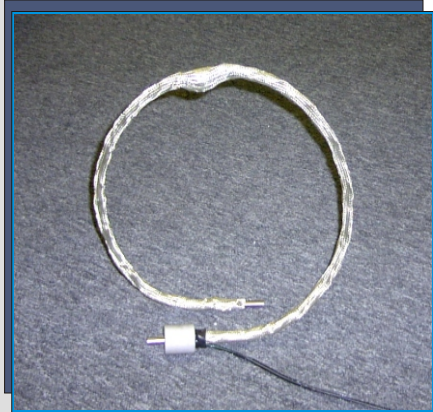




Direct-Couple Heated Line

Atmo-Seal Engineering, Inc.(tm) is a "think tank" company. It is this spirit of problem solving which has lead to the direct couple hose. Designed to operate in the 1000 F + range, a direct couple line is your solution for the problems caused by cold start testing and downstream component burn out. All in one inexpensive device.



Direct Couple Line

- Choice of AC 50-60 HZ or DC operation in a wide range of voltages
- Choice of Thermocouple, RTD, Internal Thermostat or other sensors
- All stainless steel wetted parts
- Warms your incoming sample during cold start
- Cools your sample down to a workable temperature during long duration testing
- Protects more-expensive downstream components from damage due to excessive heat

Hybrid Product Solutions

Direct Couple Lines (DCLs) may also be incorporated into other products manufactured by ASE.

Pictured here is a DCL coupled to a heated probe for small engine testing.

The heated probe/DCL has the (optional) capability of delivering Span and Zero Gas into a mini-tunnel for overflow and calibration.

Rated at up to 1700 F and with only SS wetted parts this probe is durable!

Innovations like this are the life blood of ASE. Feel free to let us help with all of your emissions applications.



Problem Solved...

Atmo-Seal, Inc. prides itself on innovation and problem solving. The problem: Incoming sample gas that starts out cold and rises to unacceptable levels during the test cycle. When the sample is cold, moisture and HC hang up affect the accuracy of your data. When the sample is over-heated, expensive equipment is damaged and the test halted.

Atmo-Seal's answer is the Direct Coupling sample line. (DCL)

A high-watt, extreme temperature heating circuit ensures a quick, stable heat of your gas sample. When the sample temperature too high rises, the DCL lowers your sample temperature. The outer sleeve, length and surface area of the tube work together passively to efficiently wisk away heat.

Heat is carried away strictly by natural convection. Our simple yet effective design requires no fluid or air reticulation, no cooling jackets, none of the cumbersome and costly attempts made by others to duplicate the DCL.

Our DCL is less expensive than a heated filter or a standard sample line. This lets you treat the Direct Couple Line as a "sacrificial lamb" saving higher priced downstream components.

When it comes to innovation in the test cell, ASE has got you covered.