

# HUMIDIPOWER™ FUEL CELL HUMIDIFIER

## HEAT AND MOISTURE EXCHANGER FOR FUEL CELLS



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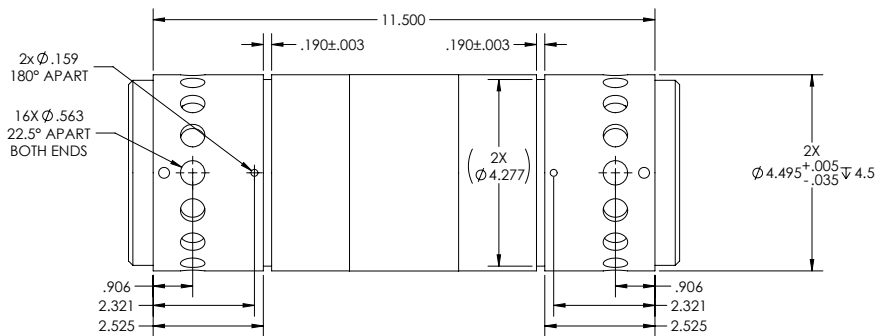
### MAINTAIN HUMIDITY IN FUEL CELLS

Clean, renewable energy is an evolving and growing market aimed at reducing harmful air emissions. Fuel cell technology is a clean energy solution that uses electrochemical reactions to produce electricity. Fuel cells rely upon adequate moisture levels to keep the electrons flowing - which decreases resistance. Pentair's HumidiPower Fuel Cell Humidifier acts as a heat and moisture exchanger to help maintain the humidity and thermal energy in fuel cells for optimal operation and longevity.

### FEATURES & BENEFITS

The HumidiPower Fuel Cell Humidifier offers the following advantages:

- Patented spiral wound hollow fiber design for high efficiency moisture transfer to air and other gases
- Robust design for years of reliable service
- Compact and lightweight
- Low pressure drop to help minimize energy usage
- No power consumption
- Derives humidity from fuel cell exhaust, recycles moisture from purge gas
- Convenient off-the-shelf design or custom design to exact customer specifications.



COMPONENT	MATERIAL/VALUE
Shell Material	Aluminum, Grade 6061
Mounting Orientation	Any
Temperature Range	+2 to 80°C (35 to 176°F)
Pressure Range	up to 3.5 barg (50 psig) operating pressure
Required Filtration	0.1 µ coalescing filter (if mounted on an oil-free compressor) 0.01 µ coalescing filter (if mounted on lubricated compressor)



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### ENGINEERED FILTRATION

1350 HAMMOND RD, ST PAUL, MN 55110, USA 651.653.2000 MAIN 651.653.2230 FAX WWW.PENTAIR.COM

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