

A Non-porous Water-selective Gas Membrane Dryer for Rapid Gas Drying and Dehumidification

Features

- Both drying and humidification are possible
- Wide variety of sizes
- Highly durable and corrosion resistant
- Non-porous and flexible
- Only moisture is rapidly transferred
- Ecological value - no energy input required

Applications

Dehumidification

- Industrial compressed air: pneumatics
- Gas analysis: environmental, medical

Humidification

- Industrial gas treatment
- Medical oxygen gas
- Fuel cell



Easily connectable modules

The module is simply structured with hollow fiber membranes and durable casings. We produce a wide variety of modules and customized products.

Water-selective permeability

The membrane allows only water vapor to permeate. The other gas components keep their ratios.

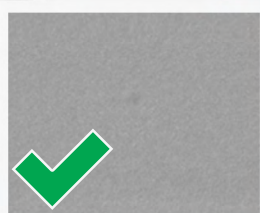
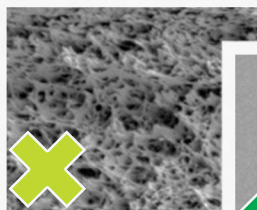
Features of Non-Porous Membranes

Other companies use porous membranes to remove moisture, but this allows substances that are smaller than the pores to escape along with the moisture. FORBLUE sunsep membranes are non-porous, minimizing the transfer of gases other than moisture.

High chemical resistance

The membrane is made from a fluorinated ionomer.

Porous
membrane



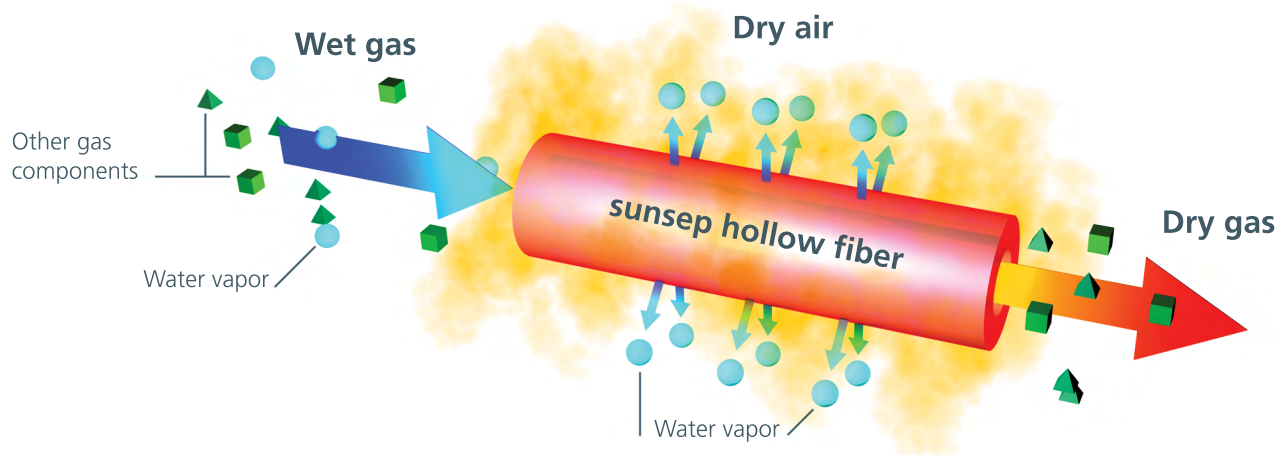
Non-porous membrane

Cross section of hollow fiber membrane, enlarged 25,000x.



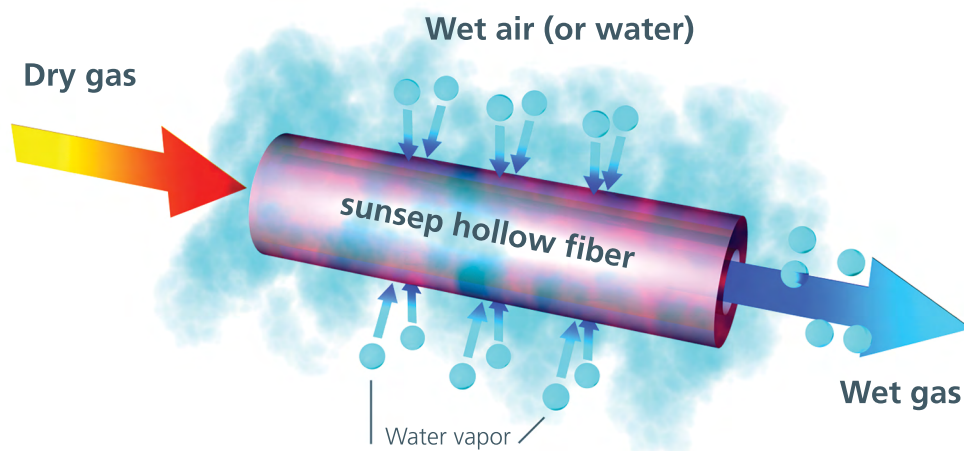
Mechanism of Dehumidification

The sunsep hollow fiber membrane is selectively permeable to water vapor only.



Mechanism of Humidification

The sunsep membrane transports water vapor from the outside to the inside.



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