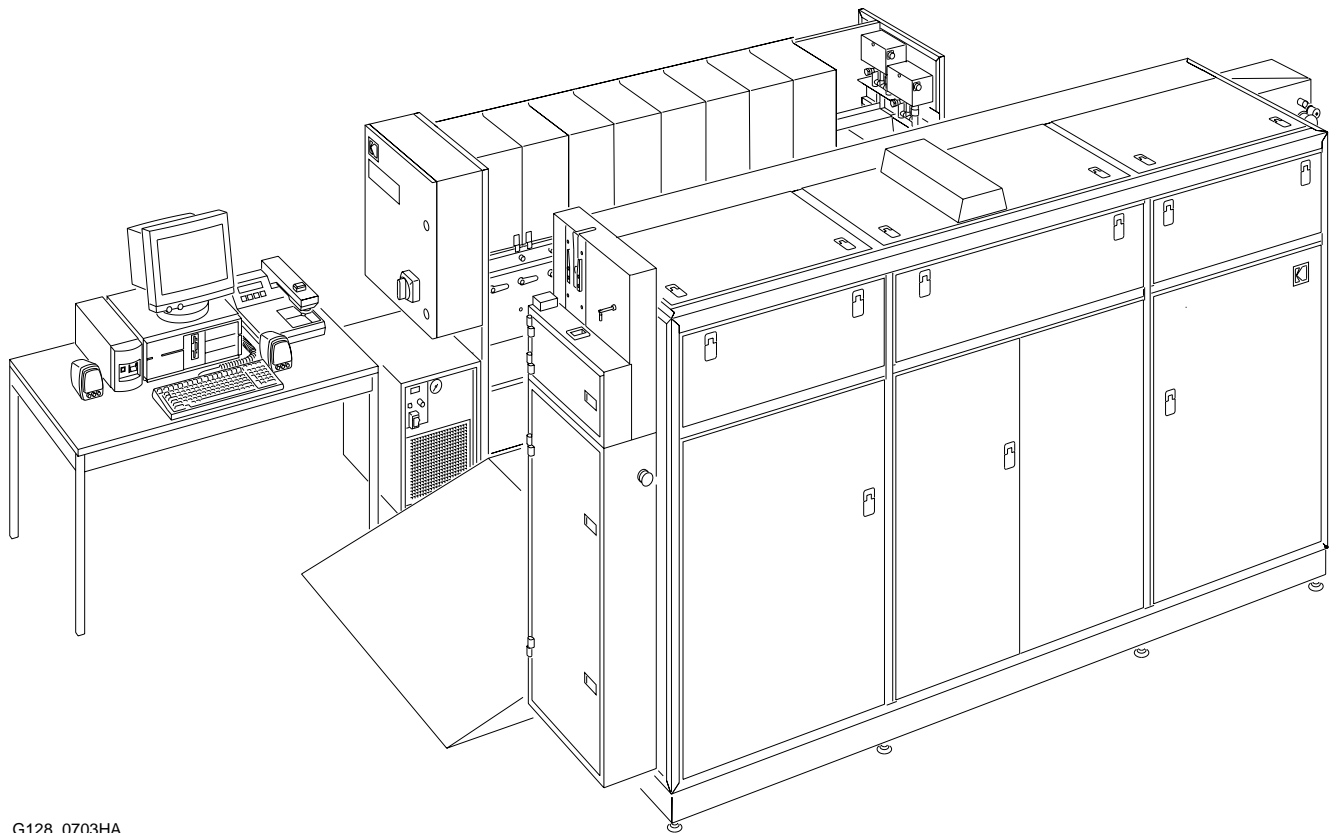


**SITE SPECIFICATIONS**  
for the  
***Kodak K-Lab* PROCESSOR**  
**Service Code: 2044**  
for  
***Kodachrome* FILM, PROCESS K-14M**



G128\_0703HA



GLOBAL CUSTOMER SERVICE AND SUPPORT

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This equipment includes parts and assemblies sensitive to damage from electrostatic discharge. Use caution to prevent damage during all service procedures.

