







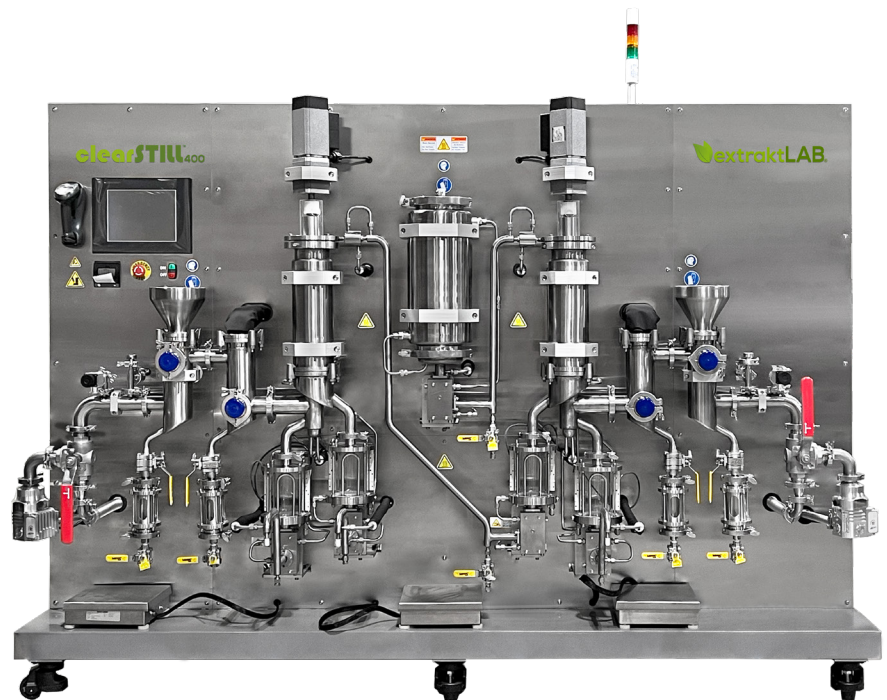
## DESCRIPTION

clearSTILL is a two-stage wiped film distillation machine that performs two independent distillation passes in a single contained cycle. The result is golden clear distillate with high potency for use in any product category. It supports throughput capacity of 4-6L per hour while doubling throughput and labor efficiency over single-pass machines. clearSTILL provides the best solution for opening the production bottleneck created by conventional wiped film distillation machines while lowering labor costs.

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

## FEATURES

-  **Continuous 2-Stage Distillation**
-  **4-6 L/hour Capacity**
-  **Reduced Labor and Cleaning Downtime**
-  **GMP Documentation & Commissioning Available**
-  **Automated**
-  **Continuously Feed From fracTron-1000**



## EXTENDED

### PROCESSING POWER

- Dual stills with continuous process flow
- 2-stage distillation @ 4-6L/hr
- Double the volume of single-stage systems
- Half the labor of single-stage systems
- Oil-free pumps eliminate oil changes & oil contamination of the product.
- Integrated cold-finger cleaner

### PROCESS CONTROL

- Containment between stages eliminates contamination risk
- Programmable methods with user authentication
- Automated hardware control
- Mass flow tracking of yields
- Data visualization and alarms
- WIFI enabled monitoring and control
- Ultrasonic, laser, mass, and vacuum sensors enable superior process control capability

### GMP COMPLIANCE

- Lot, calibration and maintenance tracking
- Barcode-enabled paper and electronic trail
- Continuous containment between stages
- Certified wetted materials
- Easy clean-in-place capabilities
- 21 CFR Part 11 compliant software

# SPECIFICATIONS

ATTRIBUTE	VALUE
<b>General Specifications</b>	
Dimensions (in)	L103 x W44 x H72
Unit Weight (lbs)	2155
Sound Pressure (db)	<60
<b>Electrical Specifications</b>	
Certifications, Listed	UL 508A
E-stop; Thermal Switches	Standard
Frequency (Hz)	50/60
Full Load Amps (amps)	80
Phase	3
Voltage (VAC)	208-230/380
<b>Fluidics Specifications</b>	
Condensate Pumps	2
Feed Pumps	1
Residual Pumps	2
Feed Rate (L/hr)	up to 3
<b>Control Interface Specifications</b>	
Control Input	Manual

