



Pre-installation Guide

Flex-i-Pro 360/470/520/520 XP

► **IMPORTANT**

Please follow the instructions in this guide when preparing the installation site prior to arrival and installation of the equipment.

GLUNZ & JENSEN 

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About this manual

This manual applies to the Flexo Processor **Flex-i-Pro 360 / 470 / 520 / 520 XP**.

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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.

Introduction

The instructions in this Pre-installation Guide help the customer and the Service Technician to prepare the installation site for the arrival and installation of the equipment.

Notes, Cautions and Warnings!

Notes, cautions, and warnings in this manual are used and categorized as described below:

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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Transportation

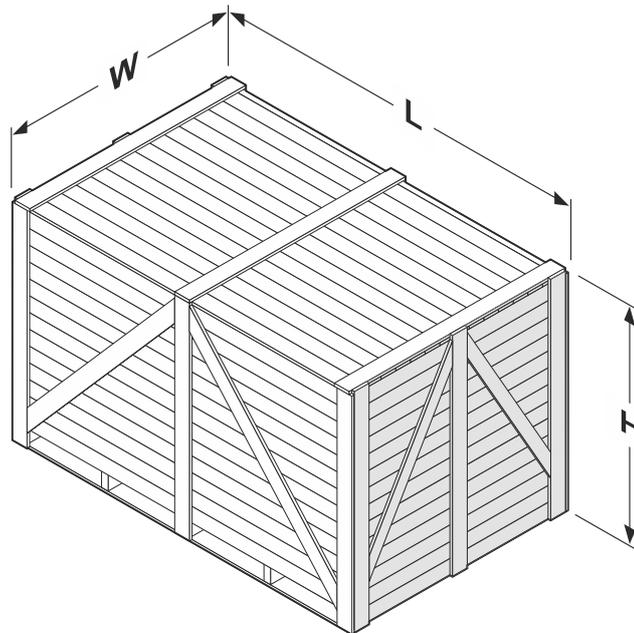
When the equipment arrives

Storing of the equipment prior to the installation

The equipment will usually be delivered some time before the arrival of the service technician. Provide for an appropriate place indoor to store the crated equipment until the service technician arrives.

The crate

Crate Dimensions



Flex-i-Pro

	Flex-i-Pro 360	Flex-i-Pro 470	Flex-i-Pro 520	Flex-i-Pro 520 XP
Length (L)	3000 mm (118.1")	3000 mm (118.1")	3000 mm (118.1")	4350 mm (171.3")
Width (W)	1900 mm (74.8")	2200 mm (86.6")	2300 mm (90.6")	2300 mm (90.6")
Height (H)	1800 mm (70.9")	1800 mm (70.9")	1800 mm (70.9")	1800 mm (70.9")

Weight

	Flex-i-Pro 360	Flex-i-Pro 470	Flex-i-Pro 520	Flex-i-Pro 520 XP
With crate	1550 kg (3417 lbs)	1620 kg (3571 lbs)	1730 kg (3814 lbs)	2350 kg (5181 lbs)
Without crate	1250 kg (2756 lbs)	1400 kg (3086 lbs)	1550 kg (3417 lbs)	1800 kg (3968 lbs)

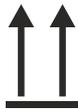
Checking the crate for damage

Check if the crate is damaged on delivery at the customer's address. Make notes of any damages, before opening the crate. Provide a detailed description and take a photograph of the damage.

Report any damage of the crate to the shipping company and notify the insurance agent, if appropriate, before the mishandled package is opened.

Handling the crate

The icons on the crate indicate how to handle the crate 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.

Lifting the crate

The equipment is supplied in a wooden crate on a pallet.

A forklift truck is required for lifting the crate on arrival and for lifting the equipment off the pallet.

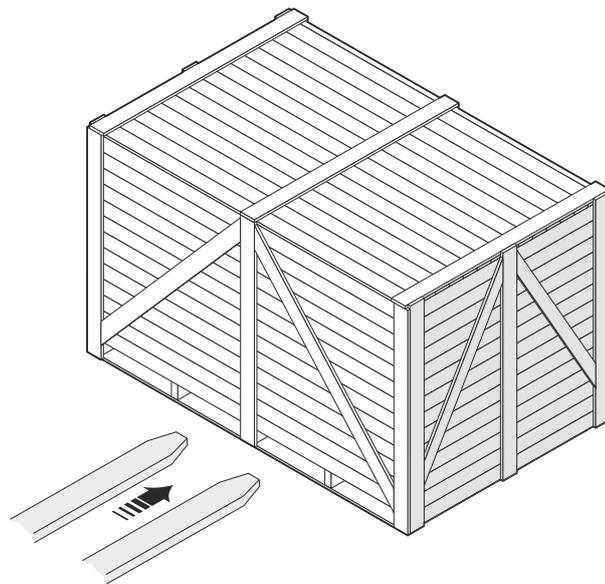


WARNING: The equipment is very heavy equipment.

