Pre-installation Manual

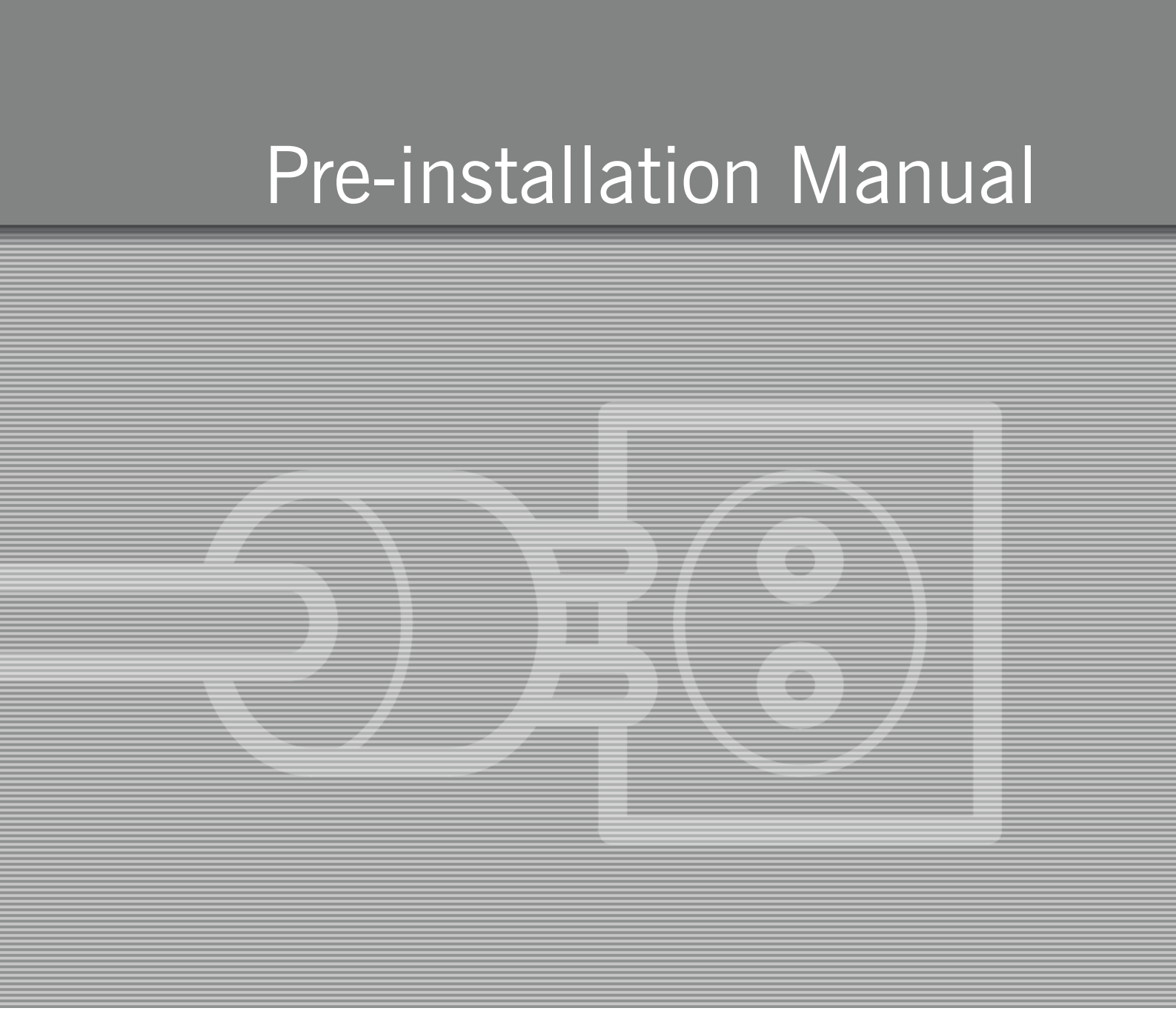

Plate Processors
85-125-150-165

Pre-installation

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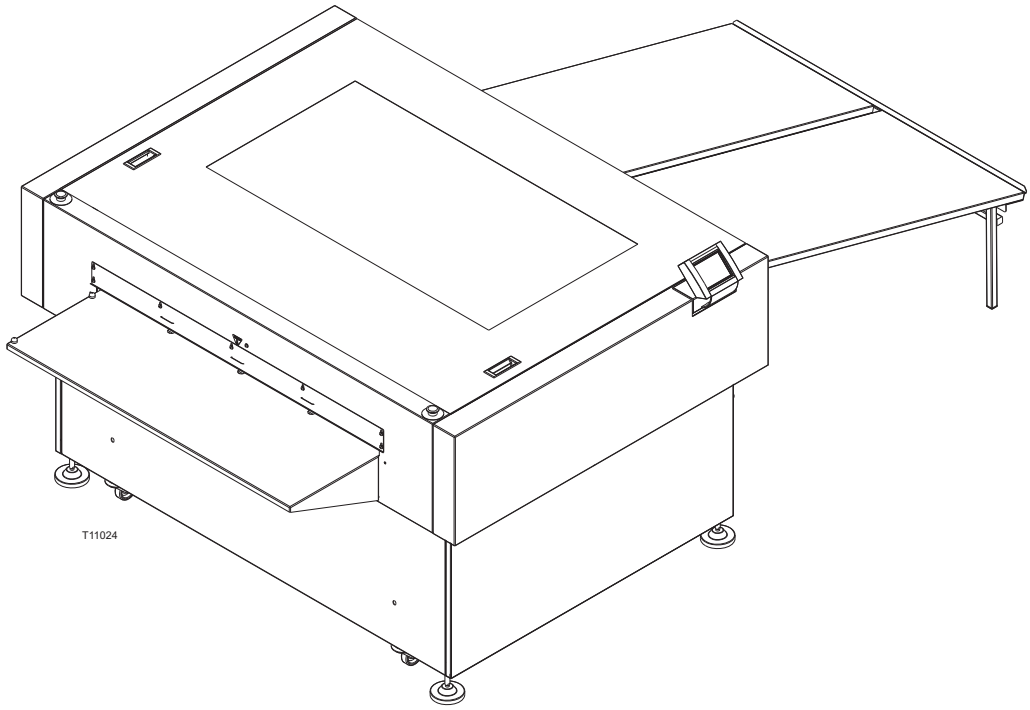

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Part 0: Introduction

This guide covers the **Plate Processors 85-125-150-165**.

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 Guide allow the customer and the Service Technician to prepare the installation of the processor.

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

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 personnel injury.

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Part 1: Transportation

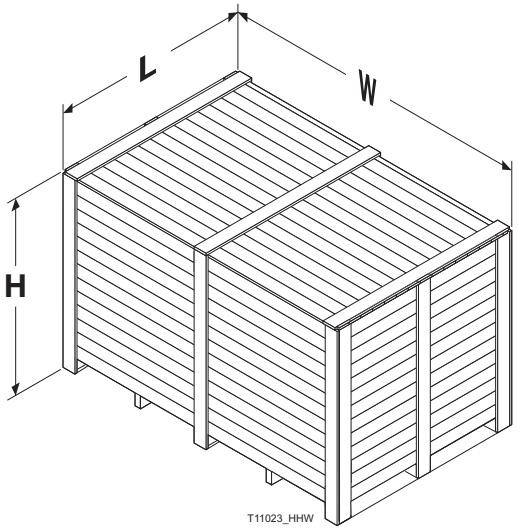
When the processor arrives

Storing the processor before installation

The crated processor will usually be delivered some time before the arrival of the Service Technician. In such a case you should prepare an appropriate place indoors to store the crated processor.

