Kresco



SR SERIES SOLVENT RECYCLING SYSTEMS

Designed to safely and efficiently reclaim used solvents and other hazardous chemicals on-site

Our distillation process allows for the end product to be clean, distilled, and ready for subsequent cleaning applications.

SR Series Solvent Recyclers

Designed to safely reclaim used solvents and hazardous chemicals on-site.

Our units are safe to use and ergonomically designed to control and eliminate harmful vapors. They are fully automated and virtually maintenance-free – it only takes a few minutes to start the process.

Markets

- Industrial Coating & Paint
- Printing & Packaging Industry
- Woodworking & Cabinet Making
- Plastic Forming & Processing
- General Manufacturing
- Solvent-Based Cleaning

Benefits for your business

- Save money on pure solvent purchases and waste solvent disposal fees
- Comply with hazardous the local waste disposal regulations
- Implement environmentally-friendly practices
- Reduce waste solvent stock piles

Key Features



Recovery Rate
97% and more



Eliminates
90% of toxic waste



Cycle Time
4 to 6 hours



Working Temperature
40-200°C
104-390°F



Recycles Popular Solvents
including Mineral Spirit, flexo, litho, and other.



Easy to Use
processor controlled, residue removal and positive-seal cover



Certified
with the industry's best warranty – **2-year manufacturer warranty**



Safety Standards[1]
Class I, Div. 1, Group D
UL standard 2208
CSA C22.2 No. 30



Meet NFPA2 Codes[2]
codes 30, 33, 70

[1] *QPS certified to UL standard 2208 and CSA C22.2 No. 30 in Canada and the U.S. for class I, Div.1, Group D Hazardous locations.*
[2] *nfpa.org. It is of your responsibility to verify proof of certification prior to using such systems in your facility*

SR30 / SR30V



SR60 / SR60V

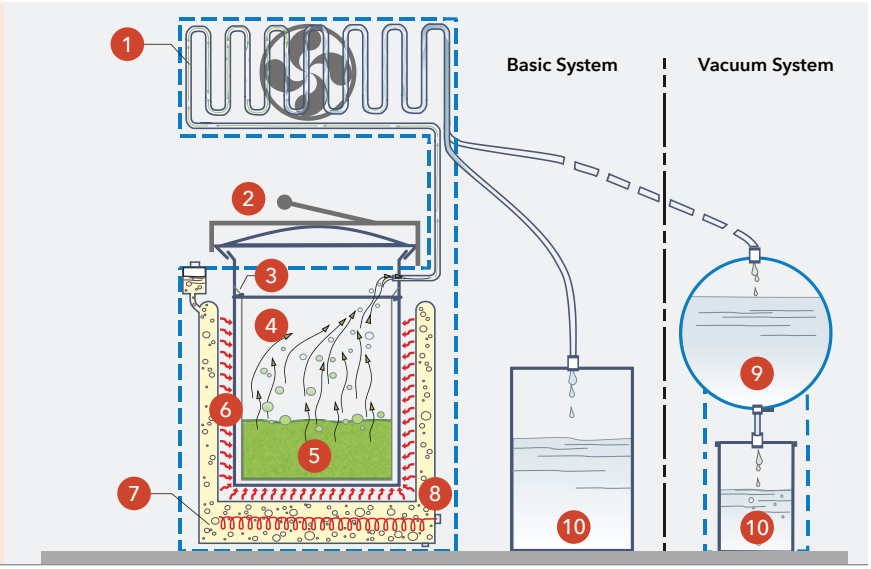


	SR30	SR30V	SR60	SR60V
Power Consumption/ Requirements* (240 V – 1 Ph)	11,7A / 15 A		24,7A / 30 A	
Boiler Capacity (gal / L)	8 / 30		16 / 60	
Distillation Rate (gal / l per hour)	1.5-2.5 / 6-10		3-6 / 12-18	
Heater (kW)	2.5		5	
Overall Dimensions (L x W x H)	25¾" x 26¼" x 63¼"	25¾" x 43" x 63¼"	30¼" x 31⅜" x 77½"	30¼" x 80⅜" x 77½"

