

# MARATHON®

A WARREN RUPP PUMP BRAND



## SUBMERSIBLE SLUDGEMASTER™

### AIR-OPERATED PUMP MSMA3-A

#### UNIQUE AND VARIED BENEFITS OF THE AIR-OPERATED SLUDGEMASTER™

- **Immediate ease of use**, simply hook up compressed air supply, lower through man-hole, into sump or fluid to be pumped. No fuel tanks to run empty, no gas cans to carry, no electrical connections, no electric motors to overload.
- **Keeps pumping without clogging** on most problem jobs. Won't choke up on small trash. Can run dry with no damage.
- **Self-draining** to prevent damage in below freezing weather.
- **Self-priming.**
- **High capacity, low head operation** to meet nearly every emergency or daily use application.
- **Continuous automatic lubricating** internal oiler, oil-batch-lubricated shaft seal; needs only 1 pint (.47 liter) every 50 hours of use.
- **Foolproof design** has two vane, low speed, trash-type cast iron impeller that handles abrasive substances with less wear.
- **Sturdy build** for rough handling and long life endurance on land, sea or offshore.

# Submersible SludgeMaster™

## Air-Operated Pump Model MSMA3-A

### SludgeMaster™ High Performance Features:

**Powered by 2½hp Gast 6am direct-drive air motor.** Cast iron, vane-type. Independent of pump. Complete motor replacement costs less than repairs for many other pumps.

**Air-Inlet:** ½" (12.5mm) NPT fitted with universal hose coupling (hidden from view in this photo) Flow speed easily adjustable.

**Exhaust muffler** for quiet operation (hidden from view in this photo).

**Completely sealed aluminum housing** encloses all mechanical parts.

**3" (75mm) NPT female pipe thread discharge.**

**Trash-type, plated steel strainer** with ½" square openings...easily removed for access to lower wear plate and impeller. Optional screen available to reduce solids-handling to ½" (12.5mm) diameter.

**Carrying handle.**

**Large built-in air filter.**

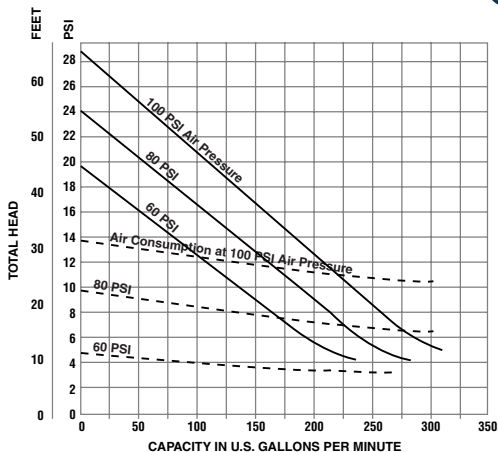
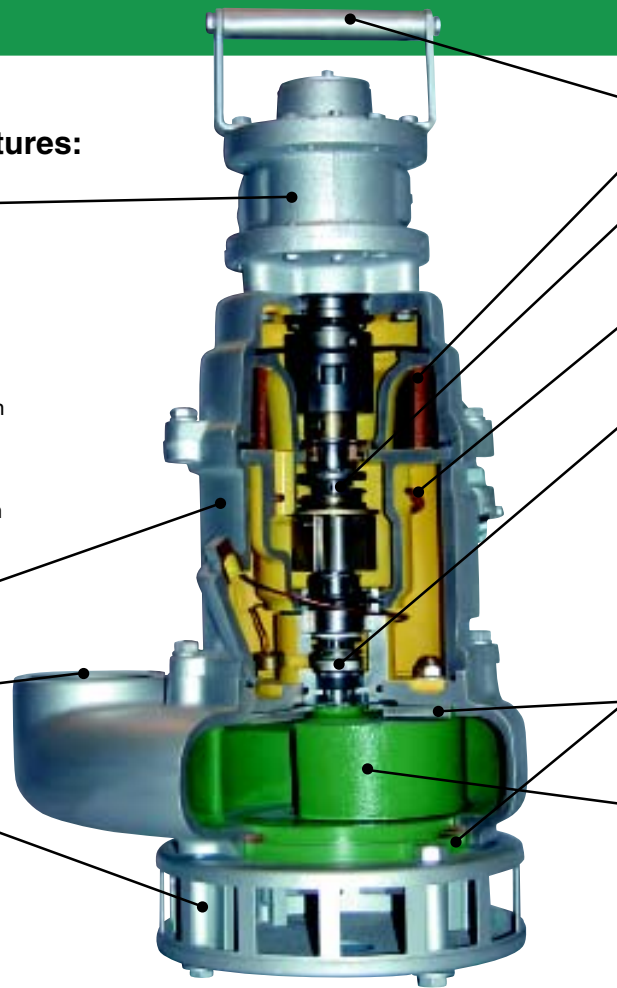
**Built-in speed-limiting governor** prevents damage if pump runs dry for extended periods of time.

**Automatic oiler** dispenses proper amount of lubricant into air stream; eliminates need for an external oiler.

**Face-type mechanical shaft seal** operates in 1-quart (.95liter) of oil under full-line air pressure. Oil pressure at seal always exceeds pressure of pumped liquid thus provides a clean oil environment at seal for long life even under abrasive conditions. Should seal failure eventually occur, unique seal design prevents entrance of pumped liquid and any further damage.

**Replaceable wear plates** on both sides of impeller are made of iron and steel for maximum wear resistance.

**Two-vane trash-type open impeller** of cast iron for wear and impact resistance; can be removed without disturbing seal.



### Performance Curves