It is only possible to lift the equipment off the pallet using a forklift truck or a pallet mover.



CAUTION: Make sure to provide a forklift designed and adequate for lifting a crate of the size and weight as specified in this manual.



Required width of passage and doorways

Depending on the width of the passage- and doorways 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 doorway is ...	Flex-i-Pro 360	Flex-i-Pro 470	Flex-i-Pro 520	Flex-i-Pro 520 XP	Then ...
More than	2100 mm (82.7")	2400 mm (94.5")	2500 mm (98.4")	2500 mm (98.4")	The crated equipment can be transported immediately to the installation site.  CAUTION: May require machine moving skates suitable for transport of very heavy equipment.
Less than but more than	2100 mm (82.7") 1950 mm (76.8")	2400 mm (94.5") 2250 mm (88.6")	2500 mm (98.4") 2350 mm (92.5")	2500 mm (98.4") 2350 mm (92.5")	The Service Technician has to unpack the equipment.  CAUTION: May require machine moving skates suitable for transport of very heavy equipment.

Installation requirements



WARNING: The equipment must be installed in restricted access locations only.



NOTE: Check the delivery route to the installation location for necessary clearance and remove all obstructions.

Heating and ventilation

Provide a heat and ventilation system capable of maintaining room temperature between 17°C (63°F) and 28°C (82°F) and a relative humidity (non condensing) of min. 20% and max. 80%.

For heat emission see "Power consumption" on page 19.

Installation kit

Installation kit is included with the equipment. It comprise the parts necessary to make the installation.

Floor stability



WARNING: Note the very heavy weight of the equipment!

Please refer to weight and dimensions of the equipment when calculating footprint and load for preparation of the installation site.

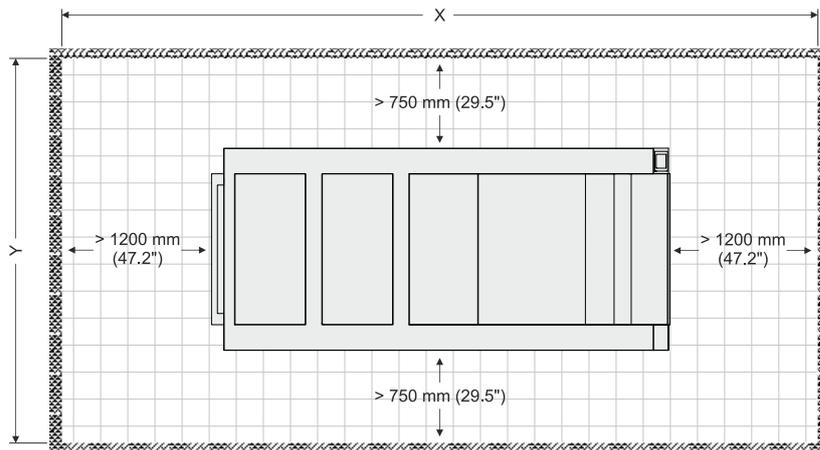
The floor should have a variation in height of no more than 6 mm per meter (1/4" over 40" length). If in doubt about the floor loading, please consult a structural engineer.

Space requirements

Free space around the equipment

Decide for a proper installation site for the equipment and make sure that the free space around the equipment makes servicing possible.

The recommended minimum free space around the equipment is specified in the next illustration.



The free space before and after the machine must always be more than 1200 mm (47.2").

The free space on the sides of the machine must always be more than 750 mm (29.5").

