



# ISIJet 2870/3400 Site & Installation Requirements

**Thank you for selecting the ISIJet 2870/3400 Grand Format Printer from Innovative Solutions INX**

The ISIJet 2870/3400 is a precision-crafted printer, and must be operated in accordance with certain environmental and safety requirements as noted in this document. You will be asked to comply with these requirements as a condition of receipt and installation of the printer. We have also included printer maintenance and operator safety guidelines in the Users Guide, which need to be communicated to all individuals working with the printer, and practiced by each operator.

## Delivery/Uncrating

Inside delivery is standard, unless otherwise communicated to Innovative Solutions. The printer is normally delivered in a single crate with following dimensions and weight (approximate):



**ISIJet 2870**  
207" L x 44" D x 85" H (526 cm L x 112 cm D x 216 cm H), 5700 lbs. (2585 kg.)

**ISIJet 3400**  
226" L x 44" D x 85" H (574 cm L x 112 cm D x 216 cm H), 5800 lbs. (2630 kg.)

The material rack is included in the crate and must be assembled to the rear of the main printer body. Allow an ample amount of clearance, from the crate side door, for uncrating.

Please ensure that an adequate path exists to get the printer into your facility and that the floors are able to support the weight. The printers weigh approximately 4000 lbs. (1800 kg). Once the printer is out of the crate, move it into the predetermined location using its casters noting that you'll need a minimum 38" (96.52 cm) width and 81" (205.74 cm) height door clearance. Once there, the casters will be removed and leveled in place by leveling pads.

## Space Requirements

The fully assembled dimensions are:

**ISIJet 2870**  
202" L x 85" D x 87" H (513 cm L x 216 cm D x 221 cm H).

**ISIJet 3400**  
221" L x 85" D x 87" H (562 cm L x 216 cm D x 221 cm H).

The height includes the ventilation hood. Leave approximately three feet of working space on the front, left and right sides, while allowing four feet of clearance at the rear. The supply media is loaded from the rear and therefore adequate space must be allowed to load and unload material.

The computer work station is separate from the printer and may be situated anywhere on the right side of the printer that is convenient for the operator.

## Environment

The printer will operate optimally in a controlled environment. The area where the ISIJet 2870/3400 is installed should be reasonably free of dust and other airborne particulates (for example, the

printer should not be placed in an area where routers, sanders or trimmers are used). The printer should not be installed near equipment of strong radio frequency interference. An easy to clean floor that does not generate dust or static electricity is preferable. Lighting consisting of pure white (daylight) colored illumination will aid operators and clients in judging color accuracy.

Temperature	Operating Range	Storage Range
	68°F to 85°F (20°C to 29.4°C)	60°F to 90°F (15.6°C to 32.2°C)
Relative Humidity (Non-condensing)	20% to 80%	20% to 80%

## Air Requirements

An air supply with a minimum of 70 PSI at 3 cubic feet per minute that is oil and water free is required for use with the printer.

## Electrical Requirements & Installation

Hire a qualified electrician to install or move required electrical service. The ISIJet 2870/3400 requires a dedicated circuit of 240 VAC, 50/60Hz, 4-wire (L1 + L2 + N + G), 25-amp service to operate properly. Total power consumption of the printer is approximately 5 Kilowatts. The AC wire circuit will be a 4-wire and be wired with an independent circuit breaker and circuit ground (computer grade) that is isolated from other equipment. Power should not be susceptible to voltage fluctuations.

For installations in countries where the main power is 220-240 VAC per phase, the ISIJet 2870/3400 can be equipped with a transformer to convert single phase power to the two phase power required by the ISIJet 2870/3400. This transformer requires a dedicated 220-240VAC, 50/60Hz, single phase, 32 amp circuit.

If the optional IR (infrared) Dryer is installed, an additional dedicated circuit of 240 VAC 50/60Hz 3-wire (L1 +L2 +G) 60-amp service is required for this dryer to operate properly. The IR Dryer power consumption is approximately 3.5 Kilowatts.

**Note:** In areas with unstable power sources, it is recommended that a Uninterrupted Power Supply (UPS) with a capacity of 10 Kilowatts be installed. To protect the systems computers and electronics, the ISIJet 2870/3400 has a built-in radio frequency line filter.

## Ventilation

Fumes from the solvent-based inks, as well as excess heat, must be power-exhausted to an outside source (not HVAC system) at 1,000 CFM at 1.5" of water back pressure, using a customer-supplied 8" (20.32 cm) duct/connector. If a power exhaust system is not already in place, one may be purchased from an industrial equipment supplier.

