

# ESCRUB 1000-1-1S SCRUBBER



ESCRUB 1000-1-1S is a skid-mounted, packed column recirculating scrubber designed for high flow and high concentration. This scrubber has all explosion-proof electrical and can be placed in any Class 1, Division II hazardous location. It can be run in series with one of its sister units for extremely high vapor concentrations or can be run in parallel. Both configurations can be set up for continuous operation removing shutdowns from spent chemical change-outs and both provide a 100% removal efficiency. It is designed for atmospheric pressure and is non-ASME rated.

## ESCRUB 1000-1-1S SPECIFICATIONS



### RATED FLOW

0 – 2,000 SCFM Maximum  
Flow may be reduced based on piping restrictions

### SCRUBBER MEDIA - Various

Sodium Hydroxide (Caustic)	1 – 25% Solution
Potassium Permanganate	1 – 25% Solution
Acid (Acetic, Citric, Sulfuric, Phosphoric)	1 – 25% Solution
Water	

### PACKING MEDIA

Type	304 SS Pal Rings	Packing Factor	26
Packing Size	1.5 in.	Quantity	30 cu. ft.

### PRESSURE VACUUM SETTINGS

Pressure	12 in. Hg
Vacuum	12 in. Hg

### SCRUBBER CHAMBER CHARACTERISTICS

Overall Dimensions	8 ft. x 8 ft. x 9.5 ft.
Column Diameter	30 in.
Column Height	79.25 in.
Scrubber Column Packing Volume	32 cu. ft.
Chamber Fill Volume	200 gallons min. (Approx. 12 in. from bottom) 400 gallons max. (Approx. 25.5 in. from bottom)

### OPERATIONAL/ENVIRONMENTAL BENEFITS

- Reduce or eliminate H<sub>2</sub>S, SO<sub>x</sub> and Ammonia vapors
- Used to meet EPA SO<sub>x</sub> emissions by scrubbing upstream of an Envent degassing unit

### SPECIAL FEATURES

- Redundant mag drive explosion-proof pumps
- Redundant stainless liquid strainers on liquid recirculation line
- Electromagnetic flow meter with a local HMI
- Pressure and temperature gauges
- 4 in. inlet flame arrestor
- Demister pad to prevent liquid carry-over
- pH probes
  - Optional DCS output capabilities and low pH output alarms
  - Optional recirculation flow output capabilities
  - Optional high temperature alarms

Call Envent now at 888-997-9465 or email us at [solutions@envent.net](mailto:solutions@envent.net)



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