**Power outlet may vary from 208 to 240 V and is available in 50 or 60 Hz. Nominal & required amperage (A) are given for 240 V at 60 Hz.*

How it Works

1. Coil condenser
2. Safety cover
3. Plastic bag binding clip
4. Solvent fumes
5. Used solvent
6. Indirect heat
7. Heating element
8. Thermic oil
9. Vacuum tank
10. 100% Pure solvent



SR120 / SR120V / SR180 / SR180V



SR240 / SR240V

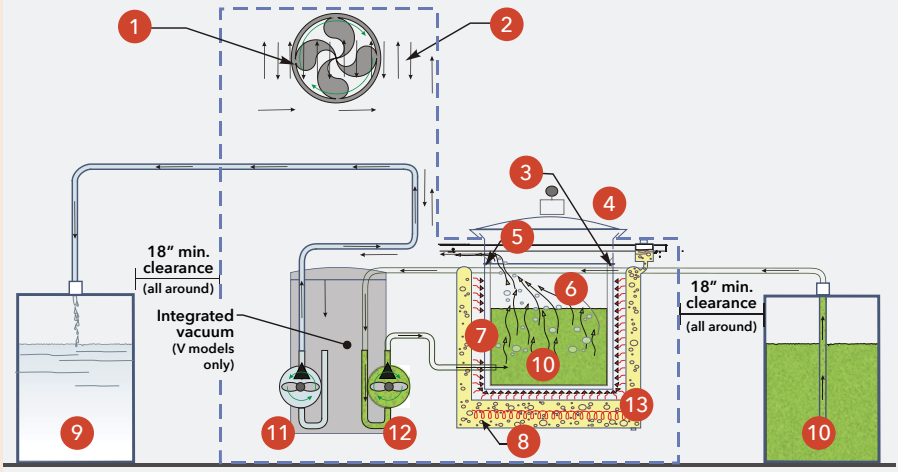


		SR120	SR120V	SR180	SR180V	SR240	SR240V
Power Requirements*	**480 V - 3 Ph**	22.8 A /30 A		20.0 A /25 A		24.8 A /30 A	
	600 V - 3 Ph	18.3 A / 25 A		16.9 A / 20 A		19.5 A / 20 A	
Boiler Capacity (gal / L)		32 / 120		48 / 180		64 / 240	
Distillation Rate (gal / l per hour)		5-8 / 20-30		10-15 / 40-60		12-15 /48-60	
Heater (kW)		10		15		18	
Overall Dimensions (L x W x H)		46″ x 73″ x 85″				45″ x 80⅝″ x 77⅝″	

**Power consumption/requirements may vary from 380 to 400 V (400 V), 460 to 480 V (480 V), and 575 to 600 V (600 V) and are available in 50 or 60 Hz. Nominal and required amperage (A) are given for 400 V, 480 V and 600 V at 60 Hz.*

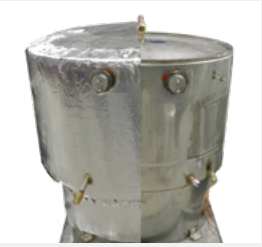
How it Works

1. Fan
2. Coil condenser
3. Plastic bag
4. Safety cover
5. Binding clip
6. Solvent fumes
7. Indirect heat
8. Heating element
9. 100% Pure solvent
10. Used solvent
11. Clean solvent pump
12. Used solvent pump
13. Thermic oil



Indirect Heating System

Heating system consists of 304 stainless-steel vessels with insulated jacket and electrical heaters impregnated in high-temperature synthetic thermal oil. Our system is suitable for solvent with up-to 225°C / 437°F distillation point (with optional High Temperature Kit).



Distillation Vessel

Built with strong 304 stainless steel construction and insulated with 4'' polyurethane on side wall and bottom. Our distillation vessel are tightly sealed with a locking lever and replaceable cover seals for safe and optimal working conditions.



