

# Chem-Mix "HD" Series

## High Speed Heavy Duty Mixers

### Specification WRTNMXRHD

Written: January 2014



#### 1.0 DESCRIPTION

1.1 INDUSTRIAL HIGH SPEED MIXER: "HD" Heavy Duty Mixers Shall be manufactured by General Treatment Products, or approved equal and consist of a 1 to 2HP TEFC motor, brass coupling, enamel painted carbon steel mount, stainless steel mounting hardware, 316 stainless steel shaft and axial impeller. Mixer assembly shall be factory balanced, 115VAC wired and ready to install.

#### HIGH SPEED MIXER SIZING GRAPH (HD Mixers)

| FLUID VISCOSITY | Tank Size In Gallons |    |     |       |       |       |       |      |
|-----------------|----------------------|----|-----|-------|-------|-------|-------|------|
|                 | 50                   | 80 | 100 | 200   | 300   | 400   | 500   | 1000 |
| 1 CPS           |                      |    |     |       |       |       | 1     | 2    |
| 100 CPS         |                      |    |     |       | 1     | 1 1/2 | 1 1/2 |      |
| 300 CPS         |                      |    |     | 1     | 1 1/2 | 2     |       |      |
| 500 CPS         |                      |    | 1   | 1 1/2 |       |       |       |      |

Note: Contact GTP for tank sizes or viscosities not listed.

#### 2.0 MATERIALS

2.1 MOUNT: Mount shall be fabricated carbon steel and have stainless steel mounting hardware. Mount shall not need any special tools for installation. Mount shall be painted and primed with Alkyd enamel paint. Mounting options shall include:

- "B" Adjustable bracket mount assembly
- "C" Adjustable clamp mount assembly
- "T" 2" MNPT threaded mount assembly
- "F" Flange mount assembly
- "X" No mount assembly

2.2 MOTOR: Motor horse power shall be as stated in graph above. Motor shall be factory pre-wired for 115VAC, 1 phase, and 60 hertz, to ensure proper motor rotation. Motor shall be totally enclosed fan cooled.

- "1000" 1HP TEFC pre-wired motor
- "2000" 2HP TEFC pre-wired motor
- "1500" 1 1/2HP TEFC pre-wired motor

2.3 IMPELLER ASSEMBLY: Mixer shall be offered with choice of mixing impeller:

- "P" Cast Marine Axial Impeller (Propeller)

2.4 SHAFT ASSEMBLY: Shaft assembly shall be 316 stainless steel. Shaft shall be 5/8" or 3/4" round and marked for easy installation in field. Shaft options shall include:

- ( " ) Shorter or shorter than standard shaft
- "EK" Green Epoxy Coating
- "TFE" Green Teflon Coating

2.5 COUPLING: Shall be standard 316 stainless steel with stainless steel set screws. Coupling shall be of ample size for mixing loads and be replaceable in the field.

2.6 OPTIONAL FEATURES: Mixer shall include the following options:

- "STS" Suction Tube Shield for Pump Suction Tubing
- "CPM" Control Panel, motor starter and overload, 12 AMP resistive

2.7 PRESSURE AND TEMPERATURE LIMITATIONS: Shall have maximum operating perimeters of 104F.

# Chem-Mix "HD" Series

High Speed Heavy Duty Mixers

**Specification WRTNMXRHD**

Written: January 2014



## 3.0 WARRANTY

General Treatment Products Chem-Mix High Speed Mixers are guaranteed for two years from date of shipment against manufacturing defects in material and workmanship which 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.