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

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.

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.

High chemical resistance
The membrane is made from a fluorinated ionomer.
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.