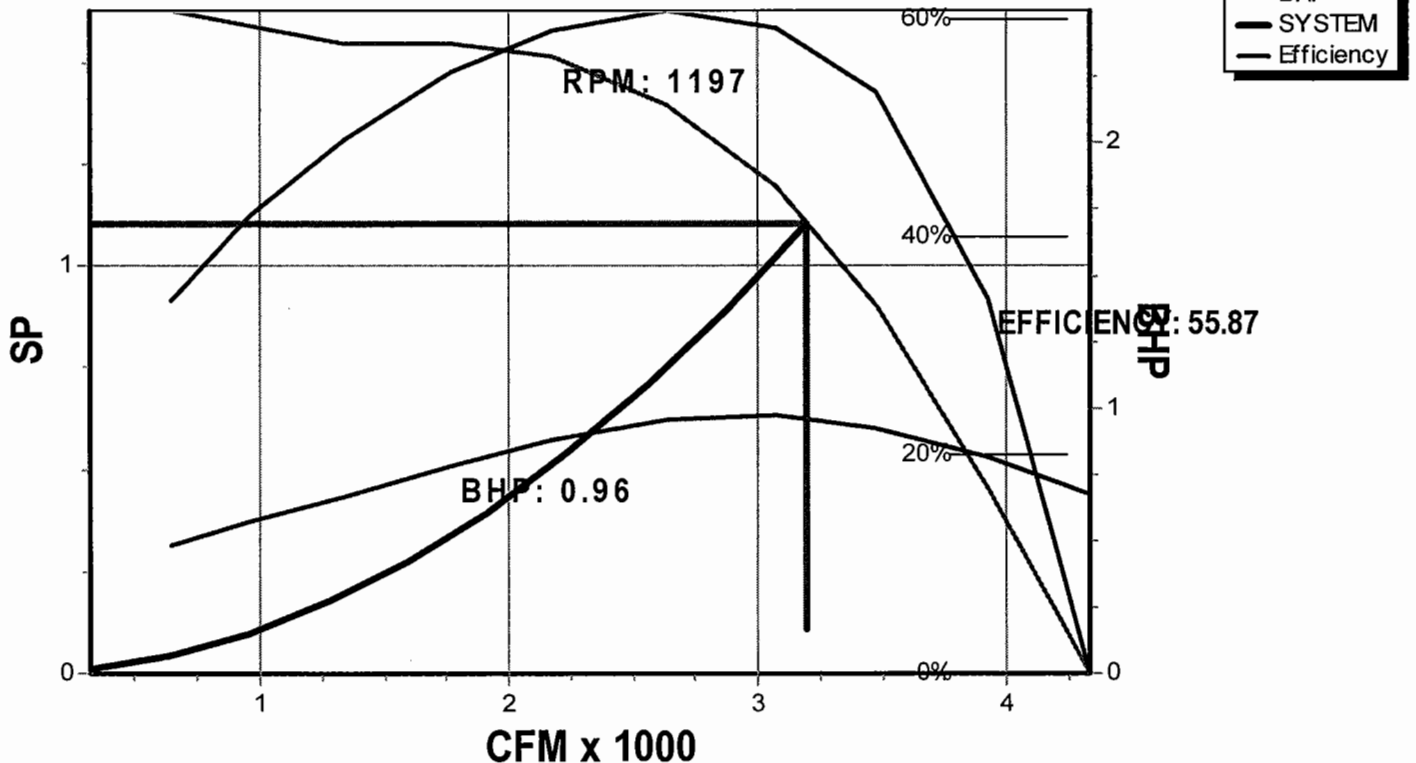
RPM: 1197  
 BHP: 0.96  
 Efficiency: 55.9%  
 In/Out Velocity: 1624/1260 FPM  
 Plenum Out Velocity: 53 FPM

## FAN SOUND POWER (Inlet/Outlet):

Octave Band:	(Re 10 <sup>-12</sup> watts)							
	1	2	3	4	5	6	7	8
	75	77	78	73	70	66	62	58
	74	77	82	82	78	73	67	63

SOUND POWER A-Weighted: 77 / 81 dB

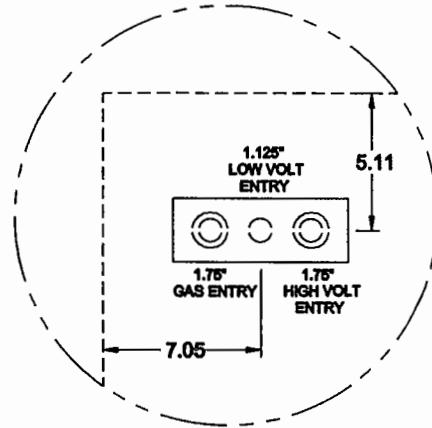
Supply Fan Model: 185 @ 1197 RPM and 100% Width  
 Design Conditions: 3200 CFM @ 1.10" SP



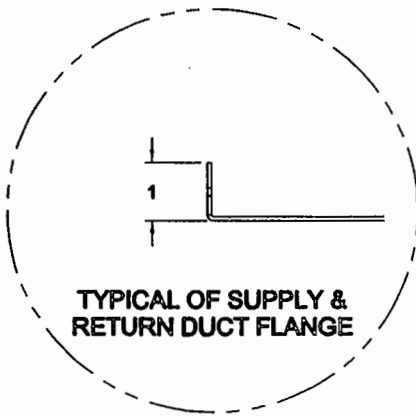
W/ ECONOMIZER & RETURN AIR BYPASS~ 26 70 TON

CLEARANCES

LOCATION	? UNIT SIZE ? 26 - 70 TON
RETURN AIR (BACK)	48
VENT SIDE (FRONT)	48
LEFT SIDE	48
RIGHT SIDE	48
TOP	UNOBSTRUCTED



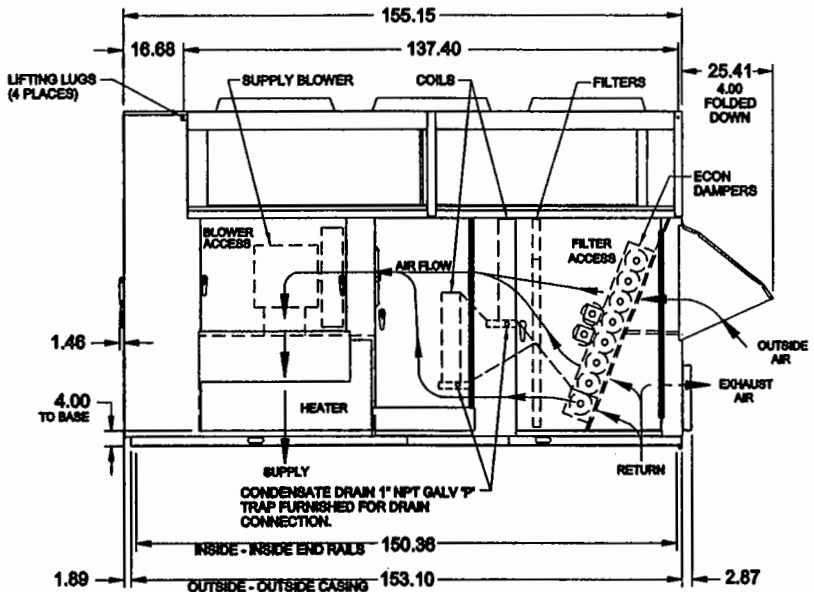
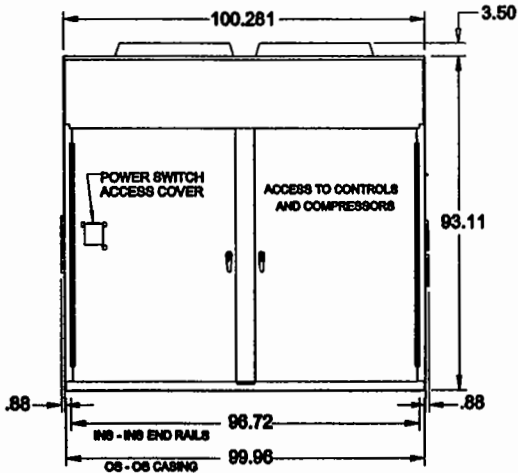
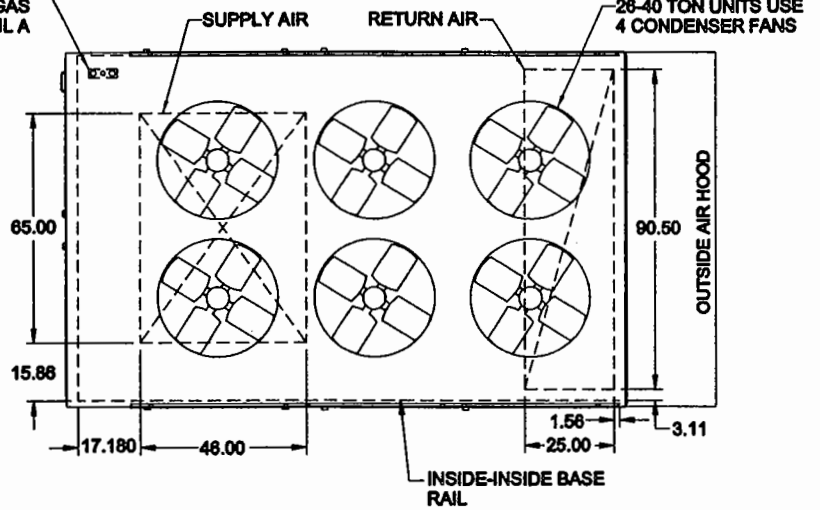
DETAIL A



