



STARFIRE® SG1024 C-Series

Designed For Ceramic Tile Decorating,
Glazing, Engobe, Glues, Enamels, and
Textures Using Aqueous Fluids



The FUJIFILM Dimatix STARFIRE® SG1024 AQMH and AQLH printheads are high performance, drop-on-demand inkjet printheads designed to meet high environmental standards for emissions and low-energy consumption. This new STARFIRE printhead is purpose-built for today's high-speed, single-pass print systems that use a new generation of aqueous ink with improved quality and productivity. The new FUJIFILM Dimatix STARFIRE printhead features single color operations at resolutions up to 400dpi. It uses field-proven materials to deliver consistent output over a long service life with REDIJET® continuous ink recirculation. The printhead is fully repairable. It is equipped with a replaceable metal nozzle plate assembly that is designed to withstand abrasion and resist damage. The unit is compatible aqueous ceramic inks.

Performance

- Compatible with new water-based inks that support sustainability of ceramic tile production
- 400dpi resolution with drop sizes ranging from 30–80 picolitre
- 1024 individually addressable jets
- Versadrop binary and grayscale jetting with open and editable waveform utility

Productivity

- High ink laydown up to 50 grams per square meter* of ink per minute at production speed
- REDIJET® — Dual recirculation for reliable jetting & Support fast system start-up
- Maximize uptime for high productivity and return on investment
- Enables robust system design for end user up-time and productivity

*20kHz with 200pL drop using test fluid

Durability

- Industrial capabilities meet customer demands in industrial environments
- Robust (repairable) design enabling cost-effective maintenance and support
- Reliably use challenging jetting fluids used for ceramic tile decoration

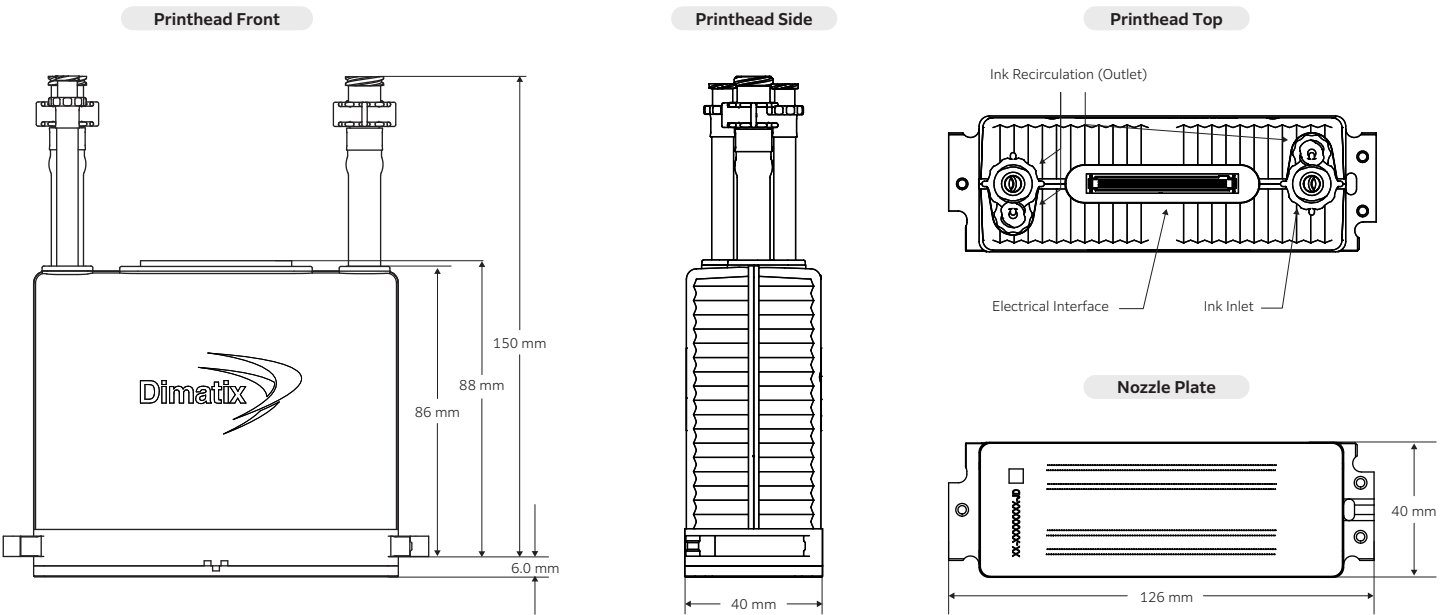
Support

- Backed by exceptional support organization
- Dedicated worldwide field organization to ensure successful product development
- Lab and quality assurance investigative team to ensure satisfaction with FUJIFILM Dimatix products through your product lifecycle

Technical Specifications

STARFIRE SG1024	AQMH	AQLH
Number of Addressable Jets / Module	1024	
Print Width (mm/in)	64.96mm (2.55in)	
Native Resolution (dpi)	400 / 1 Channel	
Firing Frequency (kHz)	30 / 12	20 / 8
Versadrop Max Productivity (ng-kHz)	300	1500
Native Drop Size / Largest Drop Size (pL)	30 / 80	80 / 200
Nozzle Plate Technology	Metal	
Compatible Fluids	Water based ceramic inks	
Viscosity Range (cP)	8–20 (10–14 for highest productivity)	
Temperature Control	Yes	
Inkjet Operating Temperature Range (C/F)	Up to 50°C / 122°F	
Integrated Temperature Sensor	Included	
OEM Accessible Non-volatile Memory	64-byte rewritable	

Physical Characteristics



Product characteristics and depictions are not drawn to scale and are general illustrations only. Technical specifications above may vary based on usage conditions and overall system environment.

For design and engineering work using this STARFIRE printhead, please contact Dimatix Technical Support for the appropriate Product Manual containing full Product Specifications.

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