

## **GUIDELINES FOR CARTRIDGE INSTALLATION IN SUBFREEZING CONDITIONS**

Although Falcon Water® urinals are not designed to operate when the contents of the cartridge are frozen, the urinal may be installed in locations where the contents of the cartridge will remain frozen for extended periods of time (e.g. parks, campgrounds, etc.). A frozen cartridge will maintain a trap, thereby preventing the escape of sewer gases during months when the system is frozen and out of service. The information below details how to maintain your Falcon system during extended periods when the cartridge is frozen.

### **CARTRIDGE SYSTEM AND PERFORMANCE**

#### **PREPARATION**

Prior to freezing, the already-primed cartridge(s) should be purged of urine. This can be accomplished without losing the sealant by slowly pouring about a quart (liter) of clean water into the cartridge. The water will displace the urine and prepare the cartridge for freezing.

#### **IMPACT OF FREEZING ON CARTRIDGE**

The cartridge has enough room inside for ice to expand and, because it is not sealed like a water supply pipe, there will be no damage to the drain line or urinal.

#### **REMOVE FROZEN CARTRIDGE FROM SERVICE**

The Falcon system will not drain properly when the cartridge is frozen. Appropriate signage or other precautions should be taken to ensure users know the system is out of service.

#### **RESTARTING AFTER THAWING**

Once fully thawed, typically in the spring, the cartridge should be tested to ensure sealant is present in the cartridge. Check whether the cartridge is fully thawed by dipping a thin piece of rolled up paper towel into the center holes. If the paper towel absorbs some liquid the cartridge is thawed, and you can proceed to slowly pour water into the cartridge. If fluids flow normally, the cartridge should be ready for normal operation. If there are odors and/or slow flow of fluids, the cartridge should be changed before returning the system to service.

#### **SERVICE SUPPORT**

While there should be no reason for any damage or performance issues with the urinal(s) due to freezing, if any problems cannot be eliminated by simply changing the cartridge, please call us for prompt service support.

