

Cartridge replacement

UP Series circulators

Ⓢ Installation and operating instructions



1. PRE-INSTALLATION CHECK LIST

Before beginning installation procedures, the following checks should be made. They are important for successful installation of the replacement cartridge.

Be sure that the proper kit is used, refer to Table 1.


If the circulator to be repaired has suffered water damage to the stator it can not be repaired and must be replaced.

If the terminal strip or capacitor are damaged or have failed, they must be replaced with the proper replacement kit or entire pump.


Table 1. Cartridge Kit

UP15	UP26
506171	526061
UP15-Brute II 115/230V	UP26-64 115/230V
	UP25-64 115/230V
506172	UP43-75 115/230V
UP15-18SU/SF 115V	UP50-75 115/230V
506173	526062
UPS15-42F 115V	UP26-96 115/230V
UP15-42B5/B7 115V	UP26-99 115/230V
UP15-42BUC5/BUC7 115V	
UP15-42SU/SF 115V	
506174	526063
UP15-18B5/B7 115/230V	UP26-116 230V
UP15-18BUC5/BUC7 115V	
UP15-20SPA 115/230V	
UP15-18SU/SF 230V	
UP15-15SPA 115/230V	
UP15-29 SU/SF-LC/TLC 115/230V	
506175	
UM15-10 115/230V	
UPS15-42F 230V	
UP15-42B5/B7 230V	
U15-42SU/SF 230V	
506176	
UP15-10 115/230V	
599408	
UPS15-35 SUC/SFC-TLC 115/230V	
599409	
UPS15-55 SUC/SFC-TLC 115/230V	

2. SHOCK HAZARD



WARNING!
To reduce the potential risk
of fire, electrical shock,
or injury to persons.



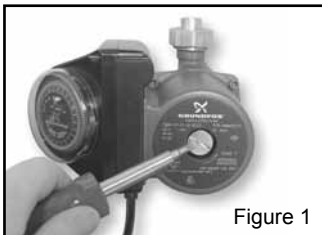
Switch off the electrical power supply to the pump. **WARNING:** Never make any connections in the pump terminal box unless the electrical supply has been switched off.

3. PUMP ISOLATION

Isolate the pump from the water pipe by closing valves immediately upstream and downstream of the pump, or by draining the immediate piping system.

CAUTION: The water in the pump may be scalding hot. A means to contain the water released while disassembling the pump should be provided to prevent water damage and staining. Ensure that water does not enter the terminal box.

4. PUMP DISASSEMBLY



- a. Remove the four (4) Allen screws (4 or 5 mm wrench).
- b. Carefully separate stator from the pump housing (volute).
- c. For all circulators except the BRUTE UP 15 - 42: Insert a large flat blade screw driver or suitable punch into the screw in the middle of the nameplate (see figure 1) and gently tap until the entire cartridge canister assembly, complete with rotor and impeller, is free to be removed. Do not attempt to pry out the cartridge at the stator / volute mating joint.

For the BRUTE UP 15 - 42 :

Remove the nameplate by gently prying off at the edges. Follow directions for item c. above.

- d. Remove gasket from inside stator.
- e. Inspect the exposed inside of the stator housing. If there are signs of corrosion or water damage then the pump can not be repaired.

5. CARTRIDGE INSTALLATION

- a. Insert replacement gasket into stator housing.
- b. Insert the replacement cartridge into the stator housing. Check that the motor shaft turns freely. For the Brute UP 15 - 42 only, line up and snap the nameplate back into position.
- c. Replace the Allen screws and tighten diagonally and evenly (7 ft. - lb. torque).

6. RETURN SYSTEM TO NORMAL OPERATION

- a. Open isolating valves and / or fill piping system with water. **DO NOT START THE PUMP UNTIL THE SYSTEM HAS BEEN FILLED.**
- b. Restore power to pump and ensure that it operates quietly.

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