

# Model 622 Trough Style Liquid Collector for Fouling Services

- ▶ Diameters greater than 3 ft [900 mm]
- ▶ Used for fouling services, preferably in combination with FLEXIGRID® Structured Packing

The Model 622 trough collector is specially designed for liquid collection below a packed bed in applications where liquid hold-up must be minimized to avoid coking or fouling. It is the preferred design for the overflash collector tray in Deepcut Crude Vacuum Towers.

The decks, hats and/or sumps are sloped to minimize the liquid residence time. A uniform riser pattern is utilized to provide good vapor distribution to the packing. The open area of the riser is carefully optimized to provide the lowest possible pressure drop while still maintaining proper vapor distribution.

This collector is often equipped with an emergency overflow pipe to avoid excessive liquid residence time and/or spill-over down the vapor chimneys in the event that the side draw is temporarily lost.

## Construction Details

At high operating temperatures, the thermal expansion of the metal is too great to permit these collectors to be fully seal-welded without risk of cracking or damage to the welds during operation. For these applications, Koch-Glitsch offers a number of special mechanical enhancements to allow the necessary thermal expansion without excessive leakage.

## Design Options

- Sump configurations
- Emergency overflow downpipe
- De-entrainment hats
- Thermal expansion design
- High temperature resistant design