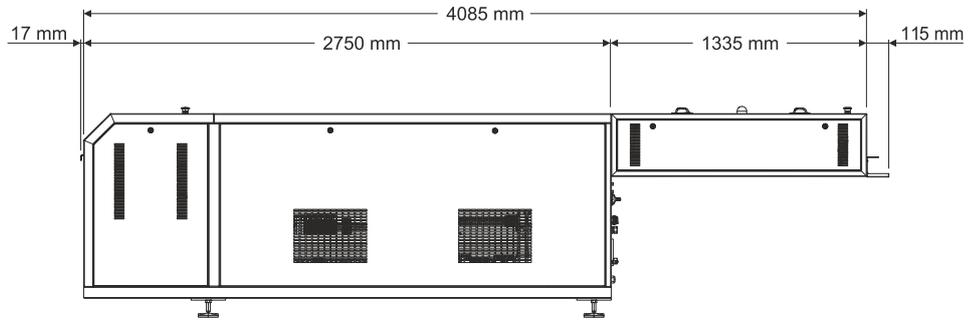
So that the room dimensions must be at least as is listed in the table below:

Processor size	Room X dimension	Room Y dimension
Flex-i-Pro 360	6485 mm (255.3")	3247 mm (127.8")
Flex-i-Pro 470	6953 mm (273.7")	3532 mm (139.1")
Flex-i-Pro 520	7270 mm (286.2")	3648 mm (143.6")
Flex-i-Pro 520 XP	8682 mm (339.6")	3648 mm (143.6")

