

# Site Preparation Guide



# stratasys®

## Krumm RK1600 VA Cleaning Station



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# Contents

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Introduction .....	4
For More Information .....	4
Shipment and Delivery .....	5
Shipping Responsibility .....	5
Shipping Pallets .....	5
Shipping Information .....	6
Physical Description .....	7
Size and Weight .....	7
Model Capacity .....	7
Site Requirements .....	8
Water Supply .....	10
Drain .....	10
Floor .....	10
Compressed Air .....	10
Exhaust .....	10
Electrical Requirements .....	11
Power .....	11
Circuit breaker .....	11
Ground .....	11
Plug .....	11
Power Transformer .....	11
Frequency Converter .....	11
Summary .....	12
Site Preparation Checklist .....	13

# Introduction

This document provides site-preparation information and requirements for the Krumm RK1600 VA Cleaning Station cleaning unit, to ensure proper installation and operation. The customer is responsible for preparing the installation site according to the instructions and guidelines described in this document.

The following topics are covered in this guide:

- Physical description
- Site requirements

**Important:**

Since preparation of the site must be completed before the installation date, you must submit the checklist at the end of this document to your local Stratasys representative after carrying out the tasks described in this guide. After the checklist is reviewed, a date will be set for installation.

## For More Information

If you have any questions about preparing your site, contact your Stratasys representative.

To view a video describing how to use the Krumm RK1600 VA Cleaning Station cleaning unit, [click here](#) or go to <http://www.youtube.com/watch?v=THjJNVkXzjA>.

If you have any comments or suggestions for future editions of this document, please send a message to [c-support@stratasys.com](mailto:c-support@stratasys.com).

# Shipment and Delivery

## Shipping Responsibility

Stratasys Ltd. will arrange shipment to the customer's facility, as specified in the price quote. It is the customer's responsibility to provide Stratasys with detailed delivery instructions. The customer is also responsible for transporting the system to a suitably prepared installation site and moving it to its final location.



**Important:**

Equipment should be unpacked and installed in the presence of an authorized Stratasys representative.

## Shipping Pallets

The system is delivered to the site on a wooden pallet. The size and weight of the pallet are shown in Table 1.

Table 1 Shipping pallet size and weight

W x H x D (cm)	W x H x D (in.)	Weight*
220 x 235 x 200	86.6 x 92.5 x 78.7	1000 kg/2205 lb.

\*Weight—gross weight of the packed crate

# Shipping Information

The following diagrams show information relevant for lifting and transporting the cleaning unit to its final location.

