

## VARIMIX

### AIR OPERATED VARIABLE MIX AND DISPENSE SYSTEM



**PLEASE READ THIS MANUAL CAREFULLY BEFORE OPERATING, ADJUSTING OR SERVICING THIS EQUIPMENT**

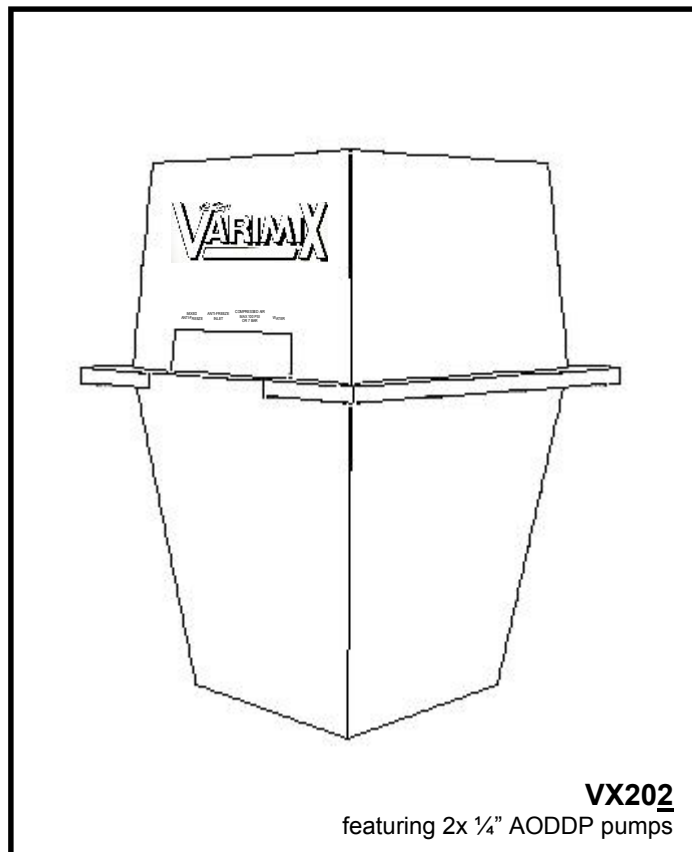
It is the responsibility of the employer to place this information in the hands of the operator. Keep for future reference.

#### VARIMIX DATA

<b>Pump Model</b>	See model chart below.
<b>Pump Type</b>	Non-metallic Air Operated Double Diaphragm.
<b>Pump Materials</b>	Polypropylene, Santoprene.
<b>Varimix Materials</b>	Fibreglass, Polypropylene.
<b>Pump Weight</b>	See specifications on page 4.
<b>Varimix Weight</b>	See model chart below.
<b>System Weight</b>	See specifications on page 4.
<b>Max. Air Inlet Pressure</b>	100 psig (6.9 bar)
<b>Min. Air Inlet Pressure</b>	20 psig (1.4 bar)
<b>Max. Outlet Pressure</b>	100 psig (6.9 bar)
<b>Max. Flow Rate</b>	See specifications on page 4.
<b>Max. Suction Lift</b>	See specifications on page 4.
<b>Max. Output per Cycle</b>	See specifications on page 4.
<b>Max. Particle Size</b>	See specifications on page 4.
<b>Max. Temp. Limits</b>	35° - 150° F (2° - 66° C)
<b>Pump Dimensions</b>	See specifications on page 4.
<b>Varimix Dimensions</b>	See specifications on page 4.
<b>Storage Capacity</b>	See model chart below.
<b>Noise Levels @ 70psi</b>	59.8 - 71.1db(A) * +

\* The pump sound pressure levels published here have been updated to an Equivalent Continuous Sound Level (L<sub>aeq</sub>) to meet the intent of ANSI S1.13-1971, CAGI-PNEUROPS5.1 using four microphones

+ Levels stated are per pump. As quoted by ARO/Ingersoll-Rand, expect a level reduction due to outer Varimix Case