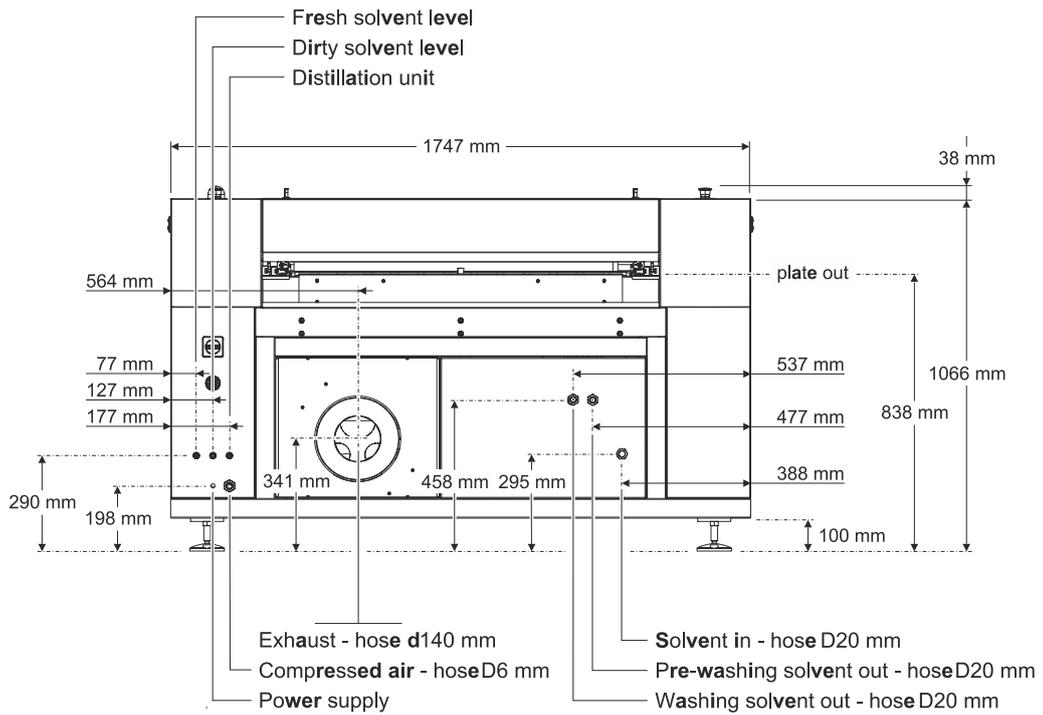
Dimensions and connections

Flex-i-Pro 360

Side view

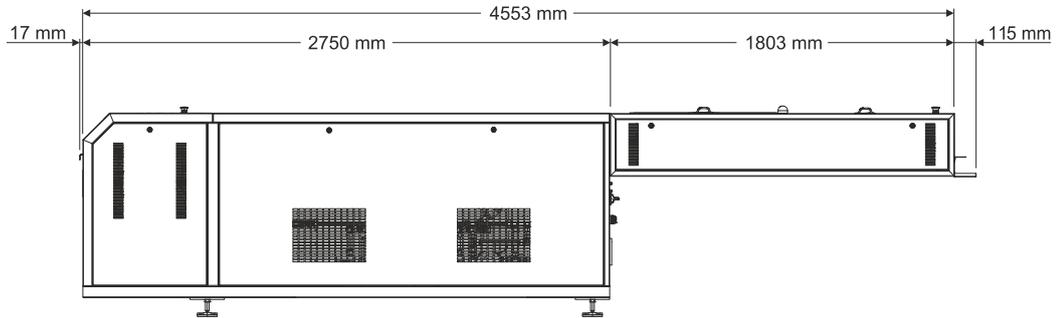


Rear view

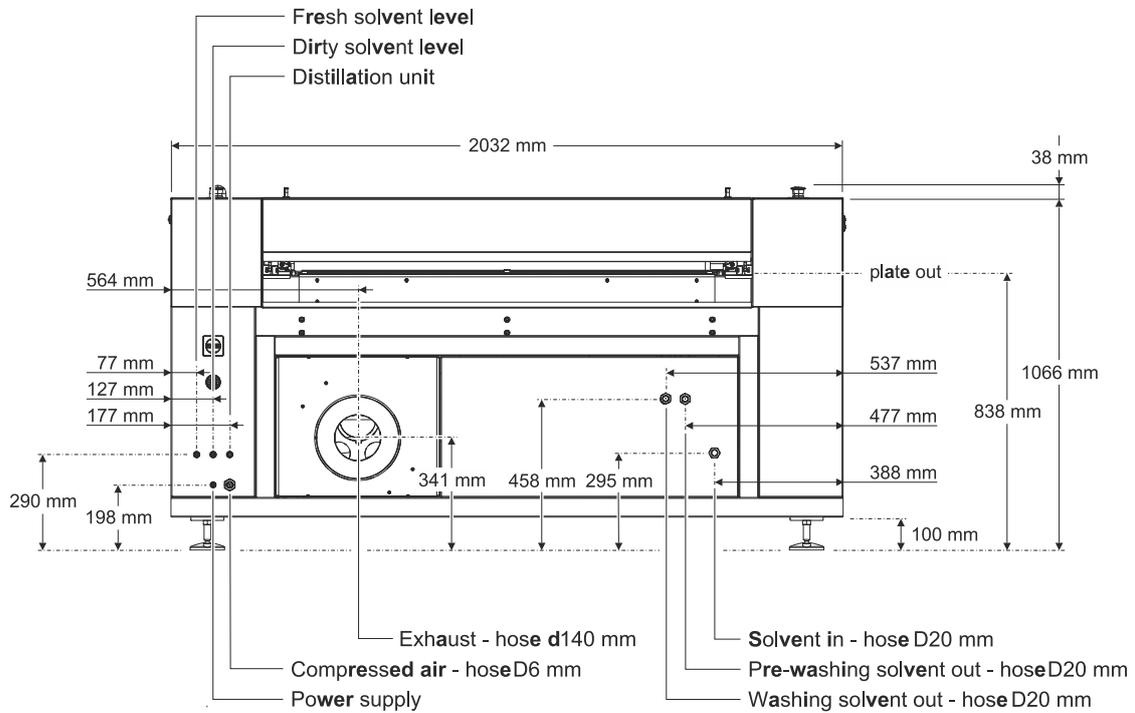


Flex-i-Pro 470

Side view

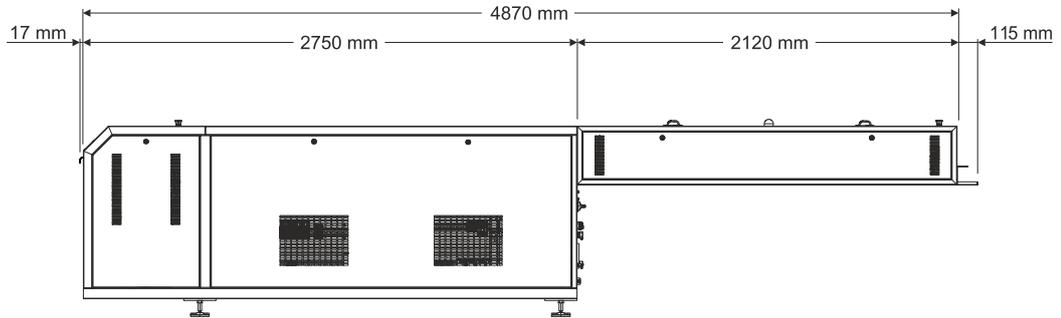


Rear view

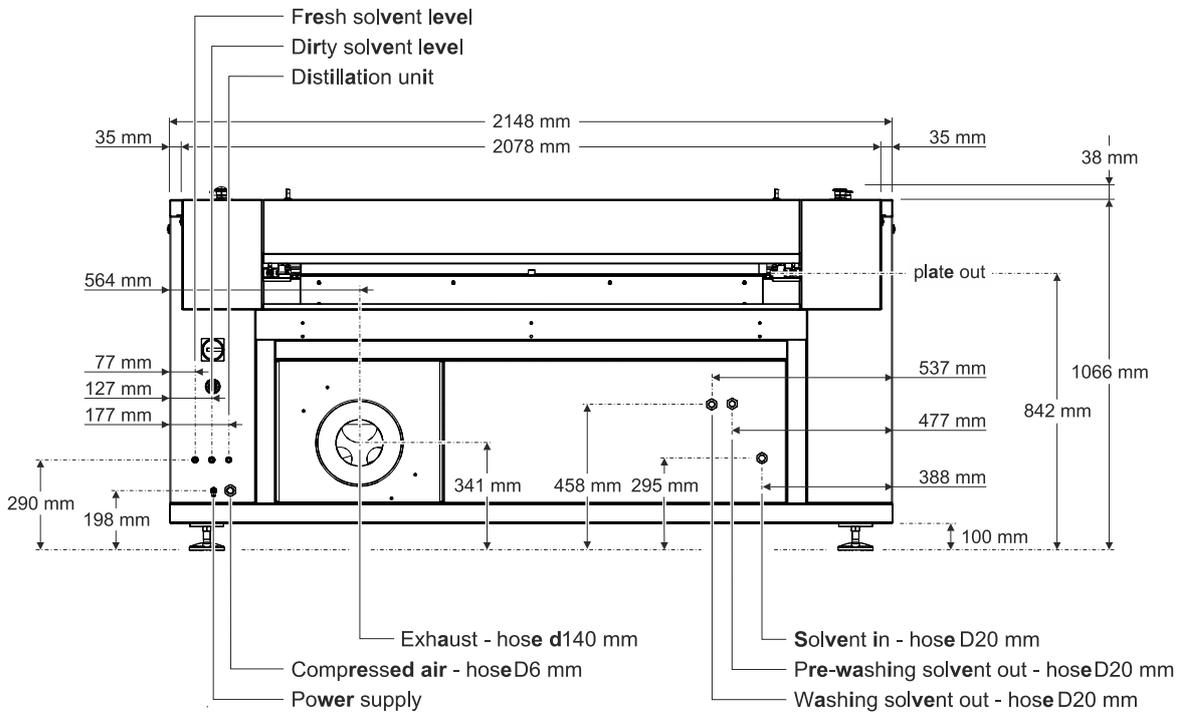


Flex-i-Pro 520

Side view

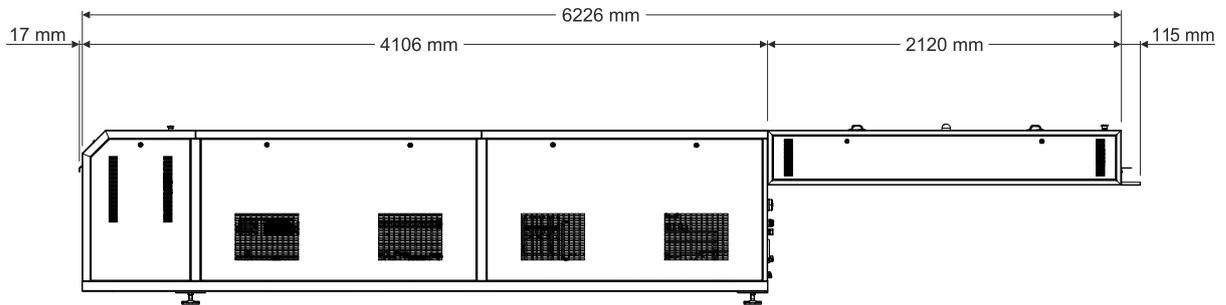


Rear view

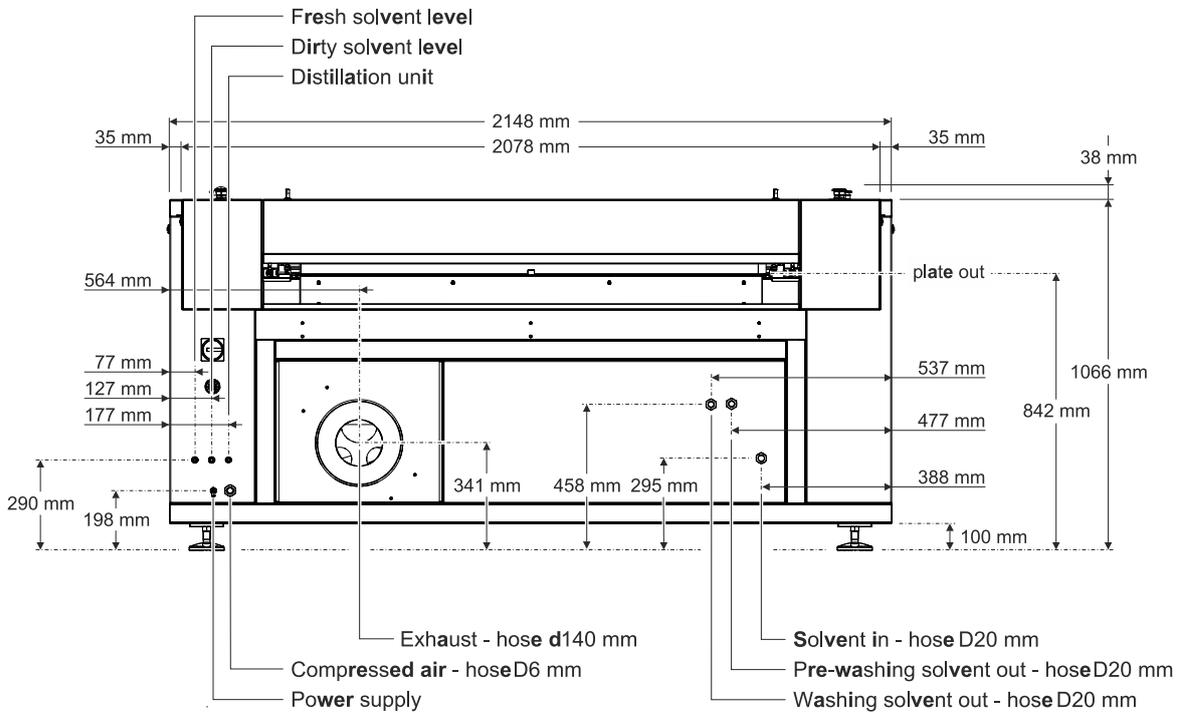


Flex-i-Pro 520 XP

Side view



Rear view



Connection requirements

Compressed air

Description	Flex-i-Pro 360	Flex-i-Pro 470	Flex-i-Pro 520	Flex-i-Pro 520 XP
Min. pressure	6 bar (87 psi)			
Max. pressure	10 bar (145 psi)			
Volume	NA	NA	NA	NA
Hose size	D6 mm	D6 mm	D6 mm	D6 mm

Exhaust connection

Processor exhaust must be connected to the appropriate location (directly to the outside or to the building exhaust installation).

