

SERVICE GUIDE

NO WATER DELIVERED

- a. Pump not properly primed. (See Priming Instructions.)
- b. Discharge system head too great; in this case, a pressure gauge at the pump discharge will show shut off pressure. (See Rating Table.)
- c. Suction lift too great; check with vacuum gauge. (See Suction Piping.) Check or foot valve, if used, may be completely plugged or suction piping may be completely plugged.
- d. Air leak in suction piping.
- e. Wrong motor rotation. (See Motor Rotation.)
- f. Shaft seal leaking under priming conditions.
- g. Motor not up to speed; check for incorrect voltage. (See Motor Voltage.)
- h. Plugged impeller.

NOT ENOUGH WATER OR PRESSURE

- a. Air leak in suction piping.
- b. Motor not up to speed; check for incorrect voltage or low voltage. (See Motor Voltage.)
- c. Discharge system head too great.
- d. Impeller, suction pipe, check or foot valve partially plugged.
- e. Wrong motor rotation. (See Motor Rotation.)
- f. Suction lift too great. (See Suction Piping.)
- g. Insufficient submergence of suction pipe. (Suction pipe inlet should be at least 3 feet below the liquid surface at all times.)
- h. Pump too small for installation involved. (Check Rating Table.)
- i. Suction piping too small causing excessive total suction lift.
- j. Air or gas entrained in liquid.
- k. Worn impeller or diffuser.

PUMP LOSES PRIME AFTER STARTING

- a. Air leak in suction piping.
- b. Total suction lift too great. (See Suction Piping.)
- c. Insufficient submergence of suction pipe; check pumping water level. (The suction pipe inlet should be at least 3 feet below the liquid surface at all times.)

MOTOR OVERHEATS

- a. Check rotating element to insure that it turns freely.
- b. Low voltage at the motor. (See Motor Voltage and Motor Wiring.) Check electrical connections to insure tight contact.
- c. Poor ventilation. (See Location.)

PUMP VIBRATES OR IS NOISY

- a. Insufficient pump foundation.
- b. Excessive total suction lift.
- c. Bent shaft or worn motor bearings.
- d. Impeller partially clogged.