The crate

Dimensions and weight



Processor type	85	125	150	165
Width (W)	185.6 cm (73.1")	225.2 cm (88.7")	259.2 cm (102.0")	272.2 cm (107.2")
Length (L)	147.2 cm (58.0")	166.0 cm (65.3")	166.0 cm (65.3")	166.0 cm (65.3")
Height (H)	149.4 cm (58.8")	155.7 cm (61.3")	155.7 cm (61.3")	155.7 cm (61.3")
Weight, crated (+/- 5%)	537 kg (1184 lbs)	865 kg (1907 lbs)	936 kg (2063 lbs)	1000 kg (2205 lbs)
Weight, without crate	364 kg (802 lbs)	610 kg (1345 lbs)	650 kg (1433 lbs)	670 kg (1477 lbs)

Checking the crate for damage

Check if the crate is damaged at the time of delivery.
Take note of the damage before you allow the Service Technician to unpack the processor. 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 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.

Transporting the processor

Lifting the crate

The processor is supplied in a wooden crate providing fork lift access from all 4 sides. To lift the crate a fork-lift truck is required.

A fork lift is not required to remove the processor from the pallet as the crate is provided with one side which, when folded down on hinges on it's botton edge, forms a ramp. This ramp is used when unloading the processor from the crate and has the word "RAMP" printed on it's outer face. When placing the crate into position for unpacking, ensure that the side with the word "RAMP" is a minimum 4 m (13 ft) from any obstruction. If however there is insufficient space to give this 4 m (13 ft) of unobstructed floor, a fork lift must be used to lift the processor off the pallet.

The processor is very heavy equipment. 2 - 4 people are needed for removing the processor from the pallet.

Available width for transport

Depending of the width of the door(s) through which the processor has to be transported to the installation site, the service technician may have to perform the actions described in the table below.

	85	125	150	165	Then...
	If width of the doorways are ...				
More than	155 cm (61")	170 cm (67")	170 cm (67")	170 cm (67")	No action is required as the crated processor can be transported with a fork lift immediately to the installation site.
Less than **but** **more than**	155 cm (61") 115 cm (45")	170 cm (66.9") 145 cm (57")	170 cm (66.9") 145 cm (57")	170 cm (66.9") 145 cm (57")	The Service Technician has to unpack the processor according to the descriptions on the next pages. The processor can then be transported on its wheels to the installation site.
Less than	115 cm (45")	145 cm (57")	145 cm (57")	145 cm (57")	Arrange for adequate accessibility for transporting the processor to the installation site.

Part 2: Installation requirements

Environmental requirements

Provide a heating and ventilating system capable of maintaining room temperature between 15 and 25°C (59 and 77°F) and relative humidity on max. 80%.
Heat emission from the processor is max.:

	Heat emission	85	125	150	165
EUR/US	11600 BTU/hour	●			
	20500 BTU/hour		●	●	●
JAP	8200 BTU/hour	●			
	15700 BTU/hour		●	●	●

The ventilating system must be capable of renewing the air around the processor effectively. The best solution will be a hood with a Ø100-120 mm exhaust hose covering the exit of the processor with a capacity of removing min. 300 m^3/h. Alternatively an exhaust system removing the air from the room must have a capacity of min. 800 m^3/h. In both cases fresh air should be provided at floor level through light tight ventilation openings.
Be aware that the airflow must pass from the setter and across the processor - *never* the opposite way around.