Make sure that the airflow is correct and minimum exhaust capacity is according to the Exhaust specification table.

	Flex-i-Pro 360	Flex-i-Pro 470	Flex-i-Pro 520	Flex-i-Pro 520 XP
Processor, min.	600 m ³ /h (353 ft ³ /min)	600 m ³ /h (353 ft ³ /min)	600 m ³ /h (353 ft ³ /min)	600 m ³ /h (353 ft ³ /min)

Solvent connection

Provide a solvent connection for a d16/D20 mm diameter hose, which is located no more than 5 meters from machine connections.

If the solvent barrels are more than 5 meters from the processor and the piping is lifted higher than the solvent tanks, it is recommended to mount a non-return valve at the barrels to prevent backlash of solvent or 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.



CAUTION: Never lead solvent 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.

Electrical requirements



WARNING: Electrical installation must conform to local regulations and guidelines.

Main power outlet

Provide an mains power-outlet with an electrical plug lockout close to the installation site. The table showing "Power supply requirements" on the facing page indicates the applicable power supply types.

Power cable



NOTE: The cable for the main power connection is not included with the equipment. Please refer to the recommended cable types described in "Power supply requirements" on the facing page.



WARNING: 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.



CAUTION:

The conductors in the power supply cable should be of copper.

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

Electrical specifications

Power supply requirements



CAUTION: The requirements below are specifications for preparing the installation protection. The fuses/circuit breakers must be prepared according to local regulations, and with adequate capacity as specified here. The circuit breakers must be suitable for inventor operation.