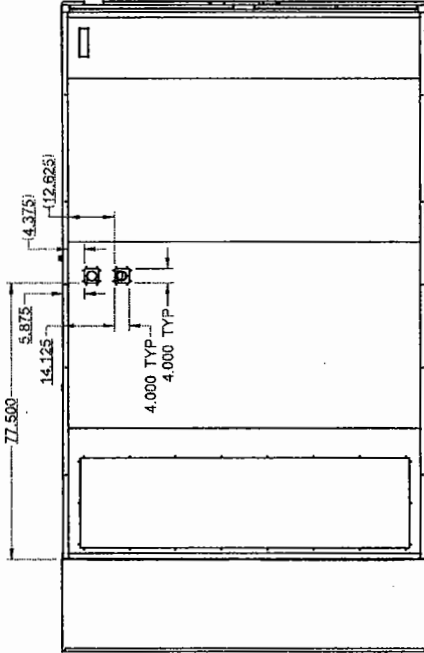
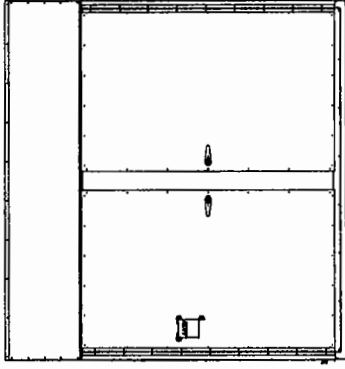
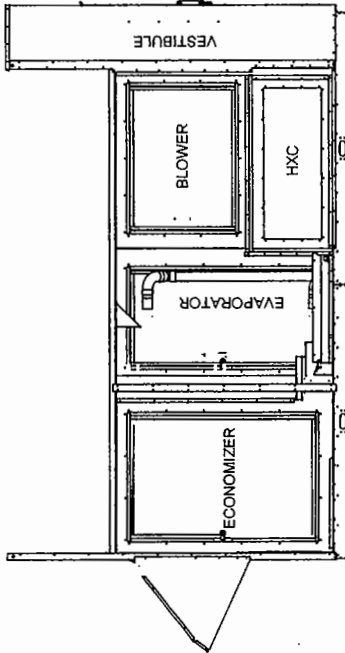
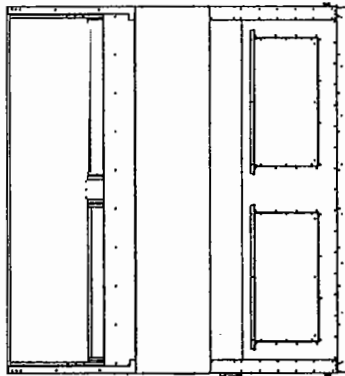
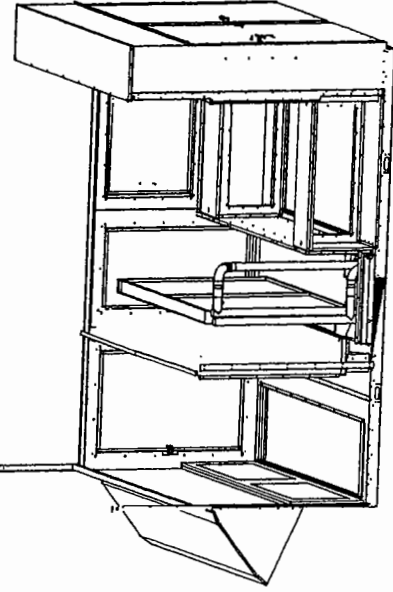
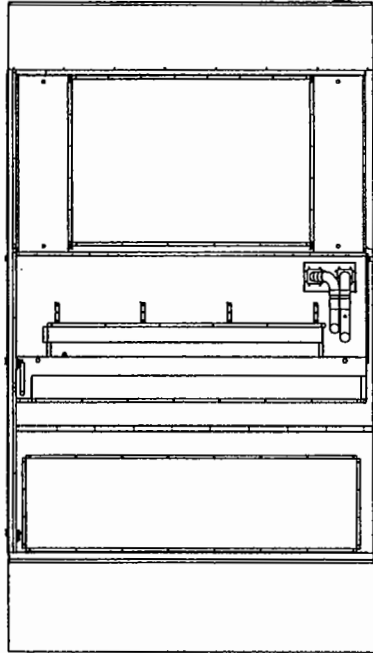
TYPICAL OF SUPPLY & RETURN DUCT FLANGE

DETAIL B

THROUGH THE BASE ELECTRICAL AND GAS ENTRY. SEE DETAIL A



NOTE: ALL DIMENSIONS ARE OUTSIDE TO OUTSIDE UNLESS NOTED OTHERWISE.

