



INSTALLATION, OPERATION & PARTS MANUAL

**HTS50 Series
Submersible High Temperature
Effluent Pump**

HYDRO IC[®]

ADD


▲ WARNING R C

Do not lift pump by power cord. See "Cord Lift Warning".

DE: Install pump on a hard, level surface (cement, asphalt, etc.). Never place pump directly on earth, clay or gravel surfaces. Basin must be at least 18" (457 mm) in diameter and 30" (762 mm) deep.


P

Piping must not be smaller than pump discharge.

When installed in an  system, pipe must be capable of handling semi-solids of at least 3/4" (19 mm) diameter.

The rate of flow in the discharge pipe must keep any solids present in suspension in the fluid. To meet minimum flow requirements of 2 ft. per second (61 cm/sec) in discharge line, size pipe as follows:

A PO	HRQ
2" (51 mm)	21 GPM (79.5 L/M)
2-1/2" (64 mm)	30 GPM (113.5 L/M)
3" (76 mm)	48 GPM (182 L/M)

In an  system use a 1-1/2" (38 mm) min. check valve in pump discharge to prevent backflow of liquid into pump basin. The check valve should be a free flow valve that will easily pass solids. Be sure check valve installation complies with local codes.

DE: For best performance of check valve when handling solids, do not install it with discharge more than 45° above the horizontal. Do not install check valve in a vertical position as solids may settle in valve and prevent opening as on startup. Drill a 3/16" (5 mm) hole in discharge pipe about 1 to 2" (25-50 mm) above pump discharge connection (but below check valve) to prevent airlocking the pump.

E

▲ WARNING H C

When installing, operating, or servicing this pump, follow safety instructions below.

- DO** splice the power cord, submerge electrical cord plug, or use extension cords.
- DO** handle or service pump while it is connected to power supply.
- DO** operate pump unless it is properly grounded. Power cord is a 3-wire conductor with 3-prong grounding-type plug. Do not modify cord or plug. Plug pump into a 3-wire, grounded, grounding-type receptacle only. Connect pump according to all applicable codes.

For automatic operation, plug or wire pump into the automatic float switch. For continuous operation, plug directly into an electrical outlet or wire directly into switch box. Connect pump to its own individual branch circuit with nothing else on the circuit. See Specifications Chart for fuse or circuit breaker sizes.

▲ WARNING R B



Automatic float switch is factory set with a 4" tether length. This tether length can be adjusted to accommodate a variety of pumping ranges. (See performance graph below). The installer must ensure that the switch does not become obstructed and that the range is set so the liquid level remains a minimum of 2" above pump suction at the lowest level, and below the basin inlet pipe at the highest level.

O

An automatic overload protector in the motor will protect motor from burning out due to overheating/ overloading. When motor cools down, protector automatically resets.

If overload trips frequently, check for cause. It could be a stuck impeller, wrong/low voltage, or electrical failure in motor. If an electrical failure in the motor is suspected, have it serviced by a competent repairman.

EBE

Pump is permanently lubricated. No oiling or greasing is required in normal service.

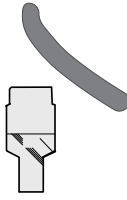
DE: Do not allow pump to run in a dry sump. It will void the warranty and may damage the pump.



The pump motor housing contains a special lubricating oil. Keep oil clean and free of water at all times.




