AIR DRIVE
OWNER'S MANUAL

EvenMix® True 3D Mixing

Superior Mixing Performance

QUICK START

01 Connect to the Mixer

02 Install into Container

03 Attach Compressed Air

04 Open Air Valve Slowly



Optimum performance of the Even Mix® Air Drive is achieved when it is supplied with clean air regulated between **40 PSI to 90 PSI. Pressure should not exceed 140 PSI.**

The Even Mix® Air Drive requires a **hose diameter of 3/8"** for **lengths up to 25' and 1/2" for lengths up to 50'** and has **air consumption of 13 SCFM** (Standard Cubic Feet per Minute).

The tool **should be supplied air through a FRL** (Filter, Regulator, & Lubricator) that has a flow rating capable of supplying the air motor with sufficient air pressure and volume so that the desired torque and RPM can be achieved.

To extend the Air Motor life, a good quality oil specifically for use in pneumatic tools, should be used. **Lubricating oils that contain cleaning or anti-gumming agents should not be used**. These additives may cause malfunction.



PREVENTIVE MAINTENANCE

Lubricate the air motor with **a drop of Air Motor Oil directly** into the incoming air motor port **once a week** with pneumatic tool oil.



SLOW OR REDUCED PERFORMANCE

Remove the Incoming Air Filter (#9520-90002) and the **Exhaust** (#9520-91001) to inspect for clogging.

Often material from the air lines becomes caught in the air filters which requires them to be replaced.

They are effectively doing their job at catching particulate before it enters and fouls the air rotor.

Note: Please call us for replacement parts.

OUTPUT STOPS

First **ensure that the air motor is receiving air** as described above by clearing the air filter and exhaust.

Try to free the output by turning it back and forth gently with a wrench. Occasionally debris can become lodged in the air motor and you can break it free.

If you need to separate the air motor and the gear box to inspect them, remove the Gear Housing (#3200-40650) from the Air Motor Housing (#5223-02650).

It is a Right-Hand Thread. Do not remove the End Housing (#1215-06500).

See if the gear box is turning free and if the air motor is turning free. You can isolate the issue from that point.

When joining the Gear Housing (#3200-40650) with the Air Motor Housing (#5223-02650) ensure that the hex output of the Rotor (#1110-00025) properly mates with the Pinion Gear (#3100-40193) before tightening.

AIR DRIVE – LIMITED WARRANTY

Even Mix® warrants the Even Mix® Air Drive against defects in material and workmanship for 1 (one) Year from the original purchase date of the air drive. Without charge to the original purchaser, Even Mix®, at its option, will repair or replace any air drive or component part if it is found to be defective or not in accordance with Even Mix® Engineering specifications in effect at the time of manufacture and said air drive or component part is in active commercial production by Even Mix®. Without charge to the original purchaser, Even Mix® will also, at its option, repair or replace any air drive or component part in the event of a failure due to wear encountered in normal operation under typical specified conditions where typical maintenance procedures have been observed if such failure occurs within 1 (one) year of the original purchase date of the mixer. The air drive is to be returned to Even Mix®'s factory with shipping charges prepaid.

This warranty will not apply to any air drive which has been misused, misapplied, modified or has been subjected to negligence or has been damaged by accidental misuse or other damage by accidental occurrences; or in which parts not manufactured by or specified by Even Mix® have been used for repair; or which shall have been repaired or altered by other than Even Mix® authorized personnel in such a manner, as determined by Even Mix®, that the function of the air drive has been affected.

THIS WARRANTY CONSTITUTES THE ENTIRETY OF THE OBLIGATION OF Even Mix® RELATIVE TO THE SALE AND USE OF SAID PRODUCTS AND ITS MAXIMUM LIABILITY IS LIMITED TO THE PURCHASE PRICE OF THE PRODUCT. IN NO EVENT WILL Even Mix® BE LIABLE FOR CONSEQUENTIAL, INDIRECT, INCIDENTAL, SPECIAL OR PUNITIVE DAMAGES ARISING FROM THE USE OR SALE OF SUCH PRODUCT.

AIR SYSTEM
REQUIREMENTS & RECOMMENDATIONS

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Operating Requirements

- Recommended Operating Pressure: 90 PSI (regulated at point of use) – Approx. 150 RPMs with ball-valve fully open
  - Minimum Operating Pressure: 40 PSI (regulated at point of use) – Lowers RPMs
  - Maximum Operating Pressure: 130 PSI (regulated at point of use) – Raises RPMs

  *The unit can operate above 90 PSI; however, higher pressures may accelerate wear and reduce service life.
- Air Consumption: 13 SCFM minimum
- Recommended Compressor Capacity: 16–18 SCFM @ 90 PSI

Air Quality Requirements

- Air Consumption: 13 SCFM minimum
- Pressure Dew Point: ≤ 35°F (minimum – refrigerated dryer required)
- Particulate Filtration: ≤ 5 micron (minimum), 1 micron (recommended)
- Air must be completely free of visible moisture, condensate, rust, scale, dirt, debris, or oil carryover

Required System Components

- Aftercooler (if not integrated with compressor)
- Refrigerated air dryer (minimum) or desiccant dryer
- Inline filtration system (particulate + coalescing recommended)
- Filter / Regulator / Lubricator (FRL) at point of use
- Receiver tank (minimum 60 gallons; 80 gallons preferred)

Recommended System Configurations

★☆☆
GOOD (Minimum Acceptable)

- Compressor with aftercooler
- Refrigerated air dryer
- 5-micron particulate filter
- FRL at mixer

★★☆
BETTER (Recommended for Most Facilities)

- 60–80 gallon receiver tank
- Properly sized refrigerated dryer
- 1-micron coalescing filter + pre-filter
- Automatic drains on tank and filters
- FRL at point of use

★★★
BEST (Critical / High-Uptime Applications)

- Full air treatment system with aftercooler and moisture separator
- Desiccant dryer or high-performance refrigerated dryer
- Multi-stage filtration: 5 micron particulate, 1 micron coalescing, 0.01 micron oil removal (if required)
- Dedicated air drop to mixer
- 80+ gallon receiver or plant air system

System Performance Note

The receiver tank provides short-term buffering only. Continuous operation is dependent on compressor SCFM capacity—not tank size.

IMPORTANT

Not Having a Proper Air System Can Result in

Reduced mixer performance
Premature wear of internal components
Increased maintenance requirements
Potential air drive failure

AIR SYSTEM
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Warranty Disclaimer

Performance issues, damage, or failures resulting from improper or inadequate air supply—including air systems that do not meet EvenMix's specified requirements for cleanliness, dryness, and filtration—shall be considered misuse or misapplication and are not covered under the 1-year limited warranty.

Field Guidance

If there is water or debris in your airline, it will go directly into the air motor. Proper drying and filtration are essential for reliable operation.

Recommended Safeguard

If air quality is uncertain, EvenMix® strongly recommends installing a point-of-use coalescing filter and dryer upstream of the mixer.

Most Common Issues We See

- Water accumulation in tank (no auto drain)
- Undersized or non-functioning dryer
- Old piping shedding rust/scale
- No air dryer installed