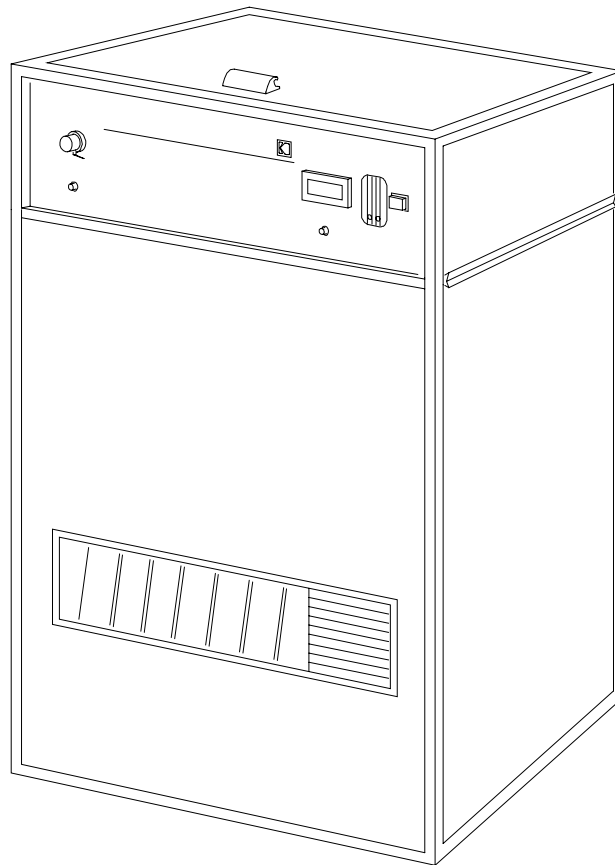


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635883, April 1988

# SITE SPECIFICATIONS

## for the *Kodak RP X-Omat* Processor, Model M6B



H048\_0086DA



CUSTOMER EQUIPMENT SERVICES DIVISION

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**Warning**

To avoid hazardous conditions, keep floors and floor coverings around your *Kodak X-Omat* Processor and associated drains clean and dry at all times. Any accumulation of fluids from mixing tanks, drain lines, etc., should be cleaned up immediately. In the event of an accumulation of the liquid due to backup, overflow, or other malfunction of the drain associated with your *Kodak X-Omat* Processor, call a plumber or other contractor to correct any problem with your drain. Kodak accepts no responsibility or liability whatsoever for the serviceability of any drain connected to or associated with a *Kodak X-Omat* Processor. Such drains are the sole responsibility of the customer.



**ESD**

Possible damage from electrostatic discharge.

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# Table of Contents

<b>Description</b>	<b>Page</b>
Introduction .....	4
Dimensions and Weights .....	5
Electrical Requirements .....	6
Basic Requirements .....	6
Standard Service Options .....	6
Water and Drain Requirements .....	7
Water Supply .....	7
Drain .....	7
Environmental Requirements .....	8
Room Ambient Temperature .....	8
Air and Heat .....	8
Diagrams .....	10
Center of Gravity .....	20

## Introduction

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This publication is part of a series of instruction books that provides technical support information on the KODAK RP X-OMAT Processor, Model M6B. For the ease of referencing and reordering the other publications, the following tables provide the part numbers for each of the publications.

<b>Publications for M6B Processors - Serial Numbers 15,000 and Above</b>						
	<b>Complete Binder</b>	<b>Operator Manual</b>	<b>Site Specs</b>	<b>Installation Instructions</b>	<b>Service Manual</b>	<b>Parts List</b>
Publication Part No.	246630	1C7061	1C7070	246626	246628	246629

<b>Publications for M6B Processors - Serial Numbers 10,000 to 14,999</b>						
	<b>Complete Binder</b>	<b>Operator Manual</b>	<b>Site Specs</b>	<b>Installation Instructions</b>	<b>Service Manual</b>	<b>Parts List</b>
Publication Part No.	635881	1C7061	1C7070	635884	635885	635882

<b>Publications for M6B Processors - Serial Numbers Below 10,000</b>						
	<b>Complete Binder</b>	<b>Operator Manual</b>	<b>Site Specs</b>	<b>Installation Instructions</b>	<b>Service Manual</b>	<b>Parts List</b>
Publication Part No.	Not Available	1C7061	1C7070	635812	635828	635860

It is recommended that these publications be kept in the binder provided. If an individual document gets misplaced or destroyed, reorder a copy from your Eastman Kodak Representative.

# Dimensions and Weights

**Table 1 Dimensions and Weight of the Processor**

<b>Description</b>	<b>Crated</b>	<b>Uncrated</b>
Length	71.1 cm (28 in.)	63.5 cm (25 in.) Without feed tray (Includes knobs and fittings.) 97.8 cm (38.5 in.) With feed tray (Includes dryer knob.)
Width	90.2 cm (35.5 in.)	76.2 cm (30 in.)
Height	152.4 cm (60 in.)	123.2 cm (48.5 in.)
Weight (Tanks Empty)	223.2 kg (492 lb)	201 kg (442 lb)
Weight (Tanks Full)	Not Applicable	235 kg (519 lb)
Approximate Solution Height from the Base of the Processor	Not Applicable	107.2 cm (42.5 in.)

**Table 2 Maintenance and Operation  
Access Requirements**

<b>Description</b>	<b>Recommendation</b>
Dryer End of Processor	91.4 cm (36 in.)
Feed End of Processor	91.4 cm (36 in.)
Drive Side of Processor	91.4 cm (36 in.)
Non-Drive Side of Processor	91.4 cm (36 in.)
Top of Processor	91.4 cm (36 in.)