Cleaning facilities

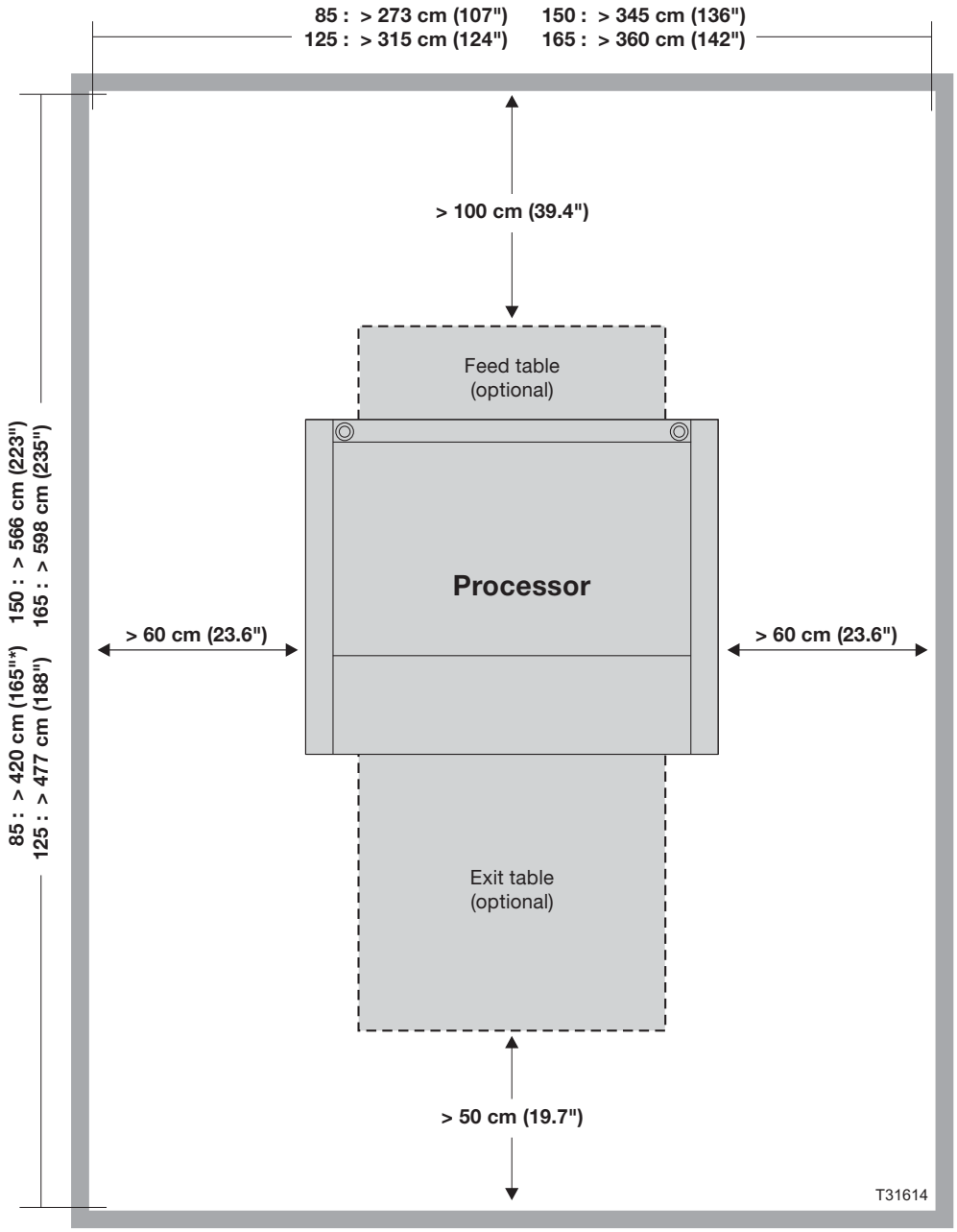
It is essential to have easy access to a sink and a water tap with hot water where rollers, guides, and brushes can be washed.

	Minimum recommended size of the sink
85	105 x 40 cm (41.3 x 16")
125	145 x 40 cm (57.1 x 16")
150	175 x 40 cm (68.9 x 16")
165	190 x 40 cm (74.8 x 16")

