

A Met-Pro Product Recovery/Pollution Control Technologies Business











DUALL

Odor Control Chemical Scrubbers

COST EFFECTIVE

DUALLAST® FRP AND

THERMOPLASTIC SCRUBBERS,

FANS AND VENTILATION PRODUCTS

Municipal and Industrial Odor Control Specialists

Known for our quality, Proven to be dependable

COMPLETE OBOR CONTROL CO

Duall has designed and manufactured odor control systems for more than 40 years.

Duall has manufactured and tested systems from 100 cfm to more than 60,000 cfm. We have installed systems from the coldest climates of Canada to the hot and abrasive conditions of Texas and Arizona. And we have designed systems to withstand 150 mph hurricane winds in Florida and seismic zone 4 requirements in California.

QUINTESSENTIALTM SCRUBBER SYSTEM WITH MIXED FLOW EXHAUST TECHNOLOGY

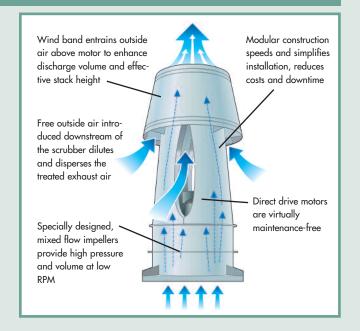


Material of Construction: 100% Corrosion Resistant UV Stabilized PVC

Application: Wastewater Treatment Plant Odors

Problem: H₂S, NH₃ and RSC's

Solution: Multi-Stage, Multi-Chemistry QuintEssential™ Scrubber



PTMD LOW PROFILE PACKAGED SCRUBBER SYSTEMS



Material of Construction: UV Thermoplastic

Application: Sludge Digestion Problem: H₂S, DMS/DMDS Solution: **Single Stage PTMD**

Tested	Inlet	Outlet	Removal Efficiency	
H ₂ S	17 ppmv	.005 ppmv	99.97%	
DMS/DMDS	29 ppmv	Non-D	Non-Detectable	



Material of Construction: DUALLast® FRP

Application: Dewatering and Lime Stabilization Odors

Problem: H₂S and NH₃ Solution: **Multi Stage PTMD**

Tested	Inlet	Outlet	Removal Efficiency	
H_2S	50 ppmv	< .1 ppmv	> 99.8%	
NH ₃	20 ppmv	< .2 ppmv	> 99%	

PT500 PACKED TOWER SCRUBBER SYSTEMS



Material of Construction: FRP

Application: 175,000 Total CFM Wastewater Treatment Plant Odors

Problem: H₂S

Solution: PT-500 Systems with Duall Ducting

Advantages of DUALLast® FRP



Material of Construction: DUALLast® - the Ultimate FRP Construction

Problem: H₂S and other odors Solution: **Single Stage PTMD**

Tested Compound Inlet Outlet Removal Efficiency
H₂S 75 ppmv 0.3 ppmv > 99.5%

EQUIPMENT DESIGNS

Whether your requirements are based on space limitations, system flexibility, maximum efficiency, or a combination of all these, we have a system for you.

- Packed bed towers
- Single-stage
- Low profile packaged systems
- Multi-stage
- Low prome packaged system
- Horizontal cross-flow scrubbers
 Multi-chemistry

QUALITY CONTROL AND PROJECT MANAGEMENT

In-house fabrication of our systems in thermoplastics or DUALLast® FRP allows us to constantly monitor manufacturing quality and meet delivery schedules.

MINIMUM AIR VOLUME

Duall is expert in ventilation design. Covers, shields, hoods, and curtains can reduce initial system costs and continuously save on operating expenses.

FIELD SERVICES, ENGINEERING, INSTALLATION, START-UP AND OPERATOR TRAINING

BUDGET DESIGN AND ASSISTANCE

Ask for our "Budget Design" package which includes:

- Performance requirements
- Written specifications
- System and PID drawings
- Component sizing (pumps, fans, motors, etc.)
- Annual operating cost estimation
- System budget price

As the saying goes, "the last shall be first"... unique DUALLast® FRP construction extends service life; and assures stronger and more corrosion resistant products at competitive costs.

- PVC corrosion resistant inner liner is a minimum 1/8" thick (125 mils), compared to 20-50 mils for typical FRP composites
- Homogenous thermoplastic inner liner is not subject to costly weeping and crazing failures often associated with solid FRP construction
- Thermoplastic lined vessels can be spark tested to ensure leakproof construction which is not always assured in solid FRP fabrications
- Outer FRP shell provides maximum U.V. resistance and structural strength for very high wind or vacuum applications
- DUALLast® is NSF 61 approved by the National Sanitation Foundation International for use in potable water applications
- Only DUALLast® FRP offers our unique Extended Service Life Warranty

SOLID PVC VENTILATION SYSTEM HOODS AND DUCT



Cost effective thermoplastic odor capture enclosures and ducting are available for DAF processes, belt filter presses, lime stabilization tanks, and many other applications. Hoods and ducting are available in corrosion resistant FM4910 approved materials.

DUALL FANS

Manufactured in our factories, Duall Model RB, NH and MFE fans are performance certified by AMCA. Our fan impellers are manufactured of FRP encapsulated steel providing the ultimate combination of corrosion resistance and structural integrity.



SUCCESSFUL APPLICATIONS

Municipal Waste Treatment

Aeration Basins Compost Facilities
Holding Tanks Anaerobic Digesters
Dewatering Facilities Lift Stations

Clarifiers Headworks
Sludge Dryers Bio Roughing Towers

Municipal Solid Waste Industrial Wastewater Toll Plants

Industrial Odor Control

Chemical Processing
Pharmaceutical Fermentations
Coating Processes
Storage Tanks
Compost Facilities
Fish & Poultry Processing
Pulp & Paper Manufacturing
Compost Facilities
Facilities
Feactor Vents
Food & Spice Processing
Animal Rendering Plants
Paint Stripping
Drying Processes
Breweries

Some Typical Odors Controlled by Duall

Hydrogen Sulfide Amines Alcohols Chlorine Ketones Phenols Aldehvdes **Acrylates** Acetic Acid Mercaptans Creosols Carboxylic Acids Dimethydisulfide Dimethylsulfide **Ammonia** Butyric Acid



Duall Mixed Flow Exhausters with effective stack height of 60 feet.

Duall NH Fans

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