

# Pre-installation Manual



nyloflex<sup>®</sup> IRIS Inliner

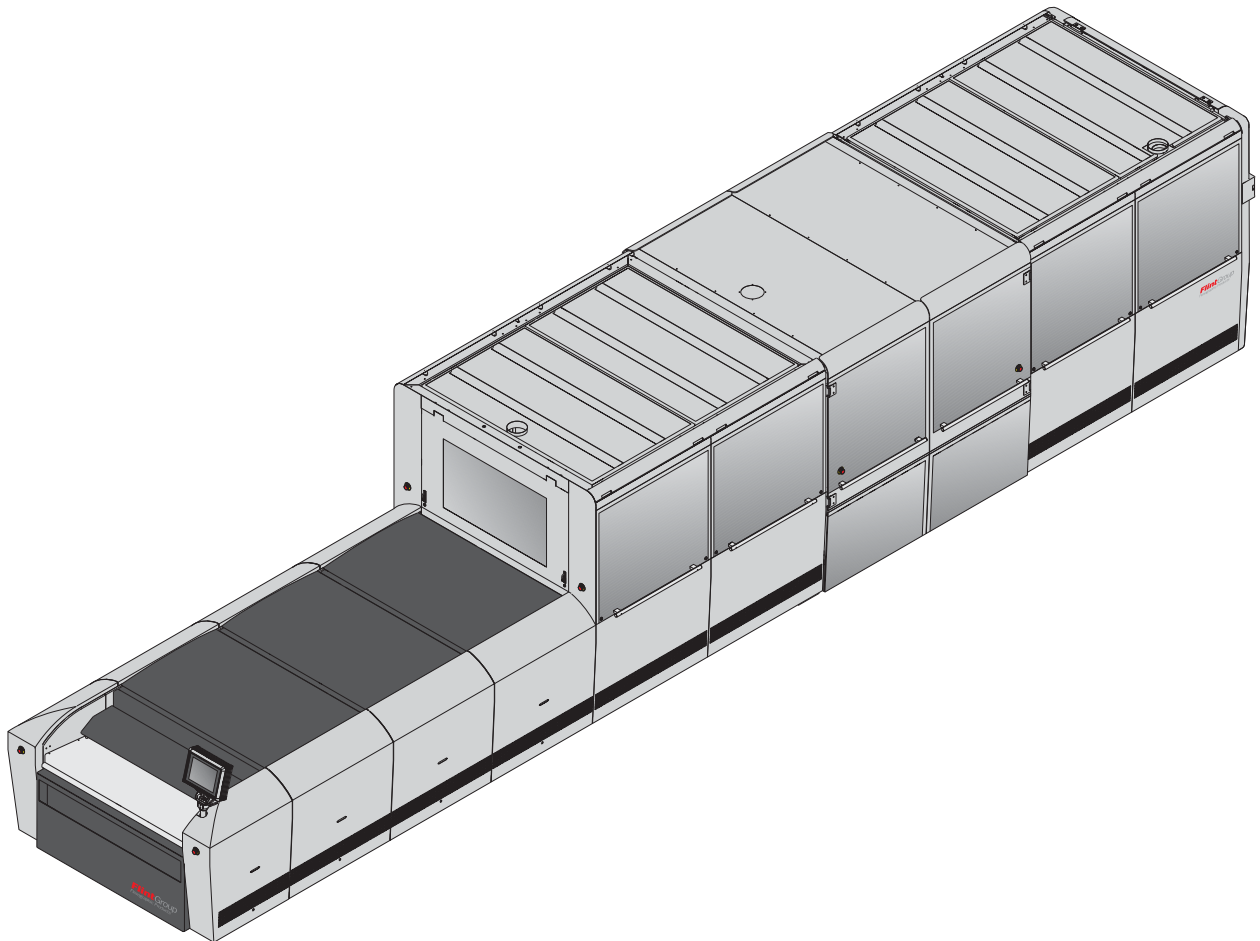
**Flint**Group  
*Flexographic Products*



# Pre-installation Manual

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## nyloflex® IRIS Inliner



T11453

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# Part 0: Introduction

## Reservations

- This manual was written and illustrated using the best possible information available at the time of publication.
- Any differences between this manual and the equipment reflect improvements introduced after the publication of the manual.
- Changes, technical inaccuracies and typographic errors will be corrected in subsequent editions.
- As a part of our policy of continuous improvement, we reserve the right to alter design and specifications without further notice.

