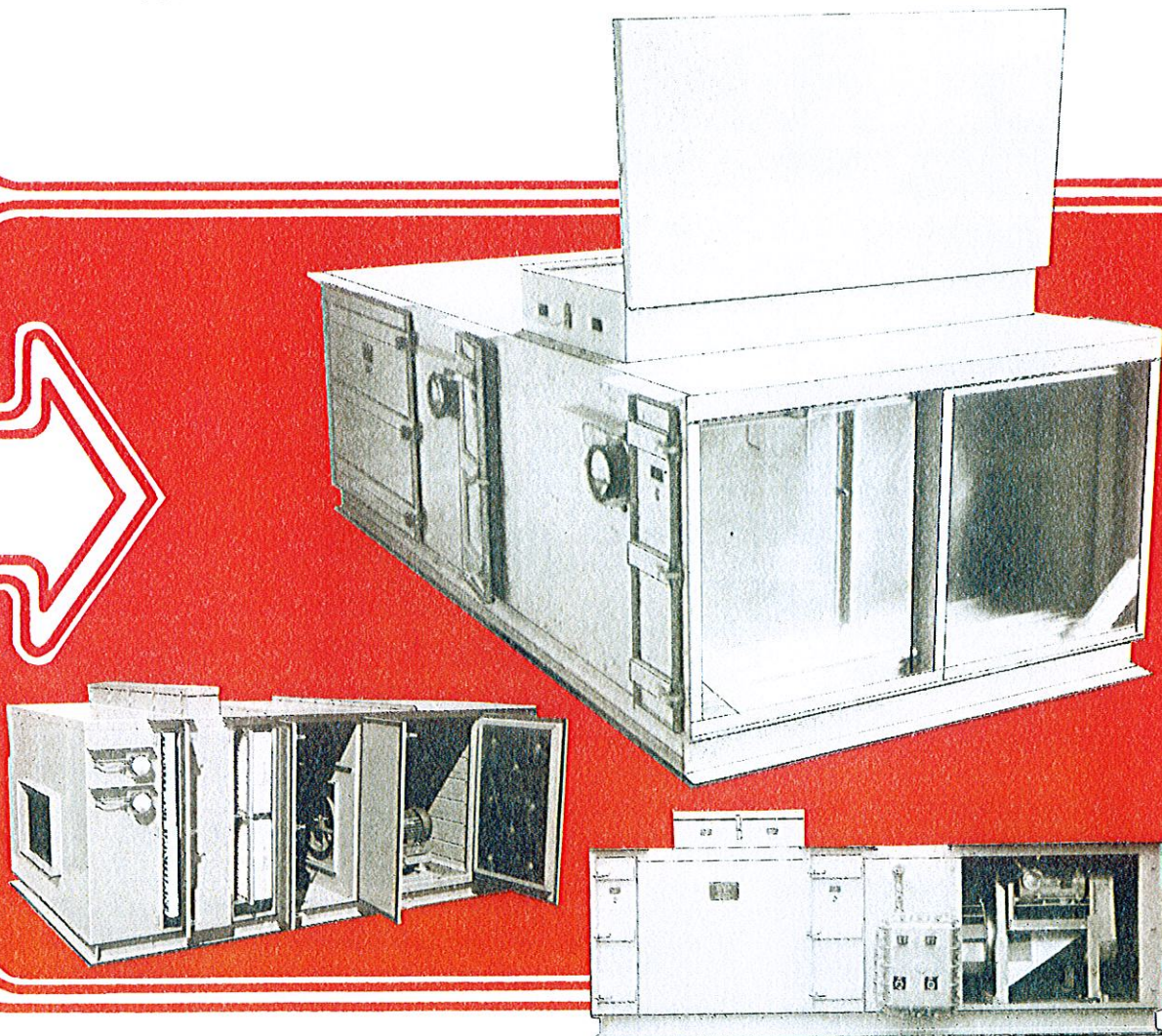


*Air* → **SEAL**  
**CHEMICAL**  
**MEDIA**  
**BULK-FILL**  
**SCRUBBERS**

**IN YOUR CHOICE OF  
THREE MEDIA BED DEPTHS**



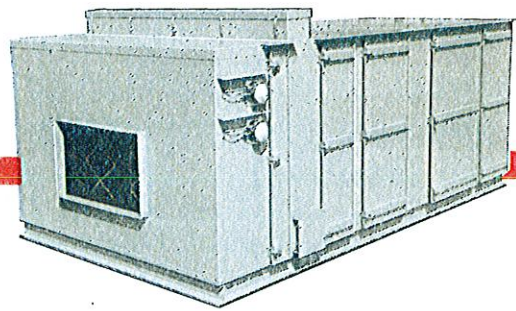
*Over fifteen years of exclusive fabrication of Air Filtering Equipment.*

## Air Seal's CHEMICAL MEDIA BULK-FILL SCRUBBER

*DESIGNED FOR GAS-PHASE FILTRATION  
IN REFINERIES, CHEMICAL PLANTS, AND  
PULP AND PAPER MILLS.*

Air Seal's completely packaged scrubbers are used extensively for the protection of process computers, electronic equipment, and in some cases for odor control.