# Electrical Requirements

## Basic Requirements



### Important

All electrical services, **including earth ground**, must comply with local and national electrical codes.

- 30 A, single-phase, 208/220, 3-wire, earth ground required.
- Main Power Disconnect (wall-mounted, not furnished)

The main power disconnect switch must consist of a minimum 2-pole thermo-magnetic circuit breaker with solid neutral and common trip, or a fused disconnect switch. This switch must be:

- located on a wall adjacent to the processor in the lighted area
- easily accessible from the processor site
- visible from the processor site.

## Standard Service Options



### Important

All electrical services, **including earth ground**, must comply with local and national electrical codes.

**Table 3 Service Options**

Voltage	Frequency	Service
Volts	Hz	
100/200	50/60	Single-phase, 3-wire
120/208	60	Three-phase*, 3-wire, Wye
120/240	60	Single-phase, 3-wire
127/220	50	Three-phase*, 3-wire, Wye
220/380	50	Three-phase*, 3-wire, Wye
240/415	50	Three-phase*, 3-wire, Wye
220	50/60	Single-phase, 2-wire
240	50/60	Single-phase, 2-wire

\*L1, L2, and Neutral used in this configuration are sometimes referred to as Single-Phase connections.

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# Water and Drain Requirements

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## Water Supply

- a. Processor Supply
  1. Temperature: 4 to 29.4C (40° to 85°F)
  2. Pressure: 172.35 to 448.11 kPa (25 to 65 psi). Install regulator if required.
  3. Volume: Controlled within the processor to 5.7 L/min (1.5 gal/min).
  4. Filtration: A 50-micron filter is required, but it is not supplied with the processor.
- b. Water service must comply with local codes.
- c. Tempered water service is suggested for processor cleaning and for mixing chemicals manually.
- d. A molded adapter and washer are provided to adapt the processor garden hose fitting to the 1/2 in. NPT (male).

 **Note**

If the upper limit of the room ambient or the water supply temperature to the processor is exceeded, the developer temperature may not be controlled correctly. A water chiller may be required.

## Drain



**Warning**

- Drains must be made of chemically resistant, non-corrosive material. Use PVC or the equivalent.
- The drain must have a minimum diameter of 7.6 cm (3 in.) and be free of obstruction.
- Drain service must comply with all local codes.
- Locate the drain within 1.5 m (60 in.) of the processor.
- The drain line should slope gradually downward to the floor drain.

**Capacity:** 15 L/min (4 gal/min).

**Connection:** Open drain; avoid solid connection.

# Environmental Requirements

## Room Ambient Temperature

- Temperature: 15° to 30°C (59° to 86°F)
- Humidity: 15% to 76%

 **Note**

If the upper limit of the room ambient or the water supply temperature to the processor is exceeded, the developer temperature may not be controlled correctly. A water chiller may be required.

## Air and Heat

- a. Air Exhaust (full load)
  1. Volume: 1.9 m<sup>3</sup>/min (65 ft<sup>3</sup>/min)
  2. Temperature: 66°C (150°F) maximum
  3. Moisture > 300 gr/min or 121 gr/kg (55 gr/lb) of air
- b. Heat load to room: 4220 kJ/hr (4000 Btu/hr)

**To protect the processor and equipment directly interfaced with the processor, the dryer must be vented according to the following specifications. Failure to properly vent the dryer exhaust can cause corrosion within the processor and interfaced equipment. In addition, the probability of processor-related film artifacts is increased.**

1. The processor exhaust duct must be connected to the building exhaust ducting system. Disposal of effluent air must comply with prevailing environmental codes.
2. The following table should be used to determine the proper amount of negative air within the duct at the end to be connected to the processor. To prevent venturi effect at the duct opening, all measurements should be made at a point 30.5 cm (12 in.) from the open end of the duct to be attached to the processor.

Compare the average reading with the table below.

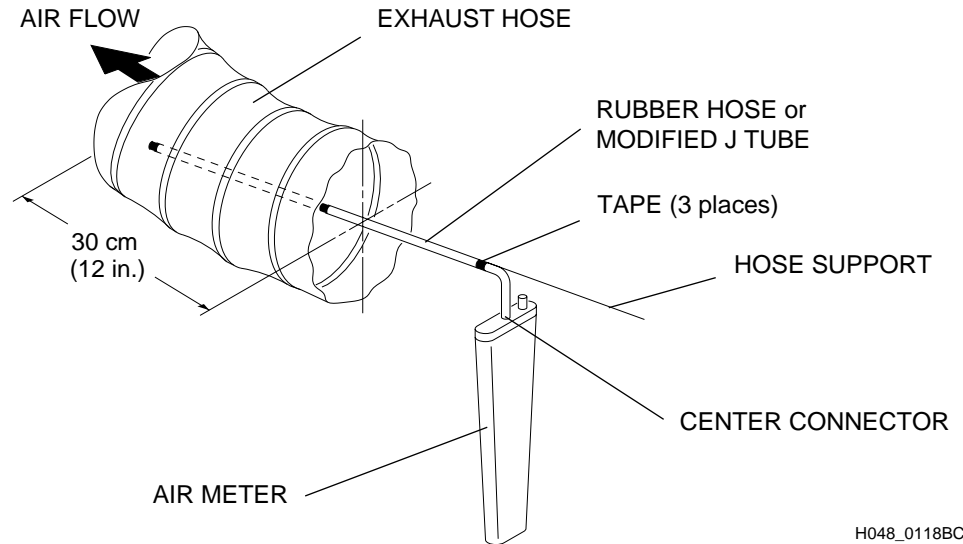
**Table 4 Static Pressures**

Duct Diameter	Negative Static Pressure, (Water Head)	
	MIN	MAX
76 mm (3 in.)	0.76 mm (0.03 in.)	1.02 mm (0.04 in.)
102 mm (4 in.)	0.25 mm (0.01 in.)	0.51 mm (0.02 in.)