Figure 1 Center of gravity

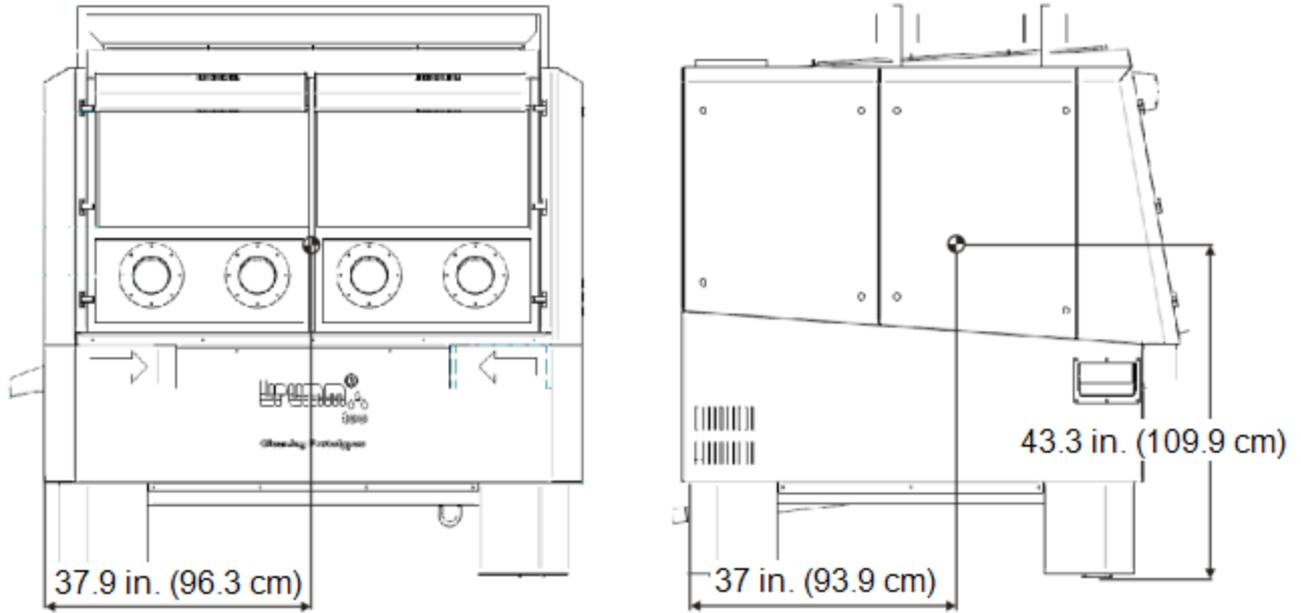
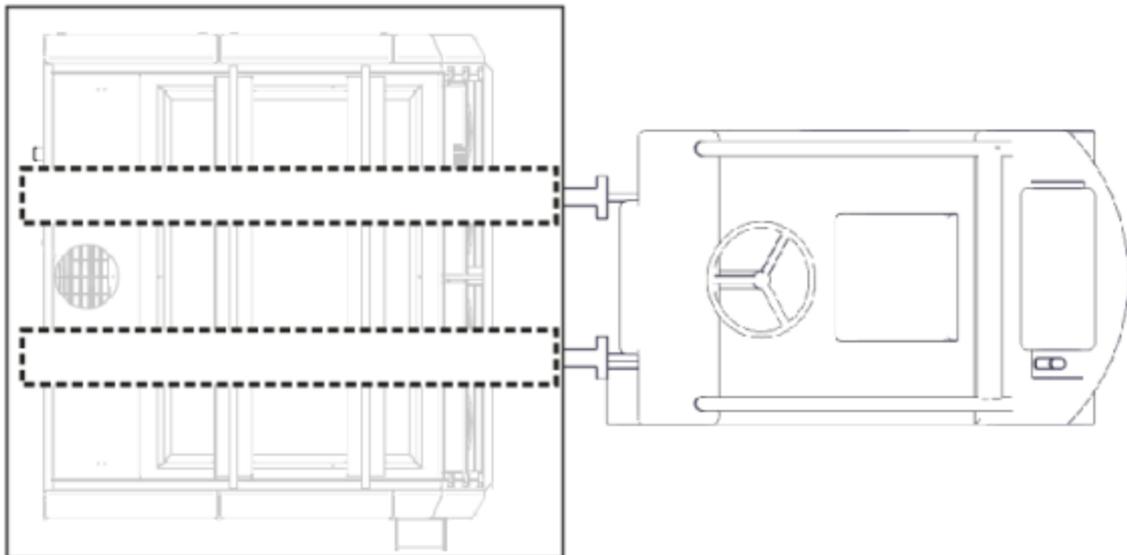


Figure 2 Forklift position



# Physical Description

Figure 3 Krumm RK1600 VA Cleaning Station



## Size and Weight

The following table shows the size and weight of the cleaning unit.

Table 2 cleaning unit size and weight

	W × H × D (cm)	W × H × D (in.)	Weight (kg/lb.)
	205.5±5 × 205.5 × 190	80.9±5 × 80.9 × 74.8	680 Kg / 1500 lb

## Model Capacity

The Krumm RK1600 VA Cleaning Station can clean models that have the following maximum dimensions:

Table 3 Maximum model dimensions

W × H × D (cm)	W × H × D (in.)
103.5 × 93 × 90	40.7 × 36.6 × 35.4

# Site Requirements

Ensure that the system is installed—

- near the printer, but at least 5 meters (16.5 feet) away from it (to avoid water damage to the printer)
- close to an area where models can be soaked in caustic soda (sodium hydroxide), and where they can dry after cleaning

The following figures show a suggested room layout, the utilities panel, drain pipe position, center of gravity, and leveling-pad position.

