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Model ABS-2 Automatic Bottle Sampler

- **Pressure range to 60 psi allows viscosities to 80 centistokes**
- **Automatic drain**
- **Precision flow control valve**
- **Vacuum mode removes bubbles**
- **Pushbutton switches from pressure to vacuum mode**
- **Electromagnetic stirrer**
- **Drip tray for clean work area**
- **Volume measurement for contamination concentration levels**
- **Manual or automatic operation**

The HIAC Model ABS-2 is a pressure sampling device used for batch analysis of volatile or viscous fluids. The Model ABS-2 accurately delivers fluid to the sensor at flow rates of 10 to 200 ml/min. It contains a precision metering valve for accurate control of flow rates, regardless of sample viscosity. A check valve in the sample introduction line eliminates backflow and minimizes sample cross contamination, and an automatic drain mechanism allows unattended sample analysis of multiple runs.

The Model ABS-2 sampler has a built-in pressure/vacuum chamber that subjects samples to pressures up to 60 psi, accommodating viscosities up to 80 centistokes. In addition, vacuum levels of 23 psi are used to degas samples which contain entrained air. The precision metering valve, which lies downstream of the sensor, also serves to reduce the pressure drop across the sensor thereby minimizing cavitation of volatile samples.

The sample platform is constructed of durable anodized aluminum. The dual latch mechanism of the older design is replaced with a new circular locking ring engaged by an easy-to-grasp handle, allowing for "one-hand operation." The sampler can interface directly to a pressurized house air source or a pressure/vacuum pump. An internal filter and moisture trap provide a clean dry source of air to the sample chamber to prevent moisture contamination of oil samples.

Specifications

Pressure Range 10 to 60 psi (0.7-4 atm)
Flow Rate Accuracy ± 5% of selected volume
Sample Flow Rate 10 to 200 ml/min, user adjustable
Sample Volume 10 to 100 m, user adjustable
Repeatability ± 1% flow rate
Operating Environment 41 to 104°F (5 to 40°C)
0 to 80%, relative humidity, non-condensing
Power Voltage 100-120 or 220-240 VAC
Frequency 47 to 63 Hz
Maximum Current 0.630 A @ 115 VAC
0.50 A @ 220 VAC

Dimensions 12" wide x 11" deep x 19" high (30 x 28 x 48 cm)
Sample Bottle Clearance Standard unit: 5.8" (14.7 cm)
Extension kit: 9.0" (22.8 cm)
Weight 22 lbs (10 kg)

Wetted Materials

Teflon® (PTFE, TFE, PFA)
Kel-F™
Borosilicate Glass
Schott BK7™
Stainless Steel 316
Viton™
Stycase™ 2850 Adhesive

Accessories Included

Sampler
Stirring rod
Manual

When Ordering, specify

Power (AC) 100-120 VAC or 220-240 VAC

Optional Accessories

Cables and power cord
Pump, 100 VAC
Pump, 115 VAC
Pump, 220 VAC

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