Medicinal Tablet Production Application

Application: Pharmaceutical Industries / Medicinal Tablet Production

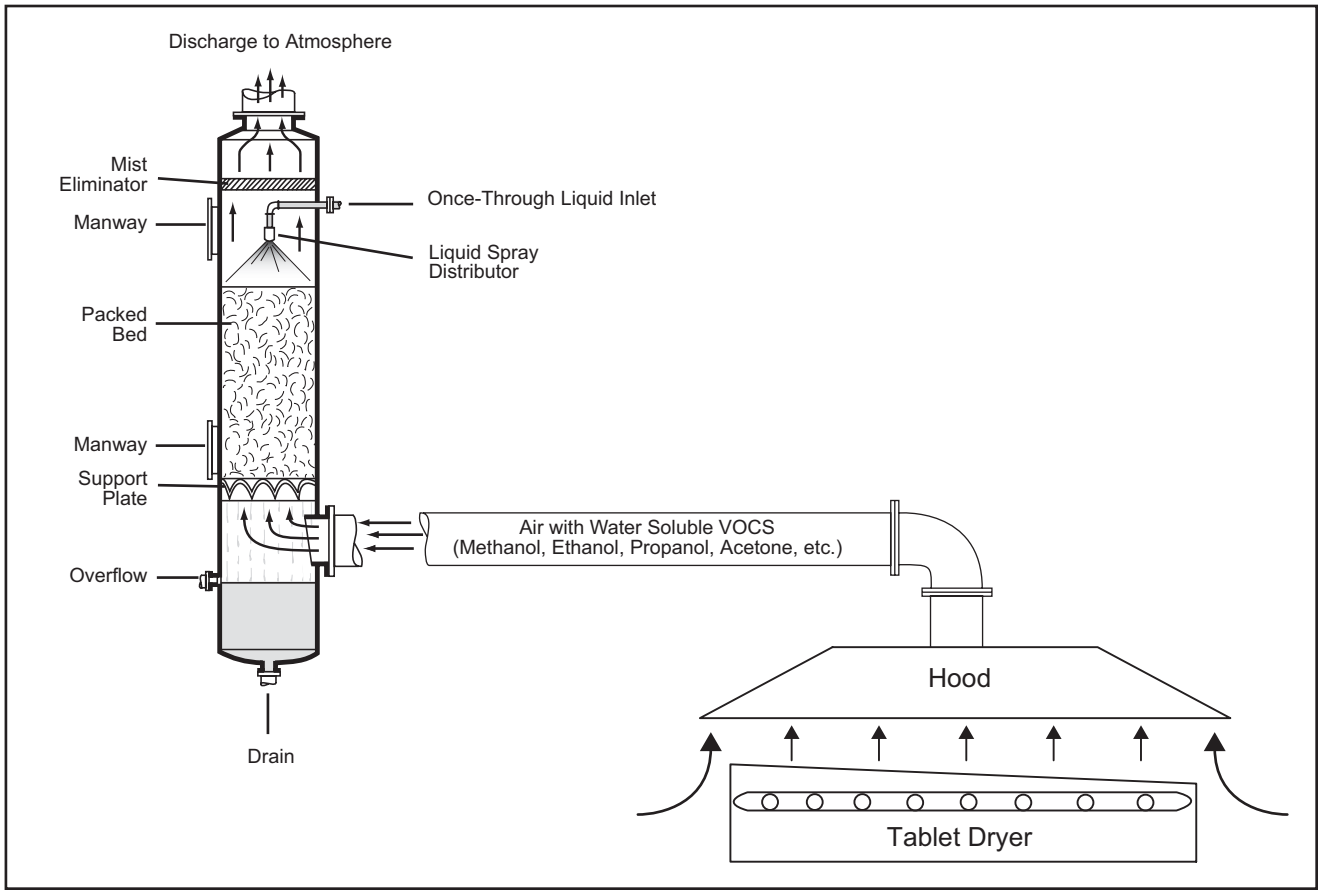
S&K Product: Counter Current Packed Tower Fig. 7055

Description: Processes for making tablets as well as other drug manufacturing processes generate water soluble VOCs. Due to the chemical properties of these VOCs, although completely water soluble, 'once-through' water is supplied to effectively absorb them.

In the illustration, scrubbing liquid enters the tower through a nozzle and is sprayed uniformly across the top of a packed bed so that it trickles evenly through the packing material from top to bottom without channeling. Gas enters the tower through the inlet near the bottom and passes through the support plate into the packed bed, counter current to the flow of the scrubbing liquid, contaminants are removed. The packed bed is designed to provide maximum gas-to-liquid contact at low pressure drop. The packing is carefully selected to provide continuous regeneration of the liquid surface as liquid flows over it while, at the same time, dispersing the upward gas flow evenly throughout the bed. After passing through the packed bed, the cleaned gas passes through a mist eliminator section near the top of the tower. Here, any entrained liquid is removed before the clean air is discharged through the outlet.

Performance Data: 50 – 1000 ACFM gas rates, 95 – 99% Removal Efficiency

Industries Used: Pharmaceutical and Specialty Chemical Industries



Schutte & Koerting • 2510 Metropolitan Drive • Trevose, PA 19053 • USA • tel: (215) 639-0900 • fax: (215) 639-1597 • www.s-k.com • sales@s-k.com