Electric Resistance Heater

All our recyclers are provided with explosion-proof, fast heating elements. Temperature range: 100°F - 390°F / 40°F - 200°C.



Condenser with Motor Fan

Condenser equipped with a high-efficiency, explosion-proof motor fan ensures the system is working under acceptable temperature.



Optional High Temperature Kit

High temperature kit consists of high temperature synthetic thermal oil, vacuum generator and larger expansion oil tank for heating solvent with distillation point above 180°C / 356°F. Maximum operating temperature is 225°C / 437°F.

PLC Controlled Process

The distillation process is completely automated, thanks to the intuitive programmable logic controller (PLC) mounted on the cabinet with a microprocessor and software written and supported by Kresco.

- Programmable Operating Parameters
- Self-diagnosis of Process Faults with Alarm Signal
- Integrated Maintenance Schedule
- Automatic System Operation





Optional External Light Box

External light box kit allows the remote monitoring of the recycler from a centralized control room. The system consists of green-yellow-red light signals to indicate the system is running, cooling down, malfunctioning, or ready for a new batch.

Consumables



Polyethylene Sludge Bag

Polyethylene sludge bags are designed to stand-up high-temperature distillation process and chemical agents. Sludge bags contain dirty solvent residues once the distillation process is completed. Consequently, they should be replaced and securely disposed of after each cycle.



Thermal Oil

Kresco's exclusive thermal oil formula provides fast heating and increases heat transfert to the boiler. Thermal oil must be replaced each 2,000 hours of operation to ensure optimal heating conditions.

Vacuum System

Vacuum system decreases the boiling point of certain solvents by 20 to 30%, thereby leading to less energy consumption and better distillation process overall.

Vacuum is required for heavier-than-air solvent distillation process – such as Mineral Spirit, Naphtha, Varsol Paint Thinner and others.

It is also strongly recommended for optimizing the distillation process of most common types of solvents – such as acetone, MEK and lacquer thinner – when compressed air is available.





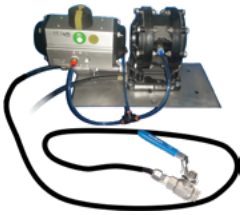
Optional Overfill Protection Kit

The Overfill Protection Kit prevents distracted operators who forgot to empty the vacuum tank to start a new cycle. A sensor located inside the vacuum tank will interrupt the filling procedure and immediately alert the operator to empty the vacuum tank first.

Dirty Solvent Auto-Fill System

The Dirty Solvent Auto-Fill System is controlled by a high-level switch inside the boiler and is backed by fill sequence timers in the PLC.





Diaphragm Pump Kit



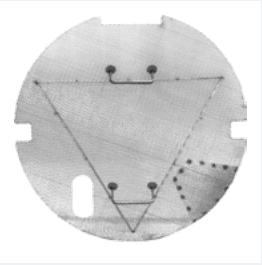
Solvent Transfer Hose Kit

Optional Components



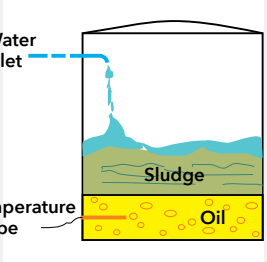
Stainless Steel Upgrade Kit

All stainless steel condenser and piping upgrade kit is available to provide additional protection from highly corrosive solvents and to extend the lifespan of the equipment.



Anti-Foam Disc

Anti-foam disc is required when proceeding with the distillation of some types of solvents to avoid foaming formation to draw through the piping and affecting the performance of the process.



Sludge Monitoring Safety Device

This feature protects your work environment against ignition when reclaiming highly volatile solvents. When the sludge reaches a preset temperature limit during a cycle, the system immediately shuts off the heater and switches to cool down mode until a safe temperature is obtained. On larger units (SR120, SR180 and SR240), a sprinkler system sprays water inside the boiler to accelerate the cooling process.



Oil Cooling System

The oil cooling system can be used to accelerate the cool down time once the distillation process is completed. This multi-plate heat exchanger and condensing unit draws heat away from the thermic oil leading to safer working temperature for the operator and quicker new cycle instead of waiting for the oil to cool down by itself. Maximum operating temperature is 225°C /43°F.

