

Molded Lung Module

A Spectra® Printhead
Support Product



Molded Lung Module, Front



Molded Lung Module, Back

Features:

- Deaeration using patented lung technology
- Compact, lightweight, low maintenance
- Stackable for increased capacity
- Low flow resistance
- Constructed of chemically resistant materials
- Excellent for UV curable inks
- Optional heater and thermistor
- CE certified

The Spectra® Molded Lung Module is a cost-effective, compact, and robust in-line degassing unit for use with one or more Spectra jetting assemblies.

The Molded Lung Module is a cost-effective, compact and stackable inline degassing unit capable of providing support for Spectra jetting assemblies and printheads using UV curable inks and other fluids. It provides the same remote deaeration functionality found in Spectra printheads and reservoirs.

As the ink moves through the unit, externally supplied vacuum removes dissolved gasses from the jetting fluid. This degassing function is essential for fast priming and prevention of bubble growth in the ink at high jetting frequencies. One unit can support up to 512 jets.

The unit is constructed of durable and lightweight molded high density, thermally conductive and chemically resistant materials. The only materials designed to be in contact with the ink are PPS polymer and fluoropolymer. This provides compatibility with all currently certified UV curable inks, UV flushing fluids, and Spectra 7060 Model Fluid. It can be run with ink formulations of up to 90 degrees centigrade provided the ink enters the unit within 5 degrees of its operating temperature at a flow rate of up to 0.5 cubic centimeters per second.

The Molded Lung Module's lightweight design makes it an ideal companion for scanning system architectures. The unit can be mounted horizontally, vertically, or flat, and can be stacked for increased deaeration capacity. Its low flow resistance allows the unit to be placed between the ink supply and the printhead. The unit is CE certified.

An optional heater cartridge and thermistor temperature sensor assembly is available for increased degassing performance and for thermal control of the ink viscosity.

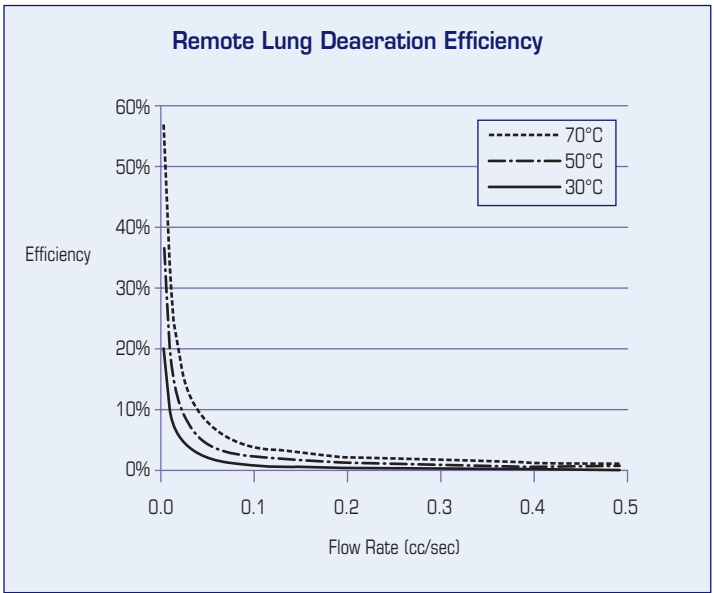
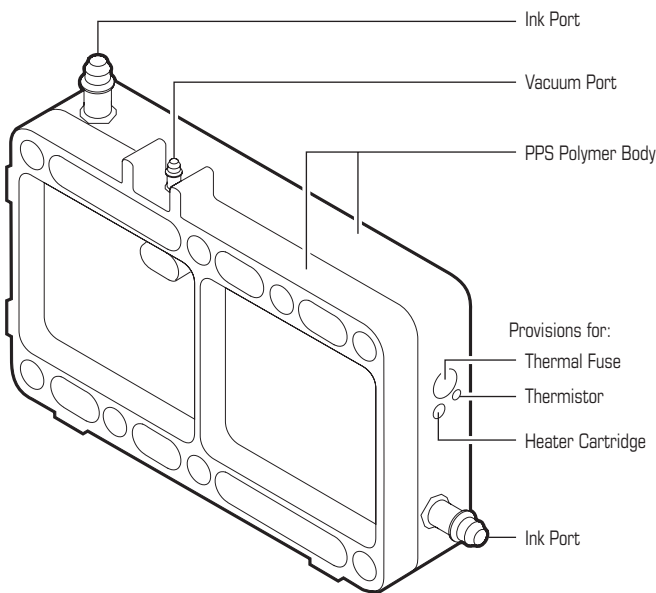


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Parameter	Molded Lung Module
Flow rate	up to 0.5 cc/second
Lung vacuum	≥ 67 KPa (20 inHg) gage
Onboard fluid volume	< 3 cc
Compatible fluids	UV curable inks, NMP, DPMA, other
Operating temperature range	up to 90°C
Typical ink viscosity (at operating temperature)	8-20 cP
Heater and thermistor	optional, 24V

Physical Characteristics

Lung Performance



Note: Heater assembly is optional

Dimensions:

Width 76 mm (3.0 in.)
 Length 115.7 mm (4.6 in.)
 Thickness 23.5 mm (0.93 in.)

Weight:

145 g (0.32 lb)

Product data presented above are for guideline purposes only. For design and engineering work using this product, please contact Dimatix Technical Support for the appropriate Product Manual containing full Product Specifications.



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