

Liquid-Liquid Extraction Specification Sheet (U.S. Units)

Contact Information

Name _____
 Title _____
 Company _____
 Address _____
 City, State, Zip _____
 Country _____
 Email _____
 Phone _____
 Your Reference No. _____

New or Existing Tower?¹ New Existing
 Unit _____

End User Contact Information

End User Company _____
 Address _____
 City, State, Zip _____
 Country _____

Inquiry Date _____
 Date Quotation Required _____
 Date Equipment Required _____

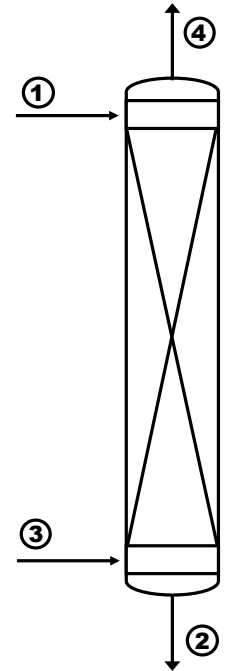
Firm Price Budget Price

Column No. _____
 Column Name _____
 Existing Column I.D.¹ (ft-in) _____
 Manhole / Column Access I.D. (in) _____

Welding Permitted? Weld To Tower Shell Weld To Tower Attachments No Welding Permitted

Stream Properties

Stream #	1	2	3	4
Fluid Name	_____	_____	_____	_____
Throughput (GPM)	_____	_____	_____	_____
Viscosity (cP)	_____	_____	_____	_____
Density (lb/ft ³)	_____	_____	_____	_____
Pressure (psia)	_____	_____	_____	_____
Temperature (°F)	_____	_____	_____	_____



	Top	Bottom
Interfacial Surface Tension (dyne/cm)	_____	_____
Dispersed Phase	Light	Heavy
Solute to be removed	_____	

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

Nozzles

Nozzle Size (in.) _____

Other Process Conditions (if Known)

Do you have experience with this application? Yes No

If yes, please attach any pertinent information or provide details in the Comments section.

Is a particular type of 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	Corrosion allowance for internals (in)	_____
Diameter limit (ft)	_____		Design Temperature (°F)	_____
Height (ft)	_____		Vessel Body Flanges?	Yes No

What are the allowable/preferred materials of construction?

Internals/Trays _____ Packing _____

Special uplift requirements:

Internals Only

Complete extraction column (shell and internals)²

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

¹ If vessel is existing, please provide vessel elevation, orientation drawing, and drawings of existing tower attachments (or Koch-Glitsch drawing number if applicable).

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

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. Use more than one sheet if necessary.

Comments/Sketch