Internal Heat Tracing System for Drain, Waste and Sewer Applications

Retro-DWS® THERMOSTATS & TIMERS

With Retro-DWS, control devices such as thermostats and timers are not a requirement but a beneficial accessory used to increase energy efficiency.

It is important to understand that while self-regulating technology is very efficient, the heating cable can never completely turn off and as a result is always a minimal consumer of energy when powered (turned on or plugged in directly). The addition of a thermostat or timer will duty-cycle the heating cable on/off thus decreasing the energy consumed further.

Depending on the application, combining insulation and a thermostatic control can increase energy savings by as much as 80%.

Other control options such as simple switches, computer controllers, monitoring services and automation systems can also be employed. Consult Heat-Line directly for control option questions.

INSULATION

One extremely important feature of self-regulating heating cables is the fact they can be thermally insulated without fear of overheating.

A thermally insulated pipe is not as susceptible to freezing and erratic changes in the environment temperature.

The insulation creates greater thermal consistency throughout the pipe and increases the efficiency of the Retro-DWS system. When the warmth generated by the heating cable system is captured by insulation, the amount of energy consumed by the heating cable is vastly reduced.

It is recommended that all new or exposed pipes are insulated. Depending on the application, combining insulation and a thermostatic control can increase energy savings by as much as 80%.
ABOUT RETRO-DWS®

Retro-DWS is a job-ready, advanced internal self-regulating tubular heating cable system that is used for efficient and reliable pipe freeze protection of non-pressurized drain, waste, and sewer pipe applications. The Retro-DWS is manufactured using a pre-determined length of Heat-Line certified, self-regulating heating cable, factory installed inside a ½ inch HDPE tube finished with a proprietary fusion end-seal. The purpose of the HDPE tube is to provide a barrier from fluids such as grey and black water, while providing extremely efficient heat transfer. The Retro-DWS is supplied with certified plumbing fittings to interface with existing pipes using an existing or installed clean-out, Tee or Wye as an access point.

INSTALLATION

The Retro-Line DWS is supplied job-ready with certified plumbing fittings to interface with 3 inch and 4 inch ABS pipes using an existing or installed clean-out, Tee or Wye as an access point. The versatile interface process of the Retro-DWS makes the system suitable for installation in pipe diameters from 3 inches to greater than 8 inches. The Retro-DWS can be easily adapted to fit larger pipe diameters by using readily available, industry standard components. The Retro-DWS system will easily push inside most pipes for distances up to 150 feet (46 meters). For long distances Retro-DWS can be drawn in with an electrical or plumbers fish tape or rope.

APPLICATIONS

The Retro-DWS heating cable is a safe and reliable solution for non-pressurized drains consisting of metallic or non-metallic materials.

Applications include but not limited to:
- Existing sewage, septic and effluent pipes
- Existing storm drains and culverts
- Existing septic and holding tanks
- Existing leach fields and septic beds

For pressurized pipe systems such as sewage forced mains refer to Heat-Line Retro-FM

For new or exposed pipes refer to Heat-Line Paladin/EXT systems.

SELF-REGULATING TECHNOLOGY

Retro-DWS employs the unique and advanced performance of self-regulating heating cable technology. Self-regulation allows the heating cable to effectively increase heat and energy output to sections along its length which are cold and simultaneously reduce heat and energy output to sections which are warm. Retro-DWS gives you the peace of mind of reliable freeze protection without the risk of burning out or over heating. Retro-DWS has become an essential product for home owners, engineers and building maintenance professionals to provide safe and reliable freeze protection in specialized applications.

IMPORTANT CONSIDERATIONS: The Retro-DWS tubular heater may in rare circumstances obstruct certain materials. As such the Retro-DWS is designed to be serviced if there is a concern of impediments.