



## AIRDRAULIC BIRCO GROUP PTY LTD

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A B N 47 002 890 477

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# VENTURI AIR MOVER



## OPERATION

Compressed air or saturated air steam is the power source for this air mover.

It operates on the venturi principle whereby you take small volumes of high velocity air (from the compressed air source) through the casting and out the nozzle jets, creating a venturi action or pulling action that induces large volumes of low velocity air through the venturi and out the diffuser.

A 25mm hose is recommended from your air supply source to the side inlet connection. The compressor size required can be determined by checking the chart on air consumed at various inlet pressures.

Operation of these air movers on air or steam is limited to 140 psi.



## SAFETY PRECAUTIONS

An electric ground or static ground is attached to the base of all air movers. Any time you are using this air mover in a volatile atmosphere, attach a ground wire to discharge any static electricity.

Air movers have no moving parts and are ideal for venting hazardous areas. The bases are made from high quality aluminum alloy. Aluminum scraped across rusty steel can sometimes cause a smear of aluminum on steel (being struck with an object) can cause an incendiary spark. Take precautions not to drag the base on steel tanks, etc.

While there are no moving parts to the air mover, all of the performance ratings in this brochure are based on a unit that had a clean air reservoir and nozzle jets that are of the proper diameter and not plugged up in any way. Care should be taken to prevent clogging of the nozzle jets and a periodic cleaning with a steam cleaner would be appropriate maintenance. Secure the air mover in place prior to turning on the air supply or it will tend to move from its intended position.

Texas Pneumatic air movers have been tested at an independent laboratory. Total air flow or free flow ratings are based on tests to AMCA Standard 210. Under identical testing situations.

## TOTAL AIR FLOW AND CONSUMED AIR AT VARIOUS INLET PRESSURES

INLET PRESSURE				INLET PRESSURE			
	40PSIG	60PSIG	80PSIG		40PSIG	60PSIG	80PSIG
	Total air flow	Total air flow	Total air flow		Air consumed	Air consumed	Air consumed
<b>TX3AMS</b>	815 CFM	981 CFM	1182 CFM	<b>TX3AMS</b>	36 SCFM	50 SCFM	62 SCFM
<b>TX3AM</b>	1017 CFM	1231 CFM	1462 CFM	<b>TX3AM</b>	35 SCFM	45 SCFM	62 SCFM
<b>TX6AM</b>	2385 CFM	2885 CFM	3347 CFM	<b>TX6AM</b>	73 SCFM	98 SCFM	124 SCFM
<b>TX8AM</b>	3152 CFM	4152 CFM	4929 CFM	<b>TX8AM</b>	114 SCFM	152 SCFM	193 SCFM
<b>TX10AM</b>	4898 CFM	6182 CFM	7304 CFM	<b>TX10AM</b>	154 SCFM	209 SCFM	274 SCFM

## DISTRIBUTORS OF:

\*Edco Surface Preparation Tools \*Macdonald Air Tools \*Timberking Chainsaws \*Rock Drills \*Drilling Equipment \*Picket Post Driver \*Air Hose & Fittings  
 \*Compressors \*ASL Lubricators \* Stone Compaction Equipment \*Electric & Pneumatic Points & Chisels \*Pedestal & Wall Fans \*Mancoolers & Tube Fans  
 \*VAF Fans \*Venturi Air Movers \*Gas Heaters \*Submersible Pumps \*Transfer Pumps \*Puddle Pumps \*Layflat hose and fittings \*Bauers & Camlocks  
 \*Blast Hole Plugs \*Anfo Loaders \*Slopemeters \*Schroeder Hydraulic Filters & Elements \*CBC Reversing Cameras \*Reversing Alarms \*Osha Safety Valve



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### USAGES OF VETURI TYPES 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 down in order to be worked on. In super hot areas, sometimes the air movers are used to cool men.

- Power Plants**

#### Utilities and Cogeneration 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 be blown to men working on them.

- Shipyards**

Air movers are used many times to remove welding fumes from the welder working in a confined area.

- 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 coolers 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 dispense fumes, move air into confines spaces, cool men working in elevated temperature conditions, or cool machinery or products with a blast of directed air, and then an air mover may find an application.

#### STANDARD MEASUREMENTS

Model	Overall Length mm	Diameter Base mm	Diameter Top to Horn mm	Bolt Circle Diameter mm	Base Slot Diameter mm	Net Weight kg	BSP Size
TX3AMS	425	186	150	166.6	10	2.5	1/2"
TX3AM	778	186	178	166.6	10	3.85	1/2"
TX6AM	1125	286	318	266.7	10	10.1	1"
TX8AM	1170	365	362	346	12.5	16.3	1"
TX10AM	1220	432	400	393.7	25	19.0	1"

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