

KDT-6TL SHORT PATH DISTILLATION SYSTEM

Chemtech Services, Inc., has historically designed Laboratory Scale Distillation Systems based upon a KDT-6 316 Stainless Steel Evaporator for which CTS was able to incorporate a wide variety optional components to enhance the distillation process. The KDT-6TL system specially designed to incorporate most of the high value options which would enable customers the distill product continuously or conduct more detailed R&D distillations where multiple samples could be obtained without breaking vacuum.

KDT-6TL FEATURES:

Evaporator:	KDT-6 (316 Stainless Steel) 0.060 m ² boiling surface area 0.060 m ² condensing surface area
Feed Tank:	2 Liter jacketed feed vessel with precision metering pump.
Support Plate:	316SS with internal heating jacket
Wiper System:	PTFE wiper rollers
Receivers:	6-Station Carousel with 200 ml collection tubes
Cold Trap:	Closed System style cold trap utilizing a dedicated chiller capable of -40°C.
Vacuum :	316SS manifold w/bleed valve Pirani style vacuum digital sensor 5.8 m ³ /h (3.4 cfm) dual stage rotary vane pump w/gas ballast valve 50 L/s air cooled oil diffusion pump
Circulators:	3 kW, 300°C Evaporator body 2 kW, 250°C Feed Tank 500 Watt (cooling @ 20°C) Condenser
Support Stand:	Full 304SS Frame with castors



The KDT-6TL System can be easily upgraded to accommodate the following options:

- ⇒ Upgrade to a larger 3 liter Feed Vessel
- ⇒ Upgrade Vacuum System to higher pumping speed
- ⇒ Upgrade Receivers to 316SS vacuum rated metering pumps for direct discharge to shipping containers
- ⇒ Upgrade Electrical Control which already include fully distributed power with on/off control switches for pumps and circulators, to a system which includes a PLC for data logging and/or control functions.

The KDT-6TL System was incorporated into the product line to provide a full function distillation system which required minimal monitoring in a continuous operating environment. The KDT-6TL System utilizes a stainless steel support frame equipped with castors which allow it to be easily moved to different laboratory locations. The typical frame size is: 72"W x 27"D x 75"H.



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