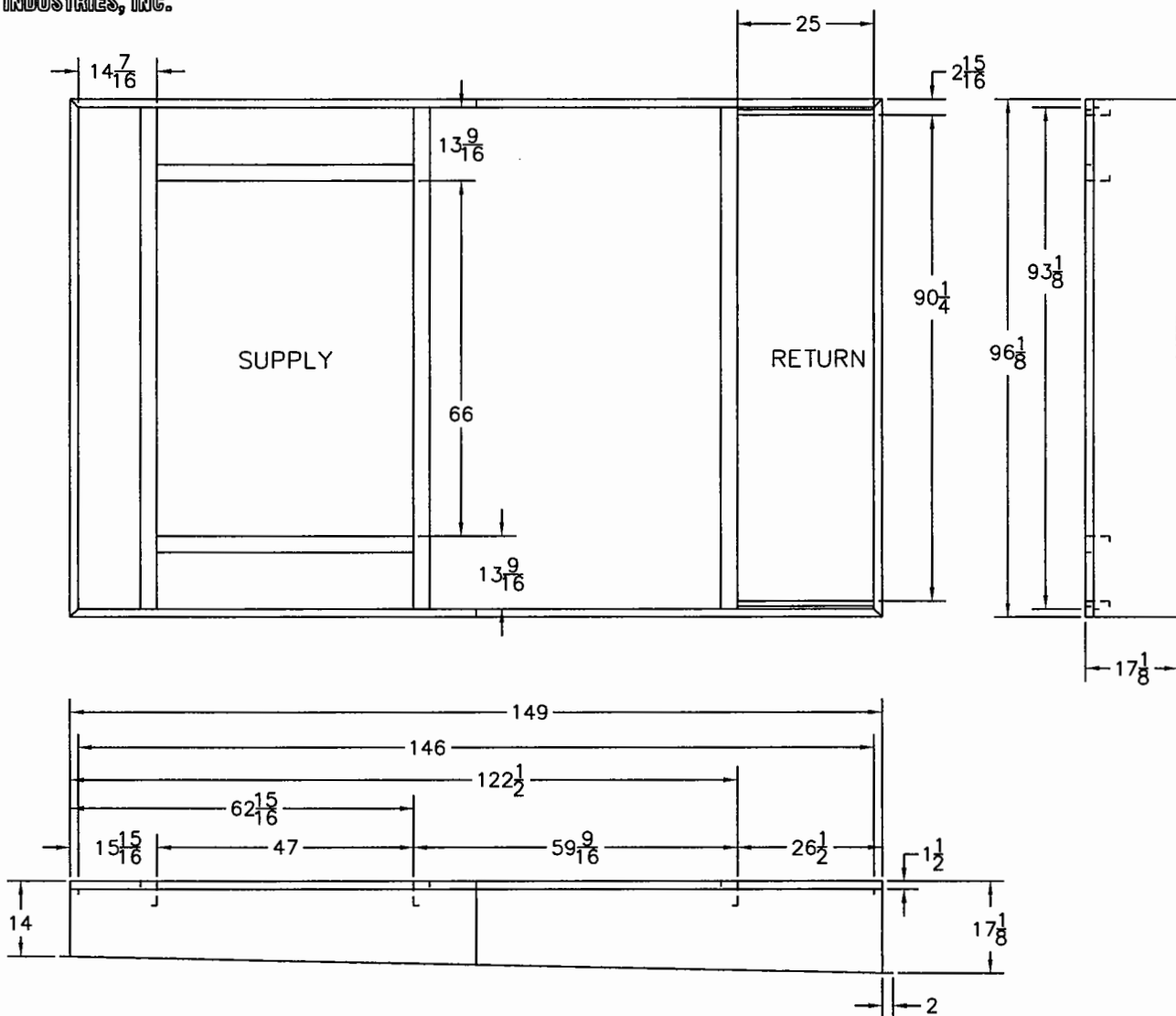


REV	BY	ECH NUMBER	DATE
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100	KL		

**MATERIAL:**  
 UNLESS OTHERWISE SPECIFIED  
**DESIGNER:** kmax:RDD  
**CHECKED:** Krogger Recalium Coil Piping Detail RND  
**APPROVED:**  
**MATL QTY - SQ. FT.**  
**DATE**  
**DOCUMENT NUMBER**  
**SHEET 220**  
**REV. H**  
**FACE 1**



ARC-3 / AAON RN 31-70 STD. (D CABINET) / 14H / .25:12



QTY:  
TAG:

FEATURES:

- 18 GA GALVANIZED CONSTRUCTION
- BURGLAR BAR INSERTS
- 1 1/2" THICK 3lb DENSITY FIBERGLASS INSULATION
- FULL HEIGHT MITERED AND WELDED CORNERS
- FACTORY INSTALLED 2X2 P.T. WOOD NAILER
- 14" HEIGHT
- 18 GA LINERS

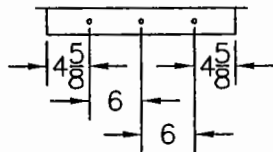
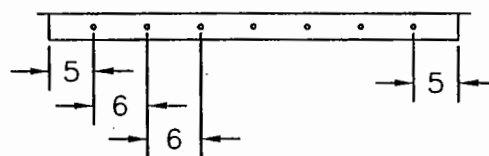
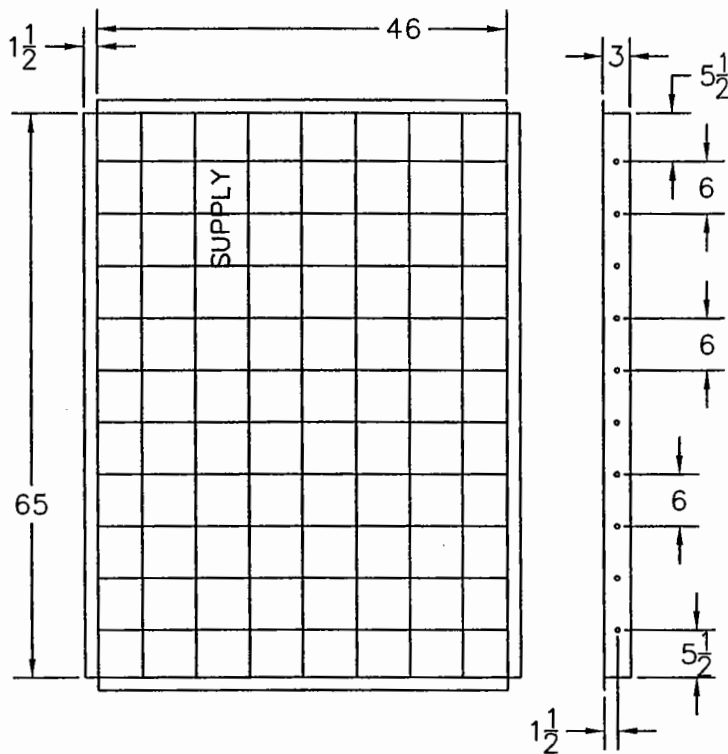
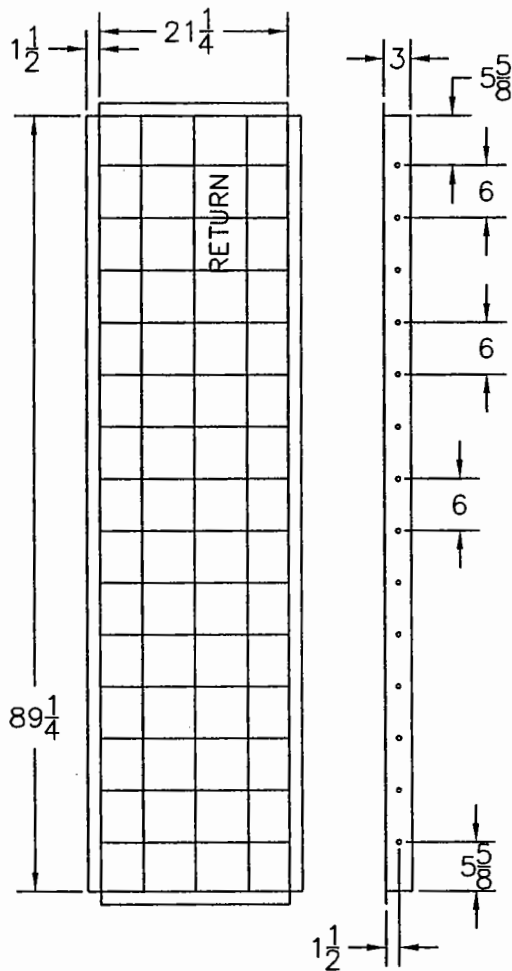
LEAD TIME QUOTED BEGINS AFTER APPROVED COPY OF THIS DRAWING IS RECEIVED BY AES

APPROVED: \_\_\_\_\_  
DATE: \_\_\_\_\_

AES ORDER NO:	JOB NAME: KROGER
FILENAME: KROGER_AA37_ARC3_1410200	LOCATION:
DRAWN BY: MGP	DATE: 1/4/06



BURGLAR BAR INSERTS FOR AAON RN26-70



QTY:  
TAG:

LEAD TIME QUOTED BEGINS AFTER APPROVED COPY OF THIS DRAWING IS RECEIVED BY AES

APPROVED: \_\_\_\_\_  
DATE: \_\_\_\_\_

- FEATURES:
- 18 GAUGE GALVANIZED STEEL FRAME
  - FULLY WELDED
  - 1/2" O.D. BARS - 6" O.C.

