



## LO/PRO® PACKAGED ODOR CONTROL SYSTEM

Evoqua Water Technologies offers a full range of chemical scrubber odor control systems for municipal and industrial odor control.

### LO/PRO Multi-Stage Scrubber

The patented LO/PRO® multi-stage scrubber system is the most efficient and versatile chemical odor control system available. By promoting different chemical reactions in each stage, the LO/PRO system can target a range of compounds in a single scrubber system.

The LO/PRO system can treat up to 24,500 cfm of odorous air in a single scrubber with very compact footprint. Higher airflows may be accommodated with special designs. Because of the low profile it may easily be installed indoors or outdoors and results in 99.5% removal of  $H_2S$ .

### Standard Configuration

In the standard configuration, the first stage uses NaOH to remove 70% of the  $H_2S$ . The second and third stages use NaOH and NaOCl to remove the remaining  $H_2S$  and organic odors. This multi-chemistry system reduces chemical costs to less than half that required by conventional packed tower scrubbers.

### Special Configurations

The LO/PRO system may also be configured to remove ammonia and amines in the first stage using  $H_2SO_4$ , and then remove  $H_2S$  and organic odors in the second and third stages using NaOH and NaOCl. This configuration is well suited to dewatering and solids handling operations, where lime stabilization causes ammonia and amine odors.

When operating at high ORP levels the LO/PRO system is very efficient at oxidizing mercaptans and organic sulfides. In such systems a final NaOH stage may be used to prevent any residual chlorine odors.

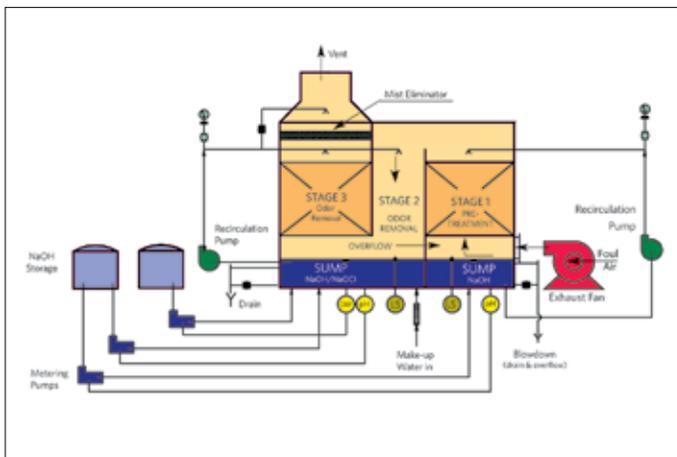
### Standard Features

- Patented Multi-stage Odor Control Process
- Removes  $H_2S$ , Mercaptans, Organic Sulfides, Ammonia and Amines in One System
- Low Profile enables indoor installations
- Factory Assembled for near "Plug & Play" Installation
- Premium vinylester FRP construction
- Evoqua Service and Support

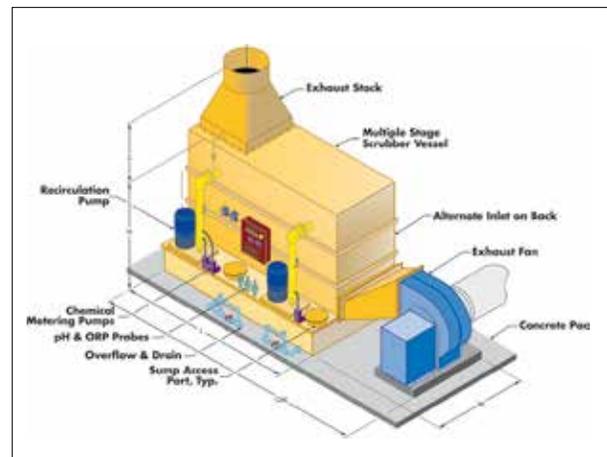
## THE LO/PRO SYSTEM DESIGN INFORMATION

Model Unit	Airflow Rate* cfm	Dimensions LxWxH ft	Overall Length (OAL) ft	Shipping Wt lbs	Operating Wt lbs	Estimated System Power HP
LP-2000	1,700	6.00 x 4.50 x 9.25	11.0	2,200	6,000	13
LP-2250	2,200	6.75 x 4.75 x 9.25	12.5	2,500	7,000	17
LP-2500	2,700	7.50 x 5.00 x 9.50	13.0	1,100	8,000	18
LP-2750	3,300	8.25 x 5.25 x 9.50	15.0	3,700	9,500	20
LP-3000	4,000	9.00 x 5.50 x 10.50	15.5	4,400	11,000	25
LP-3500	5,500	8.75 x 6.00 x 11.00	16.0	5,000	12,000	30
LP-4000	7,100	10.00 x 6.50 x 11.00	17.5	5,600	14,500	35
LP-4500	9,100	11.25 x 7.00 x 11.25	19.5	6,200	17,000	45
LP-5000	11,200	12.50 x 7.50 x 11.50	20.5	6,800	19,500	50
LP-5500	13,600	13.75 x 8.00 x 11.75	22.0	7,500	22,000	50
LP-6000	16,200	15.00 x 8.50 x 12.00	24.0	8,300	22,500	60
LP-6500	20,000	16.25 x 9.00 x 12.25	26.0	9,100	28,500	70
LP-7000	24,500	17.50 x 9.50 x 12.50	27.0	10,000	32,000	90

\* Standard Exhaust Stack "S" is six feet



Process Flow Diagram



Isometric Drawing



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LO/PRO is a trademark of Evoqua, its subsidiaries or affiliates, in some countries. Features of the LO/PRO system are covered by U.S. Patent Nos. 5,876,662 & 6,174,498).

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