Space requirements

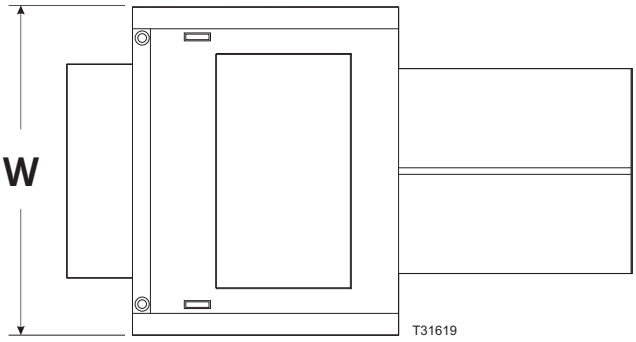
Free space around the machine

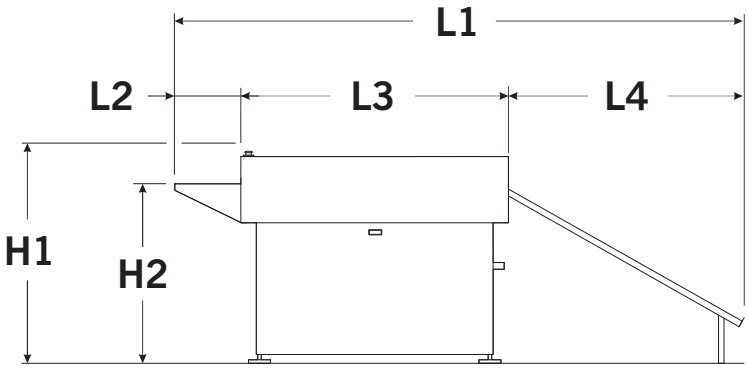
Decide where the processor shall be placed and make sure that the free space around the machine makes servicing possible.
The recommended minimum free space around the machine is specified in the illustration below:



For CTP On-line processors the space requirements at the processor front has to be decided separately.

