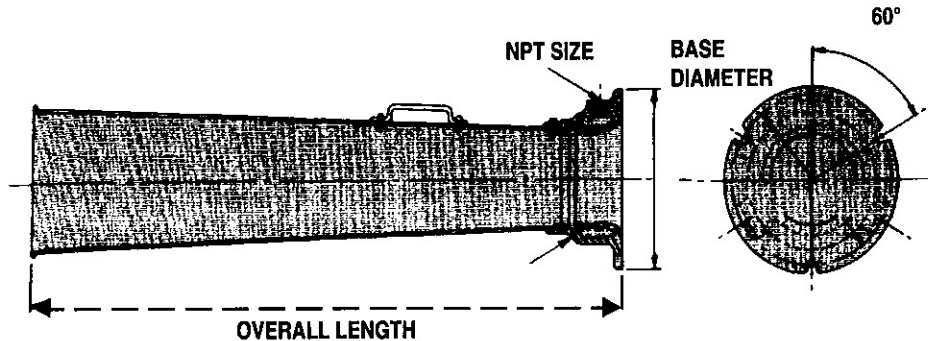
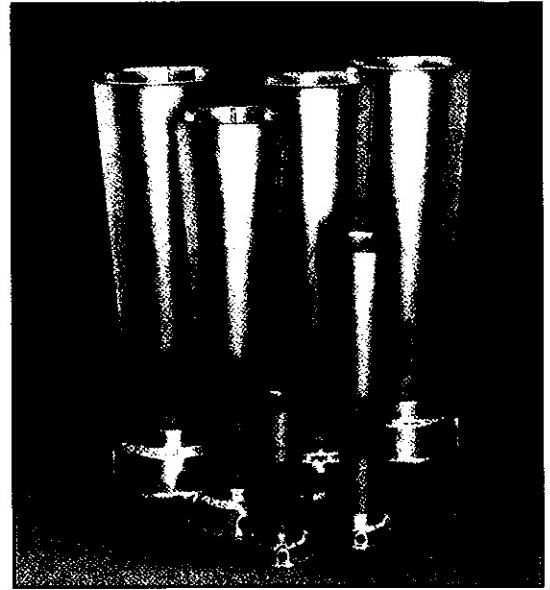


# Venturi Type Air Movers

- ★ **No moving parts.**
- ★ **Used for venting hazardous areas.**
- ★ **Maintenance is minimal.**
- ★ **Can be used as a blower or exhauster.**
- ★ **Operates on compressed air or steam.**
- ★ **Connection for ground wire.**
- ★ **Tested at an independent laboratory to AMCA Standard 210, equaling or exceeding the air flow of competitively manufactured air movers!**



AMERICAN STANDARD MEASUREMENTS								
	INSIDE DIAMETER OF BASE	OVERALL LENGTH	OUTSIDE DIAMETER OF BASE	DIAMETER OF TOP OF HORN	NPT SIZE	BOLT CIRCLE DIAMETER	BASE SLOT DIAMETER	NET WEIGHT
TX3AMS	3"	16.75"	7.31"	6.0"	1/2"	6.56"	0.4	5.5 lb.
TX3AM	3"	30.5"	7.31"	7.0"	1/2"	6.56"	0.4	8.5 lb.
TX6AM	6"	44.25"	11.25"	12.5"	1"	10.5"	0.4	22.3 lb.
TX8AM	8"	46.06"	14.37"	14.25"	1"	13.62"	0.5	36.0 lb.
TX10AM	10"	48.0"	17.0"	15.75"	1"	15.5"	1.0"	42.1 lb.

**Oil removal from the compressed air used to power the venturi type air mover**

If this air mover is used in a plant and the air is going back into the atmosphere and will be breathed by the workers, then certain precautions can be taken to improve the breathability of the air.

First, the air in the plant may have a normal 5 ppm oil content. If the compressor is pumping a lot of oil into the compressed air supply, then you have compressed air which is contaminated with high oil content going into the atmosphere.

To remedy that situation, you use a coalescing filter system between the compressor and your air mover inlet:

*Order TSF1/2 filter system for the TX3AMS and TX3AM, TSF1 for the TX6AM, and TSF1-1/2 for the TX8AM, TX10AM. This will ensure an air quality index of .015 ppm from your compressed air supply. That solves the problem. See page 134.*

# Venturi Type Air Movers

## USAGES OF VENTURI TYPE AIR MOVERS

### *Petroleum Processing*

#### ★ Refineries and Chemical

Turnarounds or shutdowns are performed periodically to refurbish and overhaul units of both chemical plants and refineries. Fumes must be removed that are sometimes poisonous, explosive or noxious from process towers, tanks, large pipes, etc. before men can work effectively in these areas. Air movers can also be used to cool heavy equipment that may be in danger of overheating or that needs to be cooled in order to be worked on. In super-hot areas, sometimes the air movers are used to cool personnel.