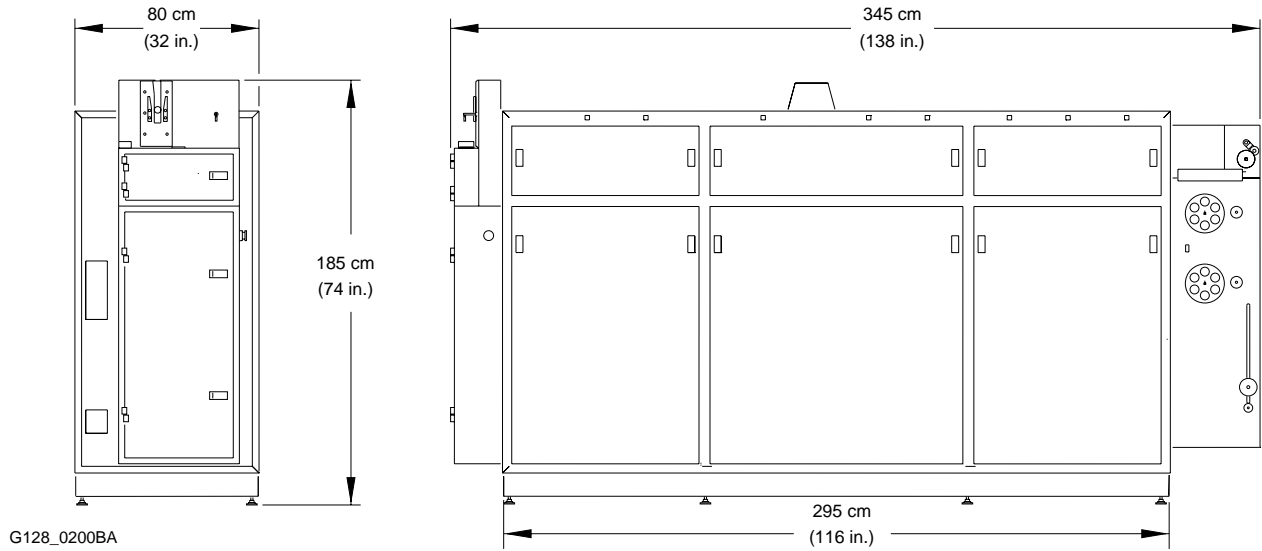
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# Section 1: Equipment Specifications

