



FFE-45

FALLING FILM EVAPORATOR

Alcohol Evaporation System



FFE-45 Advantages



10x



85-95%



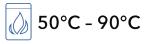
- Small Comparable Footprint
- Short Residence Time
- 316L Sanitary Stainless Steel
- Tempered and reinforced sight glass
- Continuous Operation
- System can be modified for specific applications or higher throughputs
- 12 Month Parts/Labor Warranty
- Technical Support
- Made in USA
- Clean in Place (CIP)

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Product Overview

The Falling Film Evaporator is the solution to evaporating and condensing alcohol used in extracting heat-sensitive compounds. The saturated alcohol is siphoned into the top of the evaporator. The solution falls down multiple small diameter holes, forming a film on the walls of the heated evaporator surface, allowing for efficient evaporation with minimal residency time. This yields a non-thermally degraded concentrate at the bottom of the evaporator which contains 5-10% residual alcohol. The alcohol vapor then travels through the system and is condensed before cascading out of the system into a collection tank.

Production Capacity



Operational evaporator temperature



Gallons per hour



6x

50 liter rotary evaporators

Standard Features

Operational Footprint

 Evaporator & Pump Cart 15' L x 7' D x 9' H

Dimensions

Evaporator

• 41" L x 32" W x 99" H (104 cm L x 81 cm W x 249 cm H)

Pump Cart

• 52" L x 32" W x 74" H (132 cm L x 81 cm W x 188 cm H)

Weight

Main Frame: Approx. 400 lbsPump Cart: Approx. 600 lbs

Electrical

Condenser Pump Cart

 230V, 3.5 kW / 14.5 amps, singlephase

Included Ancillary Equipment

Recirculating Electric Heater

- Heating power: 36 kW / 84 amps @ 240V or 47 amps @ 460V / three-phase (Requires professional installation)
- Transfer Fluid Flow: 25 GPM (25 PSI)
- Max temp: 250° F (120° C)
- Transfer Fluid Line Connections: 1 FNPT
- Dimensions: 33" Lx 17" W x 52" H
- Approx. 255 lbs

Recirculating Water Chiller

- 8.8 kW / 40 amps @ 240 V / 26 amps
 @ 460 V / three-phase
 (Requires professional installation)
- Cooling Power: 5.4 ton
- Coolant Flow: 17.4 GPM
- Operational Temperature: 50° F 60° F
- Volume: 30 gallons
- Coolant Line Connections: 1" FNPT
- Dimensions: 52" L x 26" W x 55" H
- Weight: 715 lbs
- Professional Install sheets from Manufacturer

Pump Chiller

- 5.2kW / 25 amps @ 230V, single-phase
- Cooling Power: 1.5 ton
- Coolant Flow: 3.5 GPM
- Operating Temperature:
 -10°F 35° F
- Dimensions:

30.5" L x 19" W x 26" H

Weight: 340 lbs

