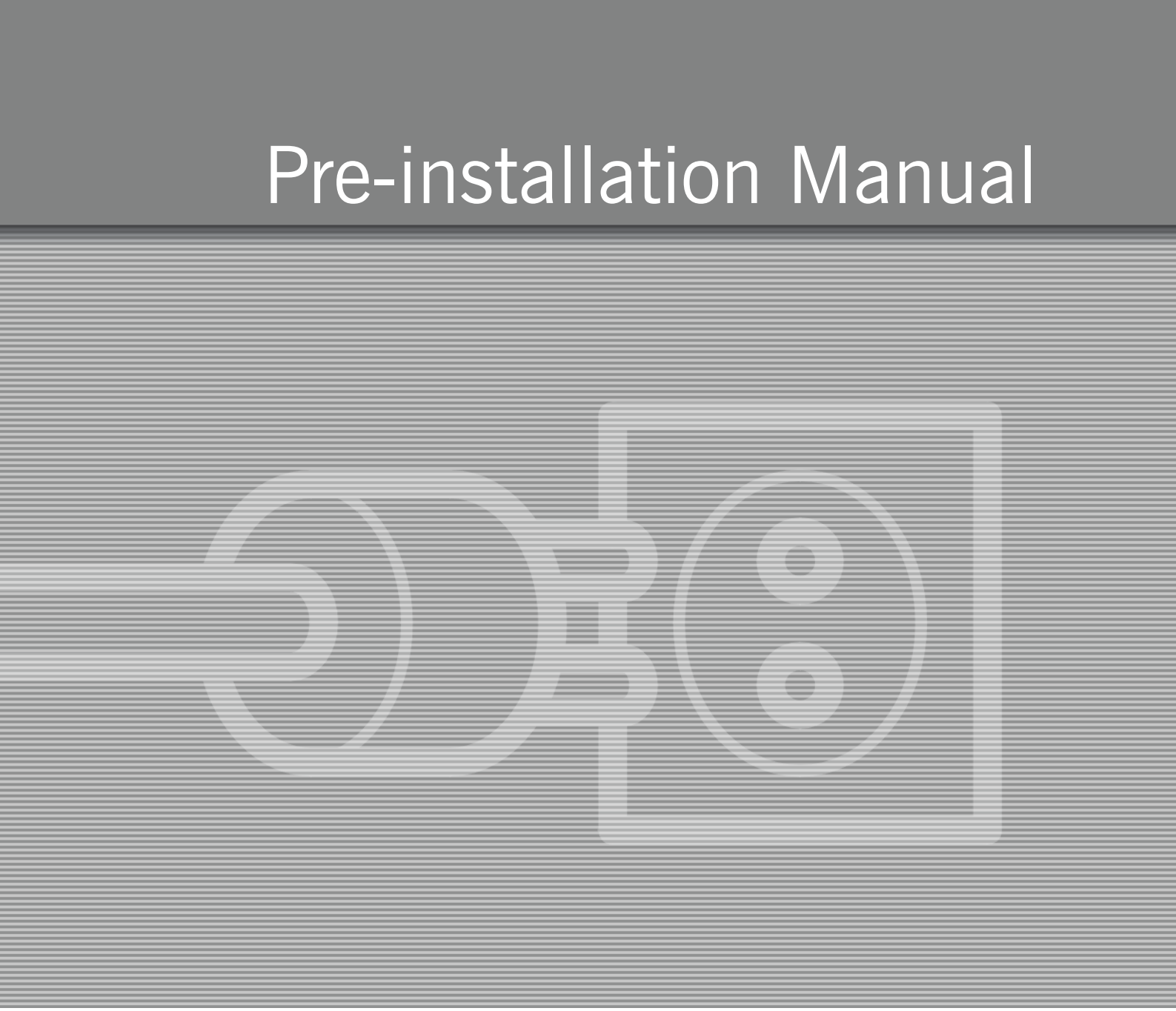
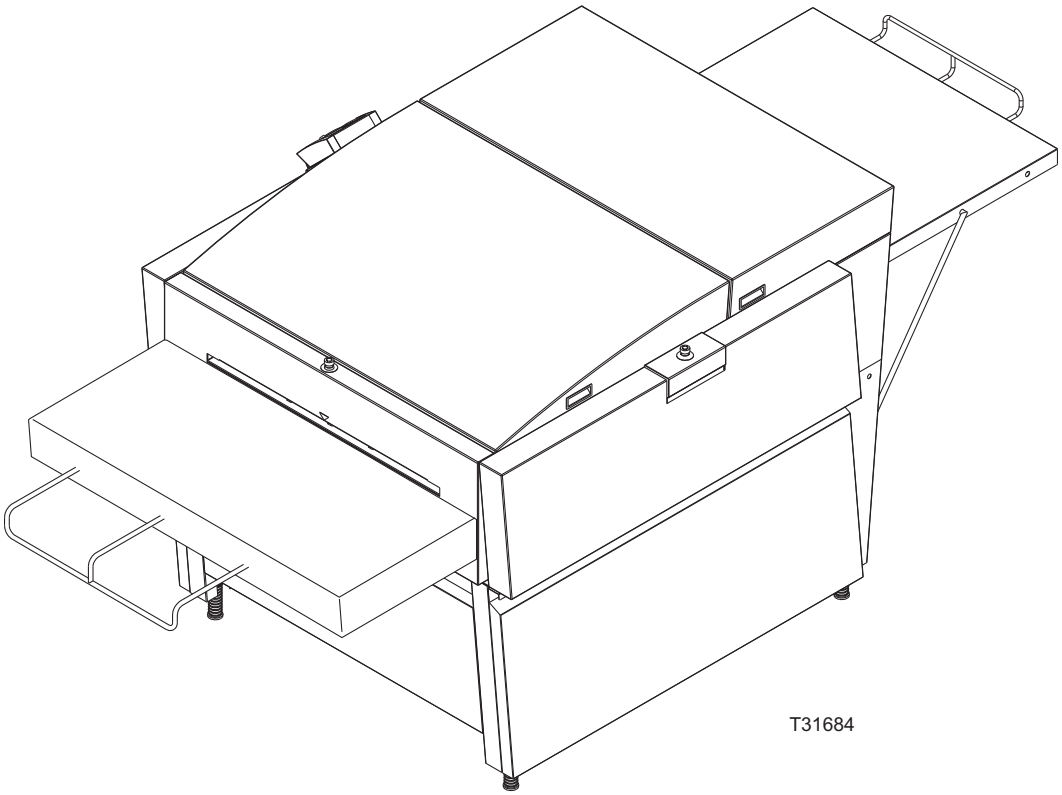
# Pre-installation Manual



