

# Chemical Scrubber Odor Control Units

## OVERVIEW:

The chemical scrubber tower is a vertically oriented scrubber filled with an inorganic media. The filter's unique design treats odors in areas where space is at a premium or where VOCs are present.

Contaminated air enters the scrubber tower and flows either upward or downward (depending on the design) through the media along with a recirculating chemicals solution flow. The recirculation solution maintained in the scrubber tower allows for optimal control of pH, chlorine levels and odor limits. In some applications.

## PRODUCT HIGHLIGHTS:

### Standard Features

Cost-effective odor control solutions with these products:

- Built-in-Place (BIP) Scrubber Systems — for larger air flow rate applications
- Modular Package Scrubber — for small air flow rate applications
- Scrubber Towers — for space-limited applications

### What is a Chemical Scrubber?

Chemical scrubbers achieve odor removal by mass transfer absorption via contact of air stream with aqueous solution on random packing material in a scrubbing chamber. Two parameters define the performance of any absorption scrubbing system. These are the efficiency of gas/liquid contact and the adequacy of a chemical within the aqueous phase to promote reaction and absorption. Basiiia Contracting uses a special media which increases the efficiency of the scrubber in smaller tower size.

### Main features:

- Scrubbing liquid make-up system
- Scrubbing liquid re-circulation system
- Scrubbing liquid discharge system
- Scrubbing liquid chemical for adjusting the pH and ORP value
- Ventilation system



| MODEL   | DIAMETER<br>IN INCHES<br>[MM] | HEIGHT IN<br>INCHES<br>[MM] | FLOW RANGE<br>IN CFM [M3/HR] |
|---------|-------------------------------|-----------------------------|------------------------------|
| COC-060 | 60 [1524]                     | 180 [4572]                  | 220-370<br>[370-630]         |
| COC-072 | 72 [1829]                     | 180 [4572]                  | 320-530<br>[540-900]         |
| COC-084 | 84 [2133]                     | 180 [4572]                  | 430-720<br>[730-1,220]       |
| COC-096 | 96 [2438]                     | 180 [4572]                  | 560-940<br>[950-1,600]       |
| COC-108 | 108 [2743]                    | 180 [4572]                  | 715-1,190<br>[1,200-2,000]   |
| COC-120 | 120 [3048]                    | 180 [4572]                  | 880-1,470<br>[1,500-2,500]   |
| COC-132 | 132 [3352]                    | 180 [4572]                  | 1,070-1,780<br>[1,800-3,000] |
| COC-144 | 144 [3657]                    | 180 [4572]                  | 1,270-2,120<br>[2,160-3,600] |

### Notes:

- Vessels are made of HD Polyethylene, FRP, or Carbon Steel according to client requirements
- All vessels can be provided in carbon steel lined with Plasite 7159 or 316L stainless steel.
- Piping is available in PVC, CPVC FRP, and 316L stainless steel.



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