Processor dimensions

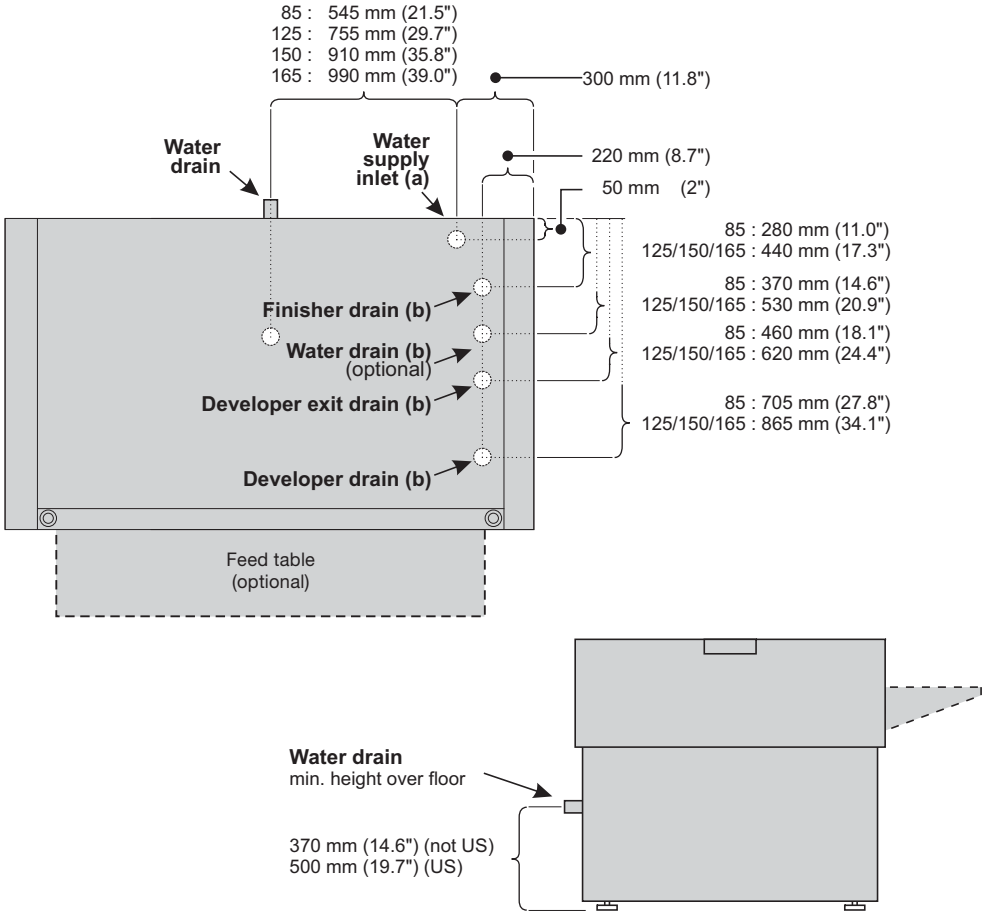




Processor	85	125	150	165
Width (W)	152.5 cm (60.0")	195.0 cm (76.8")	225.0 cm (88.6")	240.0 cm (94.5")
Length (L1)	243.8 cm (96.0")	326.8 cm (128.7")	326.8 cm (128.7")	444.7 cm (175.1")
Length (L2)	30.0 cm (11.8")	40.0 cm (15.7")	100 cm (39.4")	
Length (L3)	107.0 cm (42.1")	141.0 cm (55.5")		
Length (L4)	106.8 cm (42.0")	145.8 cm (57.4")	174.7 cm (68.8")	203.7 cm (80.2")
Height (H1) *	108.5 cm* (42.7")*	114.8 cm* (45.2")*		
Height (H2) *	80.2 cm* (31.6")*	81.4 cm* (32.0")*		

*) Height is adjustable up to approx. 8 cm (3") upwards from measurements listed above. Some processors have foot extentions. Heights will in those cases increase accordingly.

Water supply and drains



Hose connections:

a : Connection to 12 mm (1/2") hose. Hose is not delivered with the processor. F/M 3/4"RGx3/4NH adapter is delivered with the processor.

b : Drain hoses 20 mm (3/4") are factory installed.

Prepare the installation site for water supply and drain connections according to the illustration above. Please also refer to the processor dimensions described earlier in this document.

Water supply

The water supply connection is located on the rear side of the processor. The supply water pressure must be min. **2 - 6 bar (29 - 87 psi)**.

Drains

- The wash drain can be led to public drain. Refer to local regulations.
- The gum must be drained into a container and recirculated.

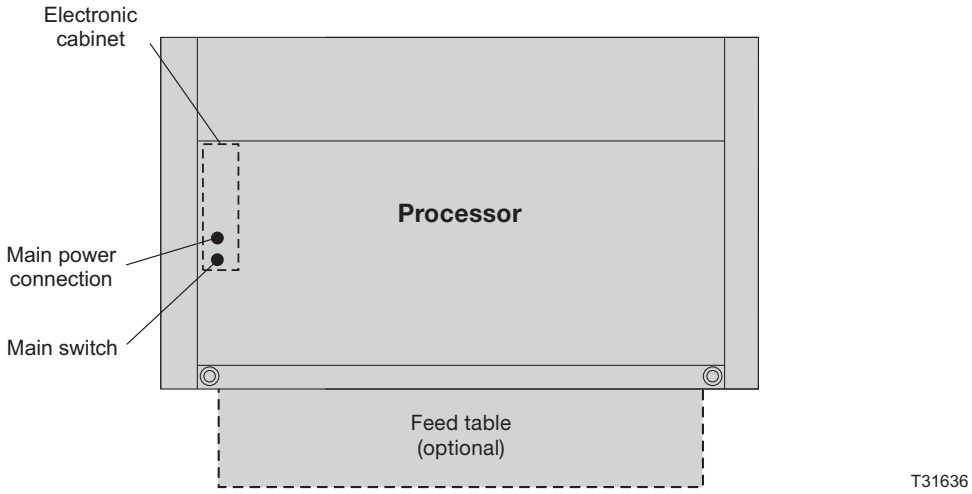
Many countries have strong regulations regarding disposal of waste. Refer to the local regulations when making preparations for drains.

Electrical requirements

Electrical installation must conform to local regulations and guidelines.

Main power connection

The main power connection is made in the processor's field-wiring box located on the left side of the processor as shown in the illustration below.



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 processor models they apply.

Power cable

The cable for the main power connection is supplied for US processors. Other processors are delivered without main power cable. The table on the next page also shows recommended power supply cables.

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

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

Electrical specifications

Installation requirements for power supply

The fuse requirements listed below are higher than Amps specified on the processors name plate. It is important to prepare the installation with the fuses as specified below.

