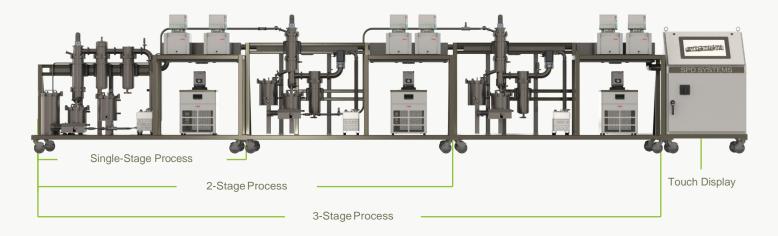




The SPD-8.0 was named for its throughput rate of 8.0L per hour. This unit is available in one, two or three stages with manual or automated operation capabilities. This unit is ideal for high throughput distillation for commercial production or for pilot testing of processes before scaling to larger capacity.



Setter Satching vs. Continuous Processing

Molecular separation can be achieved by many different distillation methods, each with varying operating costs. An optimized multi-stage distillation system utilizes the most efficient distillation configuration/method at each point in the refinement process.



Single Stage (Batching)

- Lower initial cost
- Lower consistency
- Increased run-time (multiple-passes required)
- Increased labor and operating costs
 - Batch collection / handling / transfer
 - Breaking vacuum and cleaning



Multi Stage (Continuous)

- Higher initial cost
- Quicker ROI
- Consistent results
- Faster run-time (single pass)
- Less operating cost / operator error
 - Hands free "recipe" programming
 - Easy operation / intuitive SOP
 - Remote support available

SPD-8.0



Configurations

3Stage



2 Stage

Single Stage



Rolled-Film + Short-Path + Short-Path

Rolled-Film + Short-Path

Operation Considerations

Short-Path

Nun Time to High Potency







M Throughput

Upto8.0L/h

📛 Feedtank Capacity

10 Liters Jacketed

- Automatic In-Feed Available
- Custom feed tank configurations Available

Controller & HMI

- Allen Bradley® Industrial PLC
- Windows® Based Operating System
- 21" Color Touchscreen
- 1-ClickRecipeBasedSetup
- Data Collection Capability
- Remote Access, Monitoring, and Diagnostics



Cold Trap Cooling

- Liquid Nitrogen = 3L/hr/stage
- Ultra-Low Chiller Option = 3Phase 230V/60Hz

A Dimensions & Weights

Stage	Dimensions W x L x H	Weight
Single Stage	4'x14'x5.3'	1200 lbs
2 Stage	4'x22'x5.3'	2400 lbs
3 Stage	4'x30'x5.3'	3600 lbs

- Additional stages can be added after initial purchase for additional cost
- Standard straight line configuration. Other layouts available
- Does not include aisles for access around machine (recommend ~3')
- Recommend additional 4' above unit for installation and maintenance

Part of Process	Grade of Steel
Components That Contact Product	316 SS
Frame & Controller Body	304 SS

4 Power Requirements

Hz (Voltage) / Stage	3p/60hz (240/480vac)
240vac@1/2/3Stage	75a/135a/200a
480vac@1/2/3Stage	40a / 75a / 100a



Commercial Models

SPD-4.5

4.5 L/h 4' x 22' x 5.3' 240vac @ 3 Phase



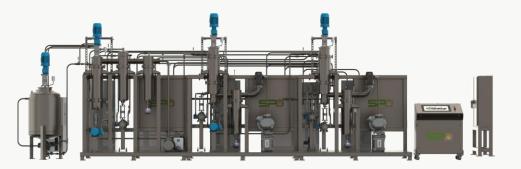
SPD-8.0

8 L/h 4' x 30' x 5.3' 240vac @ 3 Phase



SPD-16

16 L/h 12' x 30' x 10' 480vac @ 3 Phase



SPD-25

25 L/h 12' x 30' x 10' 480vac @ 3 Phase

