

DISTILLATION UNITS

The SRH model distillation units are designed to process solvents with solids.

Each unit is built with industrial strength scrapers arms. Scraper arm size varies from approx. ½ inch on models SRH 25 - SRH-55, 1 inch on models SRH-90 through 150 through, and SRH - 250 and larger with 1-1/2 inch thick. For an extended life, scraper arms can be outfitted with pads, adding to the efficiency of the still output by keeping the heat transfer surface clean.

The V-bottom design allows for large amount of waste holding and efficient heat transfer and pushing the waste materials to the bottom of the unit for discharging of the waste.

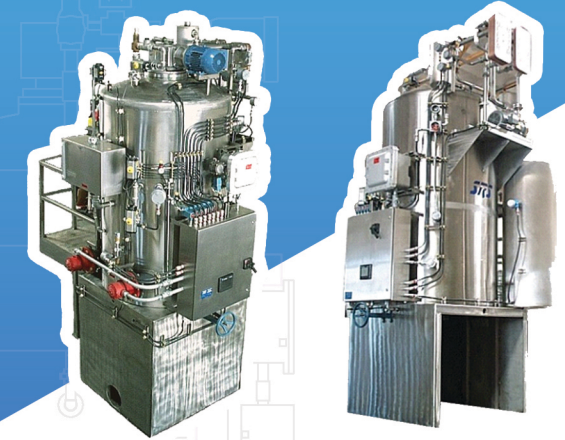
SRS distillation recovery units utilize steam or electrical heating, to heat up the solvents to its boiling point of the solvent. Each unit SRS designs is custom made to the customer's requirements. SRS has perfected our SR unit design to maximize output and minimizes floor space usage. The units can process solvents that are Class1 Division 1 to Zone 0 applications. Vacuum is used

SOLVENT RECOVERY SAVINGS:

- Reduces purchase of clean solvent up to 90 percent.
- Repayment of unit savings within months.
- Reduces disposal costs by 90 percent and up.
- Reduces floor space used compared to other recovery units.

SAFETY AND RELIABILITY:

- Air pressure switch to ensure that actuated valves open.
- Fail closed spring return pneumatic actuated valves to ensure that all valves close in case of power or air failure.
- Immersion heaters in oil bath, Low watt density for increased life of heaters.
- PLC controlled system to reduce operator interactions. (Allen Bradley PLC)
- HMI color touch screen, with P&ID overview screen (Allen Bradley HMI) to watch what items are open or closed and overall operations of unit.



The SRH distillation unit are used for solvent removal from solids. The units have a shaft scraper system inside the unit that removes build up on the wall of the heat transfer area and mixes the solids with solvents for constant heating throughout the still.

MODEL NUMBER	OUTPUT OF STILL	HEAT TRANSFER OIL	VESSEL CAPABILITY	CHILL WATER REQUIREMENTS
SRH-20 Distillation unit (5 KW X 2)	3-5 Gallons per hour output.	30 USG	60 USG	10 GPM @ 30 PSI
SRH-25 Distillation unit (12.5 KW X 2)	8-10 Gallons per hour output.	85 USG	80 USG	25 GPM @ 30 PSI
SRH-25 Distillation unit (12.5 KW X 2)	11-18 Gallons per hour output.	110-130 USG	85 USG	40 GPM @ 30 PSI
SRH-55 Distillation unit (20 KW X 2)	19-26 Gallons per hour output.	110-130 USG	85 USG	50 GPM @ 30 PSI
SRH-90 Distillation unit (40 KW X 2)	35-45 Gallons per hour output.	165-180 USG	200 USG	120 GMP @ 30 PSI
SRH-150 Distillation unit (50 KW X 2)	50-65 Gallons per hour output.	240-260 USG	250 USG	160 GMP @ 30 PSI
SRH-250 Distillation unit (75 KW X 2)	80-100 Gallons per hour output.	350 USG	350 USG	200 GMP @ 30 PSI
SRH-350 Distillation unit (100 KW X 2)	100-120 Gallons per hour output.	450 USG	450 USG	250 GMP @ 40 PSI
SRH-450 Distillation unit (75 KW X 2)	130-150 Gallons per hour output.	550 USG	550 USG	300 GMP @ 40 PSI

to reduce the boiling point of the solvent and can also be used to pull spent solvent into the still without the use of transfer pump; note: this only applies if pulled within 50 Feet of unit.

Our SR stills provide multiple outputs sizes, described below. SRS also provides a digital manual, spare part spreadsheet, and P&ID drawings for connections sizes with each completed purchase.

Output is based on 2000 BTU per gallon of solvent. Output will vary based on amounts of solids entering still.

SRH Models Scraper system: Internal scraper system, 1/2-inch through 1-1/2-inch-thick scraper (replaceable) blades.



SRV-Model with optional Column (top)



SRV-Model with optional Column (side)

SRV Models are used to remove liquid waste for liquid solvents to separate 2 liquids that do not have solids in the system. For higher purity levels an additional column can be added to the top or side of the system. It is also beneficial to allow up to 5% water be included with your solvents.

MODEL NUMBER	OUTPUT OF STILL	HEAT TRANSFER OIL	VESSEL CAPABILITY	CHILL WATER REQUIREMENTS
SRV-20 Distillation unit. (5 KW X 2)	3-5 Gallons per hour output.	40 USG	60 USG	15 GPM @ 30 PSI
SRV-50 Distillation unit. (15KW X 2)	15-20 Gallons per hour output.	130-150 USG	85 USG	50 GPM @ 30 PSI
SRV-90 Distillation unit. (40 KW X 2)	30-40 Gallons per hour output.	185-200 USG	200 USG	140 GPM @ 30 PSI
SRV-120 Distillation unit. (45 KW X 2)	45-50 Gallons per hour output.	240-260 USG	250 USG	160 GPM @ 30 PSI

SR-Models



SR-Model: None explosion version



SR-Model: EXP version

SR- Models (horizontal unit): Can be used with solids or without solids for only liquid separations. This unit is offered in Non-Exp version, and EXP version. Additional columns can also be added.

MODEL NUMBER	OUTPUT OF STILL	HEAT TRANSFER OIL	VESSEL CAPABILITY	CHILL WATER REQUIREMENTS
SR-50 Distillation unit (6 KW Heaters X 2)	4-6 Gallons per hour output.	60-85 USG	30 USG	25 GPM @ 30 PSI
SR-100 Distillation unit (12 KW Heaters X 2)	8-10 Gallons per hour output.	80-100 USG	55 USG	40 GPM @ 30 PSI

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