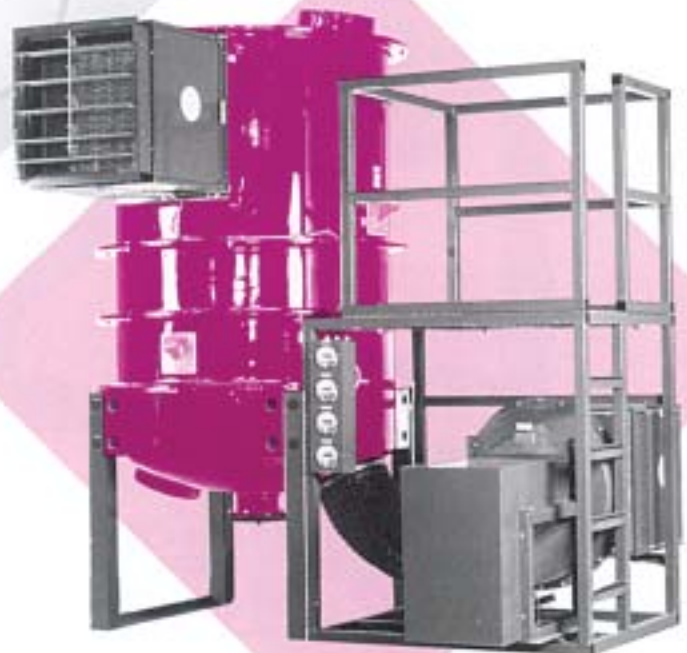
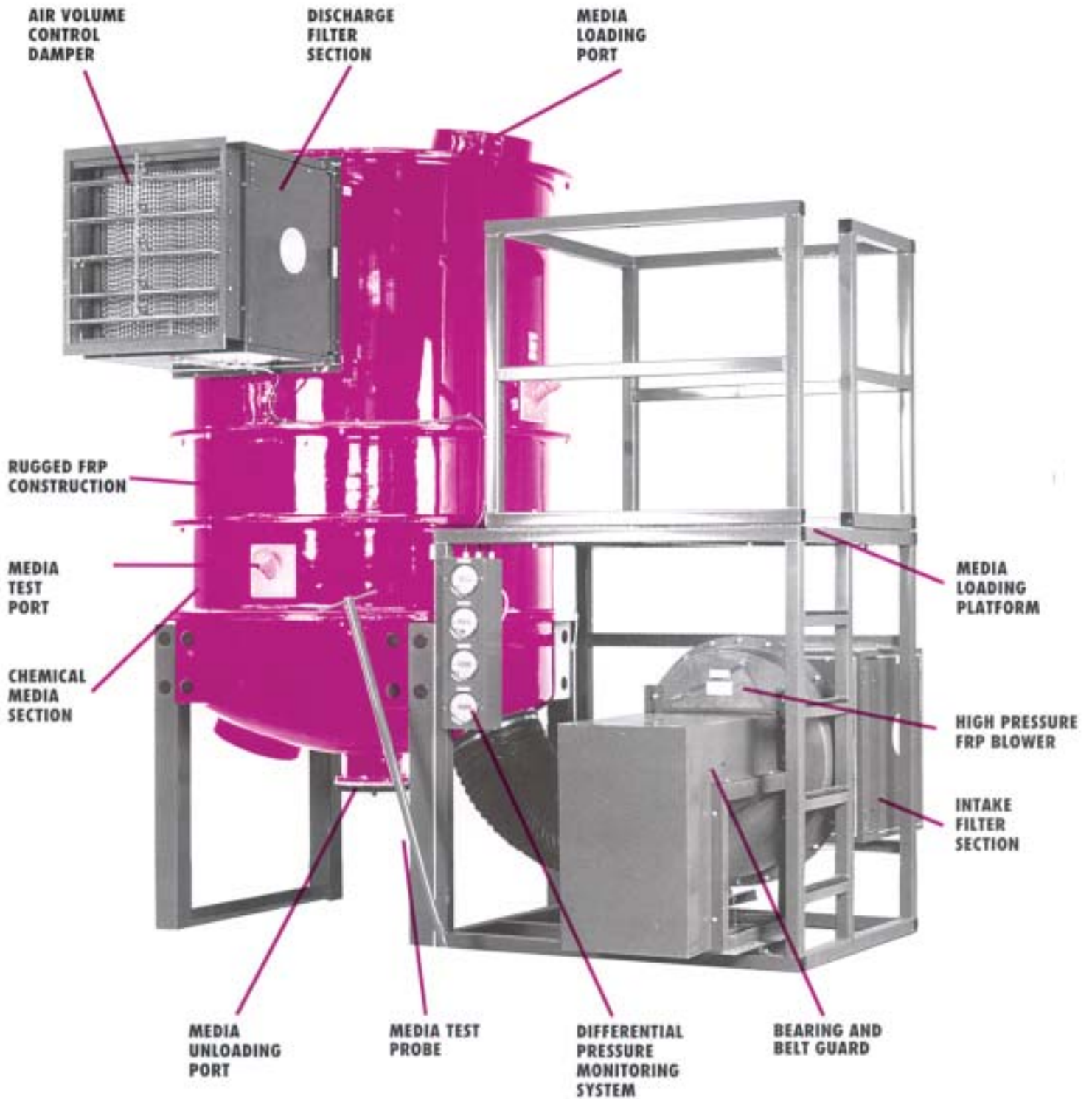




