

PVT OPERATION: PVT Equipment

PVT Equipment Catalogue | PVT Equipment

GASOMETER

The Ruska gasometer is designed for the precise volumetric measurements of atmospheric gas. Accurate volume measurements of all types of gases are very difficult to obtain, especially those that contain carbon dioxide.

This instrument was developed for use in a PVT laboratory where all types of gases are encountered. It has two precision bore glass tubes; a 1000 cm³ and 2000 cm³, which can be connected together to produce a total volume of 3000 cm³.

Each tube can be used individually as well as together. The instrument contains an atmospheric volumetric pump with the piston connected to a measuring device, including a scale, a venier and a pressure adjusting knob.

Integral safety considerations in the form of pressure relief valves and shielding of the viewing slots.

**Specifications**

Total capacity: 3000cc

- **Left Side Capacity:** 2000cc
- **Right Side Capacity:** 1000cc

Accuracy of each cylinder: 0.2% of Reading

Max Pressure: 50 In. of Water (about 2 psi)

Scale Resolution: 0.1% of full scale

Material consumption:

Aluminum, Brass, Phosphor Bronze, Stainless steel, Pyrex Tubing, Fluorocarbon, and Nitrile (Buna-N)

Dimensions:

Height = 36-1/2",

Depth = 7-5/16"

Width = 13-5/16"

Weight: 35 pounds

H₂S SAFETY**H₂S (Hydrogen Sulfide) Properties**

Colour: Colourless

Odour: Very offensive, commonly referred to as odour of rotten eggs.

Vapour Density: 1.5399 g/l H₂S is heavier than air.

Boiling Point: -76°F (-60°C)

Explosive Limits: 4.3 to 46% by vol. in air

Ignition Temp.: 500°F (260°C)

Water Solubility: 4 volumes gas in 1 volume water at 32°F

Flammability: Forms explosive mixtures with air or oxygen