

## Economical, Bench Mounted Electric Box Furnace With Alloy Retort For Processing in Inert Atmosphere



Model GS1714 is as described in Bulletin GS1714-09-14 with angle iron stand. Included is a modified commercial control package which contains a DynaTrol program control and a Bartlett 3K overtemperature control. There are two (2) thermocouple inputs to the DynaTrol program control and two (2) Power Relay outputs, wired in series. The DynaTrol can be easily adjusted so that the furnace can be operated without the alloy retort in place. There can also be a programmed lag and offset to adjust the output from the control to the elements outside retort. Please see the optional equipment pricing for this modification.

The retort has a sand seal and is fabricated from Inconel 601 which can be used at temperatures up to 2175°F (1190°C). Dimensions inside the retort are 12" wide x 12" deep x 6" high. It is supported on brick piers inside the furnace chamber. The retort inlet and outlet is through the front of the furnace door. An inert atmosphere flow panel with flowmeter, pressure gauge, regulator and shutoff are included. There is also a secondary port into the furnace for inert atmosphere

purge directly into the chamber. This is controlled by a separate independent flowmeter.

A Compact lift truck is used to Load and Unload Retort into GS1714. Rolls through standard doorways in the upright position without having to tilt back the truck. Constructed of durable steel and lightweight aluminum frame, with 2"W x 1" thick steel forks that measure 9- 1/2"W x 22"L overall. With fixed legs to roll under GS1714 stand. Operated by a hand-crank winch that features a reversible handle and a hold-down device for securing the carriage during transport. Rolls easily on 8" non-marking rubber rear wheels and 2" front swivel casters. Upper handle rollers allow the truck to be loaded onto its back for van or pick-up transporting. (Note: this is a Global Industrial Equipment Stock No. WG241655, modified with special forks for this type of service and with pins to limit up and down fork travel. There is substantial design and special fabrication to this part to meet application process.)