

CONFIDENTIAL

SEPARATION DESIGN QUESTIONNAIRE

Sanitary:

Cleaning:

Pumps:

Bevel Seat

Block valves

Manual

Tri-clamp

In-line Spares Clean-in-place system

Other

Please supply as much information as possible.			ir reference:		
Thermal Kinetics will supply typical values based		ermal Kinetics quotation			
on experience when missing data is encountered.	Prie	ce Basis: Order of Ma	agnitude	Budget	Firm
Inquiry Date:		Approximate installation date:			
Company					
Address					
Telephone		Contact			
Fax		Position			
E-mail		Department			
Test facilities are available for determining physical prop	perties	of process fluids and if nee	eded pilot test	ing can be arra	anged.
PROCESS LIQUIDS FOR DISTILLATION, ABSORPTIO	N, OR	OTHER MASS TRANSFE	R OPERATIO	N	
Feed Composition:					
Scaling Tendency? If so, what type?					
Foaming Tendency?					
Is solution corrosive? Describe:					
Is this a new or retrofit project? Add descript	tion:				
Preferred materials of construction (CS, 316L, etc.):					
SPECIAL PHYSICAL PROPERTIES		Feed	Bot	toms Product	
Total Non-volatile solids content		i eeu	%		9
Specific Gravity			70		,
Viscosity		cps at	°F c	ps at	0
Specific Heat in Btu/lb °F				,p5 ut	
Thermal Conductivity (Btu/hr ft °F)					
Are quart samples available?					
COMPOSITION OF PRODUCTS		Overhead Product	Bot	toms Product	
Component and purity: Separation #1		o formoud i roddot	%		9
Component and purity: Separation #2			%		9
Component and purity: Separation #3			%		9
Component and purity: Separation #4			%		9
PROCESS DUTY, RATES, CONDITIONS					-
	lh/hr	Feed temperature			0
		Turn-down required:		% design c	
Are products to be cooled? Temp:		Maximum processing temp		,,, accigit c	°
UTILITIES		······································			
Steam pressure available:	nsia	Accounted cost per 1000) nounds:		
Cooling water available: @		Source:	Pressur	e.	
Is cooling tower required?		Max. wet bulb temp.	• 1103501	0.	°F
• Electricity: 3ϕ / V/ Hz or 1ϕ / V/	Hz	Average cost/kWh:			
PUMPING DELIVERY HEADS	112				
Product pumps:	ft	Cooling water return pump:			ft
Steam condensate pump:		Process condensate pump(s):		ft
INSTRUMENTATION AND CONTROLS			0).		
Local control panel required?		Preferred model controllers	3:		
PLC to be used?		Preferred model PLC:			
Tie into existing DCS or PLC?					
		Comments?			
		Comments?			
SITE					
		Altitude above sea level: Space available:		(send sketch	1)

Industrial:

Comments:

Control Valves:

150# ANSI Flg

NPT

Block and bypass valves

Other_