UltiFuzor™ 21110 Series Degas Modules

Data Sheet MEUDM2ENiso

High-performance degas technology to enhance industrial ink jet printer performance

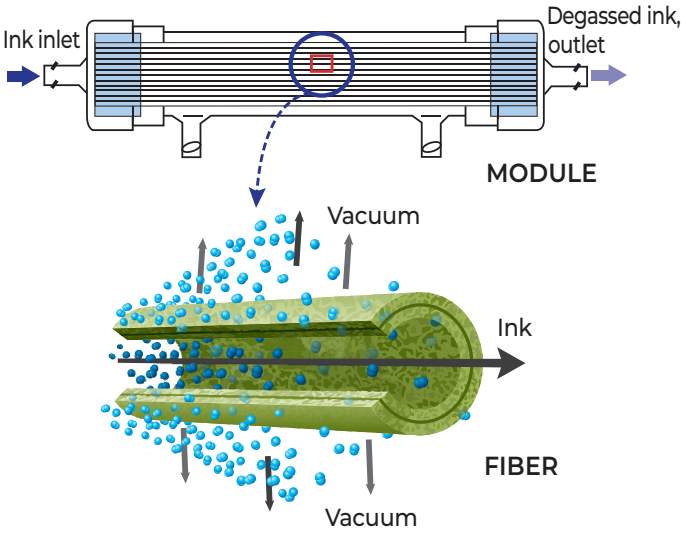
The UltiFuzor™ degas module from Pall is a compact and economical point-of-use hollow fiber contactor with a large membrane area. The UltiFuzor module is intended for use in a wide range of industrial ink jet printers to remove dissolved gasses, prevent bubble formation and assure printer performance.

The module features a lumenside or interior fiber ink flow path and unique tri-layer hollow fiber technology, enabling high degas efficiency performance. The module incorporates a black housing for UV sensitive inks and easy-to-use female luer lock compatible connections.

Lumenside Ink Flow Path

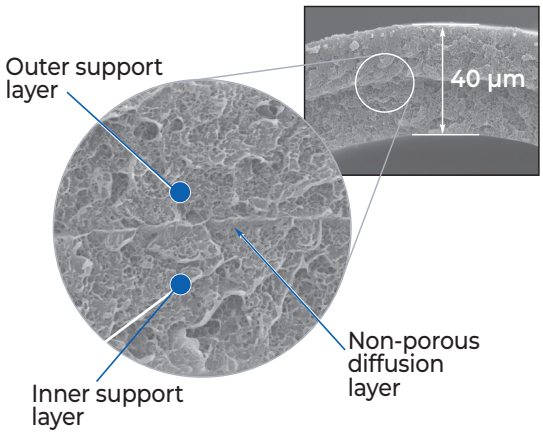
Passing the ink through the interior of the hollow fibers allows for sequential gas diffusion along the length of these fibers, from the inlet to the outlet of the module. This continuous ink degassing process is very effective for removing dissolved gases to very low levels. The extent of degassing can be controlled by regulating the vacuum level. Other factors, such as flow rate and temperature, will also affect the amount of dissolved gas removal.

The unique module design allows for a very large, effective membrane area due to high fiber packing density. As a result, the module can be used at relatively high flow rates and still achieve excellent dissolved gas levels.



Multi-Layer Hollow Fiber Membrane Technology

The UltiFuzor degas fiber has a thin, non-porous polyethylene membrane sandwiched between two protective, highly porous, polyethylene layers, as indicated in the photomicrograph to the left. The gas diffuses rapidly across the very thin middle layer, whereas its non-porous structure prevents even low surface tension inks from leaking into the vacuum line. The inner layer protects the fiber from being damaged by abrasive pigments and thus enhances on-stream life.



