

Hydra Ink Supply System



Xaar's Hydra ink supply solution ensures optimal performance and reliability

Xaar's Hydra Ink Supply System is a recirculating ink supply system which supports Xaar 1003-based and previous versions Xaar 1001 and Xaar 1002, single-pass industrial printers ensuring optimal **performance** and **reliability**. As single-pass applications become more complex and users demand that printers handle a wider variety of jobs and faster turn-around, the overall printer performance and uptime have become critical elements.

The Hydra Ink Supply System is part of Xaar's range of systems components which accelerate OEM **time-to-market** by easing development, saving time and cost whilst ensuring optimal performance of Xaar printheads.

The compact Hydra can be combined with the Hydra Power Supply Unit (PSU), and the Hydra Sensor Manifold, to control nozzle pressure, ink flow rate and temperature. This **complete solution** can support up to four Xaar 1003 printheads. An additional option available for the Hydra PSU is a UPS (Uninterruptable Power Supply) and allows a controlled shut down in the event of power failure preventing ink drying in the printer.

Key features of the Hydra solution are:

- Precise nozzle pressure and ink flow rate control – ensuring reliable operation
- Exact temperature control – enabling the widest range of fluid viscosities
- Intuitive User Interface either via a PC or when operating the Xaar Hydra in stand-alone mode – for easy monitoring of the nozzle pressure, ink flow rate and temperature control
- Supports Xaar 1003-based and previous versions Xaar 1001 and Xaar 1002 printers, used in a wide range of applications – providing the widest possible flexibility and applicability.

Hydra Ink Supply System

.....
Designed for easy integration

.....
Reduced time-to-market

.....
Run stand-alone or monitored through a PC

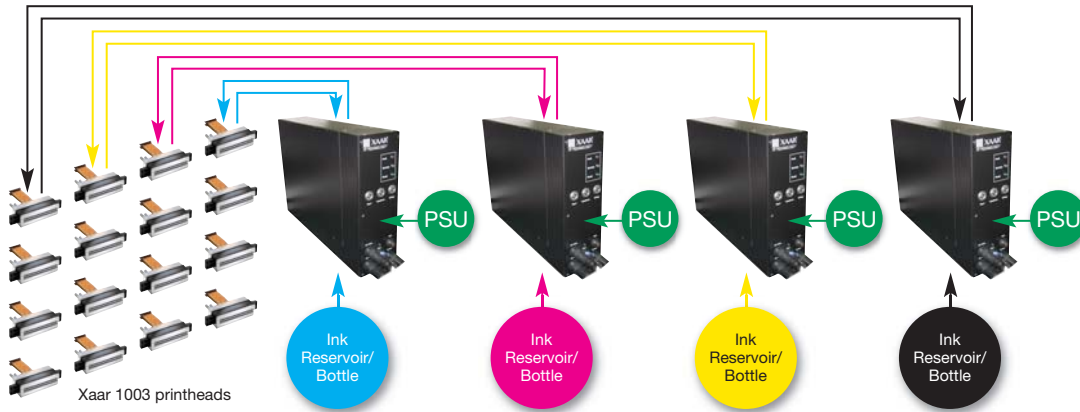


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Hydra recirculating ink supply system specification



Features

Number of printheads that can be fed per Hydra system

Printhead orientation

Number of Hydra Ink Systems required

Printhead meniscus pressure

Flow rate

Fluid temperature range

Fluid viscosity (at jetting temperature)

Built-in filter

Unit to printhead manifold distance

Ink system volume

Typical startup time

Typical shutdown time

Connections

Software control

Customer supplied hardware

Voltage (volts)

ISS dimensions (D x H x W mm)

PSU dimensions (D x H x W mm)

Manifold dimensions (D x H x W mm)

Specification

Up to 4

Downshooter

One for each fluid colour or type

-5mbar to -25mbar +/- 2mbar

3:1 to 15:1

Ambient to 50 °C +/- 0.5 °C

7 - 25 cP

10 µm - field replaceable

4m as standard

1 litre (approx)

~ 20 mins

~ 4 mins

- Fluid input from fluid store (including level-sensor)
- Fluid output to printheads and fluid input to system from printheads
- Drip tray port
- USB to Windows PC
- Control power
- Uninterruptable power supply (UPS)
- Heater power

Using supplied application

- Windows PC to run controller software
- Uninterruptable Power Supply (UPS)

110 or 230

477 x 389 x 110

400 x 310 x 120

27 x 56 x 174



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