



RJ-2000® EMERGENCY CHLORINE SCRUBBER

Evoqua Water Technologies offers a full range of emergency scrubbers for protection against accidental leaks of toxic gases such as chlorine, ammonia and sulfur dioxide.

RJ-2000 Emergency Scrubber

The RJ-2000® scrubber is the world's most popular emergency scrubber system. The process is designed to contain and neutralize chlorine vapors in response to a gas leak or catastrophic cylinder failure.

The RJ-2000 scrubber uses a unique horizontal flow path, with a proprietary caustic distribution network, to absorb better than 99.999% of the chlorine gas entering the scrubber, in a very compact footprint and low profile.

The RJ-2000 scrubber is the only emergency scrubber to have been tested by an independent, certified laboratory in a full 1-ton chlorine gas release. During this test, a catastrophic accident was simulated with chlorine release rates of 100 lb/min. The scrubber saw inlet chlorine concentrations in excess of 500,000 ppm, and outlet concentrations less than 1 ppm, safely below the 5 ppm Uniform Fire Code limit.

How It Works

When a leak occurs, the pump and fan start automatically. The fan provides sufficient vacuum to contain the chlorine gas and deliver it to the scrubber. The pump circulates concentrated caustic solution over the scrubber packing to absorb virtually all of the chlorine gas.

The entire system is factory assembled and tested for easy installation.

The RJ-2000 scrubbers are also available to neutralize 1-ton, 2-tons or 3-tons of chlorine gas. Larger bulk systems can be provided for up to 100-tons of chlorine.

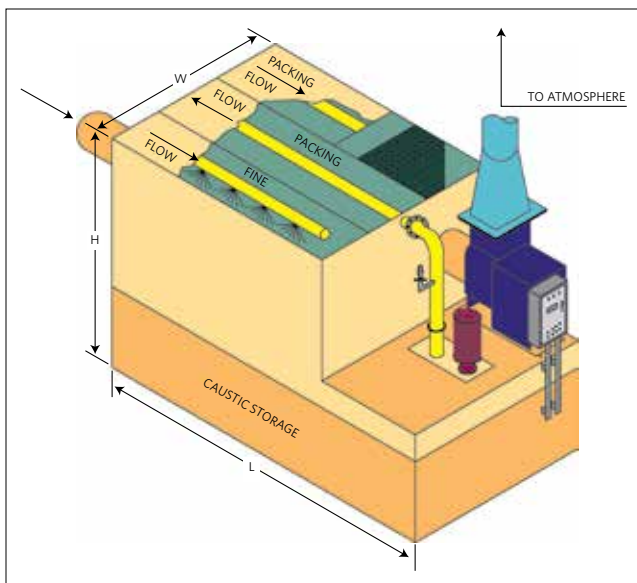
Standard Options

- Patented system
- Proven in independent testing under a Catastrophic 1-ton chlorine gas release.
- Compact, low profile enables indoor installations
- Factory assembled for easy installation
- FRP construction for optimum strength and Corrosion resistance
- Heat trace and insulation
- Integral secondary containment
- Evoqua service and support

RJ-2000® SYSTEM DESIGN INFORMATION

Design Capacity (tons)	Airflow Rate*	Caustic Volume	Dimensions LxWxH	Shipping Wt	Operating Wt	Fan Motor	Pump Motor
	cfm <i>m³/h</i>	gallons <i>liters</i>	ft <i>mm</i>	lbs <i>kg</i>	lbs <i>kg</i>	HP <i>kW</i>	HP <i>kW</i>
1	3,000	2,100	13.0 x 7.0 x 8.50	7,500	29,000	5.0	20
	5100	7950	3965 x 2135 x 2440	3400	13155	3.7	15
2	3,000	3,900	13.0 x 7.0 x 11.5	10,000	50,000	5.0	20
	5100	14800	3965 x 2135 x 3505	4535	22680	3.7	15
3	3,000	5,900	13.0 x 9.0 x 12.25	14,000	74,000	5.0	20
	5100	22350	3965 x 2745 x 3735	6350	33566	3.7	15

* Standard designs for 1500, 4000 and 5000 cfm also available.



TERRELL, TEXAS
RJ-2000
ONE TON CAPACITY

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