The PPSI Recirculating Ink Supply System is a compact, modular ink supply system designed for inkjet integrators who want to implement a ‘ready to run’ ink supply system for industrial inkjet print heads with recirculation requirements. The system is composed of three major components:

1) The Ink Supply that supplies inkjet compatible fluids at proper temperature, pressure and flow volume to the inkjet print heads.
2) The Support Module which provides DC power, vacuum, fluid fill and drain and control communications to the ink supply.
3) The Umbilical Cable which provides quick release multifunction connections to the ink supply and the support module.

3 versions of the system are available: driving up to 4, 8, and 12 printheads respectively. Machine builders can integrate their own recirculating print heads (and print bar), material handling system and print head drive electronics in conjunction with the Recirculating Ink Supply System to provide the necessary support for fluids or ink to the print heads.

Key Features/ Benefits

- Designed for recirculating or flow though type print heads, supports up to 12 print heads
- Compact ink supply, provides mounting flexibility for a wide variety of machine designs
- Integrated pump motor assembly provides high reliability and consistent performance
- Integrated filtration system removes particulates as ink or fluid is circulated
- Regulates fluid temperature, pressure and levels
- Materials are resistant to a wide variety of fluids
- Includes advanced fill and drain functionality with external ink supplies

Prototype and Production Systems, Inc.
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00-19626 Recirculating Ink Supply System

Specifications

Support Module:
Size: 3.5” x 17” x 16” w/ standard 19” rack mount faceplate
Weight: 25 lbs
Connections:
* Integrated Umbilical Cable:
  All connections required to support the ink supply including:
  - Power
  - I/O communications to ink supply
  - Ink Fill-drain
  - Vacuum
* Power Input: 85Vac to 264Vac, 200 watts

* Ethernet connection to host computer

15000 Ink Supply:
Size: 17” x 15” x 2.75”
Weight: 10 lbs
Ports: inflow outflow tubes for up to 12 recirculating print heads
Capacities:
  - Main reservoir: 1 L
  - Weir chamber: 500mL
Filter for continues ink recirculation
Connections:
  * Integrated Umbilical Cable
  * Ink output and input for up to 12 heads

Umbilical Cable:
Length: 2m, 5m, 10m
Weight: 20 lbs

Maximum Ink Recirculation Flow Rates

4-head system – 640 mL/min
8-head system – 1600 mL/min
12-head system – 3200 mL/min

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