- Measurement can be made using an Air Meter, available through Service Parts Management as TL-2431. Measurement of negative air within flexible duct hoses will be simplified with the use of a modified Chemical Replenisher Check Tube P/N 592380, cut to a 30.5 cm (12 in.) straight line length, and connected to the rubber hose supplied with the Air Meter. An alternative is to use a hose support made from a straight piece of wire, such as a coat hanger, and tape the rubber hose to it.

Figure 1 **Measuring Negative Static Pressure**



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H048\_0118BA

- If solid metal or rigid plastic ducting is attached to the processor in a manner which would prevent easy removal, a small hole may be created at a point approximately 30.5 cm (12 in.) from the processor vent connection. The “L” shaped metal tube provided with the Air Meter can then be inserted through the opening. When measuring negative air, the tube tip opening should be pointed in the direction of airflow away from the processor.



### Important

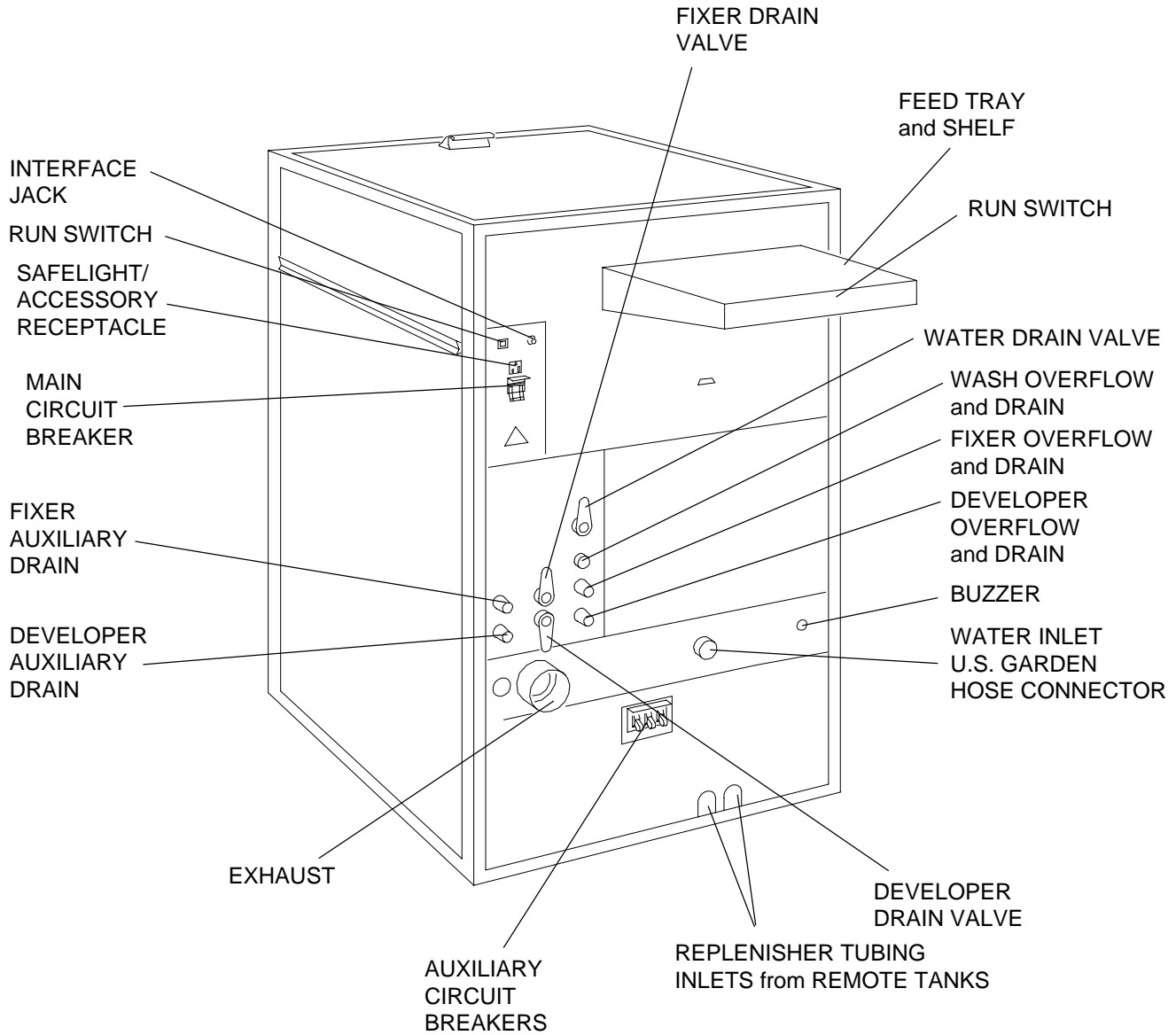
The processor must be turned off when making air measurements. The Air Meter should be held in the vertical position to assure the greatest accuracy. The meter tubing must not be kinked.