### *Power Plants*

#### ★ Utilities and Co-generation Units

Heavy-duty turbines, both steam and gas, induced draft fans and hot furnaces that may require emergency repairs can be cooled quickly with the use of air movers. To cool enclosed machinery, you can exhaust hot air from one side and use another air mover to move cooler air in from the other side.

#### ★ Metal Fabrication of Tanks, Towers and Vessels

Welding in confined spaces creates welding gases that have to be removed in order to have a safe, healthy working environment for greater efficiency and productivity.

#### ★ Paper and Pulp Plants

Toxic gases in digester rooms can be removed with air movers. Boilers with induced draft fans can be cooled for maintenance of fans with air movers. Fresh air can then be blown to personnel working on them.

#### ★ Shipyards

Air movers are used many times to remove welding fumes from the welder working in a confined area. The TX3AMS is used for this purpose at one of the larger yards on the Gulf Coast. Blowing fresh air into confined areas is another use.

#### ★ Marine Industry

Any time you need to exhaust volatile fumes after pumping off cargo, you have to use some type of air moving device. Air movers are used many times for this application. Navy ships can use air movers for removal of welding fumes. If there is ever a fire below deck, smoke and fumes created could be exhausted with air movers.

#### ★ Steel Industry

Air movers are used to cool hot iron ladles - faster cooling means less downtime - faster routine cleaning and maintenance. Air movers are used to cool heavy equipment.

#### ★ Manhole Operations

Air movers can be used to move fresh air into a manhole or to pull polluted air out from a manhole. Uses of the air movers are not limited to a few industries. Wherever you need to disperse fumes, move air into confined spaces, cool personnel working in elevated temperature conditions, or cool machinery or products with a blast of directed air, then an air mover may find an application.

**1**

## Entertainment Venues

While this product was developed for industry, a company in Florida adapted the Venturi Air Horns to CO<sub>2</sub> bottled gas and has placed them around the world to move confetti. They are used for that purpose at Euro-Disney, Disney in Florida, Winter Olympics, NFL Games, Macy's Parade and many more events too numerous to mention.

For your town's parades or events, you might want to consider using the Venturi Air Horns in like manner.

# Venturi Type Air Movers



**\* NEW MODELS**

**TX-6AM-SS ALL STAINLESS STEEL  
TX-6AM-STAINLESS HORN / ALUMINUM BASE**

**1**

Air movers, or air horns, are used wherever there is a need to disperse fumes, move air into confined spaces, cool men working in elevated temperature conditions, or cool machinery or products with a blast of directed air. Common applications are found in refineries, chemical plants, utilities and cogeneration units, metal fabrication plants, paper and pulp plants, shipyards, the marine industry and the steel industry.

**\* Complete with grounding wire & crowsfoot**

**5 Models Available  
1182 CFM to 7304 CFM  
(at 80 PSIG)**

**Total Air Flow and Consumed Air at Various Inlet Pressures  
American Standard Measurements**

Texas Pneumatic air movers have been tested at an independent laboratory. The free flow ratings listed are based on tests to AMCA Standard 210. Under identical testing situations, Texas Pneumatic air movers equalled or exceeded the air flow of competitively manufactured air movers.

The free air Induction ratio is a measure of efficiency of a venturi type air mover. The ratio is determined by dividing the total CFM discharged by the amount of air consumed. The accuracy of the figures of the free air Induction ratio depends again on the accuracy of the method of testing. All free flow ratings of Texas Pneumatic air movers are based on tests to AMCA Standard 210.

INLET PRESSURE				
	40 PSIG	60 PSIG	80 PSIG	100 PSIG
	Total Air Flow	Total Air Flow	Total Air Flow	Total Air Flow
TX3AMS	815 CFM	981 CFM	1182 CFM	
TX3AM	1017 CFM	1231 CFM	1462 CFM	
TX6AM	2385 CFM	2885 CFM	3347 CFM	
TX8AM	3152 CFM	4152 CFM	4929 CFM	
TX10AM	4898 CFM	6182 CFM	7304 CFM	8220 CFM
	Air Consumed	Air Consumed	Air Consumed	
TX3AMS	36 SCFM	50 SCFM	62 SCFM	
TX3AM	35 SCFM	45 SCFM	62 SCFM	
TX6AM	73 SCFM	98 SCFM	124 SCFM	
TX8AM	114 SCFM	152 SCFM	193 SCFM	
TX10AM	154 SCFM	209 SCFM	274 SCFM	329 SCFM
FREE AIR INDUCTION RATIOS AT VARIOUS INLET PRESSURES				
Dividing total air flow discharged by amount of air consumed				
TX3AMS	22.64	19.62	19.06	
TX3AM	29.06	27.36	23.58	
TX6AM	32.69	29.44	26.99	
TX8AM	27.65	27.32	25.54	
TX10AM	31.80	29.58	26.66	