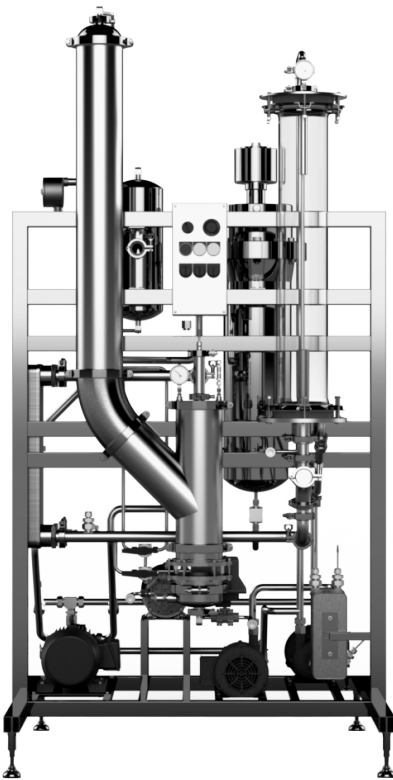


Yellowstone

EXTRACTION COMPANY

EV

O-SERIES



REQUEST A QUOTE

US DISTRIBUTOR

APPLIED PROCESSING

PHONE: 1.877.277.9783
EMAIL: HELLO@APPLIED-PROCESSING.COM
WWW.APPLIED-PROCESSING.COM

YELLOWSTONE EXTRACTION CO. DIRECT SUPPORT & TECHNICAL QUESTIONS

PHONE: 1.226.203.4316
EMAIL: INFO@YELLOWSTONEEXTRACTION.COM
WWW.YELLOWSTONEEXTRACTION.COM

MACHINE SPECIFICATIONS

VOLTAGE	480 V 3 PHASE
AMPERAGE	75.5 A - 82 A
WATTAGE	60 kW
ALCOHOL RECOVERY RATE	250-300 LPH (66-79 GPH)
OPERATIONAL FOOTPRINT	4' x 4' x 8'
SOLUTE MAX TEMPERATURE	194 F (90 C)
DWELL TIME	5 Seconds
ADDITIONAL EQUIPMENT INCLUDED	Radiator & Control Panel

THE YS-EV DIFFERENCE

1

Cleanability. The product contact surfaces of the Yellowstone Extraction Falling Film Evaporator are designed to be easily cleaned using an integrated cleaning cycle. Frequent cleaning using our cleaning cycle is intuitive and simple. A clean process optimizes efficiency and eliminates contamination between batches.

2

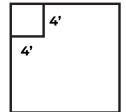
Safety. The Yellowstone Extraction Falling Film Evaporator has been engineer peer reviewed and is approved for installation in Class I, Division 2/Zone 2 hazardous locations across North America.

3

Small Footprint. Measuring at just 4' x 4' and 8' tall, the Yellowstone Extraction Falling Film Evaporator comfortably fits into any size of facility.



C1D2



O-SERIES FEATURES

- Full view borosilicate sight glass
- Low cost downtime prevention & easy to service components
- Highly efficient insulation
- Up to 2 m² surface area on heat exchangers

NO CHILLER REQUIRED

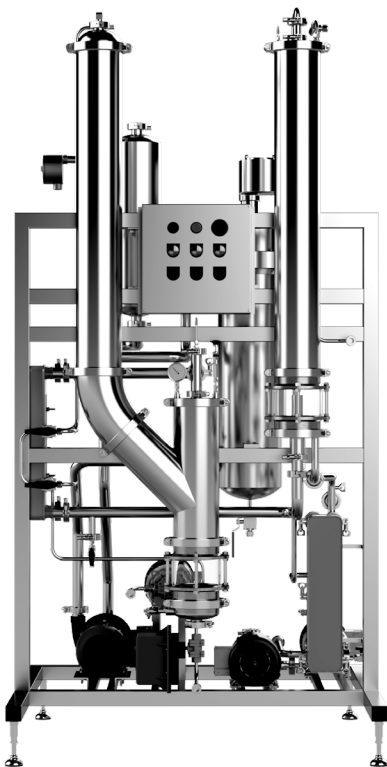
65% LESS ENERGY CONSUMPTION

Yellowstone

EXTRACTION COMPANY

EV

S-SERIES



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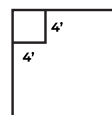


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3

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C1D2

S-SERIES EXCLUSIVE

- The condenser has been upgraded from glass to stainless steel, insuring the current UL 1389 standards to be met.
- The upgraded centrifugal oil pump results in higher speed performances within the S-Series.
- With added sight glasses, drainage points, and new reset button feature, the user experience is easier than ever with the S-Series.
- Through switching temperature controllers to proportionate control, users have an even greater command on temperature control.
- Added data point sensors provides an easy upgrade to Yellowstone Extraction HMI/PLC features once officially released.