- It is most important that negative airflow in the processor exhaust duct remains constant when the processor is in the run, standby, and shut-down modes.

When processors are installed in darkroom wall openings, it is most important that darkroom air pressure exceeds the air pressure of the area surrounding the darkroom. This is intended to prevent air cascading through the processor into the darkroom area. Proper balancing of dark/lighted room air in addition to correct dryer venting will not only maximize containment of chemical fumes and vapors within the processor and its dryer exhausting system, but the incidence of film artifacts occurring in the out-of-solution transport roller sections will be greatly reduced.

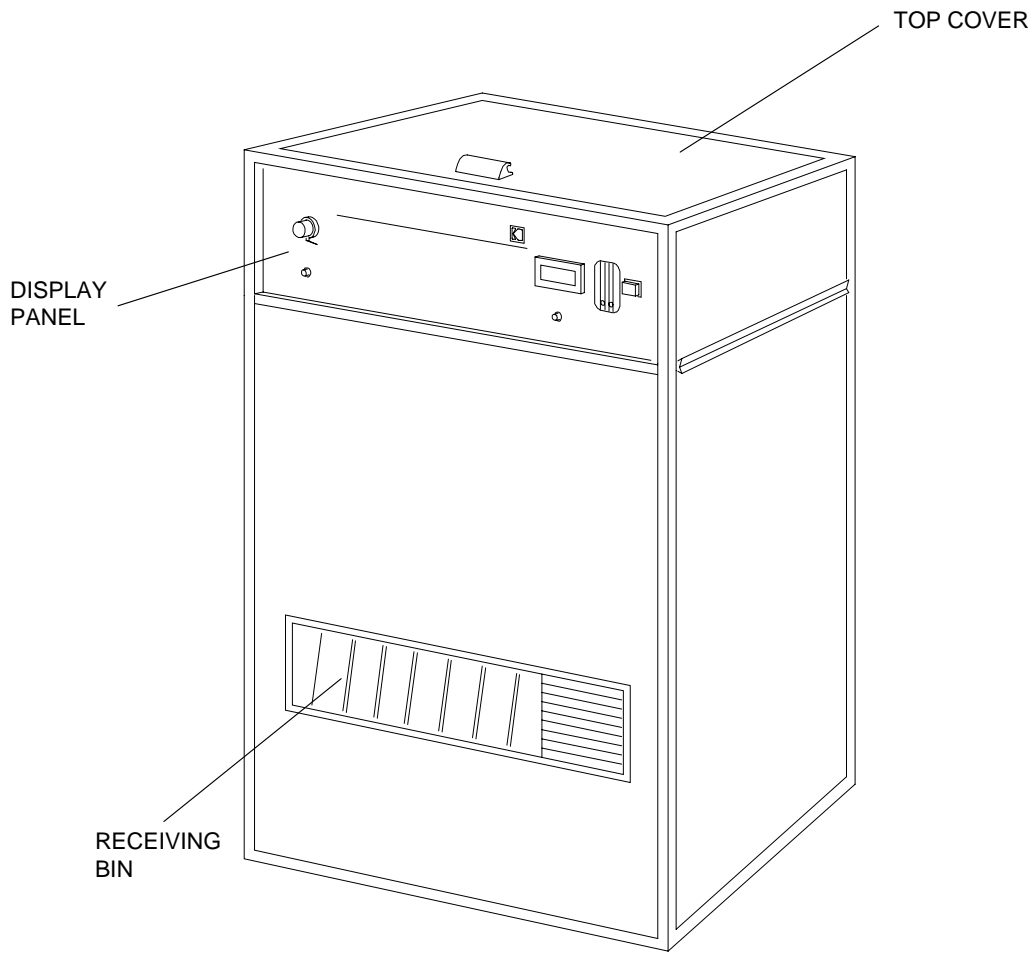
# Diagrams

Figure 2 Feed-End View of the Processor



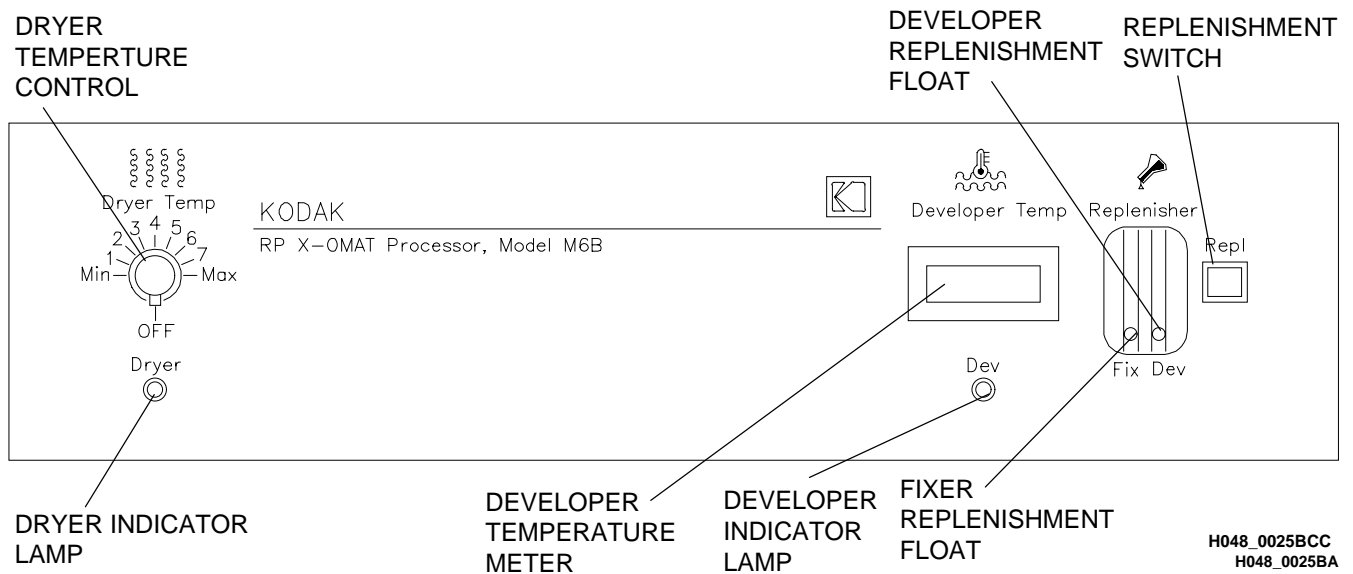
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Figure 3 **Receiving-End View of the Processor**