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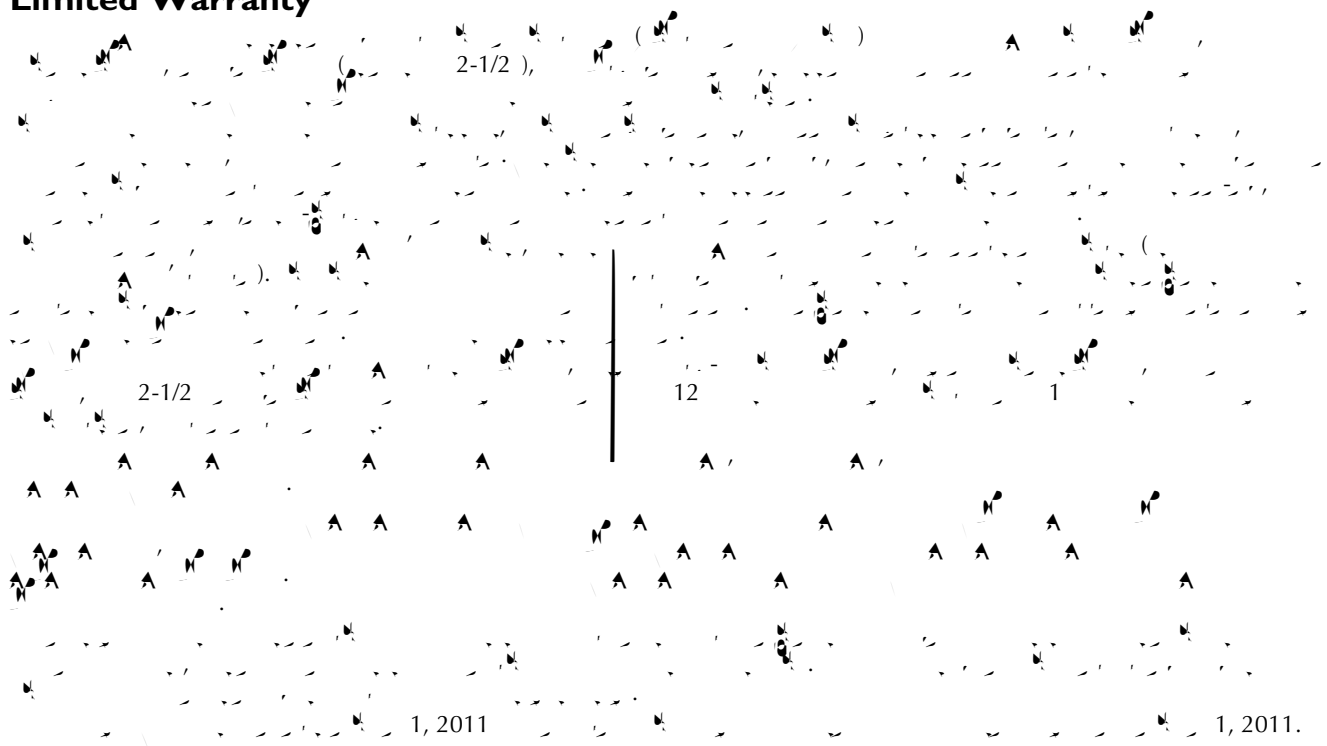


⚠ WARNING

Disconnect power before servicing pump.

A. P 	<ol style="list-style-type: none"> 1. Check to be sure that power cord is securely plugged into outlet or securely wired into controller or switch box. Disconnect power to outlet before handling pump or motor. 2. Check to be sure you have electrical power. 3. Check that liquid fluid level is high enough to activate switch or controller. 4. Check to be sure that 5 mm (3/16") vent hole in discharge pipe is not plugged. 5. Check for blockage in pump inlet, impeller, check valve or discharge pipe. 6. Thermal overload may have tripped. Test start pump; if it starts and then stops immediately, disconnect from power source for 30 minutes to allow motor to cool, then reconnect to power source. Check for cause of overheating/overloading. 7. If pump is completely inoperative or continues to malfunction, consult your local serviceman.
B. P 	<ol style="list-style-type: none"> 1. Be sure all valves in discharge piping are fully open. 2. Clean out discharge pipe and check valve. 3. Check for blockage in pump inlet or impeller. 4. Pump not sized properly. A higher capacity pump may be required.
C. P 	<ol style="list-style-type: none"> 1. Check switch for proper operation and location. See installation instructions for switch/controller.

Limited Warranty



HYDROMATIC
293 Wright Street, Delavan, WI 53115

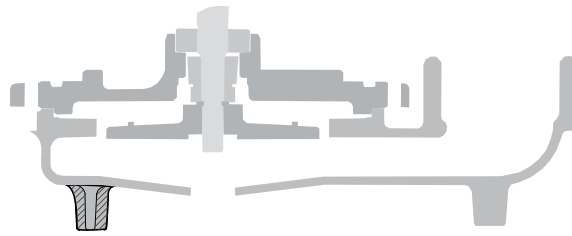
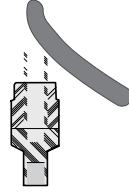


AVE

Le carter du moteur de la pompe contient une huile lubrifiante spéciale. La garder propre et ne jamais la contaminer avec de l'eau.

Avertissement concernant le levage par
le cordon électrique

P-50A1



**NDEN****R**

:

1. S'assurer que le cordon électrique est fermement branché dans la prise de courant ou adéquatement branché sur le contrôleur ou la boîte de l'interrupteur. Avant de manipuler la pompe ou le moteur, couper le courant qui alimente la prise de courant.
2. S'assurer que le courant électrique parvient à la pompe.
3. S'assurer que le niveau du liquide est suffisamment haut pour actionner l'interrupteur ou le contrôleur.
4. S'assurer que le trou de mise à l'air libre de 5 mm (3/16 de pouce) percé dans le tuyau de refoulement n'est pas bouché.
5. S'assurer que l'admission de la pompe, l'impulseur, le clapet antiretour ou le tuyau de refoulement ne sont pas bouchés.