## Pre-installation instructions

The instructions in this Pre-installation Manual allow the customer and the Service Technician to prepare the installation site for the equipment and for the installation itself.

- Never install the equipment in explosive environments.
- It is the responsibility of the owner and operator/s of the equipment that the installation is made in accordance with local regulations, and by engineers authorized to carry out plumbing and electrical installations.
- The manufacturer cannot be held responsible for any damage caused by incorrect installation of the equipment.



**Only qualified Service Technicians are allowed to unpack and install the equipment.**



**When preparing the installation site please take into consideration that this equipment is for restricted access locations only!**

## Notes, cautions, and warnings !

Throughout the manual warnings, cautions, and notes are written in bold like the example below:



**Electrical installation must conform to local regulations and guidelines.**

Symbol	Meaning	Explanation
	Note	The operator should observe and/or act according to the information in order to obtain the best possible function of the equipment.
	Caution	The operator must observe and/or act according to the information in order to avoid any mechanical or electrical damage to the equipment.
	Warning	The operator must observe and/or act according to the information in order to avoid any personal injury.

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# Part 1: Transportation

## When the equipment arrives

### Storing the equipment before installation

The crated equipment (4 crates) will usually be delivered some time before the arrival of the Service Technician. In which case you should prepare an appropriate place indoors to store the crated equipment.

## The crate

### Checking the crate for damage

Check if the crates are damaged at the time of delivery. Take note of the damage before you allow the Service Technician to unpack the equipment. Provide a detailed description or take a photograph of the damage.



Report any damage to the crate to the transport company.

### Handling the crate

The icons on the crates indicate how to handle the crates during transport and storage:



Ensure that the side indicated by the arrows is always up



Handle the crate with care.



Never expose the crate to water, or place it in a high-humidity area.

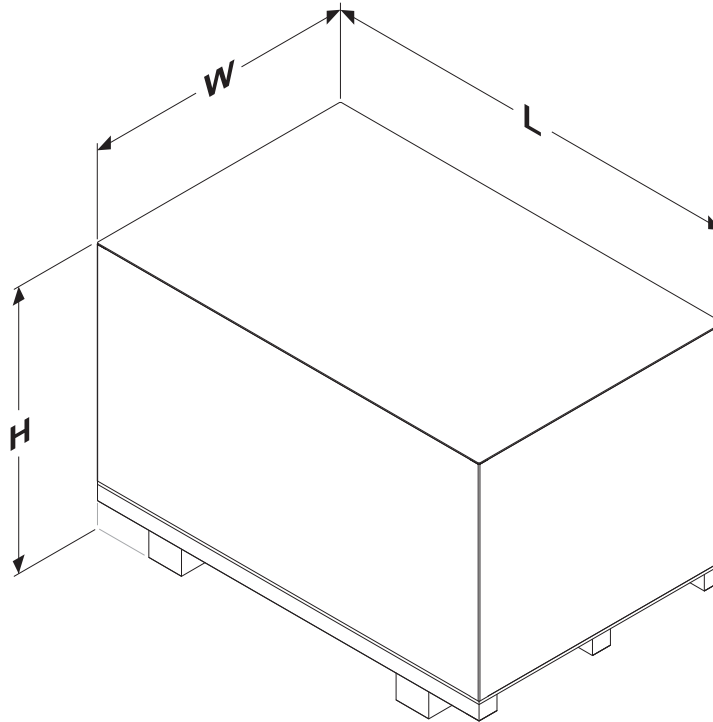


Do not stack the crates.



Do not tilt the crate.

