

HYVAC PRODUCTS, INC.

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HyVac Analog Vacuum Gauges Catalog 94181-101

The following are processes often require accurate vacuum measurement and control:

- Glove Boxes
- Vacuum Furnaces
- Freeze Drying
- Air Conditioning
- Plasma Coating
- Cryogenics
- Thermal Food Containers
- Pharmaceutical Production
- Agricultural Processes
- Refrigeration (HVAC)

Design Features

HyVac 0-5 Torr Vacuum Gauge, Model 94181-101 is a stable, dependable instrument for less demanding application. This modular gauge features solid-state construction with a taut-band meter and provides rapid response. The gauge tube has excellent stability and ruggedness and provides pressure measurements over the 0-5 and 0-50 Torr ranges. Dual-scale meter faces also provide millibar readings.

HyVac 0-5Torr vacuum gauge uses a noble metal thermopile circuit. The hot junctions of the thermopile are heated directly by an AC current, while an equal number of cold

junctions are kept at ambient temperature by heavy mounting studs. Thus a dc-voltage is generated between hot and cold junctions. As the pressure decreases, the lowering of the thermal conductivity of the gas surrounding the hot junctions tends to increase the temperature of the hot junctions, thus increasing the output of the thermopile. Environmental tests show that the gauge tube is stable over a wide temperature range. The instruments are relatively free of cable-length effects, permitting changes of cable length up to 25 feet without readjustment or recalibration.



Vacuum Controller

The HyVac vacuum controller, is a fully automatic, continuous-reading instrument for less demanding applications. This modular instrument provides dependable control with simplicity and economy. The gauge tubes have excellent stability and ruggedness and provide pressure measurements over the 0-5 and 0-50 Torr ranges. Dual-scale meter faces also provide millibar readings

Installation Accessories

HyVac offers a complete line of system attachments allowing for easy maintenance and contamination resistance operations. Gauge tubes are offered with various system fittings to match almost any system attachment requirement. Additionally, HyVacs' complete line of quick disconnect attachments allowing customers to install these special fittings once and then easily replace sensors without vacuum sealant or tape. For particularly dirty systems, HyVac offers a particle drop-out trap containing a series of nine separate baffles which prevent solid contaminants from having a direct path to the sensor's thermopile.