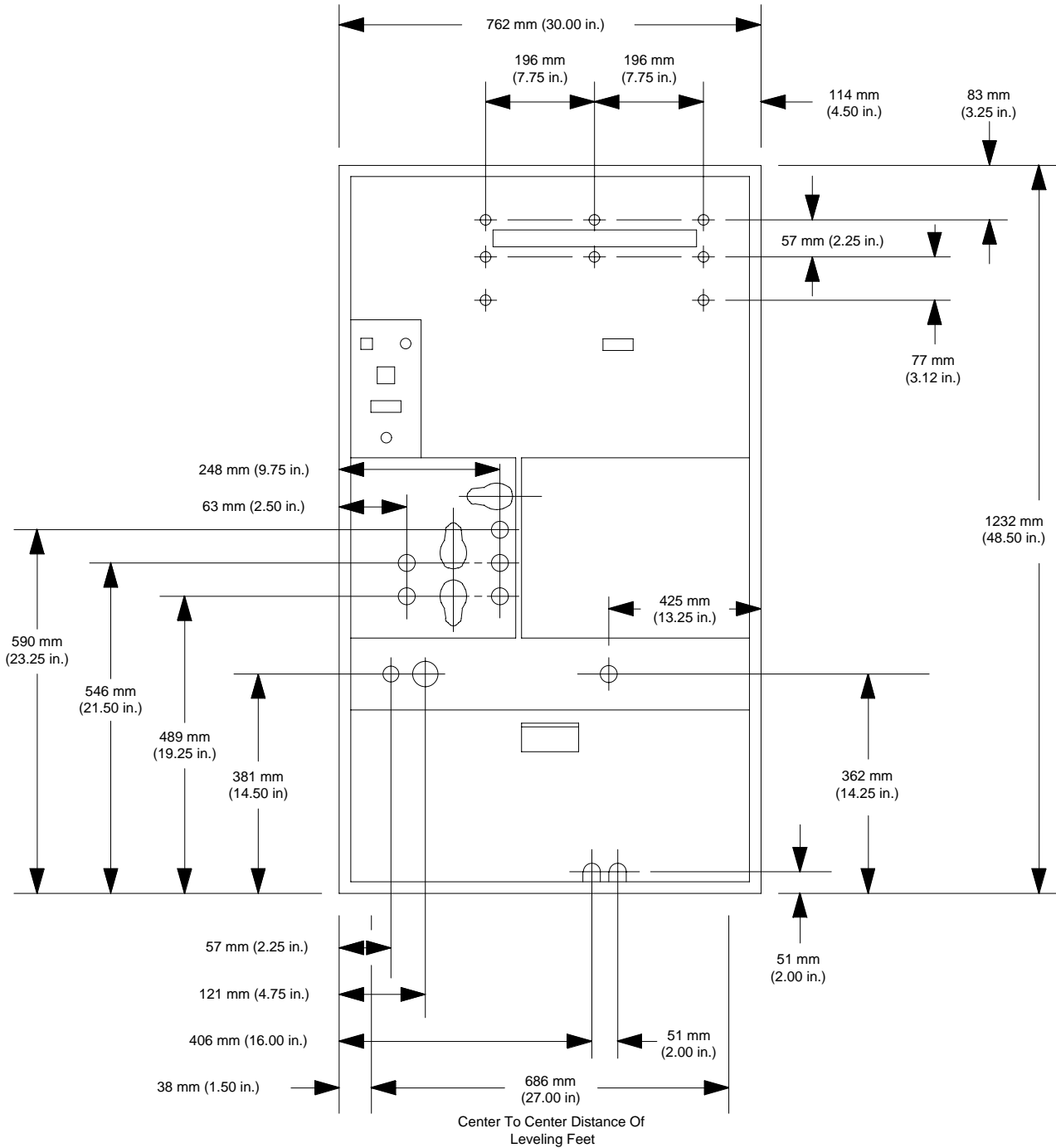
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Figure 4 **Display Panel on Receiving-End of the Processor**



