

F-SERIES

Unique Design | Versatility | Impressive Print Results



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Looking for high performance with an entry-level UV printer? Interested in adding more print heads or special features? Qres Technologies presents the F-Series, offering you a unique opportunity to customize the configuration of your printer exactly the way you want it. All offered options could be factory ordered or added later in the field.

| Format Size

The F-Series family is available in 3 different flatbed table sizes. With the factory or field upgradable double head option, customers are able to double the print speed up to a production rate of over 50 m2/hour.

| Print heads and configuration

The F-Series printers are equipped with high quality inkjet print heads. Unparalleled sharpness and print fidelity is achieved using a unique wave form. Print resolutions up to 1440 dpi eliminate inkjet grain, producing smooth quarter-tones and photographic quality. The F-Series starts with 4 print heads in the standard CMYK configuration, or doubled up for double the productivity. Up to four more optional print heads can be added for white, varnish or spot colours.

| Applications

Whatever product you are printing, on rigid or flexible material, corrugated or self-adhesive, wood, glass, metal or even stone, the F-Series will not let you down. The solid flatbed construction of the F-Series allows you to print on virtually any flexible or rigid substrate.

| Material thickness

The solid flatbed construction of the F-Series allows you to print on any flexible or rigid substrate up to a maximum thickness of 50 mm which can be extended with the Bridge Lift option up to 300 mm.

| Ink for high quality print

Qres Technologies' specially developed high adhesion UV inks achieve high quality graphics print results on virtually any media. The Qres Technologies UV inks are tested and qualified with a 7+ on the wool scale. Also available is an ultra low odour, low cost ink for printing on paper and corrugated. And now available is a series of industrial grade inks, which feature exceptional chemical resistance for a wide range of industrial and product adornment applications, as well as specialized printable primers for enhanced adhesion on difficult surfaces such as melamine and glass.

Qres inks are available in 1 liter bottles, using large 3 liter reservoirs, which are refilled by simply pouring in bulk ink, making ink consumption as economical as possible. No expensive cartridges or special packaging required.

| Irregular printable surface

The F-Series printers have been developed to deliver outstanding print quality when printing on irregular material. In addition to conventional graphics substrates, many of the Qres Technologies customers print with the F-Series on irregular wood, shaped plastic and even stone, without compromising on quality.

| Adjustable curing power and Lamp-shutters

The UV curing power is electronically controlled and the lamps are equipped with shutters to provide advanced curing options such as gloss mode, delayed curing and low heat curing to optimize the curing mode for each application.

| Scalable vacuum system with multiple zones

The F-Series UV large format printers are engineered with 4 independent vacuum zones. By using multiple zones, the vacuum can be adjusted to the size and type of substrate, including rigid or flexible material. The external vacuum connection makes it possible to choose a high or medium power vacuum turbine of choice, which can be located either inside or outside the print room.

| Anti-static control

With a built-in anti-static bar the F-Series printers are equipped to eliminate static build up on some types of material, which can disturb the ink drops and degrade print sharpness. The anti-static control function is standard and makes static free production possible.

| Software

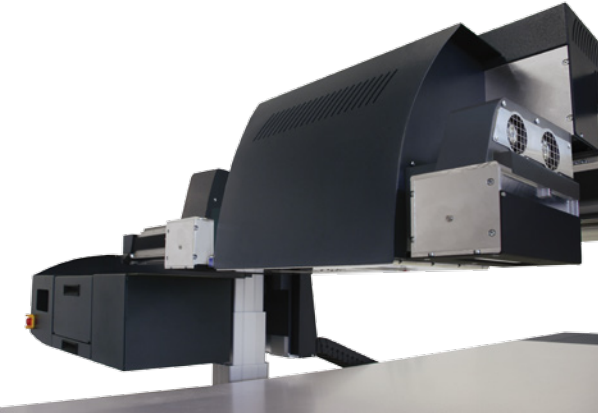
Versatility and ease of operation, together with an intuitive control system are the main benefits of the Qpro print software. The Qpro software displays the basic system data including the print head temperatures, UV lamps status, ink levels, production status of the print job or statistical data about ink consumption. In addition to the Qpro print software, all F-Series printers come with Qrip software which can process and colour calibrate any standard image file. Caldera GrandRIP, Colorgate Productionserver and ErgoSoft RIP are offered as optional software for all of the F-Series printers.

| Options

Our innovative development approach has resulted in an exceptional UV printer with an impressive range of options. Due to the unique design of F-Series, its configuration can be changed and upgraded to match the current needs of your business. All offered options could be factory ordered or added any time later.

| Bridge Lift

One of the outstanding features of the F-Series is the Bridge Lift option that allows an expanded variety of materials and objects to be printed. The scan bridge is equipped with a motorized mechanism that can raise the print carriage up to 250 mm of additional clearance. With this option, users can print on objects with a height of up to 300 mm. Imagine printing on boxes, furniture, product packaging, cookware, and many other industrial printing applications.