## Plate Processors
## 85/125/150

# Pre-installation

## Plate Processors 85/125/150



T31684

**Edition AA, January 2009**
**This manual has part No 51637**

This manual is published by: **GLUNZ & JENSEN A/S**
Haslevvej 13,
DK-4100 Ringsted
Denmark
Phone:+45 57 68 81 81
E-mail: gjhq@glunz-jensen.com
Internet: www.glunz-jensen.com

Copyright © 2009 by GLUNZ & JENSEN A/S.

# Part 0: Introduction

This guide covers: **Thermal CTP Plate Processors 85/125/150**.

## 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 plate 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 personal injury. |

# Table of Contents

**Part 0: Introduction . . . . . 0.3**
Reservations . . . . . 0.3
Pre-installation instructions . . . . . 0.3
Notes, Cautions and Warnings . . . . . 0.3

**Part 1: Transportation . . . . . 1.1**
When the processor arrives . . . . . 1.1
Storing the processor before installation . . . . . 1.1
The crate . . . . . 1.1
Dimensions and weight . . . . . 1.1
Checking the crate for damage . . . . . 1.2
Handling the crate . . . . . 1.2
Transporting the processor . . . . . 1.3
Lifting the crate . . . . . 1.3
Available width for transport . . . . . 1.3

**Part 2: Installation requirements . . . . . 2.1**
Environmental requirements . . . . . 2.1
Cleaning facilities . . . . . 2.1
Space requirements . . . . . 2.2
Free space around the machine . . . . . 2.2
Water supply and drains . . . . . 2.3
Water supply . . . . . 2.3
Drains . . . . . 2.3
Electrical requirements . . . . . 2.4
Main power connection . . . . . 2.4
Main power outlet . . . . . 2.4
Power cable . . . . . 2.4
Electrical specifications . . . . . 2.5
Installation requirements for power supply . . . . . 2.5
Fuses . . . . . 2.6
Power consumption . . . . . 2.6

