

Tray Design Tower Specification Sheet (Metric Units)

Contact Information

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

End User Contact Information

End User Company _____
 Address _____
 City, State, Zip _____
 Country _____
 Inquiry Date _____
 Date Quotation Required _____
 Date Equipment Required _____
 Firm Price Budget Price

New or Existing Tower?¹ New Existing
 Unit _____

Column No. _____
 Column Name _____
 Tower Manhole / Column Access I.D. (mm) _____

Welding Permitted?	Weld to Tower Shell	Weld to Tower Attachments	No Welding Permitted
Applicable Tray Type:	Movable	Fixed Valve	Other (specify) _____

Tray Numbers

Total Tray Quantity in Section _____
 Tower Inside Diameter[†] (mm) _____
 Tray Spacing[†] (mm) _____
 Number of Liquid Passes[†] _____
 Max. Pressure Drop/Tray (mbar) _____
 Operating Pressure (bar abs) _____

Internal Conditions: Vapor to Tray

Flow Rate (kg/h)[§] _____
 Density (kg/m³)[§] _____
 Viscosity (cP) _____
 Temperature (°C) _____

Internal Conditions: Liquid from Tray

Flow Rate (kg/h)[§] _____
 Density (kg/m³)[§] _____
 Surface Tension (dyne/cm) _____
 Viscosity (cP) _____

Foaming Tendency/System Factor

Clean/Potential Fouling

Operating Range % (V/L)

Mechanical Data: Material

Tray Deck[‡] _____
 Cap or valve[‡] _____
 Hardware[‡] _____
 Deck Thickness[†] (gauge) _____
 Support Ring Width & Thickness (mm) _____
 Design Temperature (°F) _____

Corrosion Allowance

Trays (mm) _____
 Tower Attachments (mm) _____

Stream I.D.	Description	Above/ Below Tray	Phase [#]	Liquid Fraction (mass)	Pressure (bar abs)	Temp. (°C)	Flow Rate (kg/h)	Density [#] (kg/m ³)	Viscosity (cP)	Surface Tension (dyne/cm)

¹ If existing please provide vessel elevation, orientation drawing, and drawings of existing tower attachments (or Koch-Glitsch drawing number if applicable).
[†] May be specified or left to the judgment of Koch-Glitsch.
[‡] Material of construction to be specified by client.
[#] If mixed phase, specify physical properties of both phases.
[§] Internal vapor and liquid loadings at the limiting sections are required to ensure proper equipment design. Simulation tray-to-tray hydraulic output may be submitted in lieu of this form. Densities and mass flow rate are required at actual tower conditions of temperature and pressure.

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