

Spec Sheet

Solvent Recovery

The **BW-SR450** is a compact turnkey falling film or membrane replacement that uses 80% less electricity than traditional systems and recovers 99.5% of solvent in one pass. Using groundbreaking heat pump driven distillation technology, up to 450L/hr of ethanol and many other solvents can be recovered using less than 40 kw of power. No chiller or external heater required.

The Turnkey System Includes:

- Solvent Recovery Skid (76" L x 31" W x 77" H)
- Electrical and Controls Cabinet (30" W x 84" H x 33" L)
- Cooling Tower (63" L x 33" W x 69" H)

Electrical Requirements:

- 240VAC 3 Phase 60 Hz 120 Amps

Incoming Power Cable:

- 10ft 4 Conductor with Ground 00 AWG Cable
- Termination by Customer

Power / Communication to Cooling Tower

- 30ft Cable Length
- Termination by Customer

Input Voltage:

- 240VAC 3 Phase 60 Hz

External Circuit Breaker:

- 150 amp

Nominal Current:

110 amps

Control Interface

- Custom 10" Cabinet Mounted Touchscreen:
- 1 Button Startup
- Automated Controls
- Remote Access

- Automated Sensors and Safeties
- Software Controlled Emergency Shutdown
- Trends and Recording Available

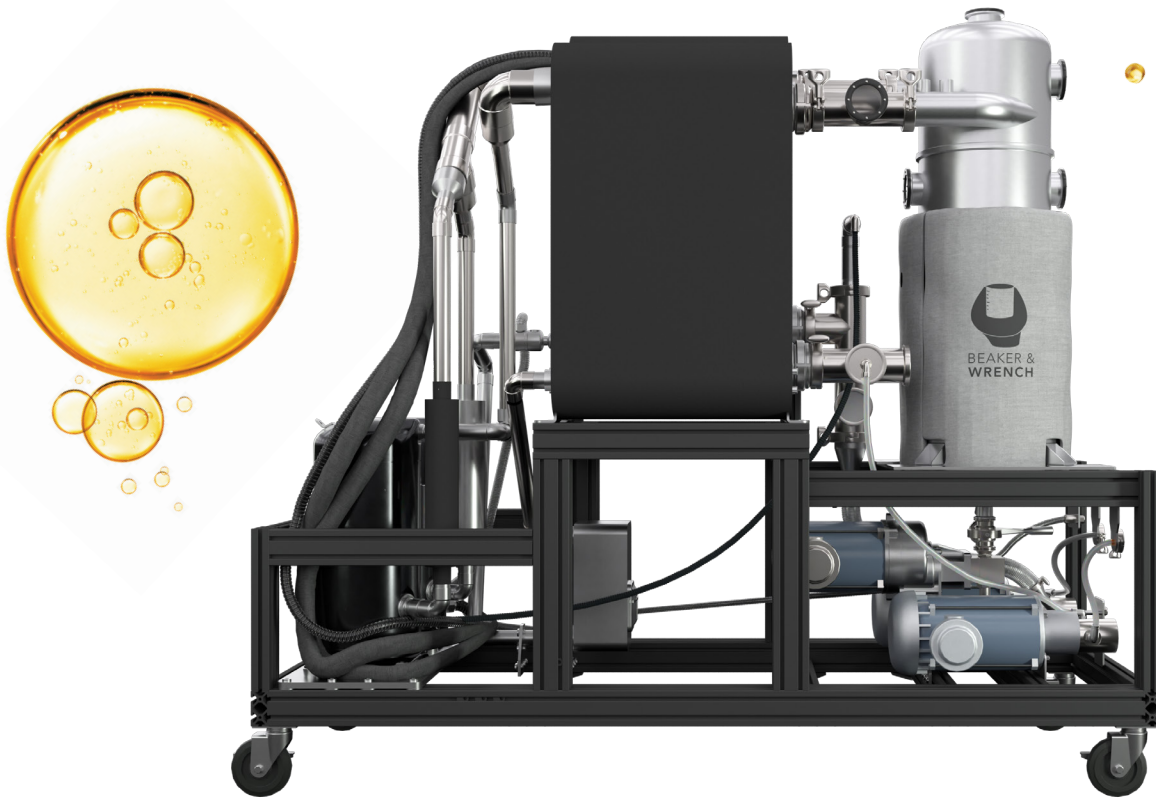
Cooling Skid:

- 6" Castors w/Brakes
- Connections:
- 2x: 3/4" Hose Connection for Cooling Loop to Skid
- 2x 25 ft hoses
- Electrical Connection Cable
- 1hp Water Pump
- 75kBTU Water Cooling Loop
- Autofill Water Cooling Loop (with 5/8" Hose Connection)

Recovery Skid:

- Class I Div II Environment Rated available
- Dimensions : 76" [1.90m] Length x 31" [0.79m] Width x 77" [1.96m] Height
- Weight: Approximately 1250 lbs [570kg]
- Power / Communication to (Terminated Inside Electrical Cabinet)
- 30ft Cable Length
- Termination by Customer





Recovery Rate:

(Assuming 90% Solvent to Oil Mixture)

- Ethanol: Up to 450 LPH 5% Residual Solvent
- Methanol: 600 LPH 2% Residual Solvent
- Please Inquire for Specific Rates of other Solvents
- Various Materials Allowed
- Continuously Running
- 160kW Self Contained Patent Heat Pump System with Dual Compressors
- Heated 40L Oil Tank
- Heated Oil Pump and Outlet Line
- Level Sensor for Automatic Outlet Pump Control
- Max 20 torr Vacuum Level
- Patented Vortex Separation Technology
- 6" Castors w/Brakes

Feed Line:

- Connection: 1/2" NPT or 1/2" FCM Compression fitting
- Rate: Maximum Motor Speed of

600LPH

- Inlet 80 Mesh Filter
- Feed Valve

Oil Discharge Line:

- Connection: 1/2" FCM Compression Fitting
- Rate: Maximum Motor Speed of 95LPH
- Check Valve

Solvent Discharge Line:

- Connection: 1/2" FCM Compression Fitting
- Rate: Maximum Speed of 600LPH
- Check Valve