**Part 3: Pre-installation check list . . . . . 3.1**

# Part 1: Transportation

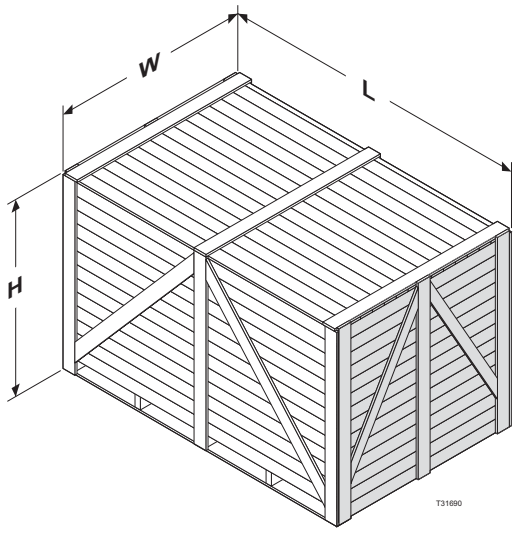
## When the processor arrives

### Storing the processor before installation

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

## The crate

### Dimensions and weight




| Processor | 85 | 125 | 150 |
|---|---|---|---|
| **Width (W)** | 1552 mm (61.1") | 1952 mm (76.9") | 2220 mm( 87.4") |
| **Length (L)** | 1872 mm (73.7") | 1872 mm (73.7") | 1890 mm (74.4") |
| **Height (H)** | 1500 mm (59.1") | 1500 mm (59.1") | 1510 mm (59.4") |
| **Weight,** crated (+/- 5%) | 580 kg (1278.7 lb) | 750 kg (1653.5 lb) | 860 kg (1896 lb) |
| **Weight,** without crate | 350 kg (771.6 lb) | 490 kg (1080.3 lb) | 540 kg (1190.5 lb) |

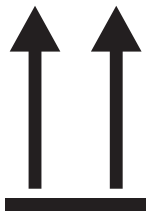
## Checking the crate for damage

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.

T31691

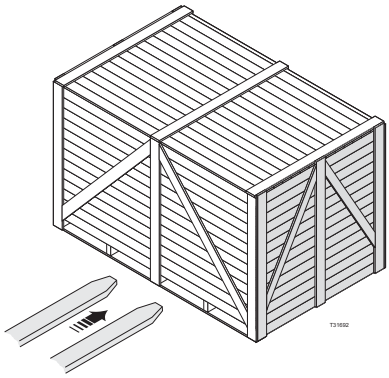
# Transporting the processor

## Lifting the crate

To lift the crate, at least a forklift truck or two persons and a hand powered pallet mover are required.

**Please note that you can only insert the forks of the forklift truck or pallet mover from the side as illustrated below.**

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



## Available width for transport

Depending on 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 | Then... |
|---|---|---|---|---|
| | If width of door is ... | | | |
| **More than** | 1560 mm (61.4") | 1880 mm (74") | 1900 mm (74.8") | No action is required as the crated processor can be transported with a fork lift immediately to the installation site. |
| **Less than**<br><br>**but**<br><br>**more than** | 1560 mm (61.4")<br><br>1350 mm (53.1") | 1880 mm (74")<br><br>1550 mm (61") | 1900 mm (74.8")<br><br>1550 mm (61") | 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** | 1350 mm (53.1") | 1550 mm (61") | 1550 mm (61") | 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 of max. 80%.