Figure 4 Utilities and suggested room layout

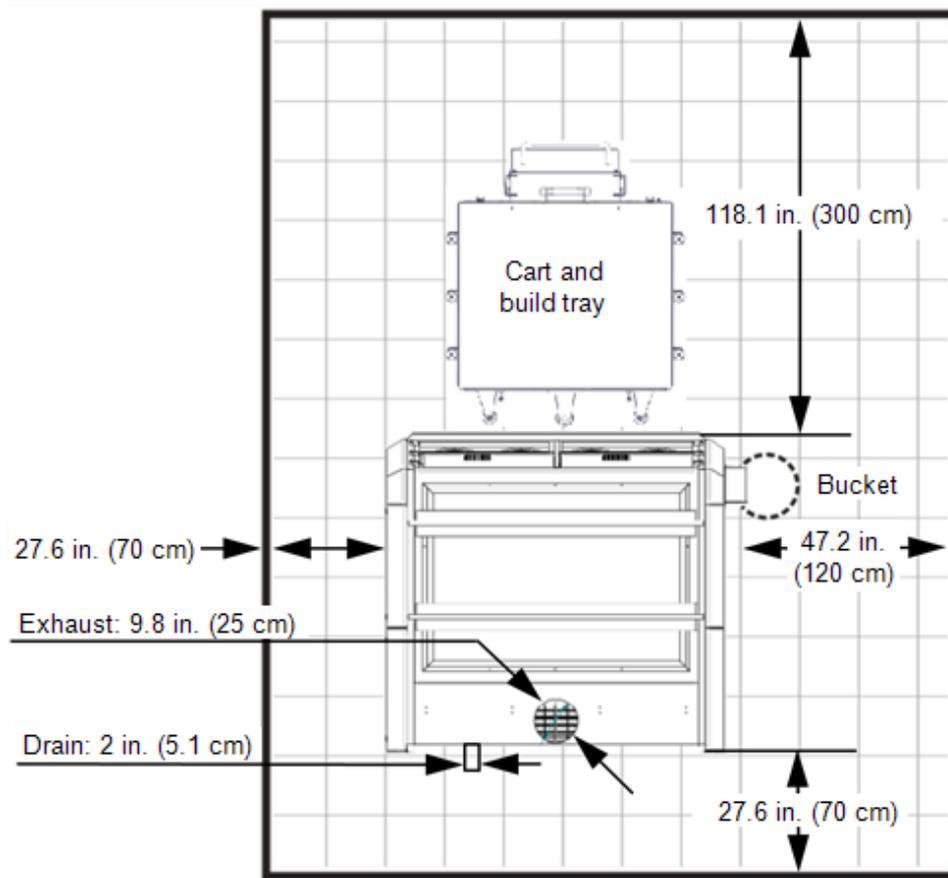


Figure 5 Utilities panel

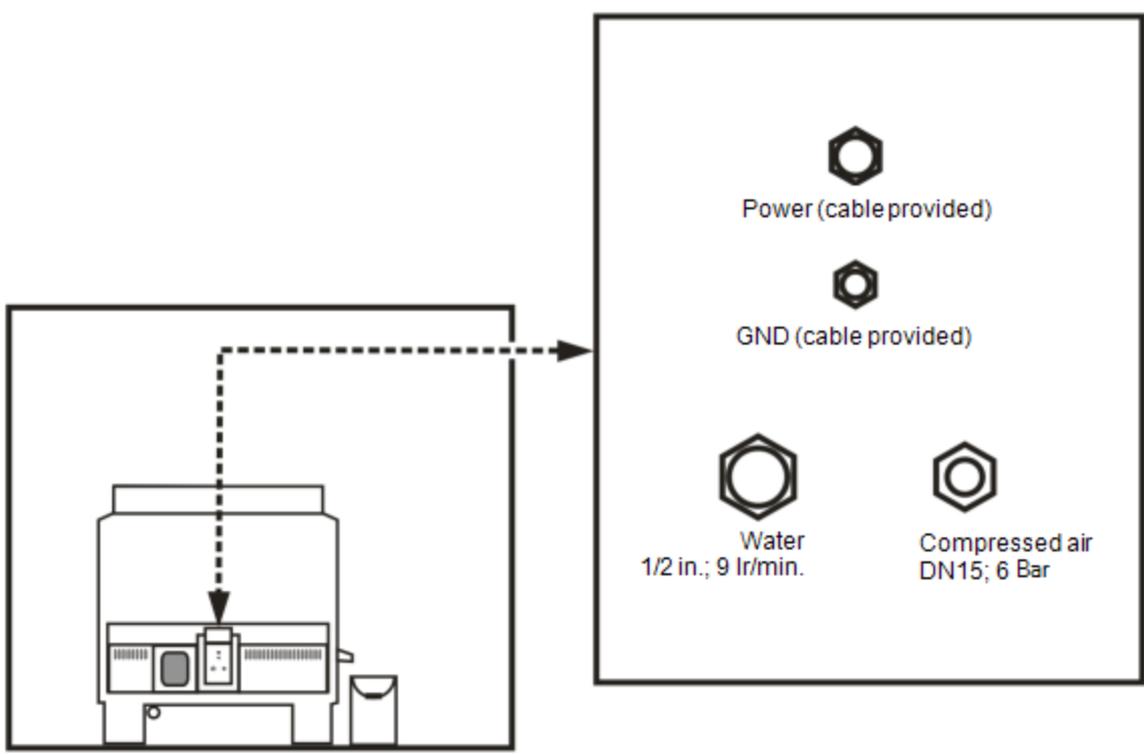


Figure 6 Drain position

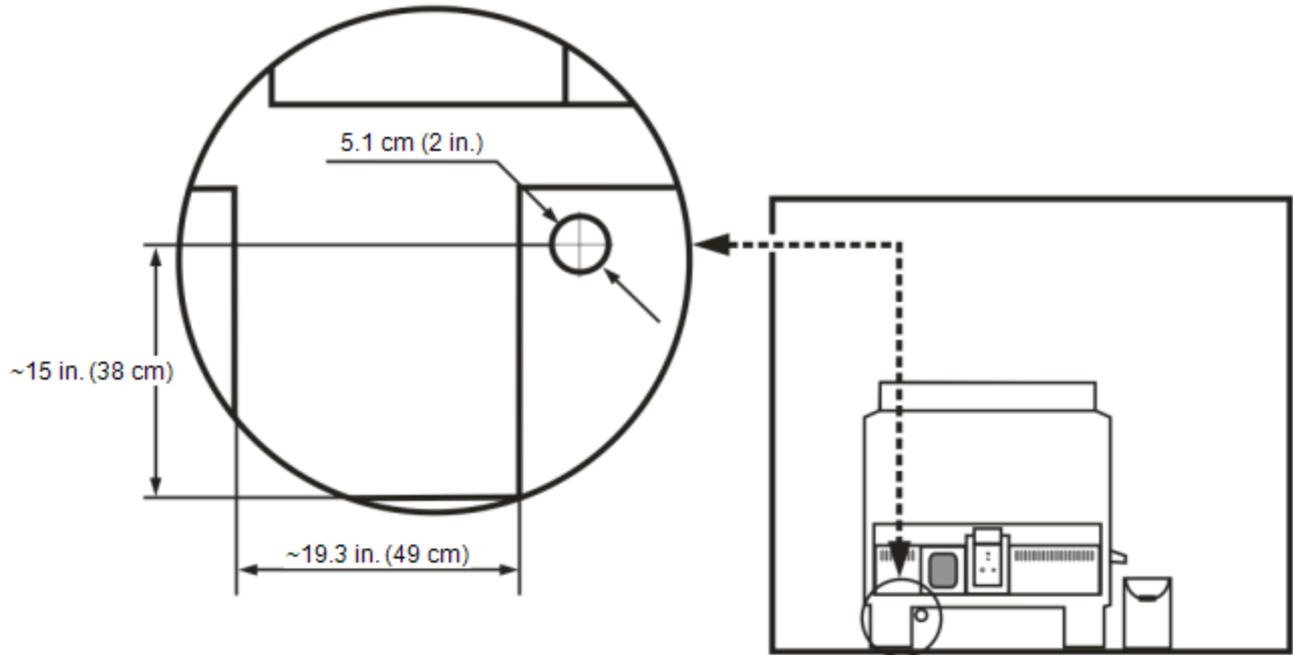
