

SYD-8019B Existent Gum Tester

Summary

This instrument is designed and made as per standards GB/T 8019-2008 Standard test method for gum content in fuels by jet evaporation. It can be used to determine the existent gum content of aviation fuels by steam vaporizing medium.

Equipping with an air compressor, this instrument can also be used to determine the existent gum content of aviation gasoline and motor gasoline by air vaporizing medium.

I. Main technical features

1. It equips a specially designed heating bath. The gas circuit is designed reasonably and the effect of evaporation is good.
2. The material of working bench is stainless steel. It has 3 sample wells. A pressure gauge shows the flow rate when steam vaporizing medium is used. A ball float type flow meter shows the flow rate when air vaporizing medium is used. It can determine 3 samples at a time.
3. The instrument is desktop structure. Simple design and easy to operate.



II. Main technical specifications

1. Power supply: AC(220 \pm 10%)V, 50Hz, 2.5kW
2. Test wells: 3 wells
3. Operating temperature:
 - 1) Test bath temperature is (232 \sim 246) $^{\circ}$ C and test well temperature being (229 \sim 235) $^{\circ}$ C for a steam bath.
 - 2) Test bath temperature is (160 \sim 165) $^{\circ}$ C and test well temperature being (150 \sim 160) $^{\circ}$ C for air bath.
4. Temperature control: Automatic
5. Temperature display: Digital
6. Flow display: Pressure gauge shows flow rate when steam vaporizing medium is used. Ball float type flowmeter shows flow rate when air vaporizing medium is used.
7. Working pressure of air reducing valve: 0.035MPa (for air vaporizing medium) .
8. Gas source: Electrical heating steam generator for steam vaporizing medium. Air compressor for air vaporizing medium, over (1000 \pm 150)ml/s.
9. Overall dimension: 640mm \times 480mm \times 340mm (Thermometer holder is not included) .

Electrical heating steam generator

1. Model: LDRO.013-0.7
2. Rated evaporation capacity: 13kg/h
3. Rated working pressure: 0.7Mpa.
4. Power supply: 3 phase, AC380V, 50Hz, 9000W.

(An air compressor is optional for determining the existent gum content of motor gasoline.)