



## Winterizing a Techline<sup>®</sup> CV, Techline<sup>®</sup>, or Techlite<sup>®</sup> Zone

Winterizing your Netafim low volume system is fast and easy when you follow these simple steps.

In general, though the polyethylene tubing found on most low volume systems has the ability to expand and contract, winterizing your system is necessary to protect the hard plastic and metal components that are normally present.

### 1. Winterizing Techline<sup>®</sup> & Techlite<sup>®</sup>

Drippers in these products will drain some water from the dripperline each time the zone shuts off, but there are still a few important steps to follow.

#### Winterization - Manual

If compressed air is not used to winterize the system:

- A drain port must be present at **all** low point(s) in the zone. These ports may be a tee or elbow with a threaded plug, or a Netafim TLSOV which, when opened, will allow water to drain. If Netafim Line Flushing Valves are installed, unthread and disassemble
- If the zone is a grid or closed system, the supply and exhaust headers may contain a significant amount of water because they are either blank Techline/Techlite tubing, PVC, or poly pipe. It is important to provide drain ports for these components
- If the zone has laterals that dead-end, (not connected to an exhaust header) the lateral end(s) should be opened to drain at the lowest point(s)
- The filter should be disassembled, and the disc or screen element removed to allow water to drain. Leave the filter disassembled in the event that some water remains in the system
- In zones where elevation is a concern, you may need to install a drain port upstream of the filter to ensure proper drainage
- Follow manufacturer instructions for any automatic zone valves

#### Winterization with Compressed Air (a.k.a. "Blowing Out")

Follow the same initial procedure for a Techline or Techlite zone as you would for a zone of sprinklers.

- Ensure the fittings are Netafim-brand fittings. Winterizing instructions may vary if other fittings are used
- Fittings for Techline and 17mm Techlite are rated at 50 psi without clamps, so the air pressure must be adjusted accordingly. Fittings for 8mm Techlite are rated at 28 psi
- It is air **volume**, not pressure that is effective when winterizing in this manner
- Pressure regulators (PRVs), which are normally installed in the valve box along with the zone valve and filter, **do not** regulate air pressure. Air pressure on the compressor should be regulated to 40 psi or less for 17mm tubing and 20 psi or less for 8mm Techlite.
- If the compressor outlet pressure cannot be adjusted down to 40 psi or less, consider turning on another zone at the same time

- Drain ports, (a fitting with a threaded plug, Netafim TLSOV, or Netafim Line Flushing Valves) normally installed as far away from the water source of the zone as possible, must be open
- Unscrew and disassemble any Netafim Line Flushing Valves
- With all drain ports open, compressed air should be applied until no water is seen exiting the zone
- All drain ports should be left open

## 2. Winterizing Techline CV<sup>®</sup>

Techline CV dripperline has a check valve in each dripper. These check valves hold water inside the dripperline, so care must be taken to ensure water is adequately drained from the zone.

### Winterization - Manual

If compressed air is not used to winterize the system:

- A drain port must be present at **all** low point(s) in the zone. These ports may be a tee or elbow with a threaded plug or a Netafim TLSOV which, when opened, will allow water to drain. If Netafim Line Flushing Valves are installed, unthread and disassemble
- If the zone is a grid or closed system, the supply and exhaust headers may contain a significant amount of water because they are blank Techline or Techline CV tubing, PVC, or poly pipe. It is important to provide drain ports for these components
- If the zone has laterals that dead-end, (not connected to an exhaust header) the lateral end(s) should be opened to drain at the lowest point(s)
- The filter should be disassembled, and the disc or screen element removed to allow water to drain. Leave the filter disassembled in the event that some water remains in the system
- In zones where elevation is a concern, you may need to install a drain port upstream of the filter to ensure proper drainage
- Follow manufacturer instructions for any automatic zone valves.

### Winterization - Compressed Air (a.k.a. "Blowing Out")

Follow the same initial procedure for a Techline CV zone as you would for a zone of sprinklers.

- Ensure the fittings are Netafim-brand fittings. Winterizing instructions may vary if other fittings are used
- Fittings for Techline CV are rated at 50 psi without clamps, so the air pressure must be adjusted accordingly. It is air **volume**, not pressure that is effective when winterizing in this manner
- Pressure regulators (PRVs), which are normally installed in the valve box along with the zone valve and filter, **do not** regulate air pressure. Air pressure on the compressor should be regulated to 40 psi or less
- If the compressor outlet pressure cannot be adjusted down to 40 psi or less, consider turning on another zone at the same time
- Drain ports, (a fitting with a threaded plug, Netafim TLSOV, or Netafim Line Flushing Valves) normally installed as far away from the water source of the zone as possible, must be open
- Unscrew and disassemble any Techline Line Flushing Valves
- With all drain ports open, compressed air should be applied until no water is seen exiting the zone
- All drain ports should be left open