HYDROMATIC®

Series HTS50
Bomba sumergible para
efluente de alta temperatura



⚠ Cuando vea este símbolo en su bomba o en este manual, busque para ver si hay alguna de las siguientes palabras de señal y esté alerta sobre la posibilidad de lesiones personales.

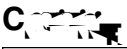
⚠ PELIGRO Advierte sobre peligros que ocasionarán lesiones.



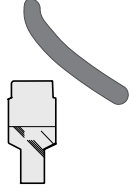
AD

La caja del motor de la bomba contiene un aceite especial de lubricación. Mantenga el aceite limpio y libre de agua en todo momento.

AD Siempre que se saque la cubierta del motor para realizar servicios de reparación, saque el aceite y cámbielo por uno nuevo cuando vuelva a armar el motor. Use solamente el aceite indicado en la lista de repuestos (Repuesto No. U197-8A). Cuando llene con un aceite nuevo NO lo rellene demasiado. Para permitir espacio para la expansión, el nivel del aceite con el motor frío debe estar a 1/4" (6 mm) más o menos por encima de la parte superior del ensamblaje del motor.

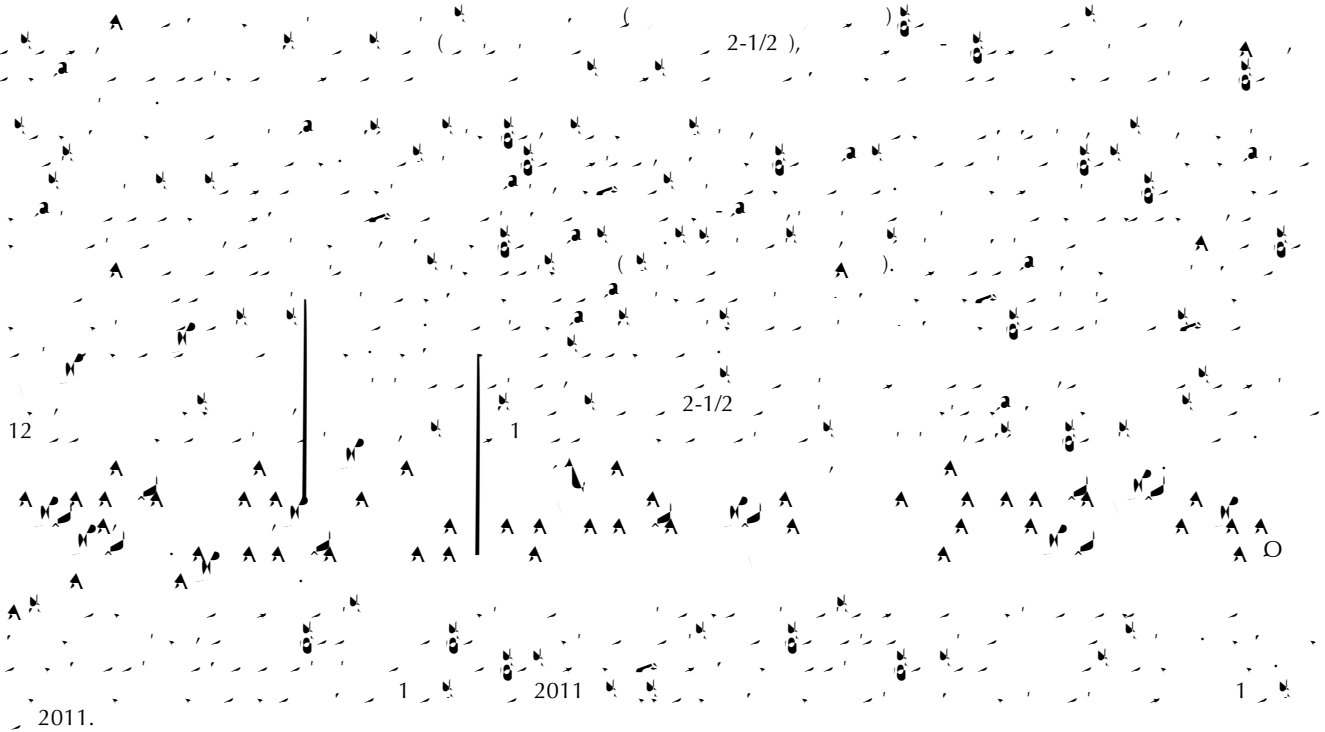


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Garantía limitada



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