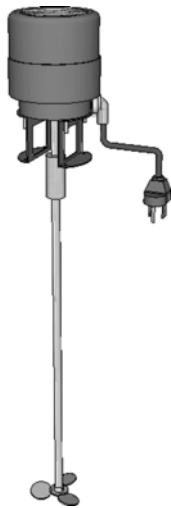


W A L C H E M

An Iwaki America Company

High Speed Industrial Mixers



High Speed Industrial Mixers Instruction Manual

**Model, Serial Number and Other Information
is recorded for you on the back of this document.**

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***** WARNING *****

- ALL FASTENERS SHOULD BE PROPERLY SECURED BEFORE OPERATION AS THEY MAY BE LOOSEMED IN TRANSIT
- PERSONNEL SAFETY PRACTICES SHOULD APPLY AT ALL TIMES
- SAFETY GLASSES OR FACE SHIELDS AND GLOVES SHOULD BE WORN AT ALL TIMES
- BEFORE START UP, ALL MOUNTING HARDWARE AND SET SCREWS, SHOULD BE TIGHTENED FOR PROPER MIXER PERFORMANCE
- ALL LIQUIDS IN SYSTEM SHOULD BE DRAINED BEFORE SERVICING

P/N 180444.A

1.0 INTRODUCTION

Thank you for choosing Walchem Chemical Mixers. This industrial, assembly comes complete and ready to install. In this document we explain the basics for locating, installing and operating this chemical mixer. For further information, please contact us

2.0 WARRANTY

Walchem Chemical Mixers are guaranteed for two years from date of shipment against manufacturing defects in material and workmanship that develop in the service for which they are designed. We will repair or replace a defective part of this system when returned to our factory with freight prepaid; providing that the part is found to be defective upon inspection. We assume no liability for labor and/or other expenses in making repairs or adjustments.

3.0 UNPACKING

Upon receipt of order, inspect package thoroughly. In the event damage occurred in transit you must notify the freight company within **3-5 days of receipt of order.** Once mixer is inspected for damage and received in good condition, store indoors until installing.

3.1 Order Verification

In order to verify receipt of correct product, use the following table and model number to identify the contents.

MODEL	
6028-	31

OPTIONS	
31	115VAC motor and cord, 34" Epoxy coated shaft and axial impeller
32	230VAC motor and cord, 34" Epoxy coated shaft and axial impeller
41	115VAC motor and cord, 19" Epoxy coated shaft and axial impeller
42	230VAC motor and cord, 19" Epoxy coated shaft and axial impeller

MODEL BASE	
6028	1/15HP flange mounted mixer, with power cord, suction tube shield and epoxy coated shaft

4.0 LOCATION AND ENVIRONMENT

All standard models come with totally enclosed motors as standard, but should be protected from harsh environmental conditions. The addition of a protective cover (an awning or shed) is recommended on outdoor applications and will prolong the life of any equipment.

5.0 INSTALLATION

Once location is decided on, chemical mixer needs to be securely mounted to frame or sturdy structure. Mixers may not be mounted directly to the wall of polyethylene tanks. Polyethylene is a flexible material and eventually will give way to the vibrations and weight of the mixer. **Be sure that anchoring bolts and wiring comply with local building codes.** The following diagrams will help provide the mixing needed. Please contact the factory for assistance.

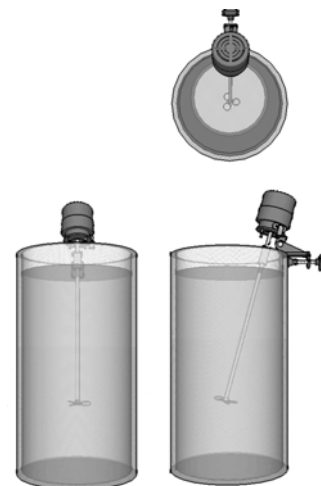
5.1 MIXER ORIENTATION

How the mixer is oriented determines the type of mixing produced.

Blending Installation (shown to right)

Note: Mixer needs to be installed at 10-15 degrees from vertical and towards center of tank. This will force fluid movement from bottom to top of tank. The mounting brackets of the mixer facilitate a standard angled mounting.

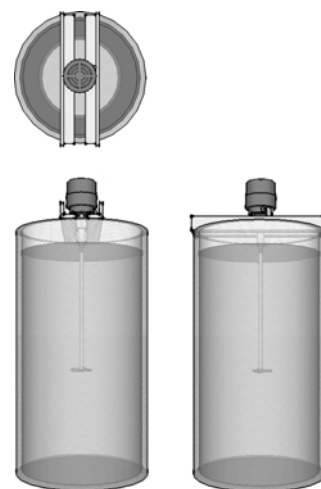
If vortexing (fluid funneling) appears, adjust the angle of the mixer towards the side wall.



Vortexing Installation (shown to right)

Note: Mixer needs to be installed vertically and in the center of the tank. This will create the best vortex and help draw in dry chemicals. Baffles can be added to the inside of the tank to decrease the vortexing.

If Dry chemicals are not being drawn in, mixer may be undersized. If dry chemicals are settling at the bottom of the tank, the mixer shaft may be too short.



5.2 MIXER SHAFT INSTALLATION

When installing the mixer shaft, align the red arrow and the setscrew dimple, and then hand tighten the shaft set screw with an Allen wrench. Be sure to check all fasteners, mounting and set screws, before start up, to ensure proper mixer performance. **DO NOT USE LOCK-TIGHT ON SET SCREW, OR SHAFT WILL NOT BE ABLE TO BE REPLACED.**

6.0 ROUTINE MAINTENANCE

Routine maintenance in this section is referred to as checking once a week until a maintenance schedule can be determined. **All fasteners should be checked for proper operations.** Maintenance and care will depend upon the usage and environment in which the chemical mixer is subject to.

Inspection of the mixer should include:

Balance – Be sure that the mixer is not shaking or wobbling

Mounting Hardware – Be sure that the mounting hardware is secure.

Shaft Integrity – Check the shaft for chemical attack.

Fluid Consistency – Check that the fluid is being mixed to your requirements.

7.0 MIXER PARTS LISTING

Contact factory for assistance.

8.0 TROUBLESHOOTING

Use a qualified electrician for trouble shooting any electrical problems. If you are having other issues or problems, please contact us at www.walchem.com.

9.0 NOTES

10.0 PRODUCT LABEL

Model:

Serial Number:
