

SGC-4900 Stirling Gas Cooler

The Apex Instruments **SGC-4900 Stirling Gas Cooler** is specifically designed for removing moisture from process gas samples prior to gas analysis. The **SGC-4900 Stirling Gas Cooler** uses an innovative **FPSC (Free Piston Stirling Cooler)**. Water vapor is removed by quickly cooling the flue gas sample as it passes through two condensers in series. The first condenser is air cooled and the second condenser is actively cooled with the FPSC module. The cold finger side of the FPSC is inserted directly into the anodized aluminum heat exchanger which surrounds the gas condenser. No piping for the environmental friendly helium refrigerant is required. Gas path features corrosion resistant materials.



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Stirling Gas Condenser SGC-VGC-9C

High efficiency coiled glass condenser with water separator. The coil is constructed from small bore tubing, maximizing surface area to volume for quick cooling, and facilitating droplet removal. All connections have GL18 threads for accepting 1/4" or 3/8" tubing with the appropriate sealing ring. The condenser body has a 2" O.D., overall length 9". The water jacket should be filled with an alcohol water solution to prevent freezing, e.g. Windshield washer solution.

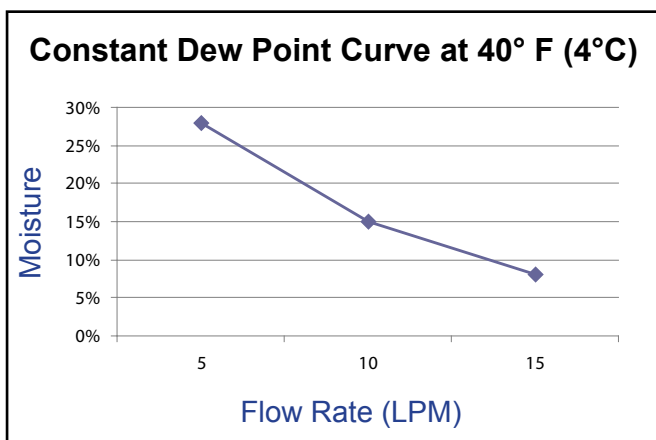
Rack Mount SGC-4900

Features

- Low Gas Absorption
- Easy to Maintain
- Integrated Heater
- Energy Efficient
- Two Stage Cooler
- Digital Temperature Control
- Light Weight
- High Capacity
- Rack Mountable
- FPSC

Optional Accessories:

- Dual-Head Condensate Pump
- Water Slip Sensor and Alarm (WSS-101)
- Sample Gas pump
- Heated Filters, Probe & HSL



Specifications	Description
Digital Temperature Control	PID, LED Display, $\pm 1^{\circ}\text{C}$
Cooling Capacity	> 65 Watts or More
Chiller Block	Anodized Aluminum
Air Cooled Glass Condenser with Finned Tube Heat Sink	2" O.D., 5.5" Contact Zone
Active Glass Condenser	4.5" Active Zone
Flow Rate	Up to 15 LPM
Dew Point	40°F
Freeze Protection	80w Heater
Ambient Operating Temperature	0 to 50°C (32°F to 122°F)
Inlet / Outlet Fittings	GL18 Threading
Power Requirements	120VAC / 2.5 amps
Dimensions and Weight	19" Rack Mount 17" W x 16" D x 7" H, 28 lbs.