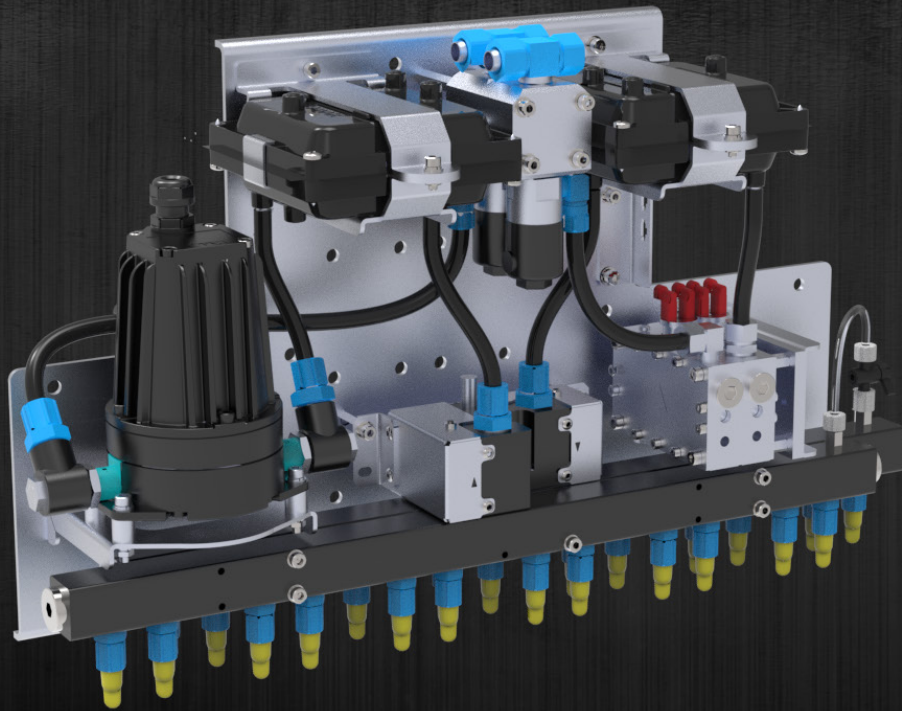




XAAR FloLine

Fluid management system

Modular pre-mounted
system solution

Simple integration

3 pre-configured sizes

Supports all Xaar
TF Technology
printheads

Print quality starts with precise fluid control

The Xaar FloLine offers printer OEMs a highly flexible and modular fluid conditioning and delivery solution that reduces engineering effort and accelerates machine development. Its pre-mounted subsystem design simplifies installation while accurately controlling fluid pressure, flow and temperature, ensuring stable fluid conditions and consistent print performance across a wide range of applications.

Thanks to its modular architecture, FloLine is simple to specify, integrate and commission, helping OEMs reduce development time and bring new systems to market faster. The industry-proven dual-pump recirculation design maintains optimal fluid conditions, delivering reliable operation and maximum production uptime.

With a low component count and highly configurable design, FloLine provides an excellent balance of performance, reliability and value. Systems can be efficiently scaled from simple installations to complex, high-productivity platforms, with functionality added as requirements evolve without redesigning the fluid delivery system. The streamlined architecture also reduces component complexity, minimising maintenance requirements and lowering total cost of ownership.

Available with three fluid distribution manifold sizes, FloLine can support a wide range of print widths and printhead configurations. Suitable for single-pass, scanning and robotic systems, it is compatible with aqueous, oil, solvent and UV fluids, providing a versatile platform for diverse industrial inkjet applications.

XAAR FloLine

Applications

Single pass
Scanning
High motion (Robotic)
High viscosity
High Laydown

Key features of the FloLine solution are:

- Modular pre-mounted fluid management architecture
- Vacuum and compressed air free
- 3 preconfigured sizes for fast integration
- Recirculating, pressure-fed system for small to large machines
- Hydraulic meniscus measurement automatically adjusts meniscus pressure during use
- Closed-loop in-line heater up to 50°C (±1°C) - check
- High viscosity fluid compatible
- Open-source ASCII interface, .NET DLL SDK available
- Standalone operation with stored system parameters

Xaar FloLine specification

Connectivity to printhead	Printhead types	50X, 2002, Nitrox, Aquinox		
	Number of printhead outlets	Small	Medium	Large
	Dual channel	2	4	6
	Single channel	4	8	12
	Maximum flow rate (ml/min)	Up to 1500		
	Maximum in-feed pressure (mbars)	500		
	Maximum return pressure (mbars)	-400		
	Maximum purge pressure (mbars)	500		
Fluid Types	Aqueous	✓		
	Oil	✓		
	Solvent	✓		
	UV	✓		
Operation	Operating temperature (°C)	10-50		
	Storage temperature (°C)	5-60		
	IP rating	IP20		
Electrical	Voltage (VDC)	24		
	Supply power rating	7.5 A (dependent on options supplied)		
	Communication interface	4 wire RS422 / 485 interface Optional USB to RS422 communication gateway adapter		
Physical dimensions		(mm)	(kg)	
	On-engine	257 x 603 x 138	4.6	
	Off-engine	550 x 162 x 155	2.5	
	Buffer tank	345 x 125 x 175	2.1	
	Bulk tank	315 x 120 x 120	0.25	
	Control module	205 x 230 x 72	1.9	
	PSU	65 x 179 x 40	0.8	
	Buffer tank volume (ml)		660	
	Bulk tank volume (ml)		2000	



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