Sludge Removal Handling Devices

SR120 / SR180 / SR240



Sludge Removal Basket

Sludge removable basket makes it easier to remove the sludge bag from the boiler once the distillation process is finished. It can be attached to a railway crane or on optional lifting arm.



Lifting Arm

The lifting arm is equipped with a hand crank to help reducing the level of effort required to lift the sludge basket from the boiler. Requires a sludge removal basket to operate.

Calculate your Savings!

Most of our customers have gained a Return on Investment (ROI) in as little as 4 to 12 months!

Estimate yours today!

or use our online ROI Calculator

PAY BACK & SAMPLE COST ANALYSES	EXAMPLE	CALCULATE YOUR OWN	
A. Waste solvent per month	55 gal / 208 L		gal/L
B. Solvent replacement cost	$5.00	$	
C. Solvent disposal cost	$4.00	$	
D. Total (B+C)*A =	$495.00	$	
E. Monthly Savings (D*0.9) (10% rate loss due to evaporation)	$445.50	$	
F. Annual savings with recycler (E*12 months)	$5 346.00	$	
G. Operation cost of unit (Consumables, Electricity, Labor, etc.) (F*0.1)	$534.60	$	
J. Net Annual Savings with Recycler	$4 811.40	$	

Customer Testimonials

What they have to say about Kresco

"Ease of set up and parameter programming. Ease of operation. Virtually maintenance free other than annual thermic oil change and lid gasket replacement. There are 4 main solvents in the blend. Recovered solvent blend is very near clear. Removal of still bottoms, tank clean up and reload takes 30 minutes. The savings are significant if the recycler is running every day."

Keven King
Finish Equipment/HazMat Supervisor

ROI*: 7 months

Volume recycled: 330 gal/month

Solvent type: Paint and stain related blends

"It saves us a lot of money, reduces the waste shipped off-site and the purchase of virgin acetone to clean the fluid lines. We also sell our excess distilled acetone to nearby metal finishing companies."

John Earl
Environmental Manager

ROI*: 5 months
Volume recycled: 765 gal/month
Solvent type: Acetone

" Very good solvent recovery unit, easy to operate and not al all complex to manage. I am very satisfied with this system."

Normand Reid
General Manager

ROI*: 15 months

Volume recycled: 493 gal/month

Solvent type: Paint and stain related blends

**Return on Investment*

About Kresco

Kresco designs, manufactures, and supports industrial equipment for the surface treatment industries. Kresco has standard equipment designed for most applications and can customize equipment to meet or exceed your production expectations.

Sandblasting

- Sandblast Booths
- Sandblast Cabinets
- Automated Sandblasting Systems
- Abrasive Reclaiming Systems
- Pressurized Sandblasters
- Dust Collectors

Shotblasting

- Roller Conveyor Blaster
- Rotary Table Blaster/Swing Table Blaster
- Spinner Hanger (Batch)
- Continuous Flow with Monorail
- Rubber and Steel Flight Tumbler Blasters
- Flow Thru Barrel Blasters
- Mesh Belt Continuous Blasters
- Monorail System Blasters
- Rim Blasters
- Preservation Line

Painting

- Paint Spray Booths
- Powder Coating Booths
- Drying Ovens
- Air Make-Up Units

Solvent Recovery

- Batch Solvent Distillers
- Continuous Flow Solvent Distillers
- Oil Cooling Systems

Parts & Consumables

- Blast Nozzles
- Blast Hoses
- Abrasive Media
- Air Valves
- Abrasive Metering Valves
- Cartridge Filters
- Sludge Bags
- Safety Equipment & PPE

Services

- Turnkey Project Design
- Custom Design
- Full Installation
- Start-up Supervision
- Training
- Maintenance
- Retrofit & Upgrade

All systems are designed to build and they are manufactured with the highest quality standards in our manufacturing shop in Quebec, Canada.





Kresco

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