Materials of Construction

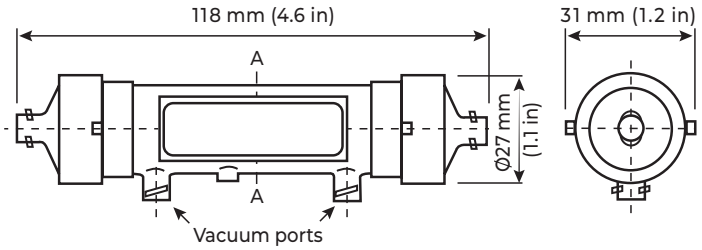
Components	Materials
Housing	Polypropylene with black colorant
Hollow Fiber	Polyethylene
Potting Compound	Epoxy Resin

Specifications[1]

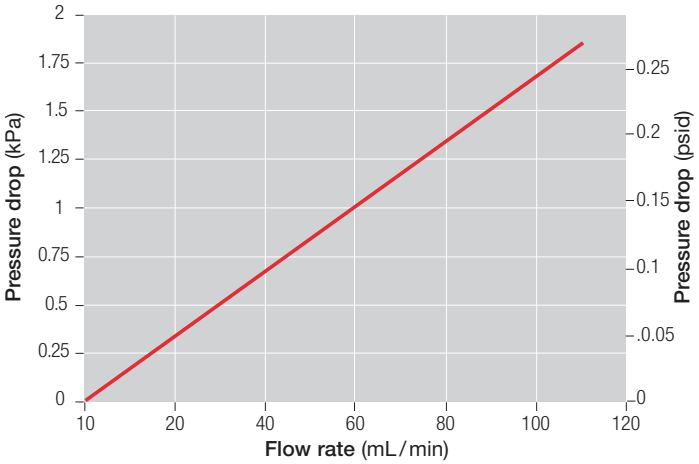
Maximum Operating Pressure	0.2 MPa @ 45 °C 30 psig @ 113 °F
Maximum Operating Temperature	45 °C / 113 °F

[1] Fluids that do not soften, swell or adversely affect the module, fiber or potting compound.

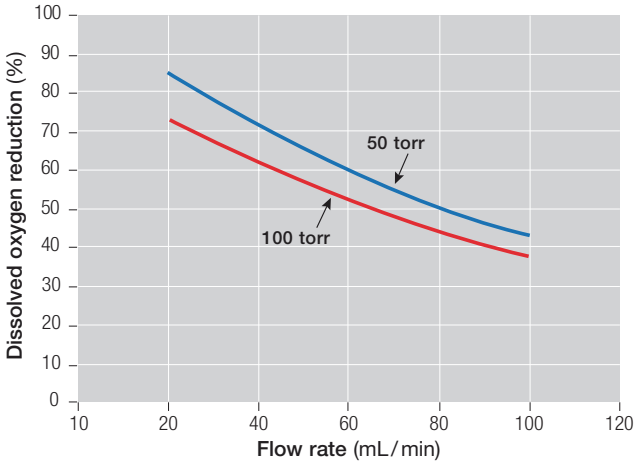
Dimensions (Nominal)



Typical Flow Rate vs Differential Pressure[2]



Typical Dissolved Oxygen Reduction vs Flow and Vacuum Level in Water



[2] For fluids of 1 cP viscosity. As a general guide, for other viscosities, multiply differential pressure by viscosity in cP.

Part Numbers / Ordering Information

(This is a guide to the part numbering structure only. For availability of specific options, please contact Pall)

Part Number : UDM-21110

UltiFuzor Degas Module for Digital Printing with female luer lock compatible connections.
Modules are individually bagged and bulk packaged 25 per carton with 4 cartons per case.

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Pall Corporation has offices and plants throughout the world. To locate the Pall office or distributor nearest you, visit www.pall.com/contact.

The information provided in this literature was reviewed for accuracy at the time of publication. Product data may be subject to change without notice. For current information consult your local Pall distributor or contact Pall directly.

IF APPLICABLE Please contact Pall Corporation to verify that the product conforms to your national legislation and/or regional regulatory requirements for water and food contact use.

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