NO CHILLER REQUIRED

65% LESS ENERGY CONSUMPTION

Yellowstone

EXTRACTION COMPANY

EV

S-SERIES PRO



REQUEST A QUOTE

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 DIRECT SUPPORT & TECHNICAL QUESTIONS

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THE YS-EV DIFFERENCE

S-SERIES PRO EXCLUSIVE

Exclusive features of the S-Series Pro model

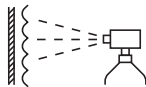
1 Double Tubesheet Heat Exchangers are an important part of quality control in GMP processes. The separation of the tubesheets insures that there is no fluid mixing in the unlikely event of a leak, as well as allowing the leak to be visually identified. By utilizing double tubesheet exchangers on Yellowstone systems, we eliminate the potential risk of product spoiling as the result of leakage.



2 Surface Finish. In order to verify that Yellowstone machinery is cleanable and not additive to the process, we exclusively use 316L stainless steel for metallic product contact surfaces. Stainless steel is highly polished, limiting areas where bacteria and particulate can accumulate. High quality materials and smooth surface finishes ensure that Yellowstone machinery is easily validated in GMP facilities.



3 Exterior Cleanability. The Yellowstone FFE is made almost entirely out of stainless steel and PTFE, meaning it will withstand some of the harshest cleaning chemicals which may be used in a GMP facility. Additionally, all electronic components area all rated to NEMA 4X or higher, allowing for the system to be easily sprayed down with cleaners.



4 Traceability. Our GMP models come with an extensive turnover package, containing the necessary documentation to validate the quality of materials. Thorough documentation ensures that Yellowstone systems will be easily implemented into GMP facilities.



5 Drainability in Lines. In order for processes to be validated, it is important to ensure that product is not being contaminated by outside contaminants, past batches, or cleaners. One of the ways this is accomplished in a Yellowstone system is with fully drainable lines. Through use of angled lines, strategic drain ports, and careful design, all Yellowstone lines are fully drainable.



NO CHILLER REQUIRED

65% LESS ENERGY CONSUMPTION

EV O-SERIES

THE OLD FAITHFUL MODEL

The O-Series is our classic design. Revolutionary condensing technology make the O Series the most efficient evaporator on the market.

EV S-SERIES

THE SPECIALIZED MODEL

The EV S-Series provides customers with the same great performance as the O series with upgraded pumping and control options. The S-Series is a reliable solution for any facility

EV S-SERIES PRO

THE GMP MODEL

Traceability, drainability, and high quality materials make the S-Series Pro the right choice for GMP processing facilities.

CAPACITY

250-300 LPH

250-300 LPH

250-300 LPH

CLASSIFICATION

C1D2

C1D2

C1D2

SOLVENT COMPATIBILITY

ETHANOL, ISOPROPYL ALCOHOL, METHANOL

ETHANOL, ISOPROPYL ALCOHOL, HEXANE, HEPTANE, METHANOL

ETHANOL, ISOPROPYL ALCOHOL, HEXANE, HEPTANE, METHANOL

THERMAL FLUID PUMP RATE

38 LPH

189 LPH

189 LPH

GMP COMPLIANT

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ADDITIONAL FEATURES

· FULL VIEW BOROSILICATE SIGHT GLASS

· LOW COST DOWNTIME PREVENTION & EASY TO SERVICE COMPONENTS

· HIGHLY EFFICIENT INSULATION

· UP TO 2 M² SURFACE AREA ON HEAT EXCHANGERS

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· LOW COST DOWNTIME PREVENTION & EASY TO SERVICE COMPONENTS

· HIGHLY EFFICIENT INSULATION

· UP TO 2 M² SURFACE AREA ON HEAT EXCHANGERS

· THERMAL FLUID FILLING SIGHTGLASS

· MANUAL VACUUM BREAK

· ADDITIONAL DRAINAGE POINTS

· PROPORTIONATE TEMPERATURE CONTROLLER

· HMI COMPATIBLE

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· UP TO 2 M² SURFACE AREA ON HEAT EXCHANGERS

· THERMAL FLUID FILLING SIGHTGLASS

· MANUAL VACUUM BREAK

· ADDITIONAL DRAINAGE POINTS

· PROPORTIONATE TEMPERATURE CONTROLLER

· HMI COMPATIBLE

· DOUBLE TUBE SHEET HEAT EXCHANGER FOR CONTAMINATION PREVENTION

· 316 STAINLESS STEEL INTERIOR WITH POLISHED SURFACE ON ALL PRODUCT CONTACT

· ADDED DRAINABILITY IN LINES FOR EASY SANITATION PROCESS

· WELD CERTIFICATES & 3RD PARTY BOROSCOPE INSPECTION

· DESIGNED TO BPE STANDARDS

· ELECTROPOLISHED & PASSIVATED

· COMPLETE MATERIAL TRACEABILITY