



THE WORLD'S LARGEST REMANUFACTURER OF HEATING COMPONENTS

## REMANUFACTURED Watchman 'B' Pump and Motor Assembly for Hoffman™ Pumps Vented Condensate Units For Watchman Series WC and WCS

### DESCRIPTION

The Hoffman Pumps Watchman vented condensate pumps are float operated to return accumulated condensate to a boiler feed tank.

### APPLICATIONS INCLUDE

- Residential
- Commercial
- Institutional
- Industrial steam heating
- Industrial processing; dry cleaning plants, chemical refineries, wood pulp paper processing, textile mills and manufacturing facilities.

### REPLACEMENT FOR

The Remanufactured 'B' Pump and Motor Assembly is a component in the following Hoffman™ Pumps Watchman Series Condensate Units:

#### WC Cast Iron Receiver Condensate Units:

WC-6-20B Simplex  
WC-8-20B Simplex  
WC-12-20B Simplex

#### WCS Steel Receiver Condensate Units:

WCS-6-20B Simplex  
WCS-8-20B Simplex  
WCS-12-20B Simplex



**ITEM# P400R**

**ITT Bell & Gossett Part# 180001**

**ITT Bell & Gossett Series WC-B**

#### SPECIFICATIONS

Pump Style	Simplex
Pump Capacity	20 GPM
Discharge Pressure	20 PSIG (138 kPAa)
Motor	1/3 HP, 0.2 kW 3500 RPM 115 Volt (field convertible to 230 Volt) Single phase 60 Hz 104°F max. operating temperature

2-YEAR  
WARRANTY



*See other side for Troubleshooting Tips*

#### CORPORATE HEADQUARTERS

605 Locust St., Garden City, NY 11530  
(516) 745-9277 Fax (516) 222-9027

#### MANUFACTURING PLANT

11786 Gapway Rd., Andrews, SC 29510  
(843) 264-3098 Fax (843) 264-6513

#### MORE THAN 70 BRANCHES NATIONALLY

For the branch nearest you, call (800) 3-HARVEY  
visit on the web at [www.sidharvey.com](http://www.sidharvey.com)

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for Hoffman™ Pumps Vented Condensate Units  
For Watchman Series WC and WCS

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## TROUBLESHOOTING

### Pump Will Not Start:

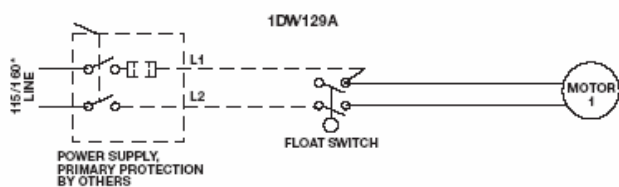
1. The power supply has been interrupted, disconnect switch is open, or selector switch is improperly positioned.
2. Incorrect voltage for motor. Check voltage and wiring with motor characteristics.
3. Incorrect starter coil for power supply.
4. The overload relays and the starter have tripped out and must be reset. Ambient temperature may be too high.
5. Check pump controls or other controls for proper operation.
6. Wiring to control cabinet is incorrect or connections are loose.
7. The strainer is dirty thus retarding flow. Clean periodically.

### Pump Runs Continuously:

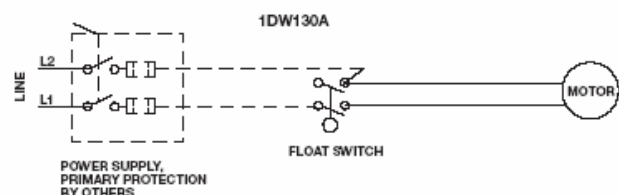
1. Pump is running backward. Rotation of three phase motors may be corrected by interchanging any two of the three wires. Rotation should be clockwise looking down at the motor.
2. Steam traps are blowing through causing condensate to return at excessive temperatures. This may reduce the capacity of the pump below its rating, depending on the unit and type of pump furnished. Traps should be repaired or replaced.
3. The total required pressure at the pump discharge is greater than the pressure for which the pump was designed. Check the total pressure which includes atmospheric pressure, the friction head and the static head.
4. A valve in the discharge line is closed or throttled too tightly. Check valve is installed backward.
5. The impeller eye is clogged.
6. Pump is too small for the system.

## REPRESENTATIVE WIRING DIAGRAMS

### WATCHMAN® SIMPLEX UNITS, SINGLE PHASE



FIELD WIRING SHOULD BE IN ACCORDANCE WITH  
NATIONAL ELECTRIC CODE.



DASHED LINE WIRING & COMPONENTS BY OTHERS