Product Description

The PH-46 is a drop-on-demand printhead that contains four independent fluid reservoirs and dispensing devices. The mounting block for the dispensing devices optionally contains a heater and thermocouple, allowing the fluids to be dispensed at up to 50°C. The 2 mL (1.5 and 0.5 mL optional) polypropylene reservoirs can be capped and used to store fluids off-line, and unused fluid can be fully recovered. PEEK and PTFE fittings and tubing combine with the reservoir to make an inert fluid path.

A broad range of materials can be dispensed using the PH-46, including bioactive, optically active, sensor, and other materials. Drop volumes ranging from 5 pL to as high as 0.5 nL have been dispensed.

Standard Features

Four independent fluid reservoirs and dispensing devices; all parts cleanable / reusable; 2 mL capacity removable polypropylene reservoir can be used for off-line fluid storage. Unused fluid recoverable; 250 µL minimum load volume; compatible with Jetlab® 4xl, Jetlab® xl-A, and Jetlab® II.

Available Options

MJ-AT devices available in orifice diameters 10-80µm; 1.5 mL and 0.5 mL polypropylene reservoirs; Operation to 50°C.

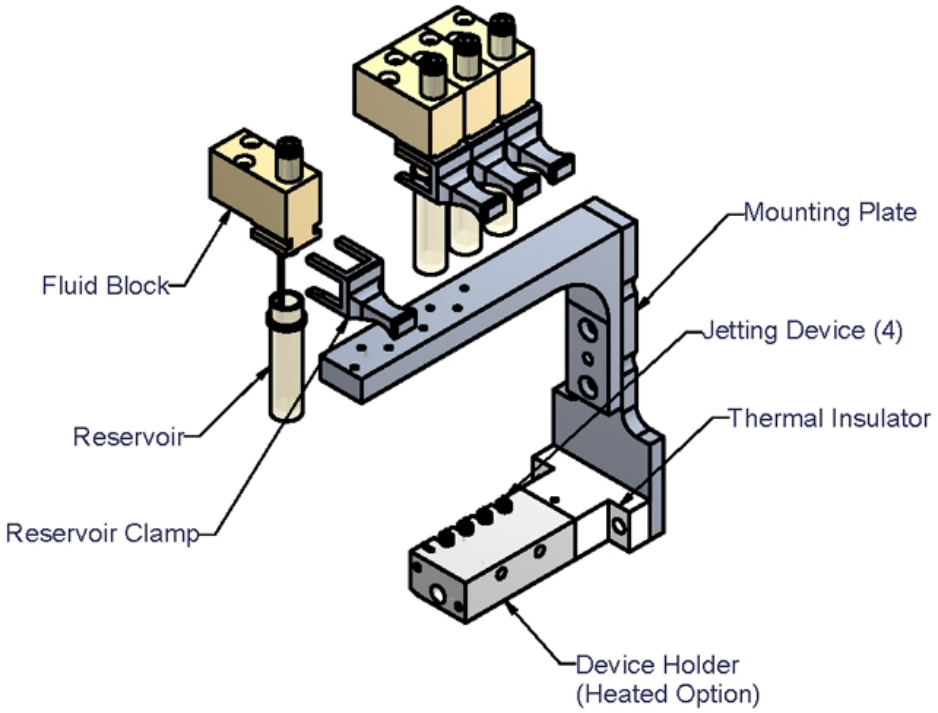
Ordering Information

PH-46 & PH-46H

Four fluid heated drop-on-demand printhead. H for heated option.

MJ-AT-01-xxx

Low-temperature device with MINSTAC threaded fluid fitting, xxx denotes orifice diameter in microns.



Support Equipment

The PH-46 may be combined with a fluid reservoir and the following components and subsystems to create a functional subsystem.

CT-M3-02

JetDrive™ III controller, including command set and Windows based stand-alone control program, JetServer™. Includes built in strobe delay & level 02 firmware (complex waveforms).

CT-PT4

Four channel Pressure / Thermal Controller with four CP-01 manual pneumatic channels. Add one T-01 temperature controller for the PH-41H.

CM-VS-03

Basic Optics System: CCD camera, power supply, lens, fine focus, mounting block.

Additional Information

Brochure (PDF)
Drawings with dimensions
Equipment Selection Guide
Integration Guide
Cleaning Guide