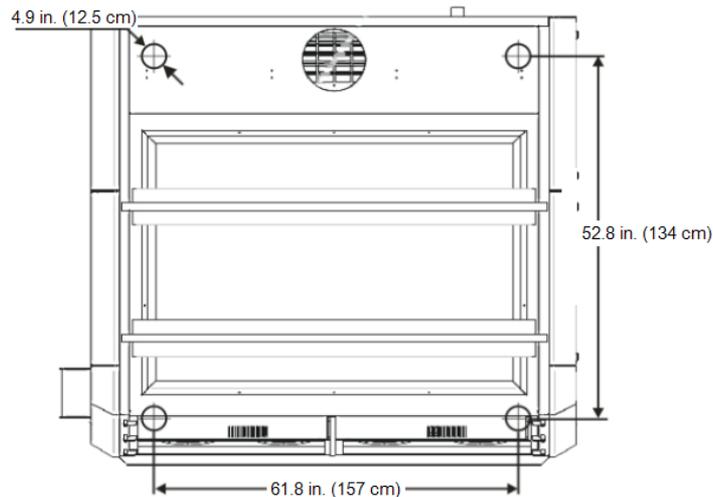


Figure 7 Leveling feet (or wheel) positions



## Water Supply

A connection to the regular water supply is required. The water tap should be located next to or behind the cleaning unit.

