

DIGITAL GAS DIFFUSER VERIFICATION DEVICE

PART # 550154



THE PRODUCT

A. Digital Manometer, #8 Rubber Stopper, Filtering Flask, Tygon Tubing, Quick Connect, Micro-Air Shutoff Valve, and Air Flowmeter.

PURPOSE

A. The Digital Gas Diffuser Verification Device is used to determine the validity of gas diffuser stones. The verification of the gas diffuser stone specification is described in Annex A1 of both the D892 and D6082 methods "Test for Maximum Pore Diameter and Permeability of Gas Diffusers".

FEATURES

- A. Allows testing for maximum pore diameter and permeability
- B. Determine the validity of diffuser stones

ANNEX FOR MAXIMUM PORE DIAMETER AND PERMEABILITY

Because foam gas diffuser permeability and porosity can change during use, the D892 test method recommends that gas diffuser stones be tested when new, periodically, and preferably after each use. The D6082 method requires verification of the specifications for new gas diffusers and after each set of 10 sample runs or less.

Therefore, the Gas Diffuser Verification Device allows testing for maximum pore diameter and permeability of gas diffuser stones according to the ASTM D892 and D6082 foam test methods. The maximum pore diameter is the diameter in micrometers of a capillary of circular cross-section, which is equivalent to the largest pore of the diffuser under consideration. Permeability is the rate a substance passes through the gas diffuser stone under given conditions.

Part #	550154
Test Methods	ASTM D892, D6082
Voltage Compatability	100-240 VAC
Flow Meter Accuracy	+/- 1.0%
Digital Manometer Accuracy	+/- 1.5%
Maximum Pore Diameter (Seq. 1-3)	Not greater than 80 μm
Maximum Pore Diameter (Seq. 4)	15 μm to 60 μm



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