AES ORDER NO:

JOB NAME:

FILENAME: KROGER\_AA37\_BBI.DWG

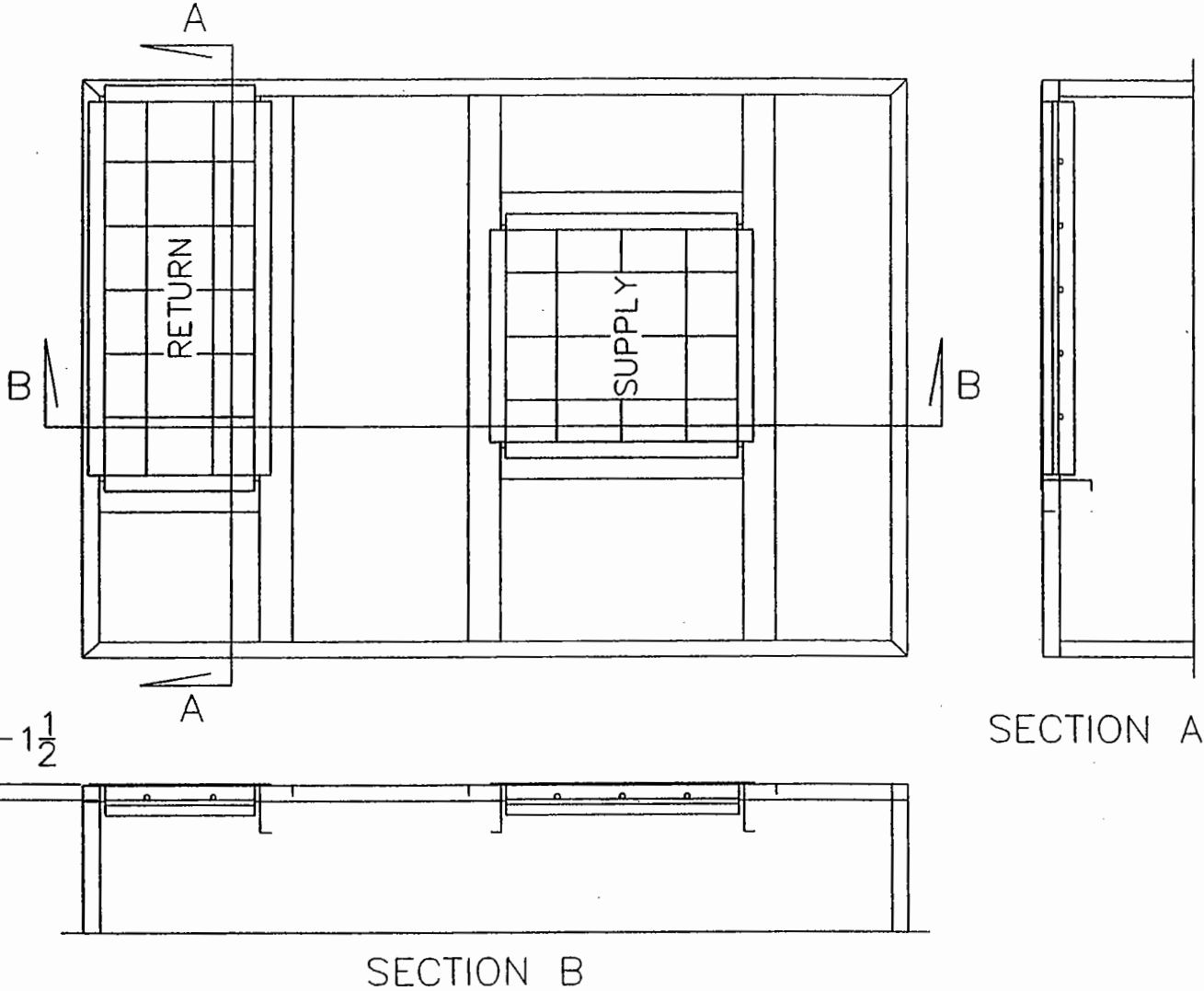
LOCATION:

DRAWN BY: PLED

DATE: 6/6/05



BURGLAR BAR INSERT DETAIL



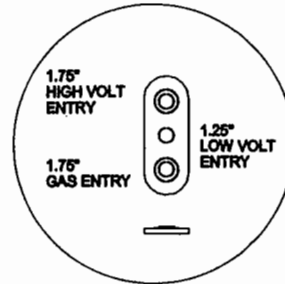
TYPICAL BURGLAR BAR INSTALLATION

BURGLAR BAR INSERTS ARE UNDERSIZED TO FIT DUCT DROPS.

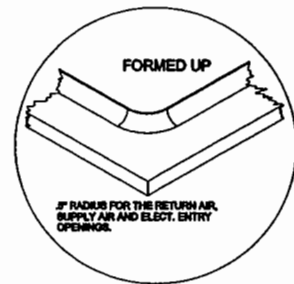
AES ORDER NO:	JOB NAME: KROGER
FILENAME: KROGER_AA03_ARC3_14H.DWG	LOCATION:
DRAWN BY: JOE	DATE: 6/16/05

# B-CABINET STANDARD ~ 8-15 TON

CLEARANCES	
LOCATION	UNIT SIZE
	8 • 10 • 13 • 15
RETURN AIR (BACK)	48
VENT SIDE (FRONT)	48
LEFT SIDE	6
RIGHT SIDE	60
TOP	UNOBSTRUCTED

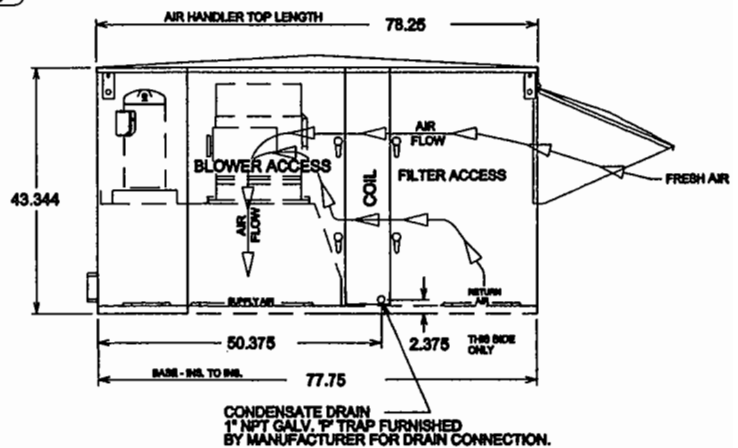
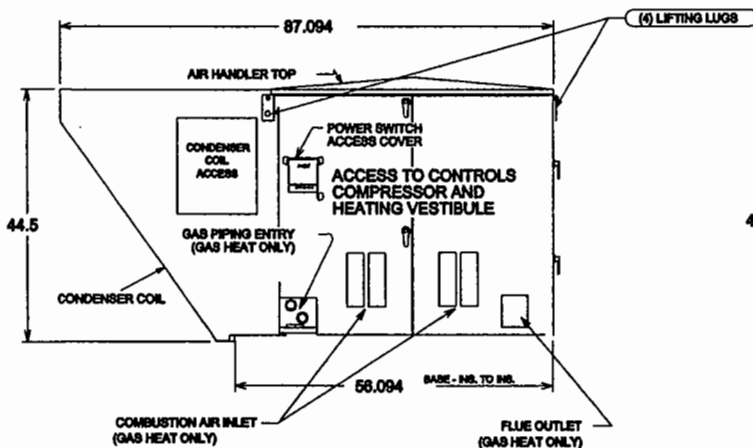
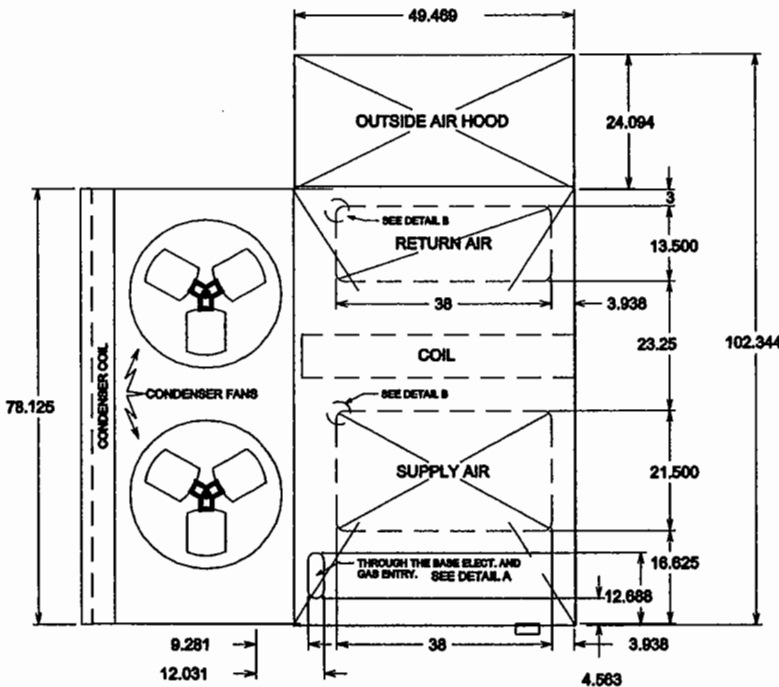