## Processor

Figure 1 Supply Side and Front

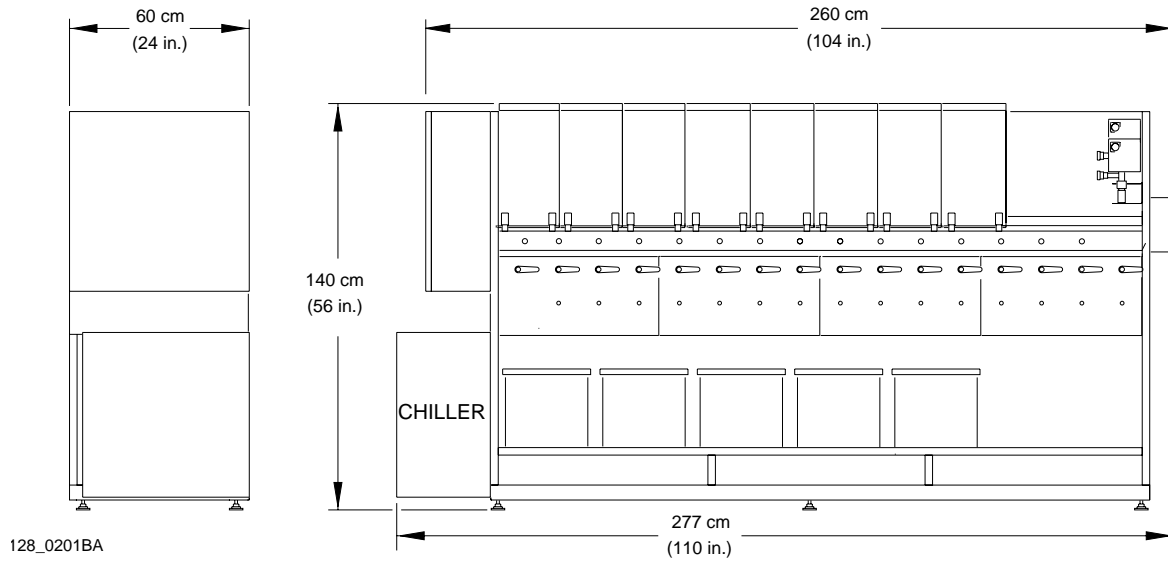


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	<b>Crated</b>	<b>Uncrated</b>
Length	365 cm (147 in.)	345 cm (138 in.)
Width	99 cm (43 in.)	80 cm (32 in.)
Height	240 cm (96 in.)	185 cm (74 in.)
Weight Without Solution	1020 kg (2250 lbs)	900 kg (2000 lbs)
Weight With Solution	N/A	1125 kg (2500 lbs)

# Replenishment Rack

Figure 2 Side and Front



	<b>Crated</b>	<b>Uncrated</b>
Length	285 cm (114 in.)	260 cm (104 in.)
Width	65 cm (26 in.)	60 cm (24 in.)
Height	155 cm (62 in.)	135 cm (54 in.)
Weight Without Solution	317 kg (700 lbs)	225 kg (500 lbs)
Weight With Solution	N/A	450 kg (1000 lbs)

# Section 2: Site Specifications

## Minimum Door Opening or Entry Clearance

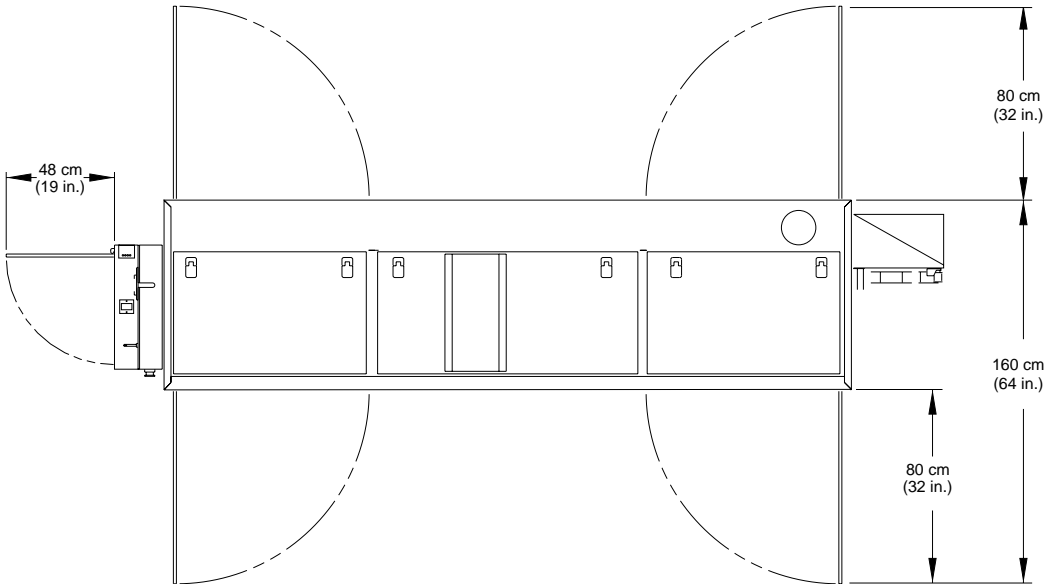
	Width	Height
Crated	110 cm (44 in.)	242.5 cm (97 in.)
Uncrated	80 cm (32 in.)	138 cm (55 in.)