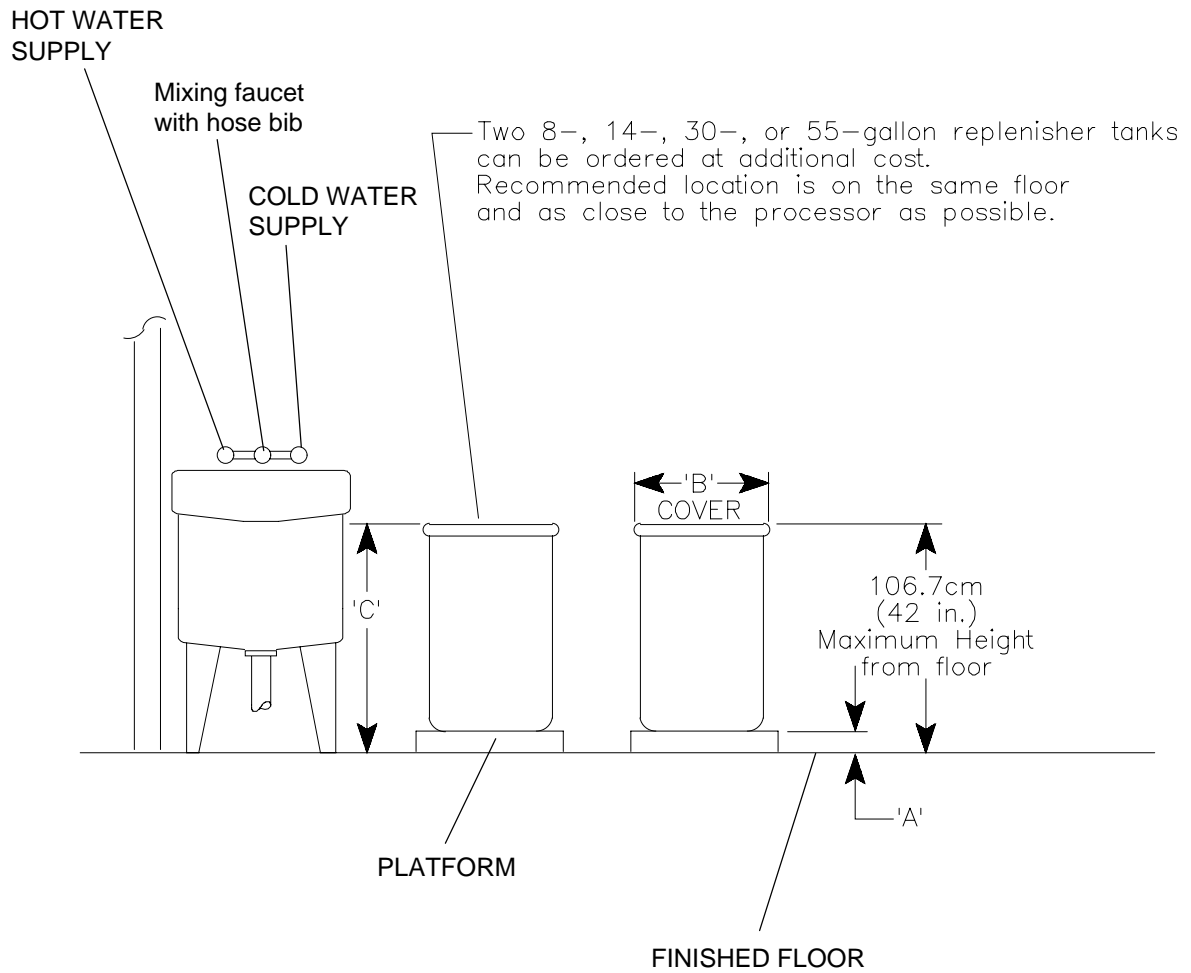
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Figure 5 Feed-End Dimensions of the Processor