	Supply/Fuse	Recom. cable type	85	125	150	165
EUR	1W + N + PE, 230V AC, 1x20 Amps, 50/60 Hz	Min. 3 x 1.5 mm^2, type H07 RNF	●			
	1W + N + PE, 230V AC, 1x30 Amps, 50/60 Hz	Min. 3 x 4 mm^2, type H07 RNF		●	●	●
	3W + N + PE, 400V AC, 3x16 Amps, 50/60 Hz	Min. 5 x 1.5 mm^2, type H07 RNF	●			
	3W + N + PE, 400V AC, 3x16 Amps, 50/60 Hz	Min. 5 x 1.5 mm^2, type H07 RNF		●	●	●
US	2W + PE, 230V AC, 2x20 Amps, 50/60 Hz	Min. 3 x 12 AWG, type SJO	●			
	2W + PE, 230V AC, 2x30 Amps, 50/60 Hz	Min. 3 x 10 AWG, type SJO		●	●	●
	3W + PE, 230V AC, 3x15 Amps, 50/60 Hz	Min. 4 x 14 AWG, type SJO	●			
	3W + PE, 230V AC, 3x20 Amps, 50/60 Hz	Min. 4 x 12 AWG, type SJO		●	●	●
JAP	2W + PE, 200V AC, 2x20 Amps, 50/60 Hz	Min. 3 x 14 AWG, type *	●			
	2W + PE, 200V AC, 2x30 Amps, 50/60 Hz	Min. 3 x 12 AWG, type *		●	●	●
	3W + PE, 200V AC, 3x15 Amps, 50/60 Hz	Min. 4 x 14 AWG, type *	●			
	3W + PE, 200V AC, 3x20 Amps, 50/60 Hz	Min. 4 x 14 AWG, type *		●	●	●
All	Voltage tolerance +10%/-10%		●	●	●	●

*) Power cord must be in accordance with local regulations.

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

	Max power consumption at ...	85	125	150	165
EUR/ US	230/400 V AC operation: 3400 Watt / 11600 BTU/hour	●			
	230/400 V AC operation: 5700 Watt / 19400 BTU/hour		●	●	●
	Stand-by: 500 Watt / 1710 BTU/hour	●	●	●	●
JAP	200 V AC operation: 2600 Watt / 8870 BTU/hour	●			
	200 V AC operation: 4400 Watt / 15000 BTU/hour		●	●	●
	Stand-by: 500 Watt / 1710 BTU/hour	●	●	●	●

Part 3: Pre-installation check list

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

1. Delivery of the crate and transport to the installation site

	YES	NO
A. Is there a place indoors where the packing box can be stored temporarily?	❑	❑
B. Is there a hand-powered pallet mover, a fork-lift truck or any other lifting device available?	❑	❑
C. Can the crate be transported directly to the installation site? *See minimum width specifications on page 1-3.*	❑	❑
D. Is it sufficient to unpack the processor before it is transported to the installation site? *See minimum width specifications on page 1-3.*	❑	❑
E. Are there other factors (stairs, elevators, corners, obstacles, etc.) which should be taken into account when transporting the crate or processor?	❑	❑

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

	YES	NO
B. Has a connection box been provided to connect the processor to the mains?	❑	❑
C. Is the customer aware that he/she should provide (or order) all supplies (cables, fuses, etc.) necessary to connect the processor to the mains?	❑	❑
D. Is there a house electrician available?	❑	❑
E. Are there any known problems in the building where the processor will be installed?	❑	❑

If so, explain: .....

.....

.....

.....

3. Water supply and drain

	YES	NO
A. Capacity of air condition/ventilation adequate with regard to BTU as specified on page 2-1?	❑	❑
B. Can a hose 3/4" BSP be connected to the water supply tap?	❑	❑
C. Is there a large sink (with hot water) for cleaning the equipment?	❑	❑
D. Will the processor be connected to a local waste treatment system?	❑	❑
E. Is the tap water temperature adjustable? (If recommended by plate supplier).	❑	❑
F. Is the supply water pressure min. 6 bar (87 psi)?	❑	❑
G. Availability of warm water for cleaning of the processor?	❑	❑

4. Need for accessories

A. Remark the input height of the Rinse Gum Unit. Is there a need for leg extenders?	❑	❑

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