## Dimensions and weight



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	Processor	Tower 1	Elevator	Tower 2
<b>Width (W)</b>	2320 mm (91.3")	2300 mm (90.6")	2300 mm (90.6")	2300 mm (90.6")
<b>Length (L)</b>	4380 mm (172.4")	2720 mm (107.1")	2270 mm (89.7")	2570 mm (101.2")
<b>Height (H)</b>	1440 mm (56.7")	2480 mm (97.6")	2480 mm (97.6")	2480 mm (97.6")
<b>Weight, crated (<math>\pm</math> 5%)</b>	approx. 2940 kg (6482 lb)	approx. 2342 kg (5163 lb)	approx. 2250 kg (4960 lb)*	approx. 1792 kg (3951 lb)
<b>Weight, equipment</b>	approx. 2400 kg (5291 lb)	approx. 1892 kg (4171 lb)	approx. 1860 kg (4101 lb)*	approx. 1362 kg (3003 lb)

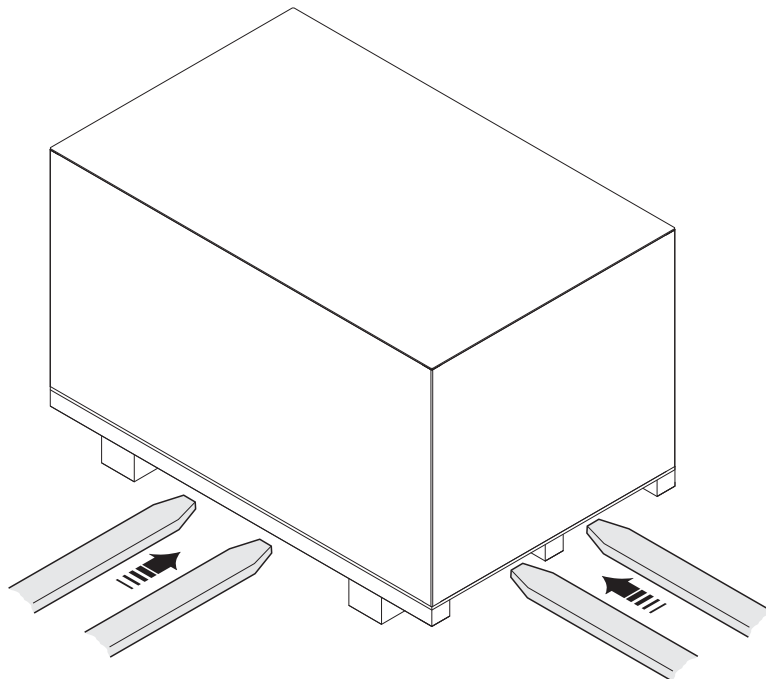
\* elevator is delivered with all installation parts inside



## Transporting the equipment

### Lifting the crate

The equipment is supplied in a wooden crate. The equipment is very heavy equipment. To lift the crate a fork-lift truck is required.



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### Available width for transport

Depending on the width of the door(s) through which the equipment has to be transported to the installation site, the Service Technician may have to perform the actions described in the table below:

If width of the door is...	Then...
> 2400 mm (77.6")	No action is required as the crated equipment can be transported immediately to the installation site.
> 2200 mm (66.9")	The Service Technician has to unpack the equipment.



# Part 2: Installation requirements

 This equipment must be installed in restricted access locations only.

## Environmental requirements

Provide a heating and ventilation system capable of maintaining room temperature between 17 and 25°C (63 and 77°F) and relative humidity between 40 and 60%.

For heat emission see "Power consumption" on the page 2-6.

## Accessories needed for the connections

Compressed air supply	Hose, ø6 or 1/2"
Exhaust	Hose, ø160
Solvent	Solvent resistant hose, 1/2"
Power supply	See page 2-6 for recommended cable type

## Installation kit

The installation kit is included with the equipment. It comprise the parts necessary to make the installation. See the Service Manual for installation part list.

 The processor is delivered with the necessary parts to have both washout solvent and pre-washing solvent drains connected together.