## Access Requirements



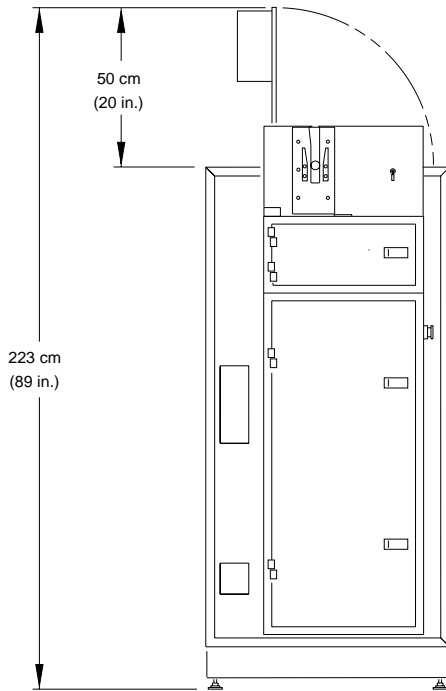
If these access requirements are not provided, service time and cost might increase.

Figure 3 Top View



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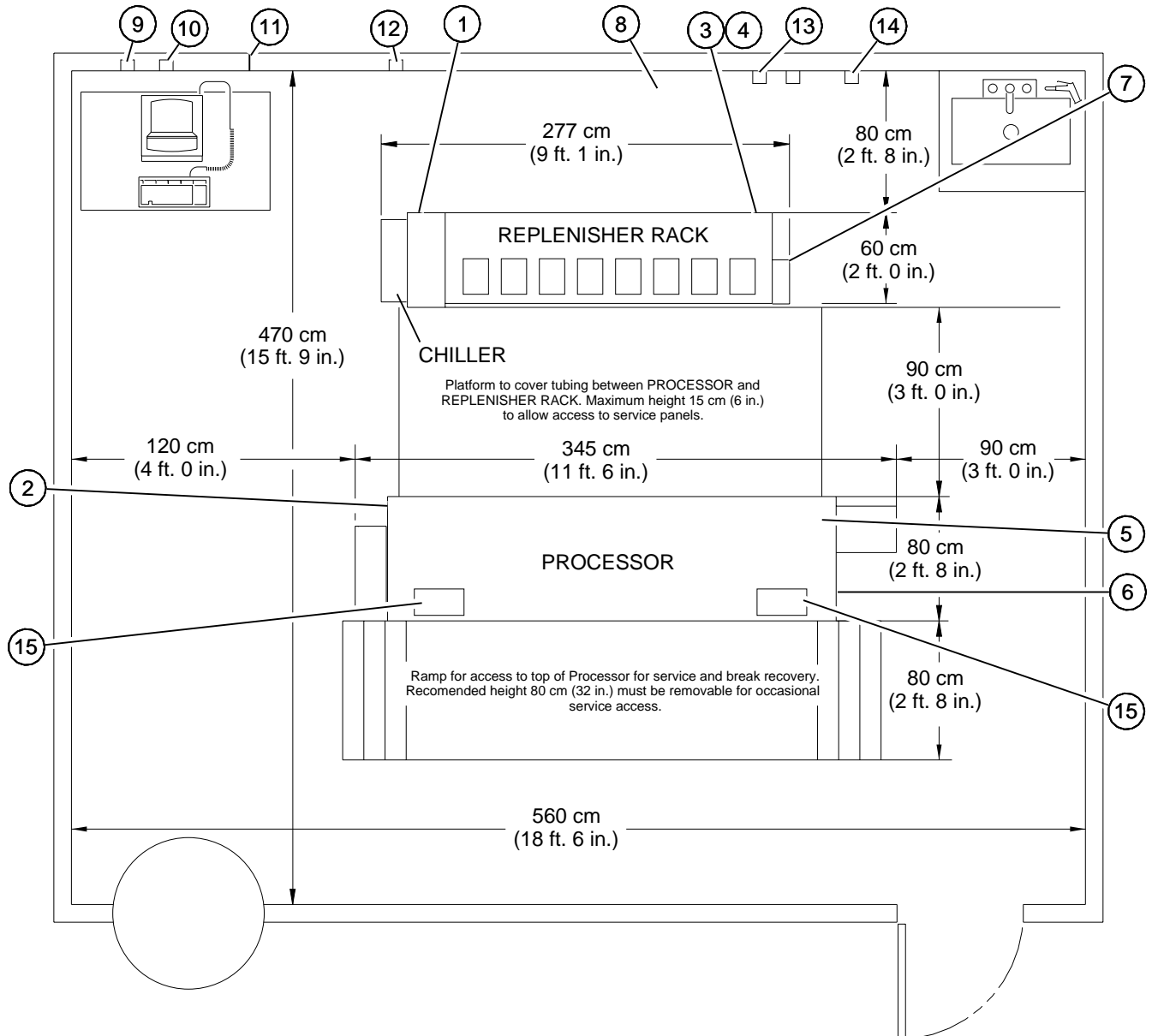
**Figure 4 Supply Side**



