

DESCRIPTION






fracTRON is a three-stage fractional solvent distillation system designed for rapid and complete removal of volatiles from liquids. It supports throughput capacity of 40 gallons per hour in a continuous process flow.

The fracTRON can support three independent fractional separations with independent mass flow and temperature control. An inert carrier gas is incorporated to accelerate throughput while eliminating flammability concerns.

Programmable methods enable automated GMP process control with reporting, and GMP certified stainless-steel materials support global market requirements.



FEATURES

-  **40 gal/hr capacity**
-  **3-stage fractional separation**
-  **Inert carrier gas**
-  **C1D2 Compliant**
-  **UL 698A Listed**

EXTENDED

PROCESSING POWER

- 40 gallons/hour solvent removal
- Continuous process flow reduces labor
- Complete solvent removal eliminates secondary processing
- Inert carrier gas for safe operation
- 3 independent fractional separations
- Shorter run times, reduced downtime

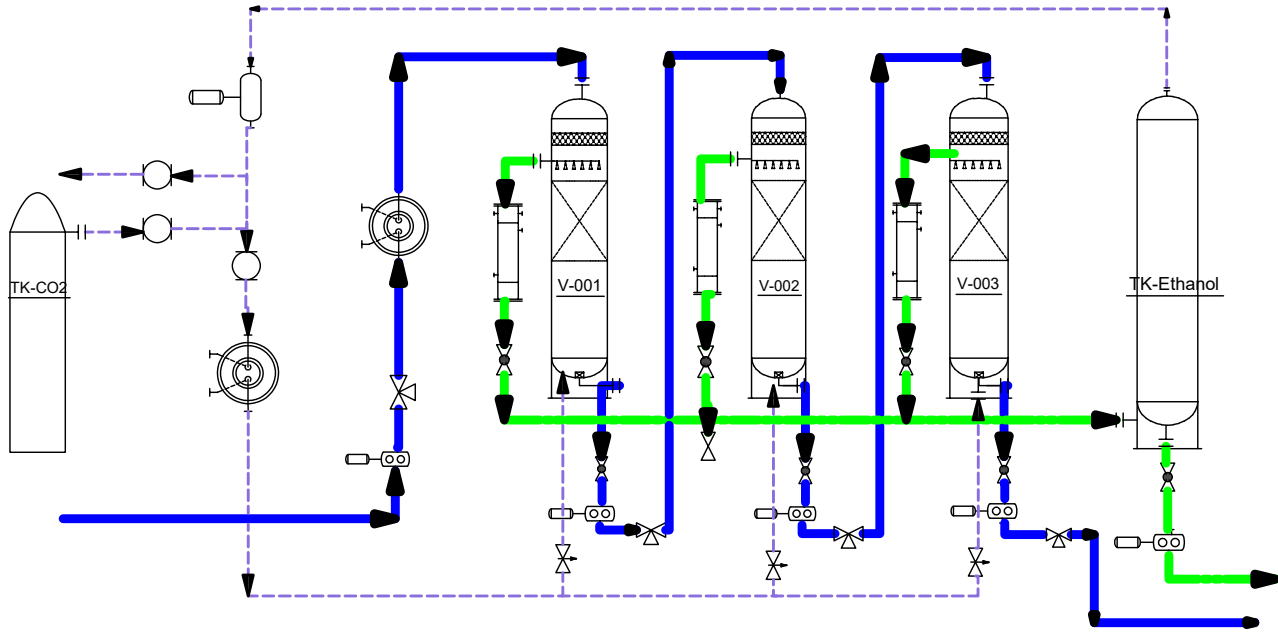
PROCESS CONTROL

- 3 stills independently controlled
- Containment between stages
- Programmable methods with user authentication
- Out-of-operating-spec alarms
- Mass flow tracking of yields
- Data visualization and alarms
- WIFI enabled monitoring and control

GMP COMPLIANCE

- Lot, calibration and maintenance tracking
- Barcode-enabled paper and electronic traceability
- C1D2 compliant
- VOC detector and alarms
- Z-purged electronics for NFPA compliance
- GMP compliant materials
- Easy clean-in-place capabilities
- 21 CFR Part 11 software

Process Flow



SPECIFICATIONS

ATTRIBUTE	VALUE	ATTRIBUTE	VALUE	ATTRIBUTE	VALUE
General Specifications		Installation and Training		Condensers (continued)	
Dimensions	L92" x W39" x H88"	Included training & install	2 days	Cooling Capacity	54 kW at 30° C
Footprint	25 sq ft	Warranty		Chiller Fluid	35/65 glycol/water
Shipping Weight	1500 lbs	Quality and Labor	Parts & workmanship	Collection Vessels	
Sound Pressure	<60 db	Duration	3 years	Collection Vessel Volume	22 L
Electrical Specifications		Evaporators		Operating Pressure	10 psia
Voltage	208-240 volt	Heater Footprint (external)	L41" x W45" x H51"	Ethanol Collectors	1
Frequency	60 Hz	Vessels	3	Materials	
FLA	80 amps	Evaporator Vessel Volume	16 L /ea	Metals	SS 316
Phase	3	Operating Pressure	10 psia	Polymers	PTFE
Certifications	UL 698A Listed	Heating Range	38 – 260° C		
E-stop; Thermal Switches	Standard	Heating Capacity	6-18 kW/zone		
Fluidics		Heating Zones of Control	3		
Number of Pumps	6	Heater Reservoir	58 gallons		
Valves	7	Heater Fluid	Delf 600		
Control Interface		Condensers			
Control Interface	HMI panel	Chiller Footprint (external)	L48" x W28" x H39"		
Network Connectivity	Cat5e	Number of Condensers	3		
Process Integration	igwLAB compatible	Condenser Exchange Area	21.6 ft ²		
Data Logging	On screen	Cooling Range	-15 - -1° C		



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