



## RJ-150™ EMERGENCY CHLORINE SCRUBBER

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

### RJ-150™ Emergency Scrubber

The RJ-150 emergency chlorine scrubber is designed to contain and neutralize chlorine vapors released from a bank of 150 lb (70 kg) chlorine cylinders.

The RJ-150 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-150 is the only emergency scrubber to have been tested by an independent, certified laboratory in a full 150-lb chlorine gas release. During this test a catastrophic accident was simulated with chlorine release rates of over 28 lb/min. The scrubber saw inlet concentrations in excess of 300,000 ppm, and outlet concentrations less than 1 ppm, safely below 5 ppm UFC 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.

Systems are typically designed for 2, 4 or 6 on-line cylinders. Systems are designed for 250 cfm air flow.

Packaged systems are available which provide chlorine cylinder storage, chlorination system and chlorine scrubber on a single skid.

### Standard Features

- Patented System
- Proven in independent testing
- Compact, low profile suitable for indoor or out door installation
- Mounts on bulk caustic tanks to provide high  $\text{Cl}_2$  capacity
- FRP Construction
- Evoqua Service and Support

## RJ-150™ DESIGN INFORMATION

| System   | Number of<br>Cylinders online | Airflow<br>Rate        | Caustic<br>Volume | Dimensions<br>LxWxH | Shipping<br>Wt | Operating Wt | Fan Motor | Pump Motor |
|----------|-------------------------------|------------------------|-------------------|---------------------|----------------|--------------|-----------|------------|
|          |                               | cfm                    | gallons           | ft                  | lbs            | lbs          | HP        | HP         |
|          |                               | <i>m<sup>3</sup>/h</i> | <i>liters</i>     | <i>mm</i>           | <i>kg</i>      | <i>kg</i>    | <i>kW</i> | <i>kW</i>  |
| RJ-150-2 | 2                             | 250                    | 275               | 7.0 x 3.0 x 4.83    | 1,000          | 4,000        | 1.0       | 5          |
|          |                               | 425                    | 1040              | 2133 x 914 x 1472   | 454            | 1814         | 0.75      | 3.7        |
| RJ-150-4 | 4                             | 250                    | 550               | 7.0 x 3.0 x 6.58    | 1,500          | 7,500        | 1.0       | 5          |
|          |                               | 425                    | 2082              | 2133 x 914 x 2006   | 680            | 3402         | 0.75      | 3.7        |
| RJ-150-6 | 6                             | 250                    | 660               | 7.0 x 3.0 x 7.5     | 2,000          | 9,200        | 1.0       | 5          |
|          |                               | 425                    | 2500              | 2133 x 914 x 2286   | 907            | 4173         | 0.75      | 3.7        |



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Certain features of this product are covered by U.S. Patent no. 5,518,696. RJ-150 is a trademark of Evoqua.

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