Media beds of pelletized gas-phase chemical media are used. The media is a combination of potassium permanganate and alumina. Standard design is for two beds. In some applications a third bed of activated carbon is used. Both pre and post particulate filters are used.

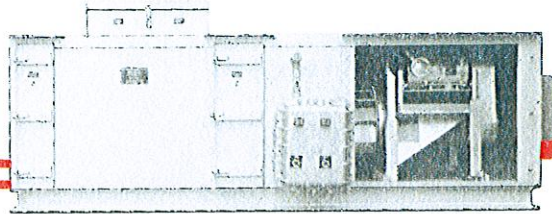


Air Seal's expertise and 15 years experience, is in the fabrication of standard and custom designed air filtration equipment.

By combining the expertise of your systems design engineer with our expertise in fabrication, a top quality air filtration scrubber is produced.

The Air Seal Scrubber offers a range of sizes, bed depths, and construction materials not found in most. Listed below are some of the Air Seal features.

Contact factory for complete submittals.



## WITH AIR SEAL'S SCRUBBERS YOU HAVE CHOICES... CHOICES THAT ALLOW YOU A MORE FLEXIBLE SYSTEM DESIGN

### YOU HAVE A CHOICE OF (3) CHEMICAL MEDIA BED DEPTHS.

Air Seal offers standard housings in 6" and 9" bed depths in addition to the 12" bed depths. By selecting either of these shallower bed depths, power requirements and the amount of chemical media required can be cut up to 50%.

### YOU HAVE A CHOICE OF (4) DIFFERENT METALS OF CONSTRUCTION.

Fabrication is standard in aluminum, 304 stainless steel, 316 stainless steel and galvanized steel.

### YOU HAVE A CHOICE OF (9) SIZES WITH AIR SEAL SCRUBBERS

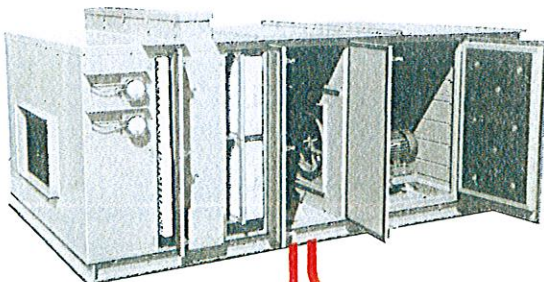
Both draw thru and blow thru scrubbers are standard in a range from 500 cfm to 4600 cfm. For dimensions and performance data consult factory.

### YOU HAVE A CHOICE OF (2) DESIGN VELOCITIES.

Standard scrubbers are offered in a design velocity of 100 fpm across the media beds. 60 fpm velocities are offered for areas with extremely high contaminations.

### YOU HAVE A CHOICE OF CUSTOM DESIGN.

When the above standard scrubbers do not fit your design criteria...we'll custom fabricate any size and design you desire.



## ADD ANY OF THESE "OPTIONS" TO ANY AIR SEAL SCRUBBER

WEATHER HOODS  
RAIN LOUVERS  
MIXING BOXES  
VIBRATION ISOLATION  
REDUNDANT FANS  
BACKDRAFT DAMPERS  
MOTOR STARTERS

INSULATION  
LIFTING LUGS  
AIR MEASURE STATIONS  
EXPLOSION PROOF MOTORS  
FILTER GAGE ENCLOSURES  
STAINLESS TUBING FOR GAGES

**THESE QUALITY FEATURES  
ARE BUILT INTO EVERY  
AIR SEAL CHEMICAL MEDIA  
BULK-FILL SCRUBBER**

**STAINLESS STEEL  
LATCHES**

Filter access doors have positive pressure trip lock latches for a tight seal and easy access.

**STAINLESS STEEL  
SWING BOLT LATCHES**

Fan section access doors have bolt-down, quick release knurled knob latches.

**ALL METAL TO METAL  
COMPONENTS SEALED**

After fabrication is complete, a silicone compound is applied to areas where metal meets metal, assuring a sealed housing.