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Figure 6 Replenisher Tanks

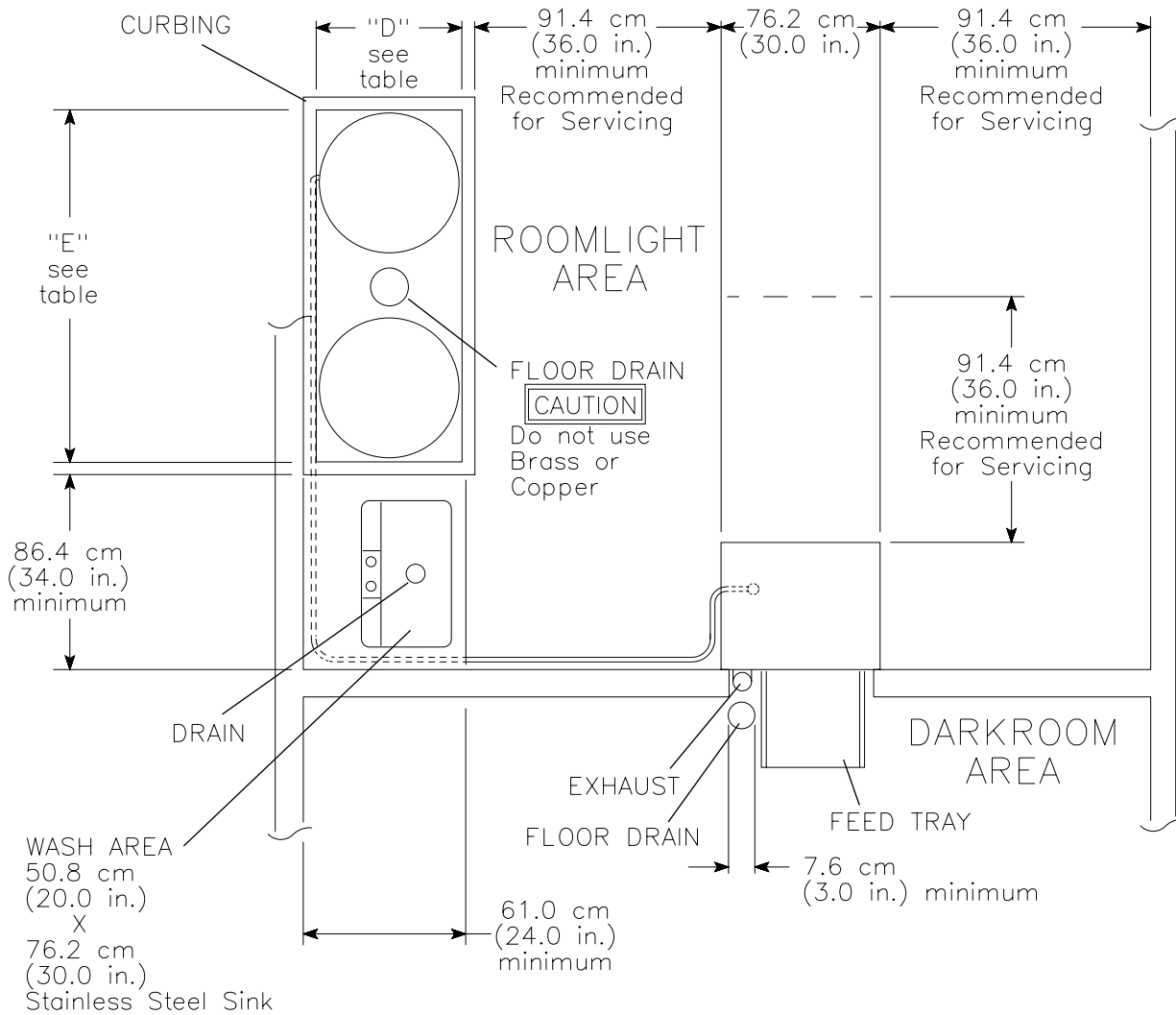


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Table 5 Dimensions for Replenisher Tanks

DESCRIPTION	DIMENSION	14 GAL	30 GAL	55 GAL
Max Platform Height	"A" Fig. 6	48.3 cm (19 in.)	35.6 cm (14 in.)	15.2 cm (6 in.)
Tank Diameter	"B" Fig. 6	43.2 cm (17 in.)	55.9 cm (22 in.)	61.0 cm (24 in.)
Tank Height	"C" Fig. 6	58.4 cm (23 in.)	70.5 cm (27.75 in.)	90.8 cm (35.75 in.)
External Replenishment Tank Area	"D" x "E" (MIN) Fig. 7	61.0 X 127.0 cm (24 X 50 in.)	61.0 x 152.4 cm (24 x 60 in.)	66.0 x 172.7 cm (26 x 68 in.)