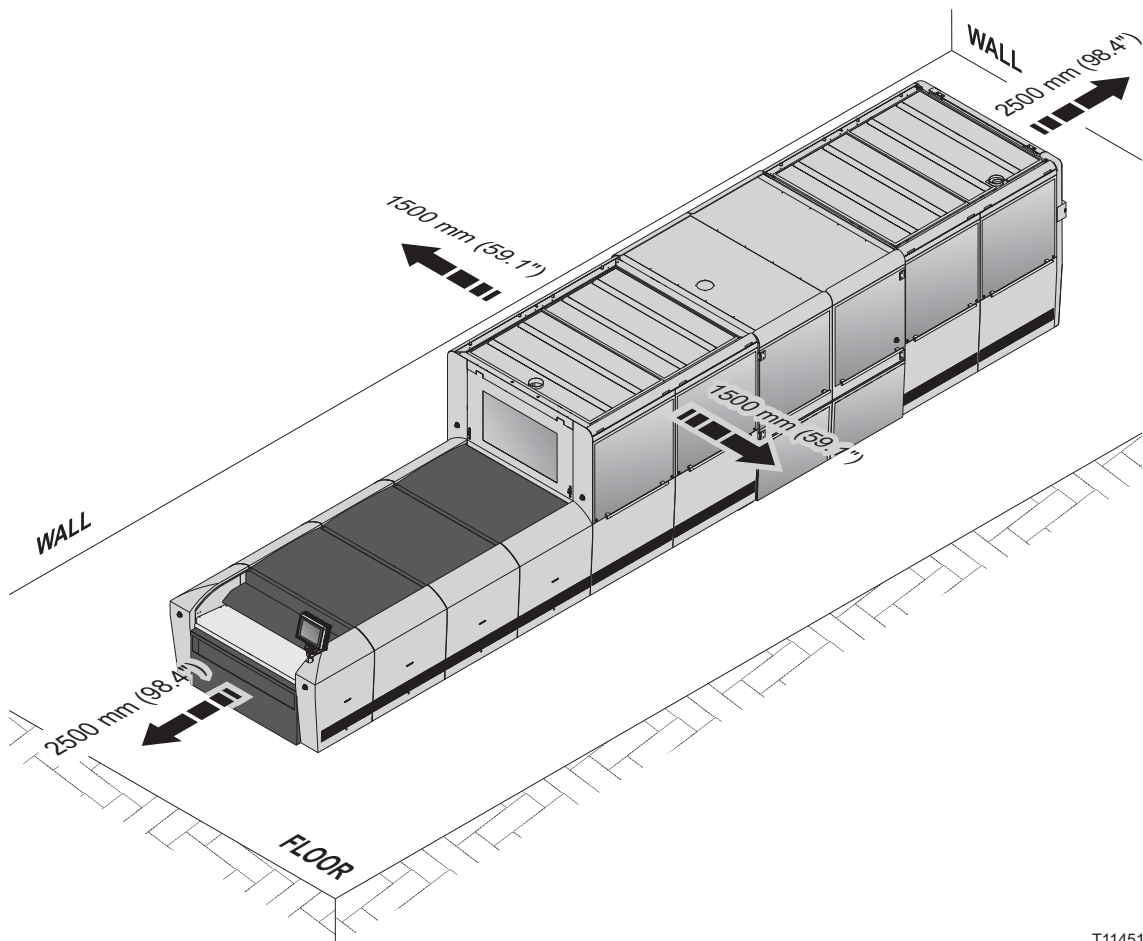
## Space requirements

### Free space around the equipment

Decide where the equipment shall be placed and make sure that the free space around the equipment makes servicing possible.