DETAIL A



DETAIL B

NUMBER OF CONDENSER FANS  
 8-10 TON - 1 FAN  
 13-15 TON - 2 FANS



NOTES:

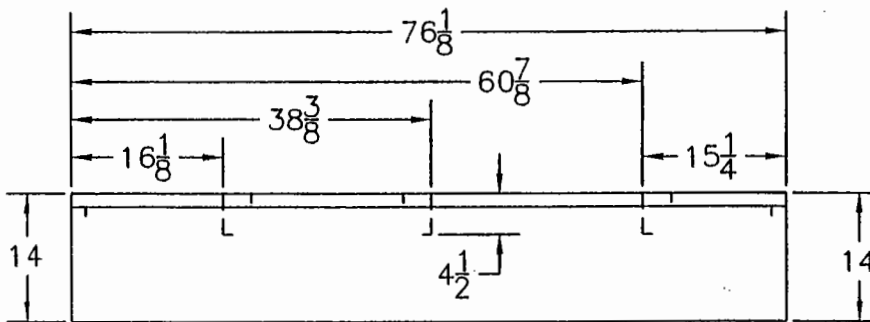
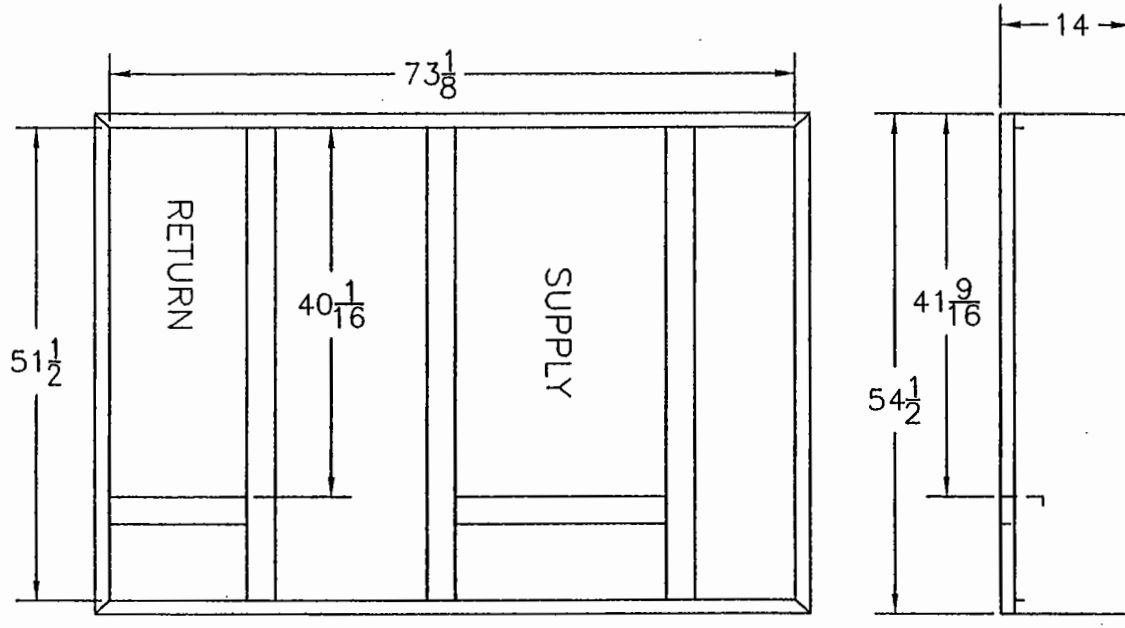
ALL DIMENSIONS ARE OUTSIDE TO OUTSIDE UNLESS NOTED OTHERWISE.

ALLOW .625" SCREW CLEARANCE AROUND UNDERSIDE OF BASE.



ARC-3 / AAON RM 08-15 "B" CABINET

Weight: 175lbs/ea.



QTY:  
TAG:

FEATURES:

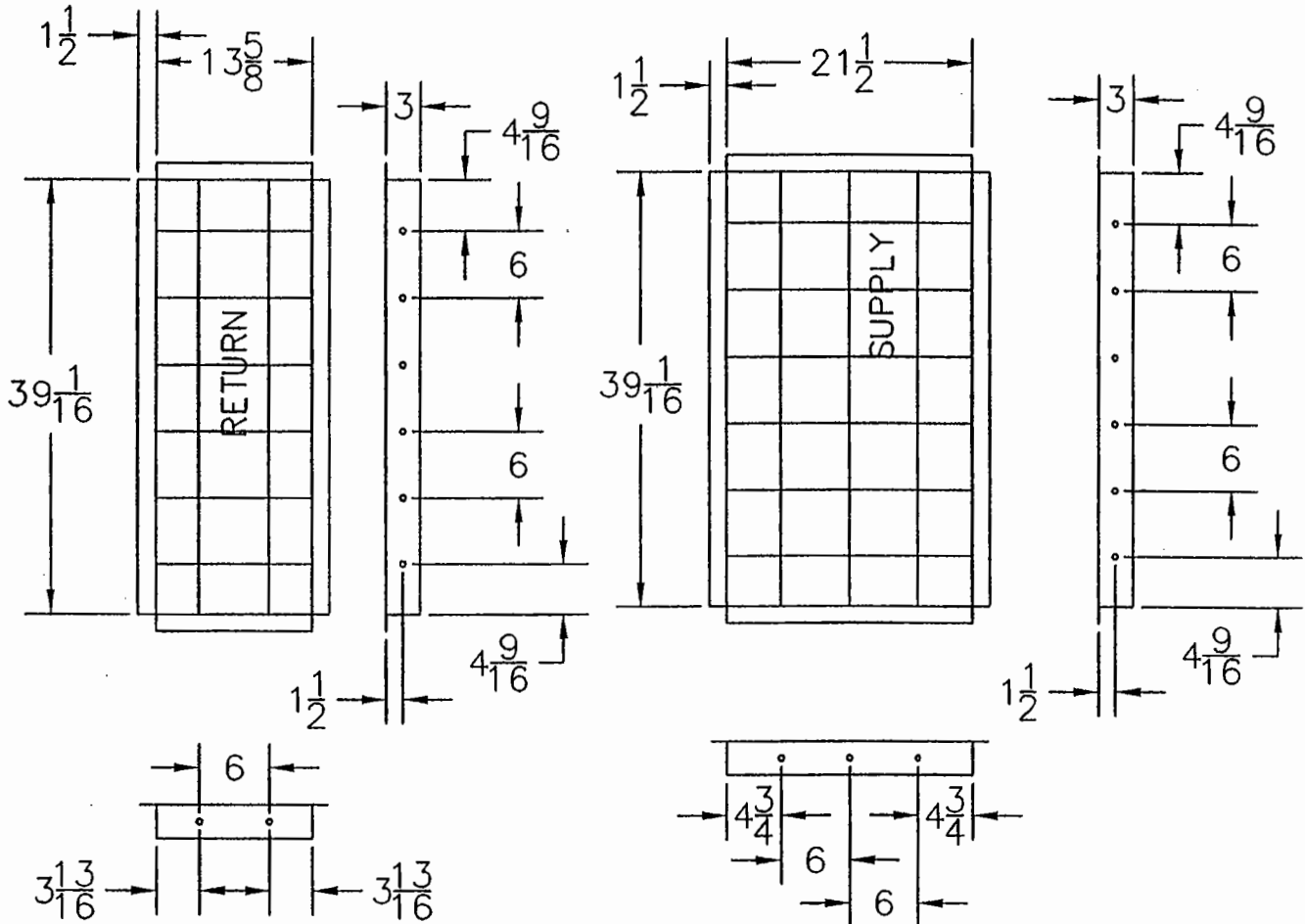
- 18 GA GALVANIZED STEEL CONSTRUCTION
- 18 GA LINERS
- BURGLAR BAR INSERTS
- 1 1/2" THICK 316 DENSITY FIBERGLASS INSULATION
- FULL HEIGHT MITERED AND WELDED CORNERS
- FACTORY INSTALLED 2X2 P.T. WOOD NAILER
- 14" HEIGHT
- 1x1 ANGLE IN CORNERS

LEAD TIME QUOTED BEGINS AFTER APPROVED COPY OF THIS DRAWING IS RECEIVED BY AES	
APPROVED:	_____
DATE:	_____

AES ORDER NO:	JOB NAME: KROGER
FILENAME: KROGER_AA03_ARC3_14H.DWG	LOCATION:
DRAWN BY: JOE	DATE: 6/16/05



BURGLAR BAR INSERTS FOR AAOB RM08-15



QTY:  
TAG:

- FEATURES:  
 - 18 GAUGE GALVANIZED STEEL FRAME  
 - FULLY WELDED  
 - 1/2" O.D. BARS - 6" O.C.