G128\_0203GA

	Minimum Requirements
Service access area	90 cm (36 in.) on all sides of the Processor
	77.5 cm (31 in.) in front of the Replenishment Rack
	60 cm (24 in.) in back of the Replenishment Rack
Clearance	110 cm (44 in.) above the Processor

# Room Layout



G128\_0206DCA  
G128\_0206DA

This typical room layout is to show the relative position of all connections. Other floor plans are possible. The room dimensions shown are minimum recommendations required for service access to the equipment.

1. Power entry for the Replenisher Rack
2. Power entry for the Processor
3. Water supply entry
4. Air supply entry
5. Air Vent attachment
6. Fixer Outlet for Silver Recovery
7. Power entry for the hot Water Heater
8. Floor drain
9. Switch Outlet for the Monitor and Densitometer

## SITE SPECIFICATIONS

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10. Outlet for the PC and accessories
11. Dedicated Phone Line for the Modem
12. Outlet for the chiller
13. Hot and cold water supply
14. Compressed air supply
15. Position of Emergency Overhead Leader

### Note

The Splicer is not shown. If the Splicer is to be installed in the same room as the Processor, additional room will be necessary. Power and compressed air are required for the Splicer.

## Additional Room Requirements

- The room must be light tight.
- A Darkroom Door, such as a Revolving Door, to provide access to the room during dark conditions is required to enable access during emergency break procedures.
- The maximum length of the Replenisher Lines from the Processor to the Replenisher Rack is 15 m (50 ft).
- The maximum Cable length from the main Computer to the Processor and from the Processor to the Replenisher Rack, provided, including all Ceiling Drops is 13 m (45 ft).
- Overhead Reels for Emergency Leader must be suspended from the Ceiling near the entrance and exit of the Processor.
- IR Lamps must be mounted from the Ceiling for use with IR Goggles.
- Once the equipment is in place, a Ramp must be installed over the Replenisher Tubing and air and drain lines between the Processor and Replenisher Rack. Access to service Panels must be maintained.
- A movable Ramp to provide fast, safe access to the front and top of the Processor must be provided. The Ramp must be movable for service access.
- A table to support a PC, Monitor and Densitometer is required.

## Installation Requirements

- It is recommended that professional Riggers move the equipment from the Truck to the permanent location. Kodak is not responsible for unloading the Truck or moving the equipment.
- The Processor and Replenisher Rack are shipped on Pallets. Equipment such as heavy duty Dollies to unload the Pallets and remove the equipment from the Pallets is required.
- Entrances, hallways, and doorways must be wide enough and high enough to accommodate the Processor and moving equipment. The height of the Dollies must be added to the equipment height.
- Once in position, equipment to raise the Processor onto 10 cm (4 in.) Blocks is necessary.