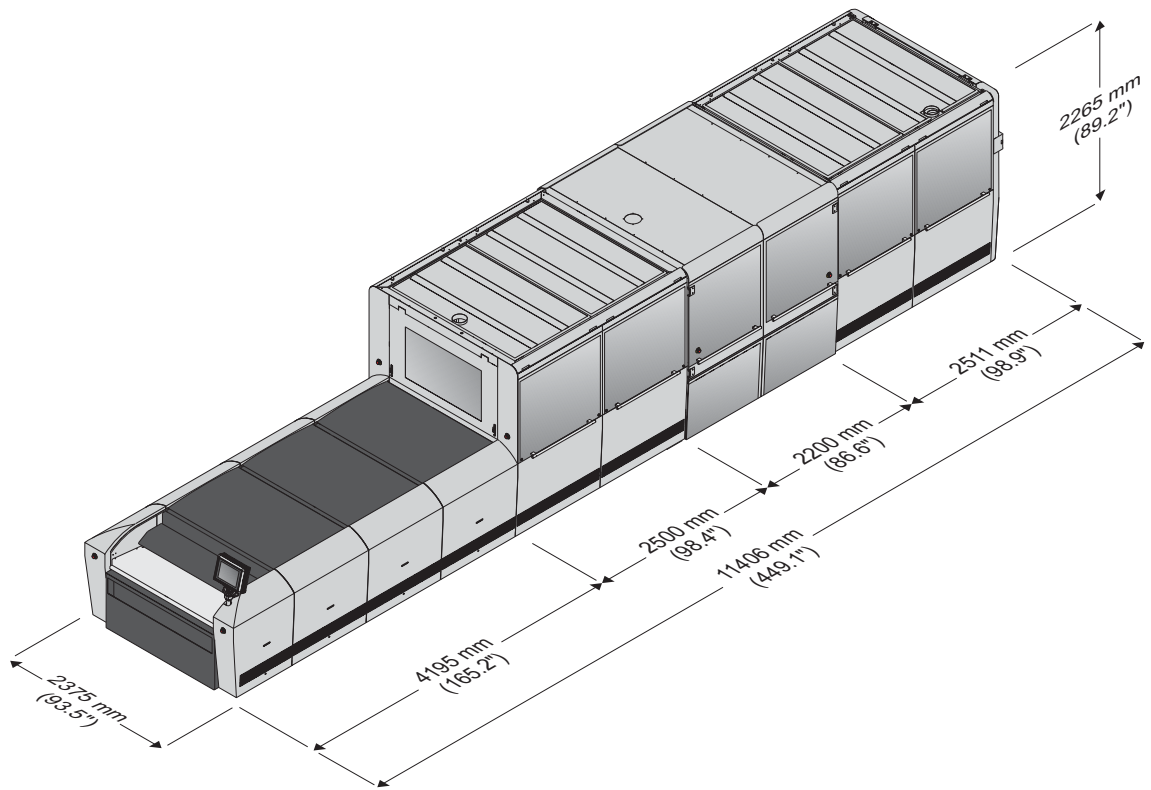
The recommended minimum free space around the equipment is:

- 2500 mm (98.4") in front and at the back of the equipment,
- 1500 mm (59.1") on the sides of the equipment.



