

## SCRAPED HEAT PUMP EVAPORATOR (PC R)



Shown: PC R40 FF 3B



Shown: PC R125 FF 4

The Scraped Heat Pump Evaporator is a fully automated, compact, skid mounted treatment system that allows recovery of 95% or more of a wastewater stream for recycling, concentrating contaminants in 5% or less of the original volume. The system creates a vacuum in a boiling chamber, reducing the boiling temperature to approximately 104°F, thereby allowing efficient and cost effective separation of water from other contaminants on a semi-continuous basis using heat pump technology. A self-contained design allows semi-continuous, reliable, automatic operation on a 24/7 basis. Separates oils, salts, and other organic and inorganic compounds from wastewater.

### Specifications:

- 40 to 529 gallon per day models available
- Low specific energy consumption: .49-.64 kWh/gal distillate
- Skid mounted design, ready to install
- Factory-piped, wired, and tested before shipment
- Indoor installation

### Standard Features

- NEMA 4 powder coated steel control panel
- Siemens PLC-based control system with color touchscreen HMI
- Stainless steel frame
- 316L, Superduplex 2507, or Hastelloy C22 critical wetted components
- 316L and polypropylene non-critical wetted components
- Environmentally friendly R134a refrigerant system
- Automatic anti-foam injection

### Optional Features

- Pre- and post-treatment systems
- Storage tanks for process liquids
- pH adjustment of distillate
- Bactericide metering
- Concentrate transfer pumps
- Distillate transfer pumps
- Distillate conductivity meter
- Automatic chemical washing
- Custom configurations by request

ORDERING INFORMATION				
<b>PC R</b>	Scraped Heat Pump Evaporator			
	<b>Capacity (Choose One)</b>			
	<b>40</b>	40 Gallons per Day		
	<b>125</b>	130 Gallons per Day		
	<b>250</b>	265 Gallons per Day		
	<b>500</b>	529 Gallons per Day		
	<b>Wetted Material (Choose One)</b>			
	<b>AA</b>	316L Stainless Steel		
	<b>FF</b>	Superduplex 2507		
	<b>HH</b>	Hastelloy C22		
	<b>Power Requirements (Choose One)</b>			
	<b>3A</b>	208 VAC / 3 / 60 Hz		
	<b>3B</b>	230 VAC / 3 / 60 Hz		
	<b>4</b>	460 VAC / 3 / 60 Hz		
<b>Example Part Number</b>				
<b>PC R</b>	<b>125</b>	<b>AA</b>	<b>4</b>	<b>PC R125 AA 4</b>
<b>PC R</b>	<b>500</b>	<b>FF</b>	<b>3B</b>	<b>PC R500 FF 3B</b>

Note: The PC R40 is intended primarily as a pilot unit and is a simple relay-based unit, and does not include a PLC, HMI, or other advanced control features as standard.

