

Instructions for Operation & Maintenance

Model CB-1 Continuous Blender

General Description

The Model CB-1 Blender is a simple and rugged continuous blender, designed to blend or mix two or more ingredients on a continuous basis. The mixing screw is designed to have a gentle "lift and fold" action, which gives a complete mix with little or no degradation of product.

The inlet section is designed per job to accept input from the pre-feed devices.

Installation

The CB-1 Blender is completely assembled on a common base plate and is ready to be put into operation. In some cases, because of its lengthened tube, a field support may be required. This requirement will be shown on the assembly drawings. Care should be taken to assure the unit is leveled.

Electrical Requirements

Standard units are supplied with an AC motor and gear box combination to allow the proper RPM of the blender screw. The motors are AC, 230/460 volt, 3 phase, 60 hertz, unless otherwise specified. All wiring and controls are by customer.

The motor must be wired to turn the screw clockwise when facing the discharge of the unit. Rotation labels are on the discharge tube.

Operation

After the unit is leveled and wired it is ready for operation. The pre-feeders and blenders should be electrically interlocked so that they start and stop in unison.

The blender must be “primed” in order to maintain the proper mix. The first few minutes of discharges material should be discarded to achieve the “prime” cycle. After this, there is no need to repeat the cycle unless the blender is allowed to run empty.

Maintenance

Because of its simple design, there is little need for maintenance. The only bearings (front and rear) are grease lubricated for life. A grease fitting is supplied, but its use is optional.

The speed reducer is also lubricated with grease and it should not need any maintenance for five (5) years of continuous duty.

The blending screw is also built to give years of service with no maintenance requirements.

The only possibility of damage is the introduction of foreign matter into the mix chamber. This may mechanically harm the screw. Also if the particles blended are highly abrasive, the screw will wear after some period of time.

If the screw must be removed, the following sequence should be followed.

1. Undo the setscrews on the forward bearing.
2. Remove the bolts from the front flange and remove it.
3. Undo the setscrews on the rear bearing and coupling half.
4. Pull screw forward until it is completely removed from the forward end of the unit. Allow enough room to allow for the removal.

To reinstall, follow the above in reverse.

WARNING: ***Keep hands clear of moving parts – serious injury can occur!***

Electrically “lock-out” motor prior to any disassembly.