**FULLY GASKETED  
ACCESS DOORS**

Perimeter of doors is gasketed with resilient rubbergasketing, assuring a complete seal when doors are closed.

**MEDIA BED SECTIONS**

Construction is of perforated stainless steel (304). Braced and supported by stainless steel components

**FILTER GAGES**

Dwyer gages read the pressure drop across the prefilters and final filters.

**LOADING HOPPERS**

Hinged top handle for easy access. Hopper is 10" high. This prevents excess media from "settling" causing air bypass.

**STAINLESS STEEL  
HINGES**

Stainless hinges are used for all applications.

**RUGGED CONSTRUCTION**

Heavy gauge materials in stainless steel, aluminum, and galvanized steel are used. Fasteners are of stainless steel and zinc coated steel. Seam welding available.

**BLOWER UNITS**

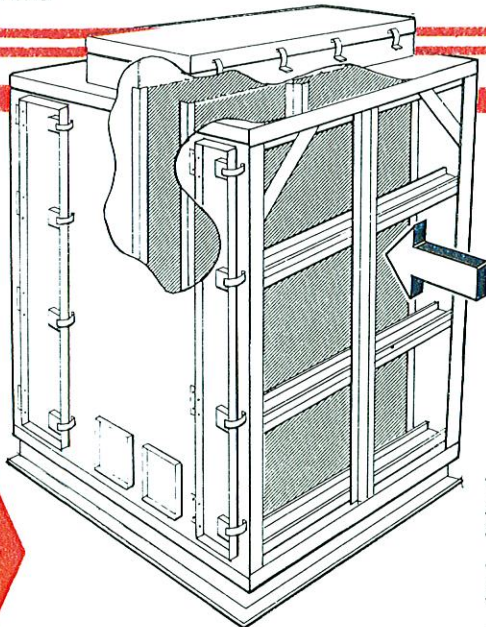
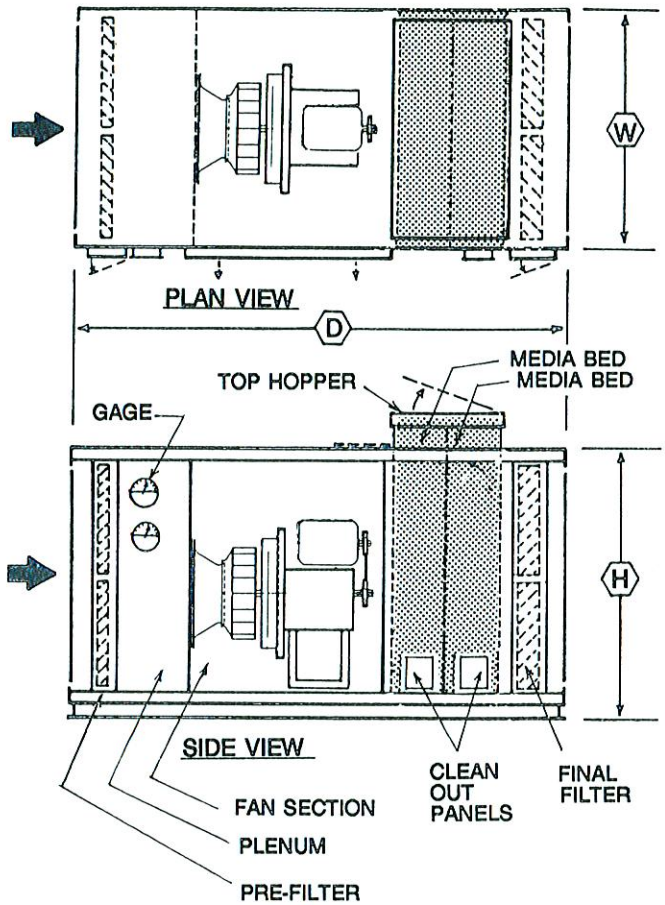
Industrial quality plug fans are used with air foil aluminum wheels and TEFC motors.

**FILTER TRACKS ARE  
EXTRUDED ALUMINUM**

A corrosion resistant seal is achieved with a woven nylon pile seal in the extruded tracks.

**"CLEAN-OUT" PANELS**

Lift-off panels at bottom of media beds for convenient media removal.



**AIR SEAL'S**

**CHEMICAL MEDIA "BULK-FILL"  
FILTER HOUSING**

**THE SAME BASIC FILTER SECTION OF THE  
AIR SEAL SCRUBBER...TO GIVE YOU MORE  
OPTIONS IN THE SYSTEM DESIGN.**

The Air Seal Chemical Media Filter Housing is for systems with existing supply fans...or for an application where the engineer wishes to design a special supply air source. (Usually with other filtering equipment tied in.)

The Air Seal unit offers a space saving and economical alternative to normal scrubber applications.

The same construction, materials, and features are the same on our Chemical Media Filter Housing as those on the Air Seal Scrubber.

## SCRUBBER DATA

MODEL NO	CFM AT FPM	CFM AT FPM	HOUSING SIZE	POUNDS OF CHEMICAL MEDIA REQUIRED PER BED SCRUBBER OR FILTER HOUSING			POUNDS OF ACTIVATED CARBON REQUIRED PER BED SCRUBBER OR FILTER HOUSING		
				POUNDS PER 12" BED DEPTH	POUNDS PER 9" BED DEPTH	POUNDS PER 6" BED DEPTH	POUNDS PER 12" BED DEPTH	POUNDS PER 9" BED DEPTH	POUNDS PER 6" BED DEPTH
142	810	500	2 x 1	500	375	250	320	240	160
143	1220	710	2 x 1 1/2	750	563	375	480	360	240
144	1590	950	2 x 2	1000	750	500	640	480	320
154	2000	1200	2 1/2 x 2	1200	900	600	768	576	384
164	2420	1420	3 x 2	1400	1050	700	896	672	448
165	3040	1780	3 X 2 1/2	1750	1313	875	1120	840	560
166	3580	2170	3 X 3	2100	1575	1050	1344	1008	672
176	4220	2510	3 1/2 X 3	2400	1800	1200	1536	1152	768
168	4900	2900	3 X 4	2800	2100	1400	1792	1344	896

## WEIGHTS...Scrubbers and Filter Housings

*Weights are shown in: 080 Aluminum, 14 ga. Galvanized Steel, and 16 ga. Stainless Steel. Weights do not include Filters or Chemical Media.*

MODEL NO.	SCRUBBER TWO-PASS WEIGHTS			SCRUBBER THREE-PASS WEIGHTS			FILTER HOUSING TWO-PASS WEIGHTS			FILTER HOUSING THREE-PASS WEIGHTS		
	ALUM. WT.	GALV. WT.	STAIN. STEEL WT.	ALUM. WT.	GALV. WT.	STAIN. STEEL WT.	ALUM. WT.	GALV. WT.	STAIN. STEEL WT.	ALUM. WT.	GALV. WT.	STAIN. STEEL WT.
142	347	927	540	453	974	593	220	387	331	290	447	391
143	469	1096	726	591	1090	766	243	407	349	308	472	414
144	551	1253	854	667	1288	901	275	482	396	345	552	466
154	689	1539	1067	860	1619	1103	320	502	461	395	607	577
164	777	1678	1204	972	1710	1259	354	607	510	444	697	598
165	961	2011	1490	1119	2046	1539	448	810	645	563	925	760
166	1087	2236	1684	1270	2300	1746	501	924	720	625	1049	845
176	1203	2401	1864	1451	2498	1919	570	1004	821	720	1154	971
168	1342	2651	2080	1598	2691	2161	644	1163	927	819	1339	1102

## DIMENSIONS...Scrubbers and Filter Housings

MODEL NO.	SIZE	SCRUBBER OR FILTER HOUSING HEIGHT	SCRUBBER OR FILTER HOUSING WIDTH	SCRUBBER DEPTHS			FILTER HOUSING DEPTHS		
				TWO-PASS SCRUBBER WITH 12" BEDS.....	TWO-PASS SCRUBBER WITH 9" BEDS.....	TWO-PASS SCRUBBER WITH 6" BEDS.....	TWO-PASS HOUSING WITH 12" BEDS.....	TWO-PASS HOUSING WITH 9" BEDS.....	TWO-PASS HOUSING WITH 6" BEDS.....
142	2 x 1	54.5"	24"	110"	104"	98"	44"	38"	32"
143	2 x 1.5	54.5"	36"	118"	109"	100"	56"	47"	38"
144	2 x 2	54.5"	48"	118"	109"	100"	56"	47"	38"
154	2.5 x 2	67"	48"	118"	109"	100"	56"	47"	38"
164	3 x 2	79"	48"	118"	109"	100"	56"	47"	38"
165	3 x 2.5	79"	59"	118"	109"	100"	56"	47"	38"
166	3 x 3	79"	71"	118"	109"	100"	56"	47"	38"
176	3.5 x 3	91"	71"	118"	109"	100"	56"	47"	38"
168	3 x 4	79"	94.5"	118"	109"	100"	56"	47"	38"

NOTE: HOPPER ADDS 10" TO HEIGHT.

### AIR SEAL FILTER HOUSINGS, INC.

1112 STAFFORDSHIRE RD.  
STAFFORD, TEXAS 77477

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