

Carrier Gas Selector CGS-1050Ex

Useful for evolved gas analysis by atmospheric oxidation/combustion

An inert gas such as He is generally used for the atmospheric gas (carrier gas) for pyrolysis GC (Py-GC). However, recently air is often used as a carrier gas for pyrolysis analysis in research of environmental pollution control. Theoretically, air can be used in the present devices, but it requires professional expertise and careful modification of devices. The new device, "Carrier Gas Selector" allows switching of gases such as He and air interchangeably while it is connected to the device.

Three Features

- Combined with Py-GC, it allows flash pyrolysis of polymers in various carrier gasses and evolved gas analysis at up to 1050°C in temperature program mode.

With a Multi-Shot Pyrolyzer™ operating in a temperature program mode, varied heating conditions are available to meet your specific needs. Moreover, using the Selective Sampler with various carrier gases, evolved gases from any temperature zone can selectively be introduced into a GC column.

- Instant switching of carrier gases.

The system uses solenoid valves, and the dead space of the flow system is reduced to less than 0.5 mL.

- Protection against Malfunction

When Pyrolyzer is not in use, protection against operational errors of the front panel switches is implemented so that reactive gases do not flow into GC.

Specifications

- ◇ Equipped with two carrier gas connection ports (1/8 inch bore)

One is for inert gases such as He, and the other for various atmospheric gases such as Air, O₂, H₂, CH₄, etc.

- ◇ Carrier gas in use : Indicated by ON/OFF lamp

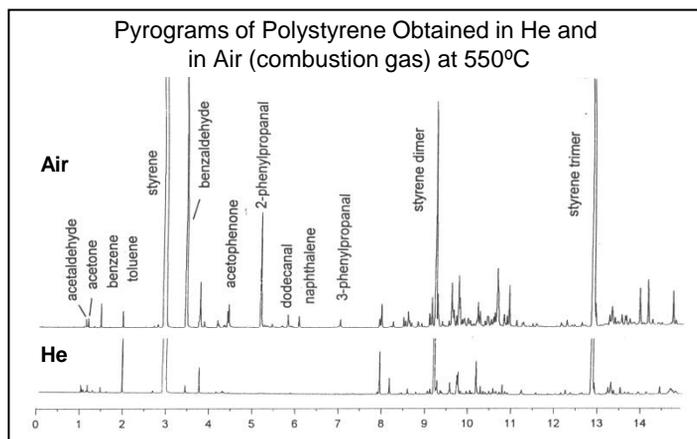
- ◇ Carrier gas switching : Manual switching of flow path with solenoid valves or Auto switching through EGA/PY-3030D pyrolyzer control software.

- ◇ Power : 100VAC, 0.5A

- ◇ GC required : Agilent GCs, Shimadzu GC-2010 and GC-17A (If in doubt, contact us.)

Setup

- ◇ The unit is easily setup by users.



Front view of Carrier Gas Selector (CGS-1050Ex)



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