## Drain

The waste water from the cleaning unit typically empties into the building's drainage system. Therefore, a drain pipe must be installed near the cleaning unit.

For the drain position behind the cleaning unit, see figure [Figure 6](#).

## Floor

The floor must be level, with a maximum permissible gradient of 0.5% (5 mm per meter).

The floor around the cleaning unit should have a non-slip surface.

## Compressed Air

A DN15 compressed air outlet supplying 6 bars (87 psi) is required.

## Exhaust

A DN250 exhaust duct with a diameter of 25 cm (9.8 in) is recommended.

The air flow rate at the duct inlet is 353 cfm.

# Electrical Requirements

It is the customer’s responsibility to ensure that all tasks described in this section are carried out by qualified personnel.

## Power

- Facilities power socket  
The power socket should be in back of the unit, to reduce the chances of water spraying on the outlet. The socket must be connected to a residual current device (RCD).
- If necessary, the power connector should be replaced by one that meets local requirements.

## Circuit breaker

The electrical circuit must be protected by a circuit breaker with the following specifications.

Table 4 Circuit breaker specifications

Voltage	Circuit Breaker
220–240 VAC	16 Amps, D-type

## Ground

The system is grounded through the AC plug. Make sure that the wall outlet is grounded in accordance with local electrical codes.

## Plug

The power connector on the supplied cable is Class F /Cee7/4.

## Power Transformer

If the local power supply does not meet requirements specified in Table Table 4, a suitable power transformer is required.

## Frequency Converter

If the local power grid supplies current at 60 Hz, a frequency converter is required to convert the current to 50 Hz.

# Summary

The following table summarizes the site requirements and specifications of the cleaning unit.

Drain	Standard sink drain pipe—51 mm (2 in)
Nozzle type	Adjustable flow and jet concentration Pressure: 4–80 bar (58 psi)
Compressed air	DN15; 6 bar (87 psi)
Light	2 x 16 W, 230 VAC
Wiper	2 x 30 W, 12 VDC
Water intake	Standard water tap with hose connection— $\frac{1}{2}$ " Filter—100 microns
Operating pressure	80 bar (1160 psi)
Minimum intake water pressure	2 bar
Maximum intake water temperature	40 °C (104 °F)
Water consumption	9 l/min
Noise level	85 dB (acoustic protection required)
Rating	230 VAC, 1-Phase, 50 Hz <sup>a</sup> , 13 A
Power	2.3 kW
Operating temperature	18°–25° C (64°–77° F)
Relative humidity	30%–70%
Optional exhaust duct (supplied by customer)	Diameter—250 mm
	Required air flow at duct inlet—353 cfm

<sup>a</sup>If the local power grid supplies current at 60 Hz, a frequency converter is required to convert the current to 50 Hz.

# Site Preparation Checklist

After preparing your site for the installation of the Krumm RK1600 VA Cleaning Station, complete the customer information and the checklist below, and submit it to your Stratasys representative.

Consult with your representative if you have any questions related to site preparation and the checklist.

This form must be received and approved before installation and training are scheduled, and before Stratasys service personnel are sent to your site.

## Customer Information

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Phone No.: \_\_\_\_\_ Fax No. (optional): \_\_\_\_\_

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

Item	Completed according to specification		Notes
	Yes	No	
Positioning	<input type="checkbox"/>	<input type="checkbox"/>	
Water supply	<input type="checkbox"/>	<input type="checkbox"/>	
Drain	<input type="checkbox"/>	<input type="checkbox"/>	
Compressed air	<input type="checkbox"/>	<input type="checkbox"/>	
Electrical power supply	<input type="checkbox"/>	<input type="checkbox"/>	
Circuit breaker and RCD	<input type="checkbox"/>	<input type="checkbox"/>	
Grounding protection	<input type="checkbox"/>	<input type="checkbox"/>	
Power plug	<input type="checkbox"/>	<input type="checkbox"/>	

Customer's full name: \_\_\_\_\_

Customer's signature: \_\_\_\_\_ Date: \_\_\_\_\_



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