

## **Brac Systems Technical Advisory #003**

**Issue:** Removal of pump for service.

**Background:** The pump and pressure tank that is used in the Brac System is manufactured by Burke of Laval, Quebec. These pumps are rated for five years of continuous operation, and are very unlikely to fail in this application. However, if the pump should fail, it will need to be removed from the system and returned to Burke for servicing.

### **Removal procedure:**

- Open the fresh water bypass valves to divert fresh water to the toilets.
- Unplug electrical power to the pump.
- Pop the electrical cord rubber grommet into the tank.
- Release all water pressure in the system through the irrigation faucet.
- Disconnect the two hoses from the galvanized cross, using a cup to catch any water that runs out.
- Using a 9/16" wrench, remove the two mounting bolts and washers that hold the pump to the platform.
- Pull the power cord into the upper section of the tank.
- Carefully lift out the pump/pressure tank/foot valve assembly from the system.
- Secure the pump to a bench, being sure that the foot valve pipe will clear any obstructions when rotated.
- Place a bucket beneath the foot valve to catch any water, and remove the foot valve, allowing the pipe to drain.
- Using the foot valve pipe for leverage, slowly unscrew the foot valve elbow from the pump housing, with gentle even pressure. (Turn counter clockwise.) Retain the foot valve piping assembly for later reinstallation.
- Return the pump/pressure tank assembly for service to:

The BURKE GROUP  
2190 Dagenais west  
Laval, Quebec  
H7L 5X9 CANADA  
[info@burcam.com](mailto:info@burcam.com)  
514.337.4415 (phone)  
514.337.4029 (fax)

**Reinstallation:** Reinstallation is done in the reverse of removal. However, we recommend that you use a new foot valve elbow, and wrap all threaded joints with six wraps of Teflon tape. It is easiest to get the elbow threads started in the pump housing without the long pipe attached, then attach the long pipe for leverage to tighten. Be sure that the pipe assembly is vertically plumb before reinstalling the pump in the system. When installation is complete, check all joints and connections under pressure to be sure that there are no leaks.

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