

Variable Speed Pump Control

For Hydronic Injection Heating Systems

Will Run the Injection Pump at a Lower Speed than Other Controls

DiGi-SPAN[®] Elite Series

VSP



- **Monitor and Control Boiler Return Temperature.** The VSP-Elite is designed with boiler protection in mind. When the boiler return temperature drops below the Low Return setting, the VSP-Elite reduces the injection pump speed to protect the boiler by increasing the return temperature.
- **Automatic or Manual Injection Pump Speed Control.** Now, the VSP-Elite offers manual speed control for well balanced injection applications. Simply, select Manual Speed Control and then specify the pump speed that best fits the injection system.
- **Standard and Customizable Reset Ratios.** Utilizing the standard outdoor reset ratios or set point is built-in the VSP-Elite. In addition, the control comes with a customizable reset ratio for applications where a standard reset ratio would not suffice.
- **Enable/Disable.** No Need to turn the control power off. The Enable/Disable terminals allow the use of external devices or switches to activate/deactivate the control operation.
- **Simplified Menus on a 2-Line Back-Lit Digital Display.** Now, with two 16 alphanumeric line display and easy-to-ready menus makes setting and understanding control operation a snap.
- **Sensor Fault Output Status Selection.** A feature that allows the user to select the control output status when the sensor is disconnected.
- **Comes Complete with all the Sensors and a Well.** Use all of the features including monitoring the boiler return. The VSP-Elite has three sensors and a well. No additional sensors or wells are needed.

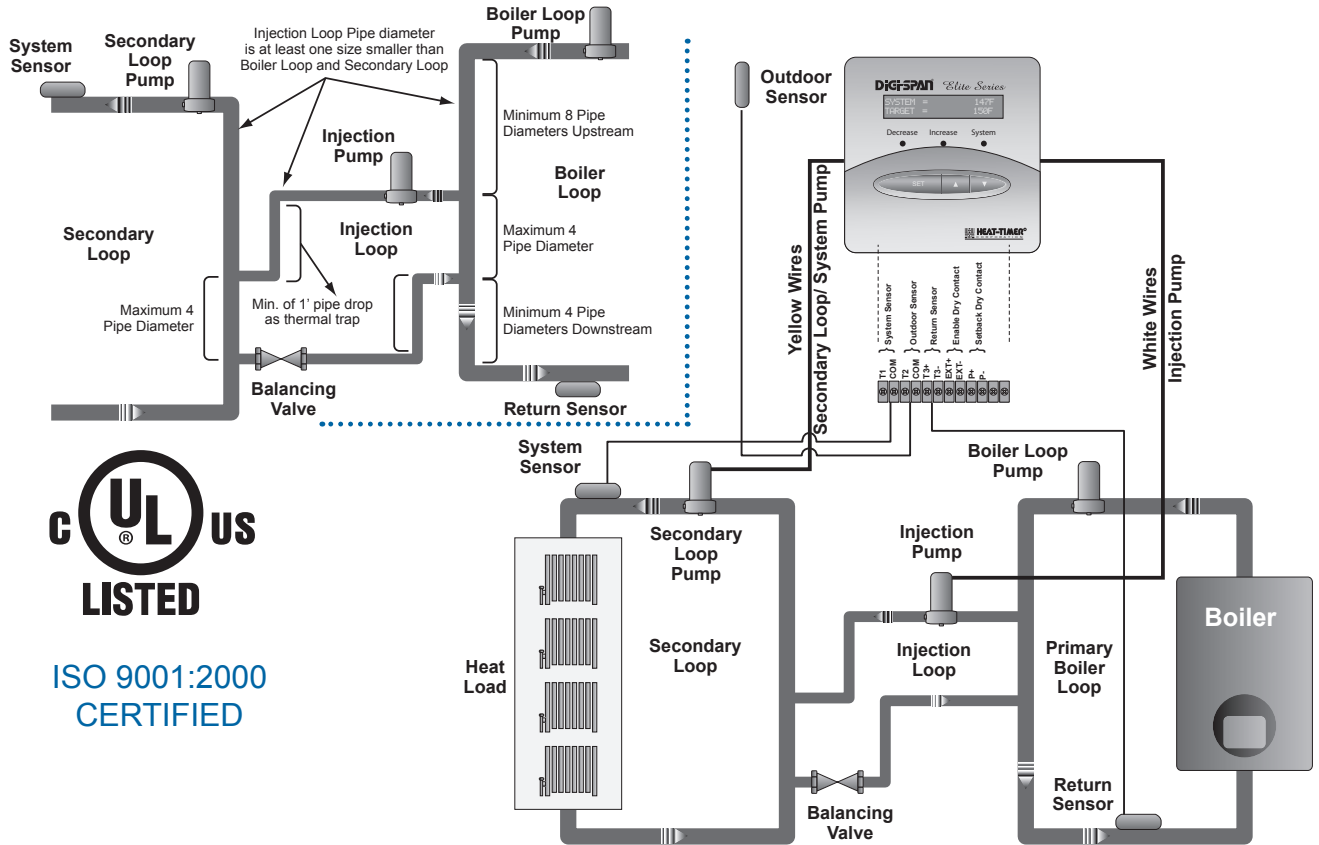
Description:

Superior Control of Pump Speed. The low cost, energy efficient VSP-Elite provides more precise control of pump speed than any other similar product on the market. It works great as an outdoor reset control or a set point control. The VSP-Elite adjusts the speed of a pump to control the amount of hot water injected into the heating/secondary loop. Unlike other controls, the VSP-Elite can operate the pump at a significantly lower speed. Lower speed means more precise temperature control and higher overall efficiency.

Specifications:

Voltage Input:	120 VAC 60 Hz(2 Black wires)
Power Consumption:	5 VA Max
Operating Temperature:	from 20°F to 120°F
Operating Humidity:	from 20% to 80%
Dimensions:	4"W x 4"H x 2½"
Weight:	1 pound
Display:	Back Lite 2 Line Alphanumeric LCD Display
Standard:	English or Metric
System Output Relay Ratings:	1 Amp inductive (Maximum of 1/8 HP), 6Amp resistive at 120 VAC 60 Hz
Injection Output Ratings:	1.5A inductive (Maximum 1/8HP) at 120VAC 50-60Hz
Control Modes:	Outdoor Reset, Set Point
Reset Ratios:	12 Standard ranging from 8:1 to 1:4 (Outdoor: System), and one Custom
Setback:	from 0°F (0°C) to 80°F (44°C)
Boost:	Yes (30Min), No
Sensor Fault Operating Options:	Output On or Output Off
Sensor Operating Range:	from -35°F (-37°C) to 250°F (121°C)
Offset:	from -40°F (-22°C) to 40°F (+22°C)
Minimum Target:	from 70°F (21°C) to 170°F (77°C)
Maximum Target:	from 90°F (32°C) to 240°F (116°C)
Set Point:	from -10°F (-23°C) to 230°F (110°C)
Setback Input:	Terminals T3+, T3-
Minimum Return:	from 70°F (21°C) to 170°F (77°C)
Injection Pump Speed:	+0% to 100%
Buttons:	3 (Set, Up, Down)
Enable/Disable:	Terminals EXT+, EXT-
Pump Run-On:	from 0 to 60 minutes
LED:	3 LEDs (Left=Decrease/Close Middle=Increase/Open Right=System Relay)

Item Description	Part #
VSP Elite Includes Outdoor, Secondary Loop, and Boiler Return Sensors and a well.	929185-00
Digi-Elite Wiring Enclosure with a Switch	929135-00
Digi-Elite Wiring Enclosure without a Switch	929137-00



UL
LISTED
ISO 9001:2000
CERTIFIED