NOTE: Specifications on the equipment's name plate is the actual input current and will thus not be identical to below mentioned.

	Supply *	Fuses and cables types			
		Flex-i-Pro 360	Flex-i-Pro 470	Flex-i-Pro 520	Flex-i-Pro 520 XP
EUR	3W + N + PE, 400 VAC, 50/60 Hz	Fused by 3 × 13 Amps Cable type: Min. 5 × 6 mm ² , type H07 RNF	Fused by 3 × 13 Amps Cable type: Min. 5 × 6 mm ² , type H07 RNF	Fused by 3 × 13 Amps Cable type: Min. 5 × 6 mm ² , type H07 RNF	Fused by 3 × 16 Amps Cable type: Min. 5 × 6 mm ² , type H07 RNF
US	3W + PE, 230 VAC, 50/60 Hz	Fused by 3 × 24 Amps Cable type: Min. 4 × 10 AWG, type SJO	Fused by 3 × 24 Amps Cable type: Min. 4 × 10 AWG, type SJO	Fused by 3 × 24 Amps Cable type: Min. 4 × 10 AWG, type SJO	Fused by 3 × 28 Amps Cable type: Min. 4 × 10 AWG, type SJO

*) Voltage tolerance ± 10%



NOTE: The power cable(s) must be in accordance with local regulations.



WARNING: Please be aware of double pole/neutral fusing.



CAUTION: The fuses must have a breaking capacity of min. 100 kA.

Power consumption

Flex-i-Pro

	Flex-i-Pro 360	Flex-i-Pro 470	Flex-i-Pro 520	Flex-i-Pro 520 XP
In operate, per phase (±10%), max.	8500 W (29000 BTU)	8500 W (29000 BTU)	8500 W (29000 BTU)	10000 W (34200 BTU)



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Checklist

Please check the following conditions in order to ensure a trouble-free installation of the equipment:

- | 1. Delivery of the crate and transport to the installation site | YES | NO |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|
| A. Is there a place indoor where the crated equipment can be stored temporarily? | <input type="radio"/> | <input type="radio"/> |
| B. Is there a hand-powered pallet mover, a fork-lift truck or any other lifting device available? Please refer to "Lifting the crate" on page 1 for required lifting equipment. | <input type="radio"/> | <input type="radio"/> |
| C. Can the crate be transported directly to the installation site? See "Required width of passage and doorways" on page 10. | <input type="radio"/> | <input type="radio"/> |
| D. Is it necessary to unpack the equipment before it is transported to the installation site? See "Required width of passage and doorways" on page 10. | <input type="radio"/> | <input type="radio"/> |
| E. Are there other factors (stairs, elevators, corners, obstacles, etc.) which should be taken into account when transporting the equipment?
If YES, please describe: | <input type="radio"/> | <input type="radio"/> |
-

- | 2. Power supply | YES | NO |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------|
| A. Make a note of the present supply specifications: | | |
| Number of phases: _____ | Neutral wire? <input type="radio"/> | |
| Voltage (V): _____ | Earth wire? <input type="radio"/> | |
| Fused by (Amps): _____ | | |
| Frequency (Hz): _____ | | |
| B. Has a connection box been provided to connect the equipment to the mains? | <input type="radio"/> | <input type="radio"/> |
| C. Has the customer been asked to provide for all supplies (cables, fuses, etc.) necessary to connect the equipment to the mains? | <input type="radio"/> | <input type="radio"/> |
| D. Is there a house electrician available? | <input type="radio"/> | <input type="radio"/> |
| E. Are there any known problems in the building where the equipment will be installed?
If YES, please describe which: | <input type="radio"/> | <input type="radio"/> |
-

3.	Connections	YES	NO
A.	Is air condition/ventilation available according to the requirements as described in chapter "Exhaust connection" on page 17.?	o	o
B.	Is compressed air available according to the requirements as described in chapter "Compressed air" on page 17.?	o	o
C.	Is solvent connection available according to the requirements as described in chapter "Solvent connection" on page 17.	o	o

4.	Web registration	YES	NO
A.	The login and password is necessary to download an available manuals for the equipment.		
	<ul style="list-style-type: none"> - Click on Login and then Create new account. - Fill up the required fields and checkboxes. - Then click on CREATE NEW ACCOUNT. - After while the login information will be delivered to the specified e-mail. 	o	o