LEAD TIME QUOTED BEGINS AFTER APPROVED COPY OF THIS DRAWING IS RECEIVED BY AES

APPROVED: \_\_\_\_\_  
 DATE: \_\_\_\_\_

AES ORDER NO:

JOB NAME:

FILENAME: KROGER\_AA03\_BBI.DWG

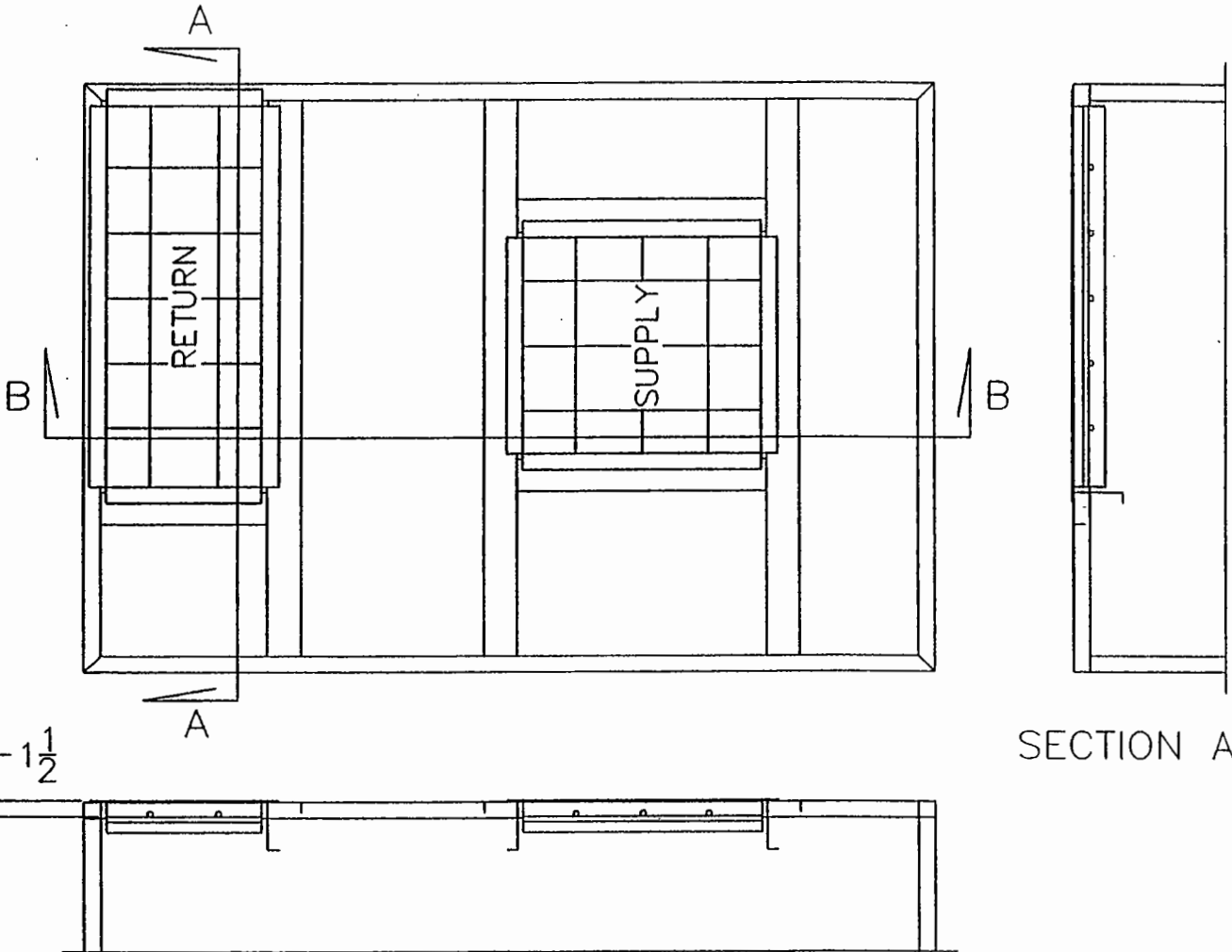
LOCATION:

DRAWN BY: PLED

DATE: 6/6/05



BURGLAR BAR INSERT DETAIL



SECTION B

SECTION A

TYPICAL BURGLAR BAR INSTALLATION

BURGLAR BAR INSERTS ARE UNDERSIZED TO FIT DUCT DROPS.

AES ORDER NO:

JOB NAME: KROGER

FILENAME: KROGER\_AA03\_ARC3\_14H.DWG

LOCATION:

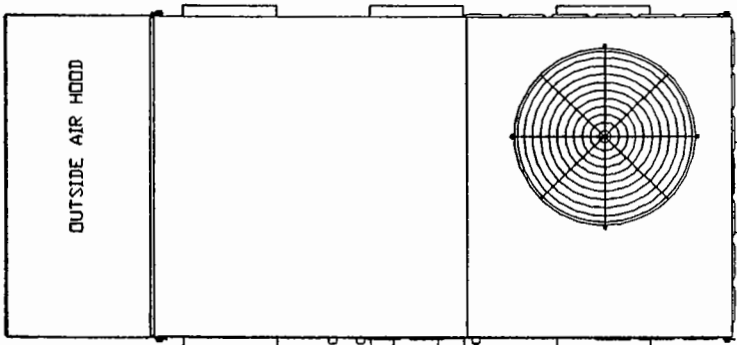
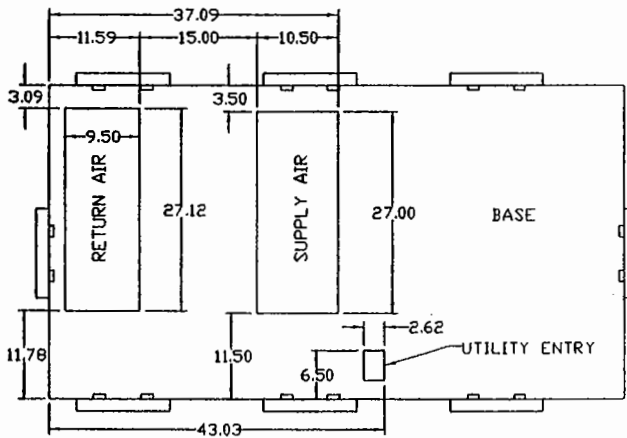
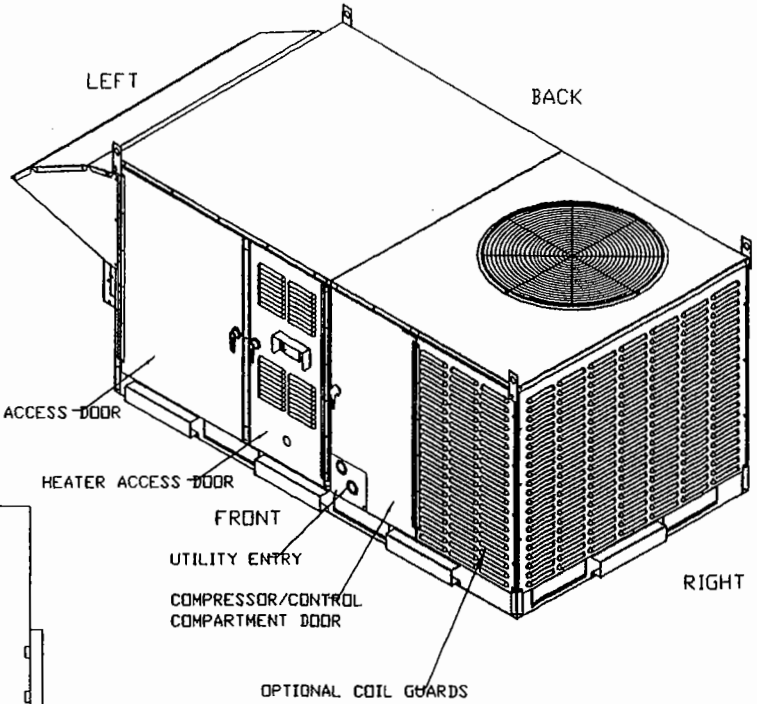
DRAWN BY: JOE

