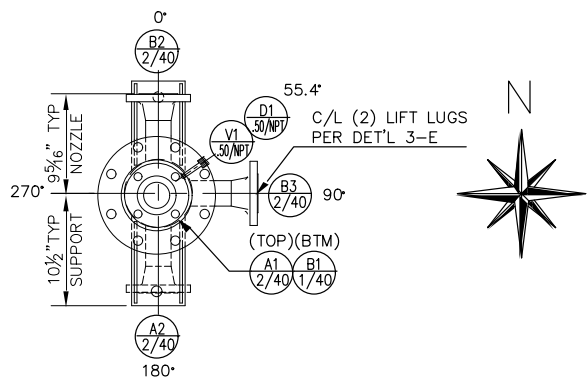


**ELEVATION**

**NOZZLE SCHEDULE**

MARK	NOZZLE SIZE	SCH	THK	WELD HT.	FLANGE PRES	FLANGE TYPE	FLANGE FACE	REPAD WIDE	REPAD THK	DETAIL	SERVICE
A1	2"	40	.154	1/8"	150	WN	RF			3-A	PROCESS INLET
A2	2"	40	.154	1/8"	150	WN	RF			3-A	GLYCOL INLET
B1	1"	40	.133	1/8"	150	WN	RF			3-A	PROCESS OUTLET
B2	2"	40	.154	1/8"	150	WN	RF			3-A	GLYCOL OUTLET
B3	2"	40	.154	1/8"	150	WN	RF			3-A	VENT
D1	.50"					NPT	THRD			2-B	SHELL DRAIN
V1	.50"					NPT	THRD			2-B	SHELL VENT

- NOTES**
- ALL BOLT HOLES SHALL STRADDLE VESSEL MAJOR C/L. UNLESS SPECIFIED OTHERWISE.
  - ALL S/S. WELDS PER AHE-800 & 807.
  - ALL DIMENSIONS ARE FROM GASKET FACES. UNLESS SPECIFIED OTHERWISE.
  - TUBE TO TUBESHEET JOINT TO BE DOUBLE GROOVED, STRENGTH WELDED & EXPANDED WITH 1/16" TUBE PROJECTION. UNLESS SPECIFIED OTHERWISE.
  - ALL REPADS TO HAVE (1) 1/4" WEEP HOLE AT LOWEST POINT. RADIUS ALL CORNERS 1/8" MIN. TEST ALL REPADS WITH AIR AT 15 PSI MIN.
  - ORIENTATION PER PLAN/END VIEW (RESP.) UNLESS SPECIFIED OTHERWISE.
  - PROTECTIVE COVERS TO BE PROVIDED FOR ALL NOZZLE FLANGES PRIOR TO SHIPPING.



**PLAN AT TOP**

**MATERIAL SPECIFICATIONS ASME**

	SHELL SIDE	TUBE SIDE
SHELL	SA312-304L WLD	SA312-316L SMLS
HEADS		SA403-316L
SUPPORTS	SA240-304L	
FLANGES	SA182F-304L	SA182F-316L
PIPE	SA312-304L WLD	SA312-316L SMLS
TUBES	SA213-316L SMLS	
TUBE SHEETS		SA182F-316L
BOLTS/NUTS	SA193B7/2H (HDG)	
GASKETS	GARLOCK 3500	
BODY FLG.		SA182F-316L
BAFFLE / TUBE SUPP	SA240-304L	
FITTINGS		

**DESIGN DATA**

DESCRIPTION	SHELL	TUBE
DESIGN CODE	ASME SEC. VIII, DIV. 1 2004 ED. 2005 AD.	
DESIGN PRESSURE	INTERNAL - PSIG 150	50
	EXTERNAL - PSIG 15	15
	INTERNAL - F 302	302
	EXTERNAL - F 302	302
DESIGN TEMPERATURE		
MAWP	302°F 150/FV	50/FV
CORR. ALLOW.	0"	0"
HYDRO. PRESS. PSIG.	195	65
WELD PROCEDURE	SEE NOTE 2	
RADIOGRAPHY PER CODE	SEE DET'L 3-B	
VESSEL WEIGHT - DRY: 281 lbs.; FULL OF WATER: 385 lbs.		
HEAT TREATMENT	NOT REQUIRED	
INSULATION	2.5" FOAMGLASS	

**FABRICATION DRAWING**

CERTIFIED BY  
ALABAMA HEAT EXCHANGERS, INC.

W  
L-T  
RT-4

SHELL 150/FV PSIG @ 302 °F  
MAWP TUBES 50/FV PSIG @ 302 °F  
SHELL -20°F @ 150/FV PSIG  
MDMT TUBES -20°F @ 50/FV PSIG

MFG. SERIAL NO. AHE-\_\_\_\_  
YEAR BUILT 2006  
ITEM NO. 3061  
PROJECT NO. C0150.10002.01

**REVISIONS**

0. INITIAL ISSUE.  
1. REV & RESUBMIT PER  
CUST DWG DT 4/20/06

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ALABAMA HEAT EXCHANGERS, INC.  
MOBILE, ALABAMA

DEGUSSA CORPORATION  
VACUUM PUMP CONDENSER  
ITEM NO. 3061

CUST. ORDER NO.	JOB NO.	DRAWING NO.
4500163851	6501-F	ES 501 F 06 1
DRAWN BY J.BOYINGTON	DATE 4-6-06	SHT 1 OF 3
APPVD BY	DATE	SCALE 1"=1'-0"