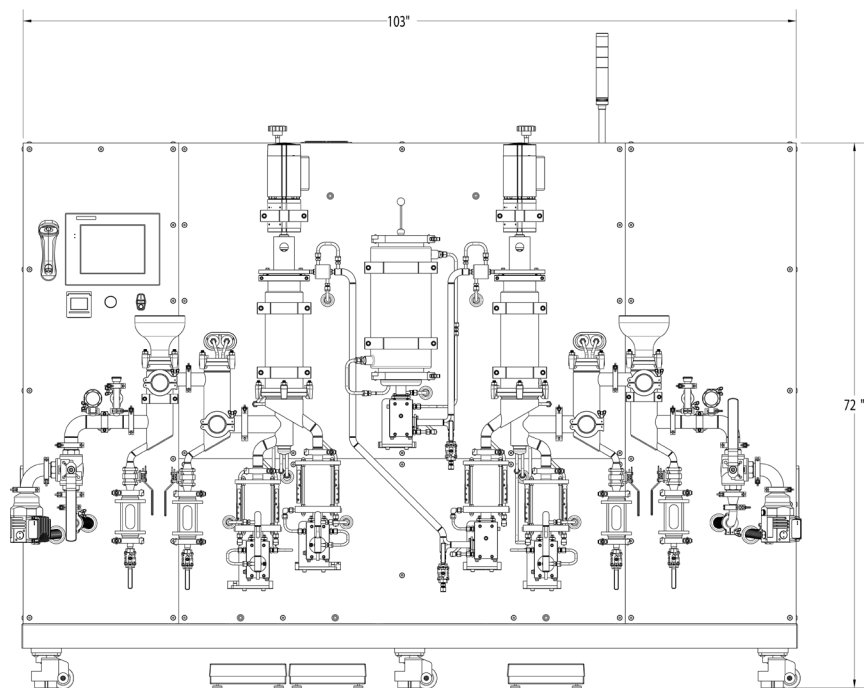
ATTRIBUTE	VALUE
<b>Evaporator Specifications</b>	
Diameter (in)	6
Distillation Vessels	2
Heating Jacket	All tubes, pumps
Heating Range (°C)	28 - 300
Power (kW)	9
<b>Vacuum System Specifications</b>	
Roughing Vacuum Pumps	2
Short Path Pressure (torr)	0.001
Turbo Vacuum Pumps	2
Type	Oil-Free
Wiped Film Pressure (torr)	0.1
<b>Condenser Specifications</b>	
Chiller Fluid	Silicon Oil
Cold Finger, Inline	Yes

ATTRIBUTE	VALUE
<b>Condenser Specifications (continued)</b>	
Distillation Condensers	2
Cold Trap Condensers	4
<b>Feed Vessel</b>	
Vessel Volume (L)	7
<b>Materials</b>	
Metals	316SS, 304SS
Speciality Polymers	Viton, PTFE, EPDM
<b>Performance Specifications*</b>	
Cooling Range (°C)	-40 < X < -1
*Actual Performance Results May Vary	
<b>Warranty</b>	
Duration (months)	12
Quality and Labor	Parts & workmanship

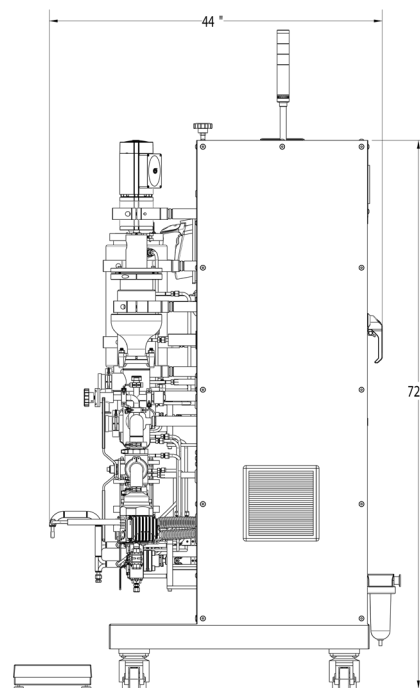
**SOLD SEPARATELY:**  
**GMP Documentation Package**  
**Maintenance Package (12 months)**

# LINE DRAWINGS

FRONT VIEW



SIDE VIEW



To Order:  
clearSTILL-400 #10-0081 (208-230V), #10-0081 | (380V), #10-0143



651-600-0036 | EXTRAKTLAB.COM  
500 SIMMON DR. OSCEOLA, WI 54020