DATE: 6/16/05

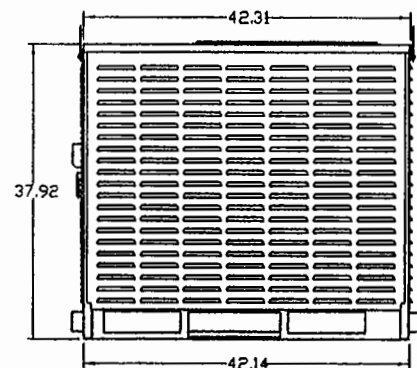
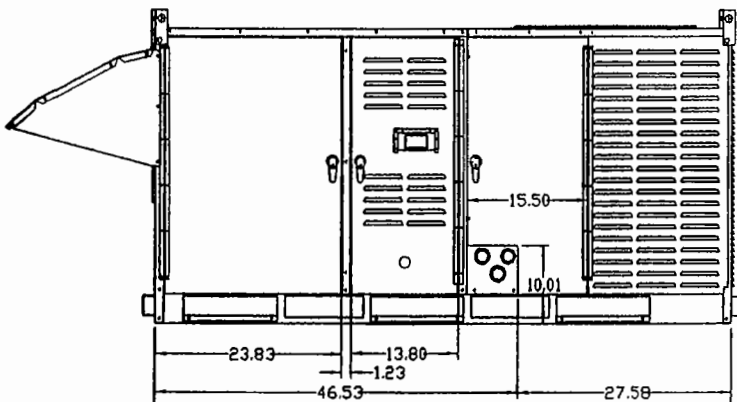
2 - 5 TON VB SERIES  
 VERTICAL S/A & R/A OPENINGS WITH GAS OR ELEC HEAT,  
 OPTIONAL ECONOMIZER, AND OPTIONAL RETURN AIR BYPASS

CLEARANCES

LOCATION	UNIT SIZE
	2 - 5 TON
BACK	10
FRONT	36
LEFT SIDE	20
RIGHT SIDE	20
TOP	UNOBSTRUCTED



NOTE:  
 ALL DIMENSIONS ARE OUTSIDE TO OUTSIDE  
 UNLESS NOTED OTHERWISE.

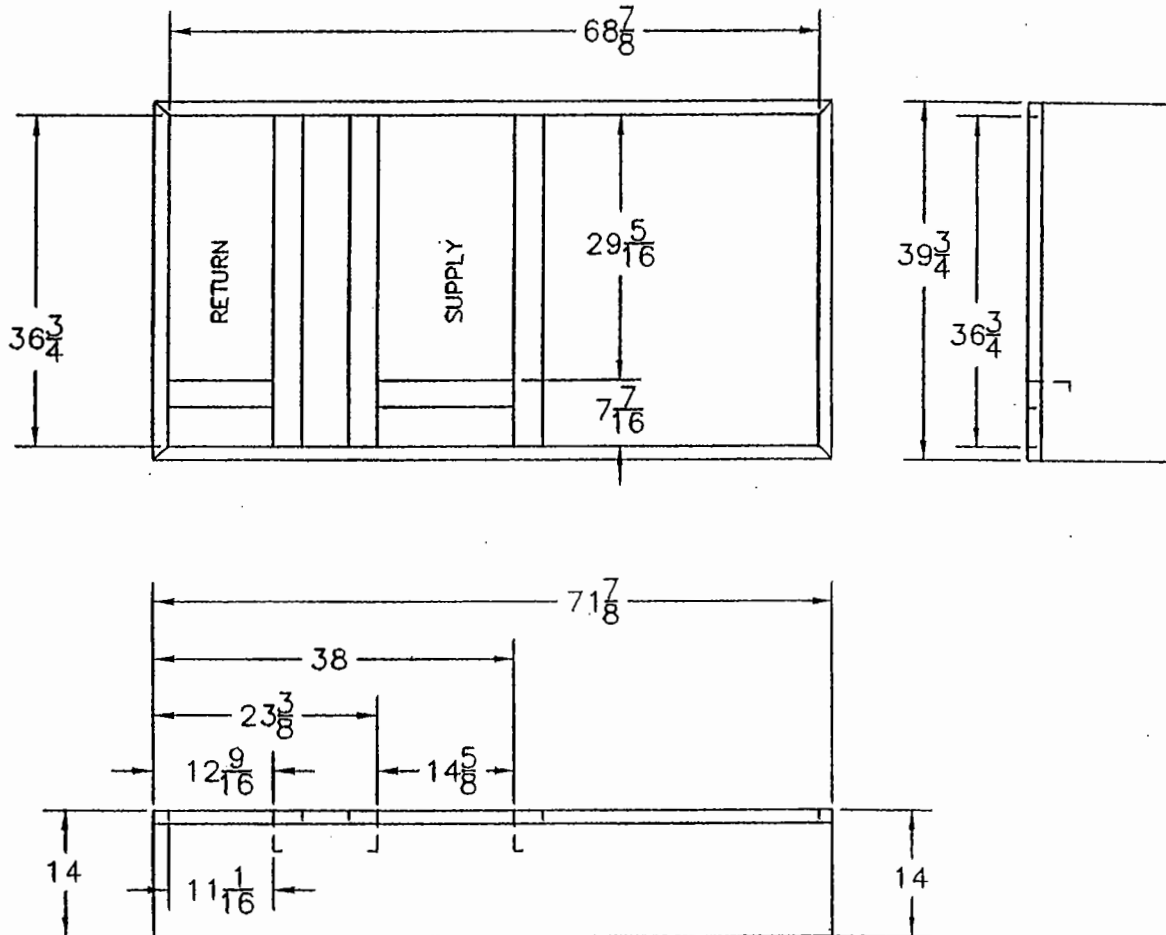




ARC-3 / AAON HB 02-05

Weight: 150lbs/ea.

REVISED O.D.DIMENSIONS 8-16-05



QTY:  
TAG:

FEATURES:

- 18 GA GALVANIZED STEEL CONSTRUCTION
- 18 GA LINERS
- BURGLAR BAR INSERTS
- 1 1/2" THICK 3lb DENSITY FIBERGLASS INSULATION
- FULL HEIGHT MITERED AND WELDED CORNERS
- FACTORY INSTALLED 2X2 P.T. WOOD NAILER
- 14" HEIGHT
- 1x1 ANGLE IN CORNERS

LEAD TIME QUOTED BEGINS AFTER APPROVED COPY OF THIS DRAWING IS RECEIVED BY AES

APPROVED: \_\_\_\_\_  
DATE: \_\_\_\_\_

AES ORDER NO:

JOB NAME: KROGER

FILENAME: KROGER\_AA40\_ARC3\_14H.DWG

LOCATION:

