

Tray Design Tower Specification Sheet

Name:	Date:		
Title:	Date Quotation Required:		
Company:	Phone:		
Address:	Fax:		
City, State, Zip:	Email:		
Country:	End User, Location:		
Column Tag No.:	New or Existing Tower*:		
Column Name:	Unit:		
Applicable tray type:	Movable valve	Fixed valve	Other tray

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)
 Temperature (°C)

Foaming Tendency/System Factor

Clean/Potential Fouling

Operating Range % (V/L)

Mechanical data: Tray Deck[†]

Material Cap or valve[†]
 Hardware[†]

Deck Thickness[†] (gauge)

Support Ring Width & Thickness (mm)

Corrosion Trays (mm)

Allowance: Tower Attachments

Tower Manhole I.D. (mm)

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

* 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.

Remarks: Use more than one sheet if necessary.

Comments/Sketch