



## INSTALLATION INSTRUCTIONS

### Retrofit Wiring

for Control Board Kits Part No. 880-039-5 and 880-044-5  
for Pump/Motor Units Part No. P200R1-2MB and CP200R1-2MB

The following defined terms are used throughout this literature to bring attention to the presence of hazards of various risk levels, or to important information concerning the life of the product.

**DANGER**

indicates presence of a hazard which *will* cause *severe* personal injury, death or substantial property damage if ignored.

**WARNING**

indicates presence of a hazard which *can* cause *severe* personal injury, death or substantial property damage if ignored.

**CAUTION**

indicates presence of a hazard which *will* or *can* cause *minor* personal injury, death or substantial property damage if ignored.

**NOTICE**

indicates special instructions on installations, operation, or maintenance which are important but not related to personal injury hazards.

**CAUTION**

Disconnect all power to the unit before installing or repairing. Voltages present in the control box can cause severe electrical shock.

**NOTICE**

These instructions only apply to retrofitting on existing site with a P200H1-2MB or CP200H1-2MB pump/motor unit with a P200R1-2MB or CP200R1-2MB pump/motor unit respectively. The existing control box components cannot be used with the new pump/motor unit, a new component board must be installed.

1. **DISCONNECT** the power at the distribution panel prior to retrofitting an existing site.
2. Remove old pump and motor assembly.
3. The existing pigtail can be used with the new pump and motor assembly. However, if a new pigtail is needed, a new 3-wire conduit seal will be needed to replace the 5-wire conduit seal. The kit for this is part number 110-039-5 for petroleum; 110-050-5 for Viton and 110-051-5 for EPR.
4. Install new pump and motor assembly: insure the 4-bolt gaskets between pigtail housing and the receptacle housing are in place.
5. The two blue wires from the junction box up to the control box may be pulled through, or insulate the ends of them and leave them hanging.
6. The retrofit kit must be installed into the existing enclosure. This can be done by disconnecting all the leads from the terminal strip and removing the existing metal plate to which all components ( 2-capacitors, a relay, contactor and overload protector) are mounted to and replacing it with the new retrofit board.
7. The new retrofit board contains one capacitor, one terminal strip and one contactor. The hole in the cover must be covered with the label enclosed in the retrofit kit.
7. Connect the single-phase 208/230-volt power supply from the distribution panel to L1 and L2 on the terminal strip of the new retrofit board. Each control box should be wired through a separate fused disconnect switch or circuit breaker (including neutral, when used) furnished by the customer.
8. The magnetic contactor is shipped with the coil wired to accept 208-240 volts. No changes are required unless a 110-120 volt coil is desired. If so, rewire the coil per the wiring diagram label on the side of the contactor. Disconnect and remove the wire that connects terminal W and L2 of the contactor. Connect a new wire from terminal W to NEU of the terminal strip. The neutral of the power supply must be brought in to terminal NEU. If an electronic dispenser is used, connect the "hot" from the dispenser to terminal 3.

**NOTICE**

3-Wire control requires the use of an auxiliary contact in the magnetic contactor. This auxiliary contact is not standard equipment in the contactor supplied by Red Jacket, and must be ordered as an option. Use Furnas auxiliary field kit 49d22125001 or equivalent.

9. Connect the properly coded wires from the junction box of the submerged pump to the red, black and orange terminals of the terminal strip. Connect the two blue wires from the pump (if not pulled) to terminals BL2 and 3 of the terminal strip if 5-wire pigtail is used. If a 3-wire pigtail is used, the wires can be insulated and not connected to

the terminal strip. Connect the wires from the dispenser control switches (if dispensers are used) and from the "on-off" switch at the loading rack; blue wires to terminal BL2 and black wires to terminal 3.

10. Reconnect the power at the distribution panel.

**(C)P200R1, 208-240 V, 2 HP SINGLE PHASE CONTROL BOX**

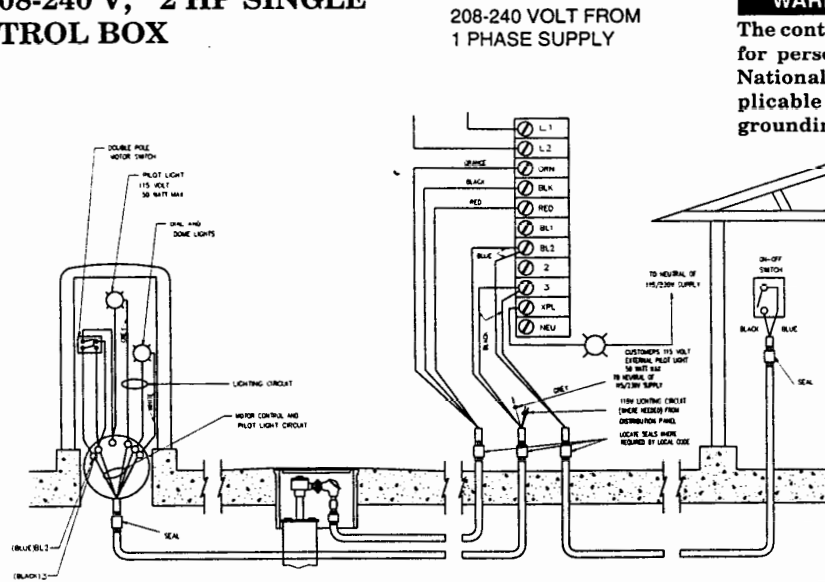
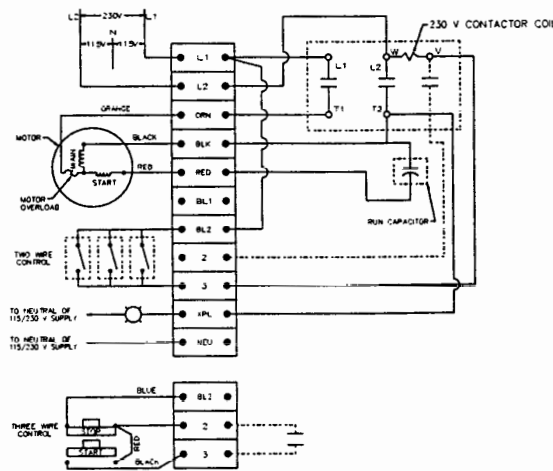


Figure 1: (C)P200R1 representative wiring diagram, 1Ø, two-wire control.

**(C)P200R1, 208-240 V, 2 HP SINGLE PHASE CONTROL BOX**



**GROUND**  
MAKE GROUND CONNECTION IN ACCORDANCE WITH LOCAL CODES

**WARNING**  
The control box must be grounded for personal safety. Refer to the National Electrical Codes and applicable local codes for proper grounding procedures.

**NOTICE**  
3-wire control requires the use of an auxiliary contact in the magnetic contactor, Furnas auxiliary inter lock field kit 49D22125001 or equivalent.

Figure 2: (C)P200R1 motor control box wiring diagram 2 HP.



by VEEDER-ROOT

125 Powder Forest Drive • Simsbury, CT 06070  
Tel: (860) 651-2700 • Fax: (860) 651-2719

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