**HDS**  
HIGH DENSITY  
SCRUBBER

**FRP SERIES**  
FIBERGLASS  
REINFORCED  
PLASTIC





## MODE OF OPERATION.

The High Density Scrubber removes corrosive, malodorous and toxic contaminants and is designed for applications requiring high removal efficiency and media life.

The HDS system integrates three principal components: an industrial FRP blower, a hopper containing chemical media and a discharge particulate filter section. The contaminated air is blown through an even-flow plenum section by the skid-mounted industrial FRP blower. The air is then forced up through a deep bed of Multi-Mix media for removal of gaseous contaminants such as hydrogen sulfide, sulfur dioxide, chlorine, ammonia, etc. The selection of media and its depth depends on the type and severity of the contaminants.

To ensure optimum contaminant removal efficiency, a minimum residence time of 0.6 second is maintained (if required, extended residence time can be achieved by adding on chemical media sections). After chemical purification, the air is further filtered by ASHRAE\*-rated final filters at 30% and 90% efficiency. The air is then discharged. Periodically, samples of operating media are analyzed free of charge at our laboratory to ensure media life and optimum system performance.

## FEATURES.

- Rugged FRP construction for maximum protection against corrosion and other severe environmental conditions.
- Complete range of Multi-Mix chemical media to suit various types of applications.
- Factory-assembled, skid-mounted package to facilitate installation and start-up.
- Counterflow design to reduce maintenance downtime and allow partial media bed removal between change-out cycles.

## PERFORMANCE.

AIR FLOW CAPACITY						
HDS Model	4 C	8 C	16 C	32 C	60 C	100 C
CFM	200 - 500	500 - 1000	1200 - 2000	2400 - 4000	4000 - 7000	8000 - 12000

### Filter Efficiency

Up to 99% particulate filter efficiency as per ASHRAE\* standards and in compliance with ISA\*\* air quality standards

### Media Bed Life

Minimum one year of operation

### Residence Time

0.6 - 4.0 seconds and higher

\* American Society of Heating, Refrigerating and Air-Conditioning Engineers

\*\* Instrument Society of America



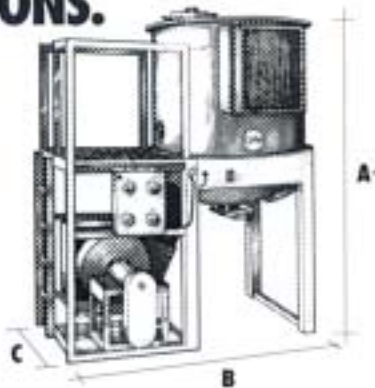
## OPTIONS.

- 100% fan redundancy (back-up capacity)
- Preheat section
- Inertial separator filters
- FRP: fiberglass-reinforced, plastic-support structure
- Control panel (pre-wired or shipped loose)
- Prehumidifier
- PGCS: pressure-gradient control system
- Media holding chamber to provide continuous system operation
- Explosion-proof protection

## APPLICATIONS.

- Pulp and paper mills
- Steel mills
- Computer rooms
- Sewage-treatment plants
- Bleach plants
- Oil and gas refineries
- Pharmaceutical plants
- Electronic component manufacturers

## DIMENSIONS.



HDS MODEL	A	B	C
4 C	72 1/4"	73 1/2"	36"
8 C	73 7/8"	85"	38"
16 C	90 1/2"	106 3/4"	46"
32 C	110 1/4"	129 3/8"	63 1/2"
60 C	117"	160"	108"
100 C	147"	209"	144"

\* Based on the standard unit (4C) model which does not incorporate any additional media sections. Each media section would add approx. 12" to unit height.

## FULL SERVICE PROGRAM.

- Equipment start-up & commissioning
- Quarterly inspection of each protected area
- Quarterly corrosion coupon monitoring
- Tech-Check Service: laboratory support to monitor media performance
- Annual Sealing Integrity Verification (SIV)
- Indoor air quality analysis



3999 Cote Vertu  
Montreal (Quebec)  
Canada H4R 1R2  
Tel.: (514) 336-3330  
Fax: (514) 337-3336

USA & CANADA  
1-800-800-1868

[www.circul-aire.com](http://www.circul-aire.com)

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