

**AKURATE
DYNAMICS**
The Science In Spray Foam

DELTAHITE SMART HOSE

Patent Pending

Features

50' sections of internally heated hose

Temperature sensors placed at mid-point of two 50' sections – power is controlled for 100' of heated hose

Dynamic monitoring allows for chemical viscosity matching for increased yields

Ultra-light weight whips make operators more efficient in spraying



CONVENTIONAL HEATING	AKURATE HEATING
Current technology has the heating element secured to the outside of the hose jacket.	Internally heated with return wire on the outside of the hose
BENEFITS AND ISSUES	BENEFITS AND ISSUES
Easy to add additional hose	Must add additional hose wiring for additional lengths
Series heating leads to different temperature if the hose is not fully deployed or in different environmental conditions. No control on independent sections	Independent heating sections – automatically adjust to the environmental conditions of each section for more precise heating
Exterior Heating allows for the possibility of work hardening the plastic core. To heat chemical to 125 F, the exterior must exceed most hose ratings as the exterior jacket acts as an insulator	Internal heating keeps the inner core below its operational temperature range and does not degrade the inner core plastics integrity.
Exterior heating is affected by external environments, cold draws heat away heating elements before heating chemical	Internal heating uses the hose exterior jacket as an insulator allowing for more consistent heating
Heating time – exterior heating drives heat through exterior hose to heat the chemical – slow adjustment times	Internal heating is rapid – making start up and temperature adjustment significantly faster
Conventional Technologies monitor only ISO temperature – due to viscosity differences each chemical often require different temperature for viscosity balance	Akurate hoses monitor and adjust both ISO and Resin separately to balance viscosities, this assist in balancing pressures and increasing yields.
Cannot be GFI protected	GFI Protected

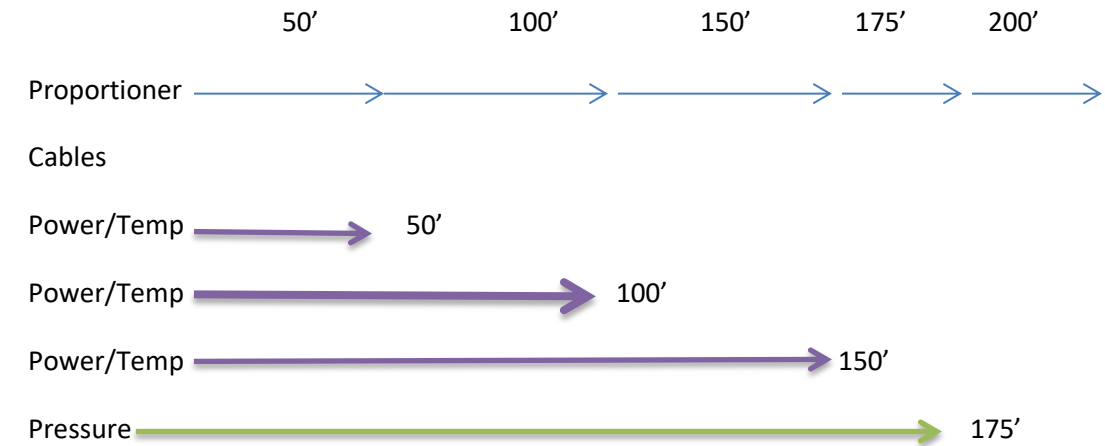
DELTALITE SMART HOSE SPECIFICATIONS

ISO Hose	Moisture blocking polyethylene inner tube
Resin Hose	Non moisture block nylon inner tube
Weight	26 lbs. per 50' section, hose, wiring and wrap 9 lbs. per 24' whip and wrap
Hose Section	50' of 3/8" hose
Whip Section	24' of 1/4" hose
Maximum Fluid Working Pressure	2200 PSI for 3/8" hose 2750 PSI for 1/4" hose
Temperature Measurement	RTD temperature sensors
Pressure Measurement	25' from gun
Maximum Fluid Temperature	150 Fahrenheit for ISO Hose 190 Fahrenheit for Resin Hose
Scuff guard	Ballistic nylon with velcro
Electrical Connection	Custom Cables with moisture sealing connectors
Hose Electrical Code Compliance	GFI protected hoses
Max Hose Length	300 Feet



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Diagram – 200 Ft Hose



Example Viscosity Chart

