

**CENTRIFUGAL PUMP DATA SHEET**

Company: Process Engineering Associates, LLC	<b>PROCESS</b> ENGINEERING ASSOCIATES, LLC <i>"Excellence in Applied Chemical Engineering"</i>	Data Sheet No.:
Project:		Project No.:
Rev Note:		
Service: Reflux Pump		
Item No: RefluxPump	Ref: 020908-C	PID No: TBD
Date: 4/2/09	Rev: TBD	Area: AREA3

**PROCESS AND PERFORMANCE DATA**

Fluid: Light Hydrocarbons			
Normal Capacity (gpm)	2.3	Design Capacity (gpm):	2.8
% Total Solids:	0.00 % TS Dissolved:	0.00 % TS Suspended:	0.00 Max. Particle Size:
Specific Gravity:	0.70	Viscosity (cP):	0.63
Temperature (°F):	99.5	Vapor Pressure (psig):	30.3
<b>HEAD</b>	<b>SUCTION</b>	<b>DISCHARGE</b>	<b>DIFFERENTIAL</b>
Static (ft of Liquid)			0.00
Pressure (ft of Liquid.)			0.00
Friction (ft of Liquid.)			0.00
Total (ft of Liquid.)	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
Normal Suction Press (psig):	<b>0.00</b>	Normal Discharge Press (psig):	<b>0.00</b>
NASH Available (ft of Liquid.)	<b>-51.9</b>	Pump Design Head (ft of Liquid.)	<b>0 Ft.</b>

**MECHANICAL DETAILS**

Included: <input checked="" type="checkbox"/> Seal <input checked="" type="checkbox"/> Motor <input checked="" type="checkbox"/> Baseplate <input type="checkbox"/> Coupling							
Type: <input type="checkbox"/> End Suction <input type="checkbox"/> In Line <input type="checkbox"/> Recessed Impeller <input type="checkbox"/> Self Priming <input type="checkbox"/> Disc <input type="checkbox"/> Canned Motor <input type="checkbox"/> Mag Drive <input checked="" type="checkbox"/> Multistage							
Standard: <input checked="" type="checkbox"/> ANSI <input type="checkbox"/> API <input type="checkbox"/> Other Impeller: <input type="checkbox"/> Open <input checked="" type="checkbox"/> Semi Open <input type="checkbox"/> Closed							
Jacket: <input type="checkbox"/> Full Casing <input type="checkbox"/> Partial Casing <input type="checkbox"/> Rear Cover/Seal Chamber <input type="checkbox"/> None							
Jacket Fluid: _____ @ _____ psig _____ °F							
Nozzles	Size	Rating	Face	Casing Taps	Size	Rating	Facing
Suction:				Vent:			
Discharge:				Drain:			
Casing Support: <input type="checkbox"/> Foot Mounted <input type="checkbox"/> Centerline Mounted							
Baseplate: <input type="checkbox"/> Grouted <input type="checkbox"/> Stilt Mounted <input type="checkbox"/> Drip Lip							
Lubrication: <input type="checkbox"/> Oil Reservoir <input type="checkbox"/> Oil Mist <input type="checkbox"/> Grease							
Oil Seal: <input type="checkbox"/> Labyrinth <input type="checkbox"/> Lip <input type="checkbox"/> Magnetic							
Coupling: <input type="checkbox"/> Elastomeric <input type="checkbox"/> Disc <input type="checkbox"/> Taper lock bore <input type="checkbox"/> Straight bore							
Coupling Guard: OSHA APPROVED <input type="checkbox"/> Carbon Steel <input type="checkbox"/> Stainless Steel <input type="checkbox"/> Other							
Mechanical Seal	<input type="checkbox"/> Single	<input type="checkbox"/> Pusher	<input type="checkbox"/> Cartridge Mount	Rotating Ring:			
	<input type="checkbox"/> Double	<input type="checkbox"/> Metal Bellows	<input type="checkbox"/> Component Mount	Stationary Ring:			
	<input type="checkbox"/> Tandem	<input type="checkbox"/> Rubber Bellows	Seal Hardware	Seals/O-ring:			
MFG type, mat'l code							
Seal Flush	Flush Plan No.	<input type="checkbox"/> ANSI	<input type="checkbox"/> API				
	Flush Fluid	@	psig	°F			
Double Seal with Barrier Fluid:							
Seal Chamber	<input type="checkbox"/> Enlarged Cylindrical	<input type="checkbox"/> Enlarged Tapered	<input type="checkbox"/> Stuffing Box				
Pump --- Total BHP Required:				Efficiency:			
Motor ---- Type:				HP:		RPM:	
Electricity --- Voltage:		460	Hertz:		60	Phase: 3	
Electrical Area --- Class:		I	Group:		D	Div: II	

**MATERIALS OF CONSTRUCTION**

Casing	316 SS or Better	Containment Shell
Impeller	316 SS or Better	Inner Sleeve Bearing
Shaft		Outer Sleeve Bearing
Shaft Sleeve		Inner Magnet
Baseplate		Outer Magnet
Gaskets	Vendor to Determine	Jacket

Remarks: Selected 1700 RPM due to low NPSHa

Roughly equivalent to Goulds 3196