

## C24 Cryo-Trap™ for TD-5

### *Cryo-Trap for use with the S.I.S. Thermal Desorption System - Model TD-5*

- Controlled by the SPTD Model TD-5
- CO2 cooling to -70°C
- Liquid N2 cooling to -180°C
- Reduction of CO2 or LN2 use by 90% as compared to cooling the entire oven.
- Dual programmable cryo-cooling and heating cycles
- Trap compounds in the GC oven at the head of the GC column.
- Remote input connector for cryo-cooling to heating cycle switching via GC, Desorption system or manually.
- Rapid heating up to 400°C at > 400°C per minute.



The Cryo-Trap consists of a small heating/cooling chamber. In the center of the chamber is a small stainless steel capillary through which the capillary column freely passes. Capillary columns up to megabore (0.53mm I.D.) diameters can be used. Around the stainless steel capillary tube a heating coil is wound to provide for the rapid heating of the capillary tube. A thermocouple provides accurate measurement of both the cooling and heating temperatures. Either Liquid CO2 or Liquid Nitrogen for cooling is introduced into the Cryo-Trap, and is exhausted through the outlet which can either be vented into the GC or a tube can be attached to vent external to the GC oven.

The control of the Cryo-Trap is provided via output signals of the SPTD Model TD-5. Both the Cryo-Cooling and heating temperatures are set SIS software.

For other systems see the Cryo-Trap Systems listed in the GC section of this catalog.

#### **Application Notes on the Cryo-Trap**

Application - See pages in the GC section of this catalog for the GC Cryo-Trap for use with the Headspace Sampler and other Thermal Desorption Systems.

A large number of application notes on the Cryo-Trap and its use with Headspace and Thermal Desorption Systems are available from S.I.S. at no charge. Call or write for your FREE copies of these application notes.

See page C38 - C39 for additional details.  
(See also pgs. D27 - D32)

### **Cryo-Trap Installation Packages for TD-5**

Depending on the make and model of Gas Chromatograph one of the installation packages must be ordered for the installation of the Cryo-Trap. The Cryo-Trap installation kits include the relays, mounting hardware, cables and other parts required to mount the Cryo-Trap into the particular model of gas chromatograph. The install kit is required for all GC's except the Agilent 6890.

Part No.	Description	Price
975000	Cryo-Trap for the TD-5	
975010	CO2 valve for the Cryo-Trap (need installation kit - see below)	
975020	LN2 valve for the Cryo-Trap (need installation kit - see below)	
900110	Cryo-Trap Install Kit for Agilent 5890A	
900111	Install Kit for Agilent 5890 Series I & II	
900120	Cryo-Trap Install Kit for Varian 3400/3600/3700 with 1075 Split/Splitless Injector with 1040 Megabore Injector with 1041 Universal Injector with 1077 Split/Splitless Capillary Injector	
900121	Install Kit for Varian 3600 w/ 1078 Injector	
900122	Install Kit for Varian 3800	
900140	Install Kit for Finnigan GCQ	
900130	Cryo-Trap Install Kit for Shimadzu GC-9A	

Kits for Other GC's are available. Call S.I.S. for Details.