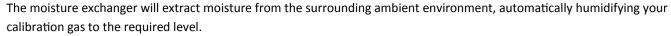


Improve Gas Detection Sensor Accuracy by Adding Humidity to Your Calibration Gases

Humidifying calibration gas has been shown to improve Gas Detector accuracy and reduce false alarms for many sensor and gas types. Perma Pure's BE Series of Moisture Exchangers has been tested and characterized for users and installers of Gas Detection Systems to make it easy to humidify their calibration gas during the system calibration and set up procedure. A range of lengths is available for the most common flow requirements.

of lengths is available for the most common flow requirements. Features and Benefits

Simple Installation — Place the BE moisture exchanger in line with the calibration gas before the sensor with the outside of the moisture exchanger fully exposed to the surrounding atmosphere.



Continuously Regenerating — The Moisture exchanger continuously regenerates, providing consistent performance over time.

Low Service Costs and Long Service Life — Product does not "wear out" or lose performance with repeated use.

Corrosion Resistant Construction— The moisture exchanger materials are chemically resistant to most gases being detected.

Performance Graphs - RH v Calibration Gas Flow Rate

Performance data is shown in two ways:

- Figure 1 and 2 show the resultant outlet humidity's at various flow rates for two controlled environments—one at 20 °C with a 15 °C dew point (a standard mild climate) and one at 35 °C with a 27 °C dew point (a typical hot and humid tropical climate)
- Figure 3 shows the outlet RH vs. inlet RH at the common flow rate of 1 LPM for a range of lengths.

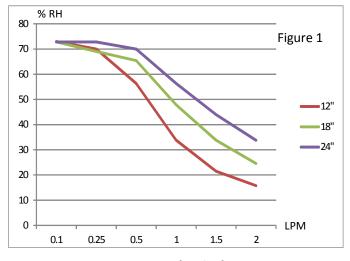


Fig. 1 - Ambient conditions of 20 °C w/15 °C Dew Point (73% RH)

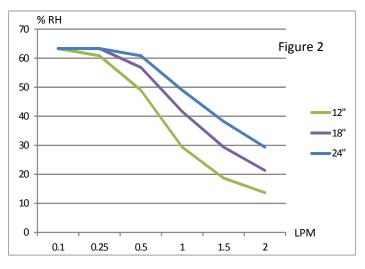
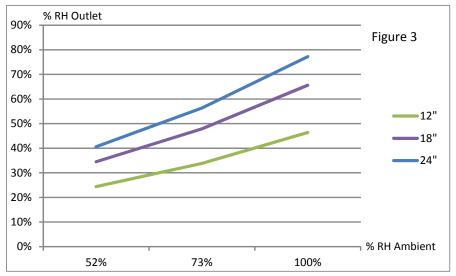


Fig. 2 - Ambient conditions of 35 °C w/ 27 °C Dew Point (63% RH)



Performance Graphs - Resultant RH v Ambient RH

Figure 3: Flow Rate of 1 LPM, 3 lengths (12, 18 and 24"), 20 °C Ambient Conditions, RHs from 50-100%





Operating Specifications

Temperature	0-80°C	
Pressure	Maximum 90 psi (6 bar)	
Humidity (Ambient)	0-100% RH	
Tubing Material	Nafion	
Braided Material	Polypropylene Line	
Connector Material	Molded Polypropylene	

	Flow Rate	Recommended Active Length
Size Selection	0—0.5 lpm	12"(15cm)
	0.5-1 lpm	18"(30cm)
	1-2 lpm	24"(60cm)
	2-4 lpm	48"(90cm)

Intelligent Product Numbering System

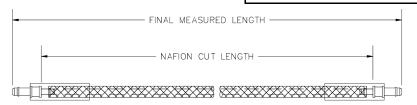
BE - 110 - 24 BI

1. Series 2. Tubing Size 3. Le

3. Length 4. Connection

1. Series					
Braided Moisture Exchanger	BE				
2. Tubing Size					
0.110" Nafion® Tubing	110				
3. Dryer Active Length					
6" (15 cm)	6				
12" (30 cm)	12				
18" (45 cm)	18				
24" (60 cm)	24				
48" (120 cm)	48				
4. Connection Ends					
1/4" molded headers for compression fitting	s COMP4				
1/8" Barbed fittings	BB				

Dimensions



Dryer Active Length	12" (30 cm)	18" (45 cm)	24" (60 cm)	48" (120 cm)
Total Length ('L')	13.1" (33.3 cm)	19.1" (48.6 cm)	25.1" (63.8 cm)	49.1" (124.8 cm)