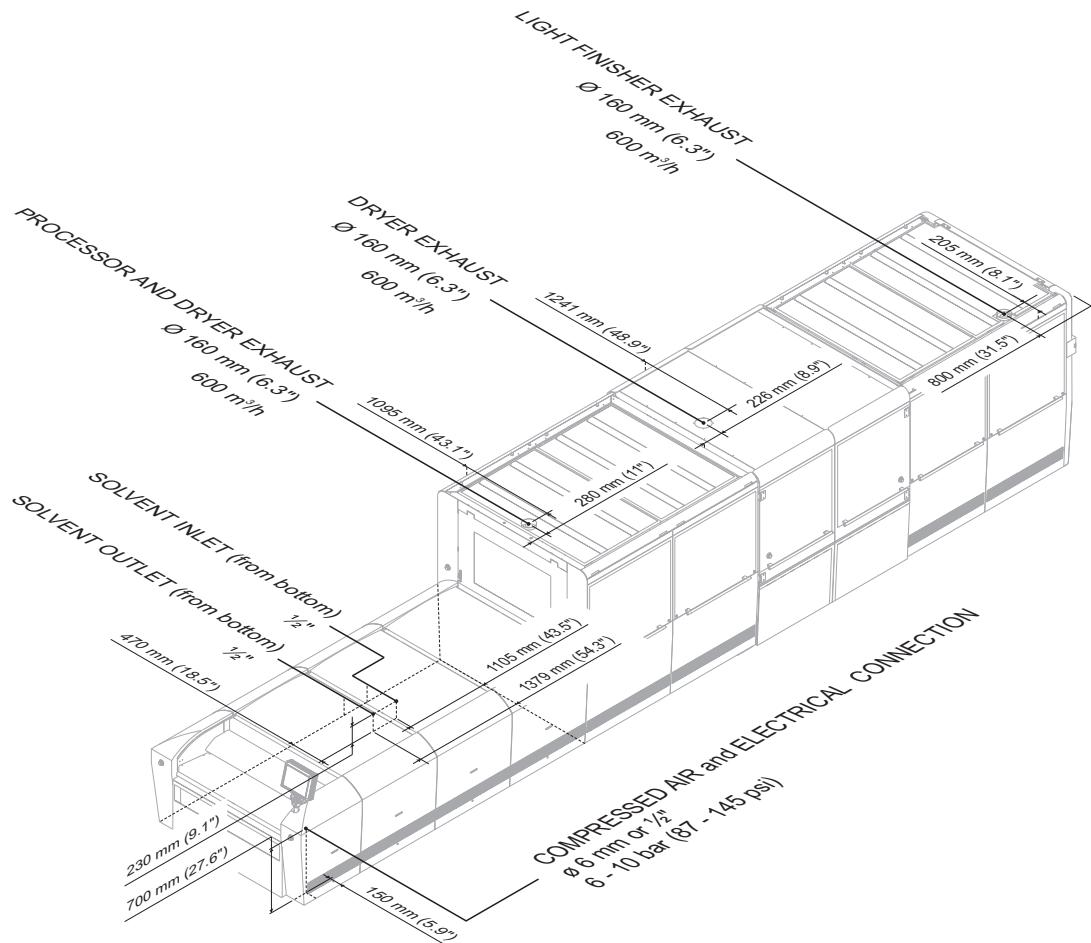
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### Equipment dimensions



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## Connection locations



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### Compressed air supply

The compressed air supply connection is located on the rear side of the equipment. The supply air pressure must be min. **6 bar (87 psi)** and max. **10 bar (145 psi)**. The required compressed air volume is min. **100 NI/min**.

### Solvent connection

Solvent hoses are lead from under the processor. If the solvent barrels are more than 5 meters from the processor and the piping is lifted higher that the solvent tanks, it is recommended to mount a nonreturn valve at the barrels to prevent backlash of solvent/air in the hoses during process.

In case of need to turn off the solvent supply to the processor, it is recommended to install hand valves in the end of the solvent installation.



**Never lead solvent out - hose into a drain, as most solvents are strong pollutants. It is also illegal to empty these types of chemicals into the public sewer system.**

**Under all circumstances local regulations applying to the treatment of (chemical) waste must be followed strictly.**

## Exhaust

All the exhausts must be connected to the appropriate location (directly to the outside or to the building exhaust installation). Make sure that the airflow is correct. Minimum exhaust of the equipment is 1800 m<sup>3</sup>/h.

## Electrical requirements



**Electrical installation must conform to local regulations and guidelines.**

### Main power connection

The main power connection must be made to the main connector located at the back of the equipment.

### Main power outlet

Provide a main power outlet close to the installation site. The table on the next page indicates the applicable power supply types and to which equipment model they apply.

### Power supply cable

The cable/plug required for main power connection is not delivered with the equipment. The power supply table on the next page shows recommended power supply cable for equipment.



**The conductors in the power supply cable must be of copper.**

**When deciding what type of cable to use take into account the mechanical resistance (operator may step onto cable).**

**Provide for additional cable protection, e.g. cable covers, if cable is exposed to heavier transport such as fork-lift trucks etc.**



**The equipment is Class 1 equipment. Therefore, the equipment must be connected to earth to avoid electrical shocks.  
Please be aware of double pole/neutral fusing.**

## Electrical specifications

### Installation requirements for power supply

Supply / fuse	Recommended cable type
3Ph + N + PE, 400 VAC 3 x 60 Amps, 50-60 Hz	Min. 5 x 16 mm <sup>2</sup> , type H07RNF
Voltage tolerance $\pm 10\%$	

### Fuses



The fuses must have a breaking capacity of min. 100kA.  
If using automatic circuit breakers make sure that they are Type D.