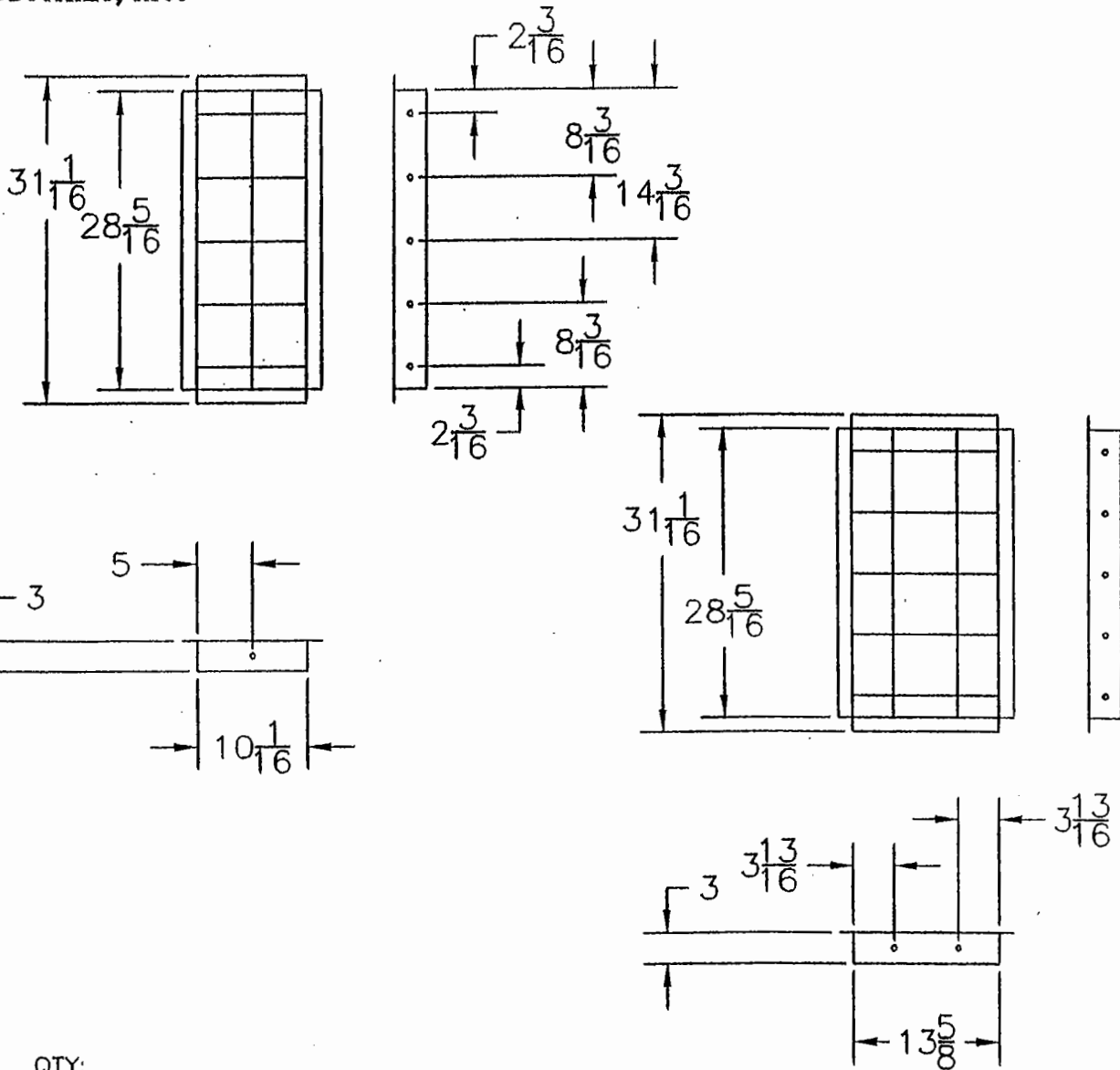
DRAWN BY: JOE

DATE: 6/24/05



BURGLAR BAR INSERTS FOR AAOB HB

REVISED 8-16-05



QTY:  
TAG:

FEATURES:

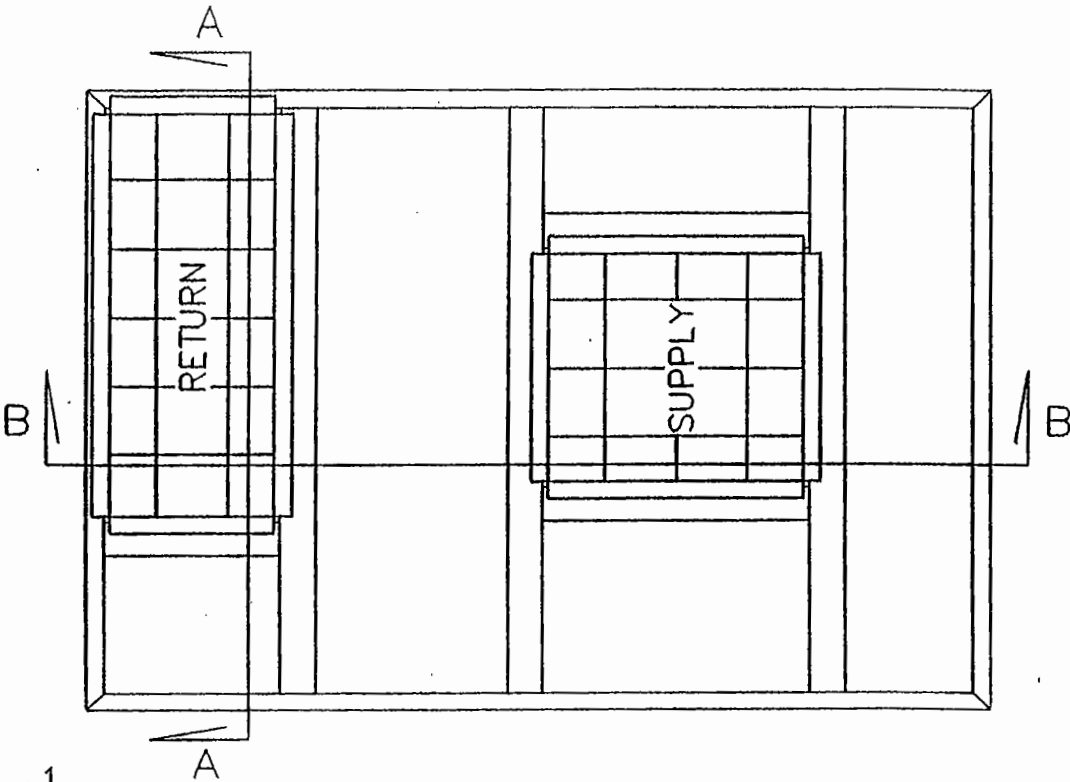
- 18 GAUGE GALVANIZED STEEL FRAME
- FULLY WELDED
- 1/2" O.D. BARS - 6" O.C.

LEAD TIME QUOTED BEGINS AFTER APPROVED COPY OF THIS DRAWING IS RECEIVED BY AES

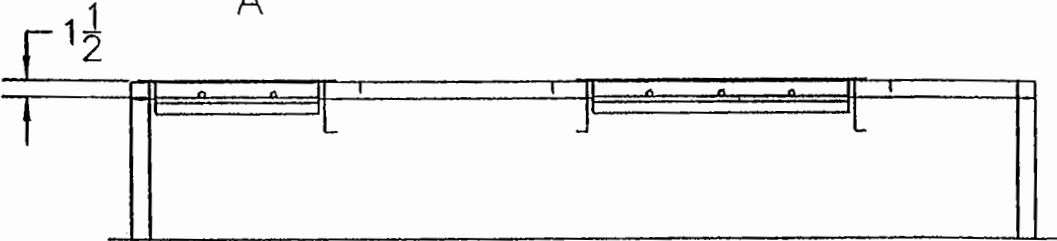
APPROVED: \_\_\_\_\_  
DATE: \_\_\_\_\_

AES ORDER NO:	JOB NAME:
FILENAME: KROGER_AA40_BBI.DWG	LOCATION:
DRAWN BY: PLED	DATE: 6/6/05

BURGLAR BAR INSERT DETAIL



SECTION A



SECTION B

TYPICAL BURGLAR BAR INSTALLATION

BURGLAR BAR INSERTS ARE UNDERSIZED TO FIT DUCT DROPS.

AES ORDER NO:	JOB NAME: KROGER
FILENAME: KROGER_AA03_ARC3_14H.DWG	LOCATION:
DRAWN BY: JOE	DATE: 6/16/05