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Liquid-Liquid Extraction Specification Data Sheet

Name:		Date:	
Title:		Phone:	
Company:		Fax:	
Address:			
City, State, Zip:			
Country:		Email:	
Your Reference No.:		End User, Location:	

Quotation

Date Quotation Required:
Date Equipment Required:

☐ Firm Price ☐ Budget Price

The following will assist in the design of an economical liquid-liquid extractor solution to your application. Please provide all known information in the spaces provided and/or attach any supporting documentation. Please email or fax to us for prompt response.

Stream Properties

Stream #		1	2	3	4
Fluid Name					
Throughput	GPM				
Viscosity	cP				
Density	lb/ft^3				
Pressure	psia				
Temperature	^oF				

		Top	Bottom
Interfacial surface tension	dyne/cm		

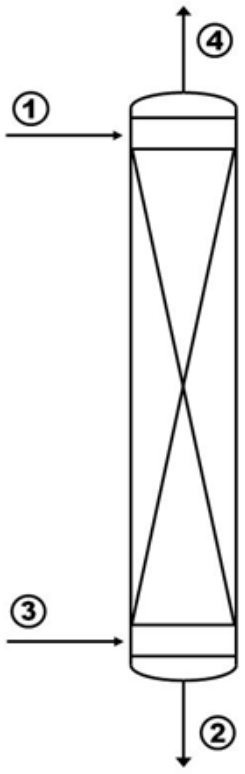
Dispersed phase ☐ Light ☐ Heavy

Solute to be removed

Solute concentration (mass %) in stream	1	2	3	4

Nozzles

		1	2	3	4
Nozzle size	in.				



Liquid-Liquid Extraction Specification Sheet continues on next page

Other process conditions (if known)

Do you have previous experience with this application? ☐ Yes ☐ No

If yes, please attach any pertinent information or provide details below.

Is a particular type extractor preferred? ☐ Tray ☐ Packed ☐ Other

Agitated, KARR™ column, etc.[2]

Fouling Tendency ☐ High ☐ Low ☐ None

Are there any suspended solids present in feeds ☐ Yes ☐ No

If yes, concentration (mass %) _____ Approximate size (micron) _____

Mechanical data

Are there any space limitations? ☐ Yes ☐ No

Diameter limit (ft) _____

Height limit (ft) _____

What are the allowable/ preferred materials of construction?

Internals/Trays _____

Packing _____

Column I.D. (existing column)[1]	ft	
Column manway I.D.	in.	
Welding to shell permitted?		☐ Yes ☐ No
Vessel body flanges?		☐ Yes ☐ No
Corrosion allowance for internals	in.	
Design temperature	°F	

Special uplift requirements

☐ Internals only

☐ Complete extraction column (shell and internals)[2]

☐ Modular extraction system including column installed in a strucutral frame with all of the required tanks, heat exchangers, pumps, piping and instrumentation.[2]

(1) If vessel is existing, please provide a copy of the vessel drawing.

(2) For a scope of supply beyond internals, we will refer the inquiry to Koch Modular Process Systems.

Comments:

Please provide any additional information that will help with your design and describe any documents you will send. Include relevant drawings of existing equipment so that we may design a compatible solution.