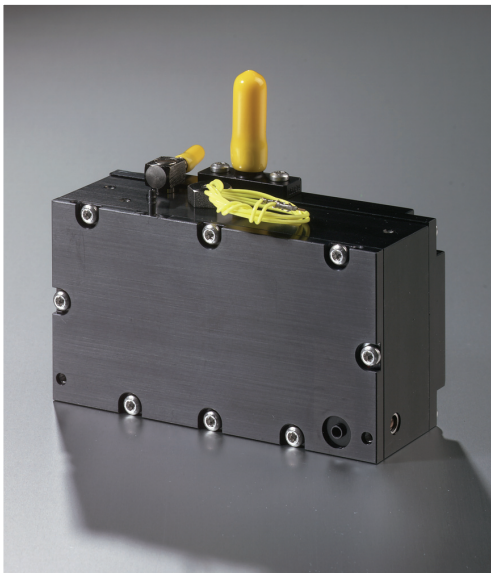


Remote Reservoir-Lung Assembly

A Dimatix Printhead
Support Product



Remote Reservoir-Lung Assembly

Features:

- Local supply of ink and ink level control
- Filtration of incoming ink
- Deaeration incorporating Dimatix' lung technology
- Broad materials compatibility
- Interface for vacuum and pressure regulation
- Ink level sensor
- Optional heater and thermistor

The Dimatix Remote Reservoir-Lung Assembly is an efficient and robust fluid reservoir module for use – in line with or attached to – one or more Dimatix jetting assemblies.

The Remote Reservoir-Lung Assembly is a compact fluid reservoir for Dimatix jetting assemblies using liquid inks. While providing all the functionality of the standard Dimatix printhead reservoir, the Remote Reservoir has the added feature of being able to be used at a position slightly removed from the jetting assembly.

The reservoir holds a working volume of ink, metered by an integral ink-level sensor. As ink enters the reservoir, it first passes through an inlet filter to trap any particles which may have been introduced during umbilical connection. As the ink moves through the reservoir, it passes through the lung mechanism, which removes dissolved gasses from the jetting fluid. This degassing function is essential for fast priming and for preventing bubble growth in the ink at high jetting frequencies.

The Remote Reservoir-Lung Assembly is available in both anodized aluminum and stainless steel. The aluminum version comes with the necessary EPDM O-rings for installation, and the stainless steel version—designed for very aggressive inks – includes perfluoroethylene O-rings.

An optional heater cartridge and thermistor temperature sensor are available for thermal control of ink viscosity.

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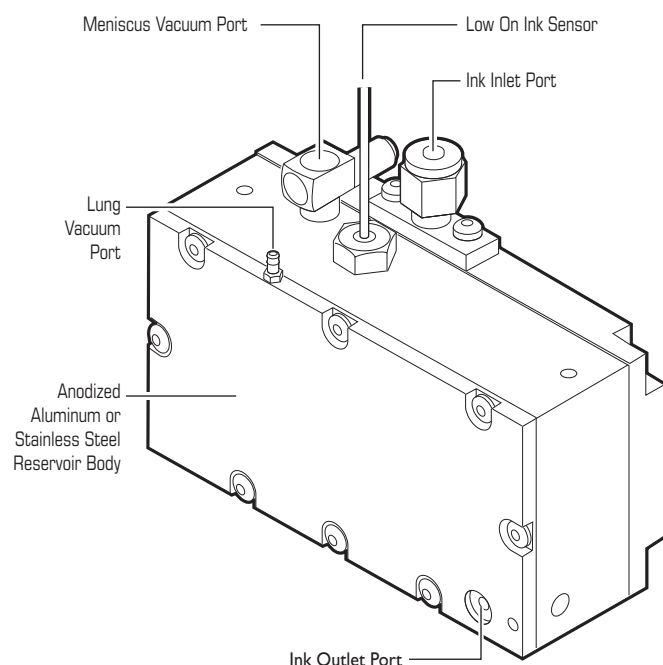
FUJIFILM Dimatix is the world leader in the manufacture of drop-on-demand inkjet products and technologies with over 870 patents since its inception as Spectra Corporation in 1985. We provide exceptional products and customer support.

Remote Reservoir-Lung Assembly

Product Data

Parameter	Remote Reservoir-Lung Assembly
Flow rate	up to 1 cc/second
Ink filter	8 - 9 microns absolute
Meniscus vacuum	as required by the application
Lung vacuum	≥ 20 in Hg [0.67 bar], gage
Compatible fluids	Solvent, UV Curable, and Aqueous
Low on ink sensing	Thermistor, self heat mode
Operating temperature range	up to 90°C [194°F]
Typical ink viscosity (at operating temperature)	8-20 cP
Heater and thermistor	optional

Physical Characteristics



Dimensions:

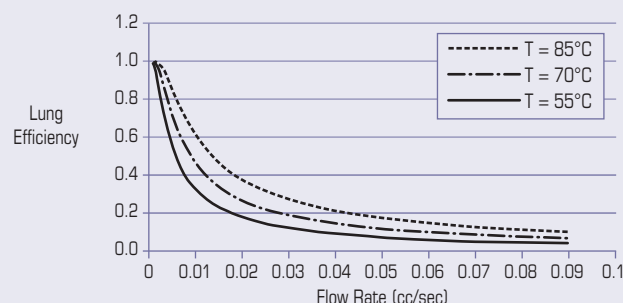
Width	38.6 mm [1.53 in.]
Length	101.6 mm [4.00 in.]
Height	55.6 mm [2.19 in.]

Weight:

0.23 kg [0.5 lb] (Aluminum)
0.68 kg [1.5 lb] (Stainless Steel)

Lung Performance

Lung Deaeration Efficiency vs. Galaxy-30 AAA Duty Cycle at Various Temperatures



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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