## 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.

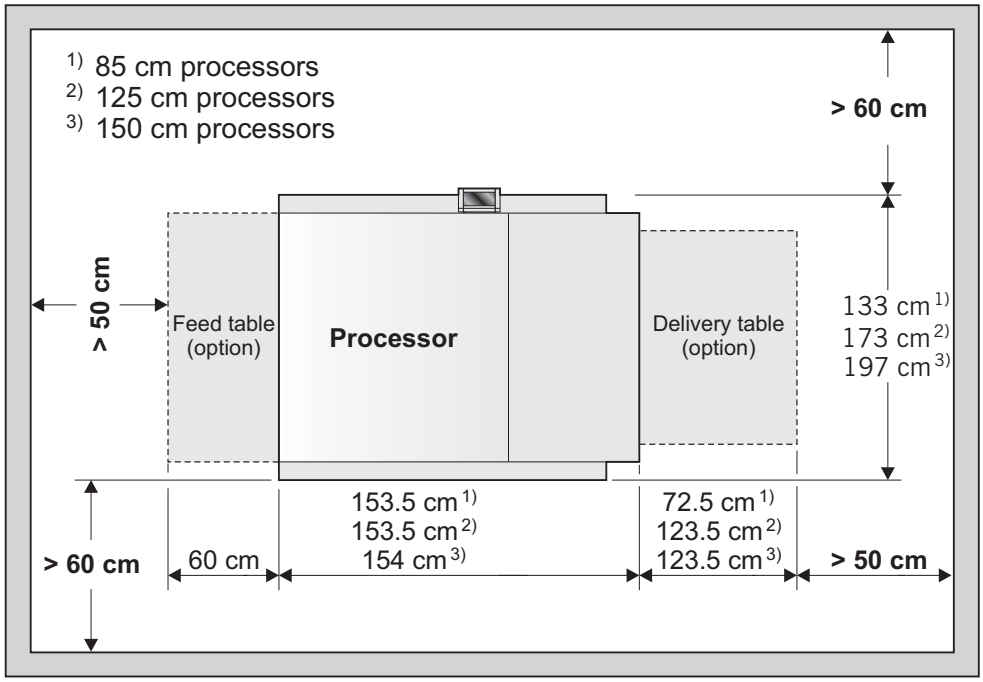
| | Minimum recommended size of the sink |
|---|---|
| **85** | 100 x 40 cm (39.4 x 15.7") |
| **125** | 140 x 40 cm (55.1 x 15.7") |
| **150** | 170 x 40 cm (66.9 x 15.7") |

# Space requirements

## Free space around the machine

Decide where the processor will be placed and make sure that the free space around the machine makes servicing possible.

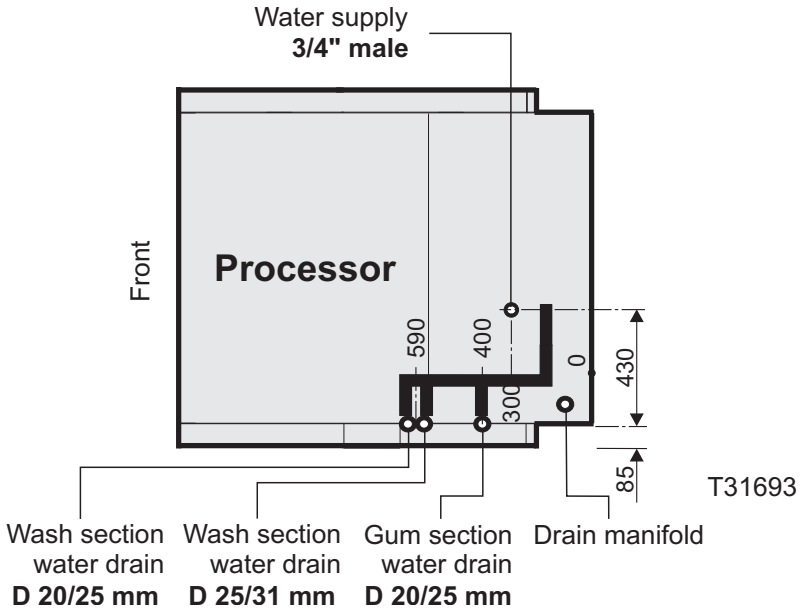
The recommended minimum free space around the machine is specified in the illustrations below:




T31686

**For CTP On-line processors, the space requirements at the processor front must be decided separately.**

# Water supply and drains




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. **1 - 6 bar (14.5 - 87 psi)**. For tap water installations the pressure must be at least **3 bar (42 psi)**.

## Drains

All drain hoses must have a positive fall from the processor to the drain.

