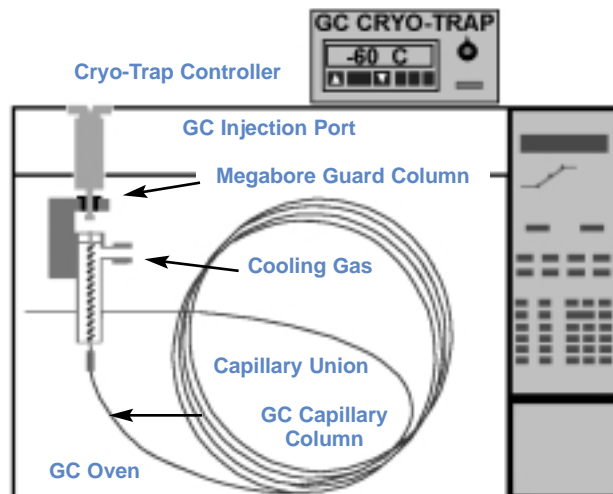


GC Cryo-Trap

Two models of the GC Cryo-Trap are now available. The Model 951 is designed for liquid CO₂ for cryo-trapping temperatures down to -70°C. The Model 981 is designed for Liquid Nitrogen for cryo-trapping temperatures down to -180°C. Each model can maintain any cooling temperature within ±3°C from its minimum temperature up to room temperature. In order to release the trapped volatiles from the GC Cryo-Traps, both models can heat the GC Cryo-Trap at temperatures up to 400°C at a heating ramp rate in excess of 800°/minute. Most users prefer to use the CO₂ version of the GC Cryo-Trap (Model 951) due to the ease of handling liquid CO₂ and for applications where -70°C is an acceptable lower temperature limit.

If lower temperatures are required, then the liquid nitrogen version of the GC Cryo-Trap (Model 961) must be used. The liquid nitrogen delivery lines are larger than the CO₂ lines and the liquid nitrogen lines should be insulated. This makes installation somewhat more cumbersome. In addition the Liquid Nitrogen version uses more cooling gas and is slightly more audible.



Depending on the make and model of your GC, an installation kit must be ordered separately as described below. First you must decide which model of Cryo-Trap is required for your application; the Model 951 for use with CO₂, or the Model 961 for use with liquid Nitrogen. Neither the GC Cryo-Trap or its related electronics are interchangeable between the two cooling gases. You must then select which installation kit is required based on the make and model of your gas chromatograph. Either of the two Cryo-Trap models use the same installation kit listed below.

Custom I.D. Manufactured Cryo-Traps

Our standard GC Cryo-Trap can handle up to megabore capillary columns (1.0mm O.D.). In response to specific customer requests for larger trapping capabilities, we have designed and produced Cryo-Traps that can handle either 1/16" O.D. tubes or 1/8" O.D. tubes. To accommodate these size tubes, the inside capillary tube in the cryo-trap is manufactured with either 1/16" I.D. or 1/8" I.D. stainless steel capillary tube. These traps can be used either inside or outside the GC oven depending on the users requirements. These larger I.D. traps have been used by several users for high flow applications and trapping of analytes outside the GC oven. Call SIS with your specific requirements or for custom mounts or other modifications.

Custom GC Cryo-Trap - Ordering

Custom Manufactured Cryo-Traps

- Part # 951161** - Model 951 GC Cryo-Trap for use with 1/16" I.D. center tube for use with liquid CO₂
- Part # 951081** - Model 951 GC Cryo-Trap for use with 1/8" I.D. center tube for use with liquid CO₂
- Part # 961161** - Model 961 GC Cryo-Trap for use with 1/16" I.D. center tube for use with liquid LN₂
- Part # 961081** - Model 961 GC Cryo-Trap for use with 1/8" I.D. center tube for use with liquid LN₂

Note: Custom mounts and other modifications are extra.

GC Cryo-Trap - Ordering

Model 951 GC Cryo-Trap for use with Liquid CO₂

The Model 951 GC Cryo-Trap is designed for use with liquid CO₂ tanks with a DIP tube. The minimum temperature of cooling is -70°C. This model comes with the GC Cryo-Trap, the dual temperature cables and stainless steel connecting line.

*Order installation kit below.

Part # 951110* - Model 951 GC Cryo-Trap for use with liquid CO₂, Electronics Controller, CO₂ valve, connecting cables, and stainless steel connecting line

Model 961 GC Cryo-Trap for use with Liquid Nitrogen

The Model 961 GC Cryo-Trap is designed for use with liquid nitrogen tanks (low pressure). The minimum temperature of cooling is -180°C. This model comes with the GC Cryo-Trap, the dual temperature cables and copper connecting line.

*Order installation kit below.

Part # 961110* - Model 961 GC Cryo-Trap for use with liquid LN₂, Electronics Controller, LN₂ valve, connecting cables, and copper connecting lines

Cryo-Trap Installation Packages

Depending on the make and model of Gas Chromatograph one of the installation packages must be ordered for the installation of the GC 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.

900110	Cryo-Trap Install Kit for HP 5890A
900111	Cryo-Trap Install Kit for HP5890 Series I & II
900112	Cryo-Trap Install Kit for HP 6890
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
900130	Cryo-Trap Install Kit for Shimadzu GC-9A
900140	Install Kit for Thermo Finnigan GCQ