## Electrical Specifications

### Operating Service Options



#### Warning

Earth ground is required.

Subject	Voltage	Frequency	Amps	Service
Processor *	208/120	50/60 Hz	40	3-phase, 4-wire + ground
Replenisher Rack	120	50/60 Hz	20	1-phase, 2-wire + ground
Chiller	120	50/60 Hz	20	1-phase, 2-wire + ground
Hot Water Heater	208/240	50/60 Hz	35/40	1-phase, 2-wire + ground
Splicer	120/240	50/60 Hz	5	1-phase, 2-wire + ground
Main Computer Control **	120/240	50/60 Hz	10	1-phase, 2-wire + ground
Mixing Station (near Processor)	120	50/60 Hz	5	1-phase, 2 wire + ground
Photometer	120	50/60 Hz	1	1-phase, 2 wire + ground

All electrical Conduits installed along the floor must be PVC or similar non-corrosive material.

\* Input power must be 208 V 3-phase WYE configuration with 208 V phase-to-phase and 120 V each phase-to-neutral. Delta configuration is not compatible. The customer must install an Isolation Transformer if power is not within specification.

\*\* A minimum of 5 Receptacles is required. One for the UPS, which in turn is used to power the Computer Base. A separate Outlet controlled by a Wall Switch located next to the room light Wall Switch is recommended for the Monitor and Densitometer. Additional Outlets are necessary for the Photometer, PC Speakers and Mixing Station.

### Ground Requirements

- The electrical services, including the earth ground, must comply with local, state, and national electrical codes and are the responsibility of the customer.
- The earth ground-to-building ground impedance should be 0 - 4  $\Omega$ .
- The earth ground-to-neutral wire impedance should be less than 4  $\Omega$ .

### Power Disconnect Switch

The Power Disconnect Switch must be:

- located on a wall adjacent to the Processor and Replenisher Rack, a maximum of 2.1 m (7 ft) away
- visible and easily accessible from the Processor
- a safe distance from water
- capable of lock out

### Phone Line

A dedicated Phone line for the Modem is required.

# Plumbing Specifications



**Warning**

All plumbing must comply with local and national codes.

Subject	Requirements	
Drains	<b>Warning</b> All drains must be made of chemical resistant, non-corrosive material. Use PVC or equivalent.	
	Height	Drain must be level with the floor.
	Diameter	<ul style="list-style-type: none"> <li>• Minimum 75 mm (3 in.)</li> <li>• Must accommodate 1-40 mm (1 1/2 in.) and 3-20 mm (3/4 in.) flexible drain lines from the Processor and 1-20 mm (3/4 in.) flexible drain lines from the Replenisher Rack</li> </ul>
	Capacity	15 L/min (4 gal/min).
	Distance	Maximum 1 m (42 in.) recommended from either end of the Processor.
	Air Gap	An air gap must be present between the flexible TUBING and the drain. Do not make solid connections between the HOSES and the drain.
	Tubing	Reinforced flexible Tubing is recommended.
	Fixer	Separate 20 mm (3/4 in.) flexible drain line is provided for the Fixer.
	Note: Additional back flow protection might be required to meet local codes.	
Water Supply	Location	Hot and cold water shut-offs should be easily accessible from the Replenisher Rack.
	Volume	Minimum of 15 l/min (4 gal/min).
	Pressure	Minimum of 3.5 Bar (50 psi).
	Cold Water Temperature	Maximum is 27° C (80° F).
	Hot Water Temperature	Minimum is 43° C (110° F).
	Auxiliary Heater	The Heater can provide a maximum temperature rise of 18° C (32° F) @ 240V/40A or 13° C (24° F) @ 208 V/35A for a flow rate of 7.5 l/min (2 gal/min).
	Filtration	Separate 50 micron Filters for the hot and cold water supply should be installed in front of the Replenisher Rack.
Air Supply	The air must be dry, filtered and oil free.	
	Pressure	5.5 Bar (80 psi)
	Volume	7.2 l/sec (15 cfm)