| Extra colours

In its standard configuration, F-Series printers come with 4 print heads (cyan, magenta, yellow and black). Two additional print heads can be ordered, typically used for white, spot colours or varnish.

| Higher production with the double print head option

An additional extra row of print heads can be factory ordered or is field upgradable afterwards. The Qres double print head option doubles the production speed. Not sure if you need the super high speed? No worries, just start with the standard unit and upgrade later. Your printer can get up to 12 print heads at any time.

| Crash Sensors

The F-Series can be equipped with a technology to detect obstacles and immediately brake the print carriage motion. Crash sensors can prevent the damage of print heads, UV lamps and other components of the print carriage as well as protecting valuable printing substrates.

| Fast material changes with tandem operation

When needed, independent loading from front and back-sides is possible with the tandem option. The tandem option enables the operator to load on one side of the printer while printing on the other side of the table. This option makes possible to operate the printer without additional material load and unload time.

| Scalable vacuum

Depending on the application, it is sometimes necessary to use a higher vacuum power to pull warped or porous material flat. Customers can decide to supply their own vacuum turbine or choose from the Qres 3 or 4 kW vacuum turbines.

| Productivity

Printing speed in m²/h	F160 F160L	F200
High Definition mode	23	25
Quality mode	32	36
Production mode	48	54
Express mode	65	72
Draft mode	97	108

F160

F160L

F200

Qres Technologies is producing UV inkjet systems for the Graphic & Signage and Industrial retrofit market. With a best-in-class customer support organization and a growing installation base, Qres Technologies is delivering reliable and affordable UV Inkjet systems for the various markets. Our philosophy is to offer our customers' excellent quality, reliability and high standards accompanied with professional service and support. Our team enables us to develop and deliver a unique individual approach to our customers and to be highly flexible in meeting our customer's requirements both in product and customer support.



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Technical Specifications

Technology

Print technology	Piezo drop-on-demand ink-jet
Print heads	Maximum 12 print heads
Drop volume	9 -14 pL adjustable
Standard configuration	Single row CMYK print heads
Optional ink channels	Up to 2 additional ink channels (White, Varnish, spot colours)
Optional 2nd print head row	Each ink channel can be extended (CMYK, White, Varnish, spot colours)
Addressable resolution	360 x 360 dpi
Print resolution	Up to 1440 dpi
Ink curing system	Air cooled UV lamps

Media / Ink

Ink	Qres Technologies high adhesion and low odor UV curable inks
Ink reservoir	3 liter bulk ink tank with easy access for refill
Media types	Any flexible or rigid material including paper, vinyl, plastic, glass, wood, metal, stone, laminate, ceramics, rubber etc.

Print area

F160	1.65 m X 2.55 m
F160L	1.65 m X 3.25 m
F200	2.05 m X 3.25 m
Maximum media thickness	50mm (2in) + optional 250 mm (9.8 in) with the Bridge Lift
Maximum media weight	200 kg (440 lb)

Special features

Adjustable curing	Lamp power continuously adjustable (50% - 100%)
Lamp-shutters	Dynamic operation during printing
Anti-static control	Anti-static bar eliminates static build up on media
Vacuum system	4 or 8 independently controlled vacuum zones
External vacuum connection	Allowing to locate vacuum turbine externally or inside the printer
Cleaning station	Full access cleaning of print heads under bright illumination

Options

Bridge Lift	Increasing media thickness up to 300 mm
Crash sensor	Preventing the carriage from collisions
Ink reservoir	3 liter bulk ink container
Software	Caldera GrandRip or ColorGATE Productionserver or ErgoSoft RIP
Double head configuration	Double CMYK heads, White, Varnish, spot colours
Tandem vacuum table	Independent loading from front and back sides
High power vacuum turbine	3 and 4.4 kW version available

User interface

Operating system	Windows 7 or 8
Qpro print software	Operator software (Included with the printer)
Qrip software	Basic RIP software (Included with the printer)
Optional 3rd party RIP software	Caldera GrandRip or ColorGATE Productionserver or ErgoSoft RIP

Physical Specifications

F160	3450 mm X 3800 mm X 1300 mm (weight 1100 KG, 2425 lb)
F160L	3450 mm X 4500 mm X 1300 mm (weight 1400 KG, 3086 lb)
F200	3850 mm X 4500 mm X 1300 mm (weight 1550 KG, 3417 lb)
Table height	95 cm
Electrical requirements	400 V, 50 Hz, 19 Amps, max 7.6 kW
Environmental specifications	Temperature 18 - 26 °C, relative humidity 30 - 70%, dust free area

Product specifications are subject to change without notice.

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