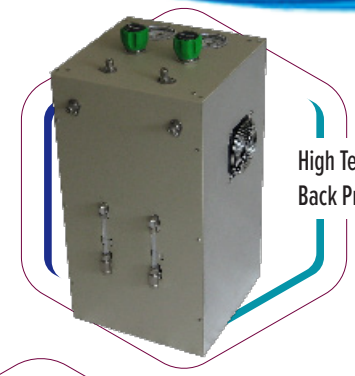
Back Pressure
Manual or Automatic Control

For accurate, independent control, and measurement of anode and cathode pressure

Scribner offers three back pressure systems—**Standard, Automatic and High Temperature**

OPTIONS



High Temperature Back Pressure

Standard Back Pressure

Automatic Back Pressure

The Back Pressure System features

- All stainless steel construction – regulators, condensate collection tanks, tubing and fittings
- Dual channel with isolated flow paths
- Designated for use with gas with dew point up to 120 °C at 10 SLM*
- Independently control or balance anode & cathode pressure**
- Accurate pressure control (±3.5 kPa or 0.5 psi) & stability from 0.1 – 10 SLM**
- Precision pressure transducers**
- Flexible pressure control through FuelCell®**
- Control excess gas flow during pressure increases**
- Maximum back pressure & differential pressure set points and alarm triggers**
- Program pressure profiles using Change Pressure Experiment or Arbitrary Control Experiment**

* HTBP and Auto BP
** Auto BP

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SPECIFICATIONS: Back Pressure

Automatic Back Pressure:

Back Pressure Control	10 - 310 kPag (1.5 - 45 psig)
Control Accuracy	±3.5 kPa (±0.5 psi)
Range	0 - 310 kPag (0 - 45 psig)
Measurement Accuracy	2.5 kPa (0.35 psi)
Channel-to-Channel Pressure Difference	< 3.5 kPa (< 0.5 psi)
Time to achieve normal P-to-P Set-point (when not flow rate limited)	< 10 s
Overshoot	< 5 kPa (1.5 psi)
Flow Rate	0.1 - 12 SLPM
Inlet Gas Temperature & Dew Point	Up to 120 °C
Pilot Gas Supply	Clean, dry air or N_2, 345-480 kPa (50-70 psi), ≤ 1 SLPM
Dimensions	33 W x 33 D x 64 H (cm), 13 W x 13 D x 25 H (inch)
Operating Temperature	5 - 35 °C
Power Requirements	100 - 240 V, 50 - 60 Hz, 2 A

All Back Pressure Instruments

Stainless Construction	Regulators, condensate collection tanks, tubing and fittings
For use with gas with dew point	Up to 120°C at 10 SLM
Anoe and Cathode Pressure	Independently controlled or balance