## Heating, Ventilation, and Air Conditioning Specifications

Subject	Requirements	
Room	Temperature	15 - 26° C (59 - 80° F)
	Relative Humidity	15 - 76%
	Ventilation	10 - 15 room air exchanges per hour
	Altitude	7,000 ft maximum
Building Exhaust System	Must be able to turn off the exhaust when the Processor is in “sleep” or “power off” mode for extended periods. The system must have the following rating:	
	Volume -- full load	360 CFM 10 cubic meters/min.
	Heat load-to-room	20,000 BTU/hr
	Exhaust Duct from the Processor	Diameter -90 cm (6 in.) Use Air Meter TL-2431 to measure the building exhaust for negative pressure.



# Section 3: Checklist

Complete this Checklist and the Form on Page 15 and FAX them to Kodak Service and Support by the end of the business day before the scheduled equipment installation date.

**Customer Site:**

- \_\_\_\_\_ Proper equipment is available to unload the truck and remove the Processor and Replenisher Rack from the Pallets.
- \_\_\_\_\_ Proper equipment is available to move the Processor and Replenisher Rack to the installation site.
- \_\_\_\_\_ Proper equipment is available to position the Processor on 10 cm (4 in.) Blocks.
- \_\_\_\_\_ All hallways and doors will accommodate the Processor and Replenisher Rack with moving equipment.
- \_\_\_\_\_ All consumable items such as Chemicals, Filters, Leader, Splice Tape, Test Film etc. are on site.
- \_\_\_\_\_ The Source Two Splicer is on site and installation has been scheduled to coincide with the Processor installation.

**Environment:**

- \_\_\_\_\_ The room is of adequate size to accommodate the Processor and provide adequate service access.
- \_\_\_\_\_ The distance between the Main Computer, Processor and Replenisher Rack will not exceed the maximum length for the Communication Cable and Replenisher Lines.
- \_\_\_\_\_ All utility drops are properly located.
- \_\_\_\_\_ Ramps to cover utility and Replenisher Lines and to provide operator access to the front of the Processor will be ready for installation.
- \_\_\_\_\_ A revolving door provides access to the room during emergency procedures.
- \_\_\_\_\_ Overhead emergency leader has been installed.
- \_\_\_\_\_ Adequate ventilation is provided to meet temperature and humidity requirements.
- \_\_\_\_\_ An exhaust is provided to vent the Processor during operation.

**Electrical:**

- \_\_\_\_\_ All input power complies with electrical requirements and with all applicable codes.
- \_\_\_\_\_ A switched receptacle is provided for the Monitor and Densitometer.
- \_\_\_\_\_ Adequate room light is provided.
- \_\_\_\_\_ IR lighting is provided for IR Goggles, when used.
- \_\_\_\_\_ A dedicated phone line is installed.

**Plumbing:**

- \_\_\_\_\_ Supply water meets requirements for volume, pressure and temperature.
- \_\_\_\_\_ The Drain meets requirements. The Drain opening is level with the floor.
- \_\_\_\_\_ Clean, dry, oil-free compressed air is provided and meets volume and pressure requirements.
- \_\_\_\_\_ Shut-offs are provided for water and compressed air supply.



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## Section 4: Form

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**Important**

Complete this Form and the Checklist on Page 13 and FAX them to Kodak Service and Support by the end of the business day before the scheduled equipment installation date.

Customer Name: \_\_\_\_\_

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

City and State: \_\_\_\_\_

Contact: \_\_\_\_\_

Scheduled Installation Date: \_\_\_\_\_

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

Name (print): \_\_\_\_\_ Title: \_\_\_\_\_

After the checklist is complete, call Kodak TAC at 1-800-822-1414. Make a reference to *Kodak K-Lab Processor*, the TAC Operator will provide you with a current FAX number.

Thank You.

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