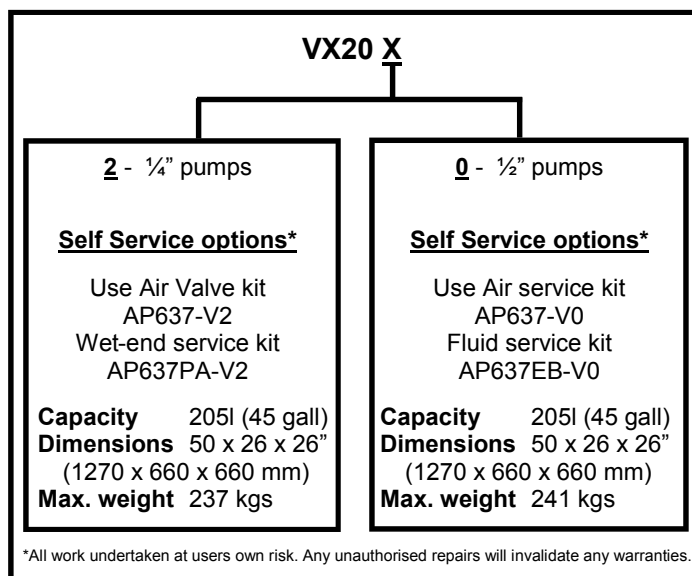


#### GENERAL DESCRIPTION

The Varimix VX unit is a high volume mix-on-demand system offering high product delivery at low air pressures, easy self-priming and the ability to pump various viscosity materials, ideal for mixing anti-freeze or diluting strong liquids.

As authorised distributors of ARO/Ingersoll-Rand, Air Pumping utilise two of the highly acclaimed ARO double diaphragm pumps per Varimix unit. With each pump running between 20 and 100psi, the combination of the two units allows a precise mix at any rate.

The pumps utilise a pressure differential in the air chambers to alternatively create suction and positive fluid pressure in the fluid chambers. Pump cycling will begin as air pressure is applied and it will continue to pump and keep up with the demand. It will build and maintain line pressure and will stop cycling once the maximum line pressure is reached (or the dispensing device is shut off) and will then resume pumping as needed.



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## HEALTH & SAFETY PRECAUTIONS

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PLEASE READ AND FOLLOW THIS INFORMATION TO AVOID PERSONAL INJURY AND PROPERTY DAMAGE

### **WARNING!**

Excessive Air Pressure can cause personal injury, pump damage or property damage.

DO NOT exceed the maximum inlet air pressure as stated.

Be sure material hoses and other components are able to withstand fluid pressures developed by this pump.

Check all hoses for damage or wear.

Be certain dispensing device is clean and in proper working condition.

### **WARNING!**

Hazardous Pressure can result in serious injury or property damage.

DO NOT service or clean pumps, hoses or dispensing valve while the system is pressurised.

Disconnect air supply line and relieve pressure from the system by opening dispensing valve or device and/or carefully and slowly loosening and removing outlet hose or piping from pump.

Disconnect air line from the system when idle for long periods of time.

### **WARNING!**

Excessive air pressure can cause pump damage, personal injury or property damage

A Filter capable of filtering out particles larger than 50 microns should be used on the air supply.

There is no lubrication required.

If lubricated air *is* present, make sure that it is compatible with the Nitrile "O" rings in the air motor section of the pump.

### **WARNING!**

Hazardous Materials can cause serious injury or property damage.

DO NOT attempt to return a pump to the factory or service centre that contains hazardous material. Safe handling practises must comply with local and national laws and safety code requirements.

### **CAUTION!**

Verify the chemical compatibility of the pumps wetted parts and the substance being pumped, flushed or re-circulated. Chemical compatibility may change with temperature and concentration of the chemicals within the substances being pumped.

### **CAUTION!**

Maximum temperatures are based on mechanical stress only. Certain chemicals will significantly reduce maximum safe operating temperature.

### **CAUTION!**

Be certain all operators of this equipment have been trained for safe working practices and understand the systems limitations.

Prevent unnecessary damage to the pumps.

DO NOT allow pumps to operate when out of material for long periods of time.

Use only specified replacement parts to assure compatible pressure rating and longest service life.

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### **WARNING!**

Hazards or unsafe practises which could result in severe personal injury, death or substantial property damage

### **CAUTION!**

Hazards or unsafe practises which could result in minor personal injury, product or property damage