### Power consumption

At 400 VAC operation	approx. 40 kW
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# Part 3: Pre-installation checklist

Please ask the customer to answer the following questions in order to ensure a trouble-free installation of the equipment:

- | <b>1. Delivery of the crate and transport to the installation site</b>  | <b>YES</b>               | <b>NO</b>                |
|---|--------------------------|--------------------------|
| A. Is there a place indoor where the crated equipment can be stored temporarily?  | <input type="checkbox"/> | <input type="checkbox"/> |
| B. Is there a hand-powered pallet mover, a fork-lift truck or any other lifting device available?   | <input type="checkbox"/> | <input type="checkbox"/> |
| C. Can the crate be transported directly to the installation site?<br><i>See minimum width specifications on page 1-3.</i>                            | <input type="checkbox"/> | <input type="checkbox"/> |
| D. Is it sufficient to unpack the equipment before it is transported to the installation site? <i>See minimum width specifications on page 1-3.</i>   | <input type="checkbox"/> | <input type="checkbox"/> |
| E. Are there other factors (stairs, elevators, corners, obstacles, etc.) which should be taken into account when transporting the crate or equipment? | <input type="checkbox"/> | <input type="checkbox"/> |
| If so, explain: .....   |                          |                          |
| .....   |                          |                          |
| .....   |                          |                          |
| .....   |                          |                          |

## 2. Power supply

- |  |                          |                          |
|--|--------------------------|--------------------------|
| A. Make a note of the present supply specifications:   |                          |                          |
| No. of Phases .....  | Voltage ..... V          | Fused by ..... Amps      |
| Neutral Wire? .....  | Earth Wire? .....        | Frequency ..... Hz       |
|  | <b>YES</b>               | <b>NO</b>                |
| B. Has a connection box been provided to connect the equipment to the mains?   | <input type="checkbox"/> | <input type="checkbox"/> |
| C. Is the customer aware that he/she should provide (or order) all supplies (cables, fuses, etc.) necessary to connect the equipment to the mains? | <input type="checkbox"/> | <input type="checkbox"/> |
| D. Is there a house electrician available?   | <input type="checkbox"/> | <input type="checkbox"/> |
| E. Are there any known problems in the building where the equipment will be installed?   | <input type="checkbox"/> | <input type="checkbox"/> |
| If so, explain: .....  |                          |                          |
| .....  |                          |                          |
| .....  |                          |                          |
| .....  |                          |                          |
| .....  |                          |                          |

<b>3. Connections</b>	<b>YES</b>	<b>NO</b>
A. Capacity of air condition/ventilation adequate with regard to power consumption as specified on pages 2-1 and 2-6?	<input type="checkbox"/>	<input type="checkbox"/>
B. Is there a compressed air supply available?	<input type="checkbox"/>	<input type="checkbox"/>
C. Can a hose (6 mm diameter) be connected to the compressed air supply?	<input type="checkbox"/>	<input type="checkbox"/>
D. Is the supply air pressure between 6 bar (87 psi) and 10 bar (145 psi)?	<input type="checkbox"/>	<input type="checkbox"/>
E. Is there an exhaust system available?	<input type="checkbox"/>	<input type="checkbox"/>
F. Can a hose (160 mm diameter) be connected to the exhaust system?	<input type="checkbox"/>	<input type="checkbox"/>
G. Is there a solvent installation available with regard to requirements as specified on pages 2-1 and 2-4?	<input type="checkbox"/>	<input type="checkbox"/>
H. Availability of warm water for cleaning purposes?	<input type="checkbox"/>	<input type="checkbox"/>

**4. Disposition of the various supplies and equipment on the installation site:**