## Operator & Maintenance Requirements

### Operator

The printer control software program runs an internal computer system running a UNIX-like operating system. The program allows the operator to send and re-send prints and also configure the printer to do automatic and manual maintenance routines.

You'll need to supply a monitor, mouse and keyboard for connection to the ISIJet 2870/3400 control computer. This monitor/keyboard/mouse may be shared with the customer supplied RIP computer by connecting it through the a KVM A/B switch. The operating station should be located close to the printer.

### Maintenance Requirements

Operators are responsible for the operation and from time to time perform routine maintenance of the print heads. A routine maintenance schedule is included in the Users Guide, and may also be posted on the rear of the unit. Diligent application of this routine is essential to optimum performance from your printer.

## Safety Information

### Handling Inks

The printer uses solvent-based inks; the liquid and the fumes are combustible. The inks may cause eye irritation, may cause skin irritation upon prolonged or repeated contact, may be absorbed through the skin, and may cause respiratory system irritation and nervous system impairment. Read and practice safety guidelines as outlined in the Material Safety Data Sheet (MSDS) for each ink, and post the document in the work area as required by prevailing law. An excerpt of the MSDS follows.

### Personal Safety

The operator should wear butyl rubber gloves, a protective apron, a NIOSH-approved respirator (half-mask organic vapor respirator), and safety glasses with side shields when handling inks.

### What to do with Ink Spills on Surfaces

Observe precautions as noted above. Ventilate area. Contain spill. Cover with absorbent material. Collect spilled material. Clean up residue with water. Place in a closed container. Do not release to waterways or sewer. Incinerate in a permitted hazardous waste incinerator.

### What to do with Ink Spills on Persons

- **Eye contact:** immediately flush eyes with large amounts of water. Get immediate medical attention.
- **Skin contact:** flush skin with large amounts of water. If irritation persists, get medical attention.
- **Inhalation:** remove person to fresh air. If not breathing, give artificial respiration and get immediate medical attention. If breathing is difficult, get immediate medical attention.
- **If swallowed:** call a physician immediately. Only induce vomiting at the instructions of a physician. Never give anything by mouth to an unconscious person.

**Please read carefully, complete, sign, and fax signed document to Innovative Solutions INXInc. at (256) 725-7751. A signed form is required before machine is installed.**

*The customer certifies that the environmental requirements listed on page 1 -- or an equivalent system -- will be in place before installation. Prior to installation, Innovative Solutions INX ("ISI") Customer Service will call to confirm site is ready. If ISI Service arrives and site isn't ready as required, the ISIJet 2870/3400 will not be installed, and Innovative Solutions INX reserves the right to charge for any additional visits required to install the printer.*

*The customer acknowledges receipt of initial maintenance requirements information as outlined in this document, and understands that maintaining the ISIJet 2870/3400 as indicated is in the customer's best interest to ensure quality output. If maintenance is neglected, resulting in a service call, ISI reserves the right to charge the customer to restore the printer to proper operating condition.*

*The customer acknowledges that it has received initial safety information as outlined above; that the customer has read and understands it; and that it has been or will be fully communicated to all pertinent staff, and will be posted in accordance with the prevailing law. The customer is responsible for advising and training its staff on safety issues beyond the initial information contained here.*

*The customer acknowledges that the ISIJet 2870/3400 was designed specifically for use with inks and media authorized by Innovative Solutions INX. The use of any unauthorized ink and/or media is not supported by ISI. If unauthorized inks or media are found to have caused damage to the ISIJet 2870/3400, ISI reserves the right to charge the customer for parts and labor, at published time-and-materials rates, to restore the printer to the proper operating condition.*

Customer \_\_\_\_\_

Address (printer location) \_\_\_\_\_

\_\_\_\_\_

City, State \_\_\_\_\_

Zip/Postal Code \_\_\_\_\_

Country \_\_\_\_\_

Primary Contact \_\_\_\_\_

Telephone \_\_\_\_\_

Fax \_\_\_\_\_

E-mail \_\_\_\_\_

Sales/Purchase Order Number \_\_\_\_\_

\_\_\_\_\_

**Date**

\_\_\_\_\_

**Signature of Legally Responsible Individual**

\_\_\_\_\_

**Print or Type Name**



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Printer output may vary depending on type of print data file, application, media, environmental conditions, print speed, or other variables. Many of these variables can be controlled by the operator to optimize to production and output quality requirements. Only approved consumables purchased from Innovative Solutions INX or authorized distributors and designated for use in the **ISIJET 2870/3400** are warranted for use in the printer.

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