**Never lead drain hoses from the developer section into a drain, as most developer solutions are strong pollutants. It is also illegal to empty these types of chemicals into the public sewer system.**

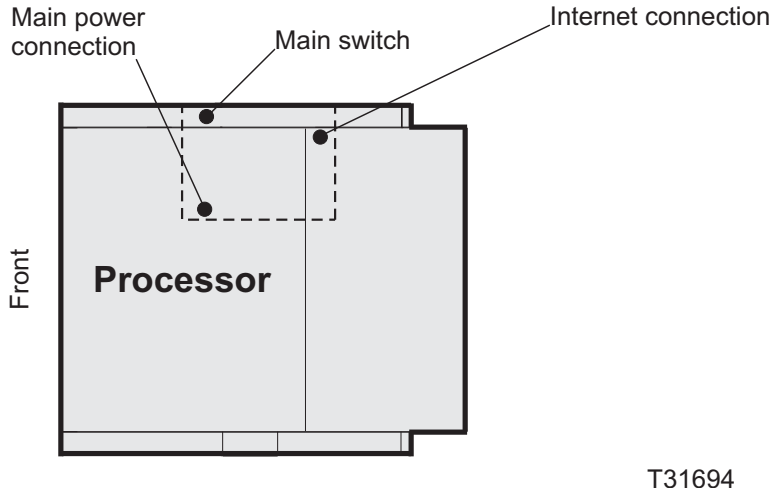
**Under all circumstances local regulations applying to the treatment of (chemical) waste must be followed strictly.**

# Electrical requirements

**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 not delivered with the processor. The table on the next side also shows recommended power supply cables.

**When deciding what type of cable to use, you should 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 forklift 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

| | Supply / Fuse | Recom. Cable type | 85 | 125 | 150 |
|---|---|---|---|---|---|
| EUR | 1W + N + PE, 230 Vac, 1 x 25 A, 50/60 Hz. | Min. 3 x 2.5 mm², type H07RNF | • | • | • |
| | 3W + N + PE, 400 Vac, 3 x 10 A, 50/60 Hz. | Min. 5 x 1.5 mm², type H07RNF | • | | |
| | 3W + N + PE, 400 Vac, 3 x 15 A, 50/60 Hz. | Min. 5 x 2.5 mm², type H07RNF | | • | • |
| | | | | | |
| US | 2W + PE, 230 Vac, 2 x 25 A, 50/60 Hz. | Min. 3 x 12 AWG, type SJO | • | • | • |
| | 3W + PE, 230 Vac, 3 x 15 A, 50/60 Hz. | Min. 4 x 14 AWG, type SJO | • | | |
| | 3W + PE, 230 Vac, 3 x 20 A, 50/60 Hz. | Min. 4 x 12 AWG, type SJO | | • | • |
| | | | | | |
| JAP | 2W + PE, 200 Vac, 2 x 20 A, 50/60 Hz. | Min. 3 x 12 AWG, type SJO | • | | |
| | 2W + PE, 200 Vac, 2 x 25 A, 50/60 Hz. | Min. 3 x 12 AWG, type SJO | | • | • |
| | 3W + PE, 200 Vac, 3 x 15 A, 50/60 Hz. | Min. 4 x 14 AWG, type SJO | • | | |
| | 3W + PE, 200 Vac, 3 x 20 A, 50/60 Hz. | Min. 4 x 12 AWG, type SJO | | • | • |

*) 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 | 85 | 125 | 150 |
|---|---|---|---|---|
| EUR/ US | 230/400 Vac operation:<br>4,700 Watt / 16,000 BTU/hour | • | | |
| | 230/400 Vac operation:<br>5,100 Watt / 17,400 BTU/hour | | • | • |
| | Stand-by:<br>Approx. 500 Watt / 1,710 BTU/hour | • | • | • |
| | | | | |
| JAP | 200 Vac operation:<br>3,600 Watt / 16,000 BTU/hour | • | | |
| | 200 Vac operation:<br>3,900 Watt / 17,400 BTU/hour | | • | • |
| | Stand-by:<br>Approx. 500 Watt / 1,710 BTU/hour | • | • | • |
| | | | | |
| All | Voltage tolerance ± 10% | • | • | • |

# 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 forklift 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 ¾" 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:

T31695