**Figure 7 Suggested Room Layout and Drain Locations**

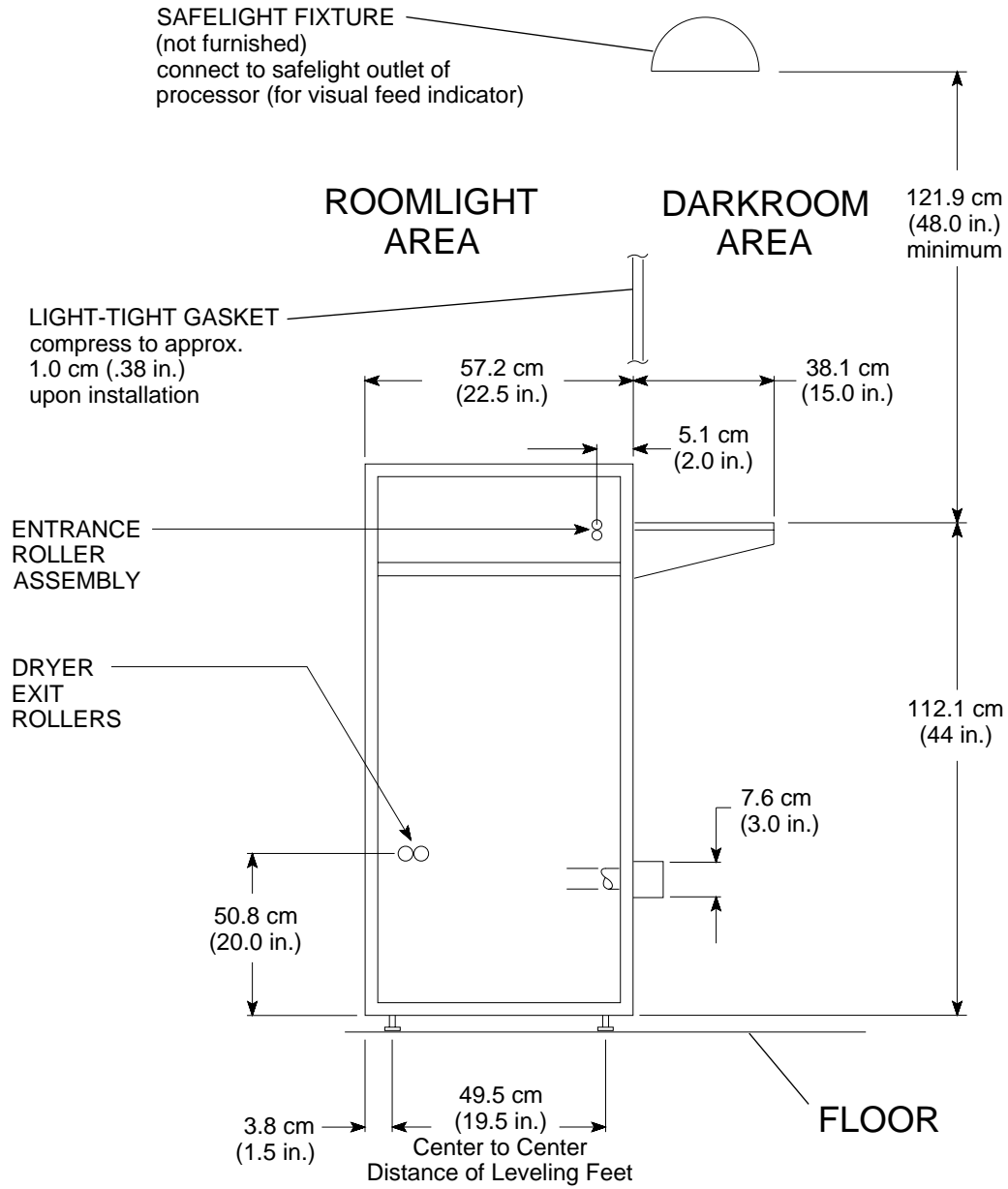


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**Table 6 Maintenance and Operation Access Requirements**

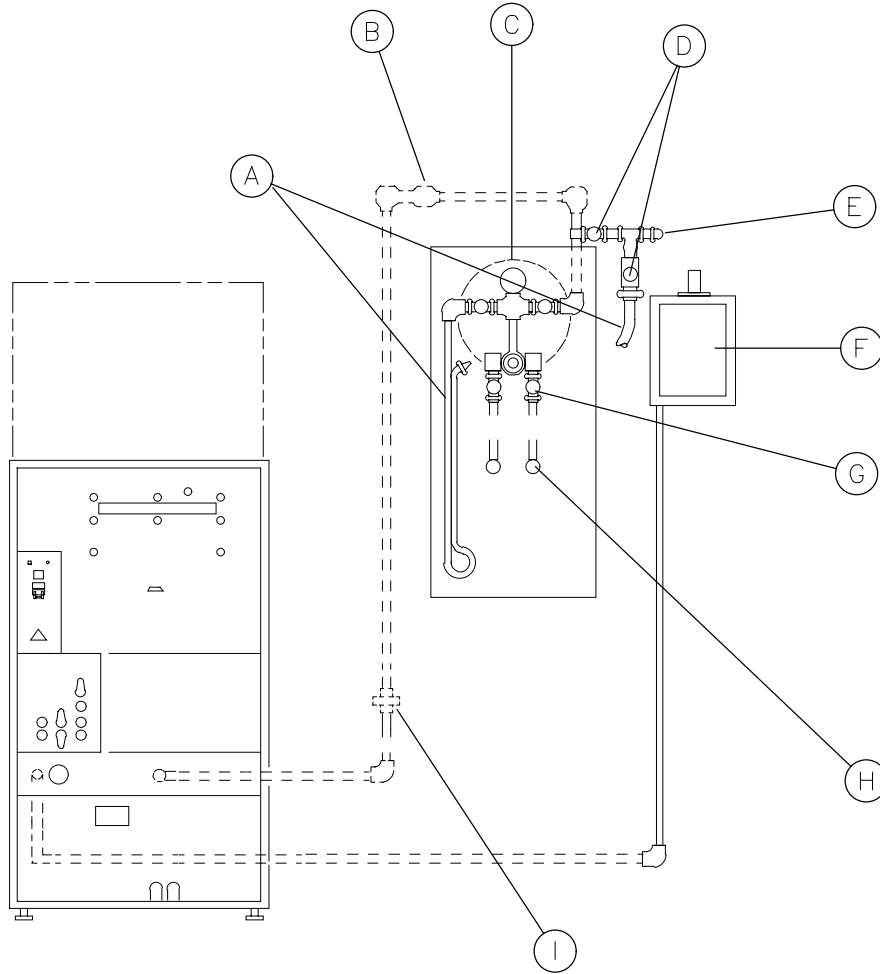
Description	Recommendation
Receiving-End of Processor	91.4 cm (36 in.)
Feed-End of Processor	91.4 cm (36 in.)
Drive-Side of Processor	91.4 cm (36 in.)
Non-Drive Side of Processor	91.4 cm (36 in.)
Top of Processor	91.4 cm (36 in.)

Figure 8 Side Dimensions



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Figure 9 Electrical and Water Connections




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 **Note**

- Pass service through the wall to the feed-end of the processor in the darkroom. Service controls may be located on either side of the processor for easy accessibility.
- See the Table on Page 17.



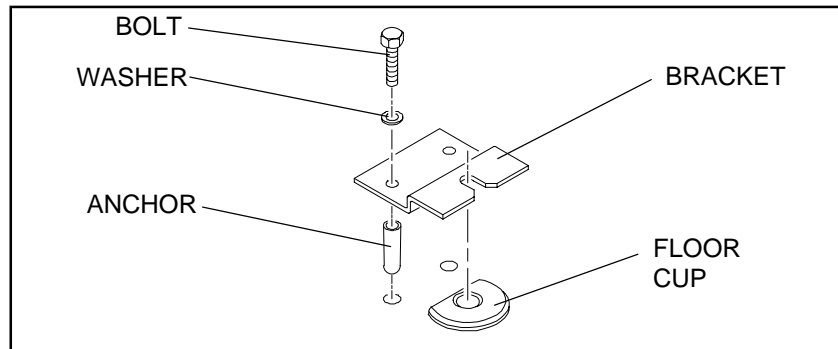
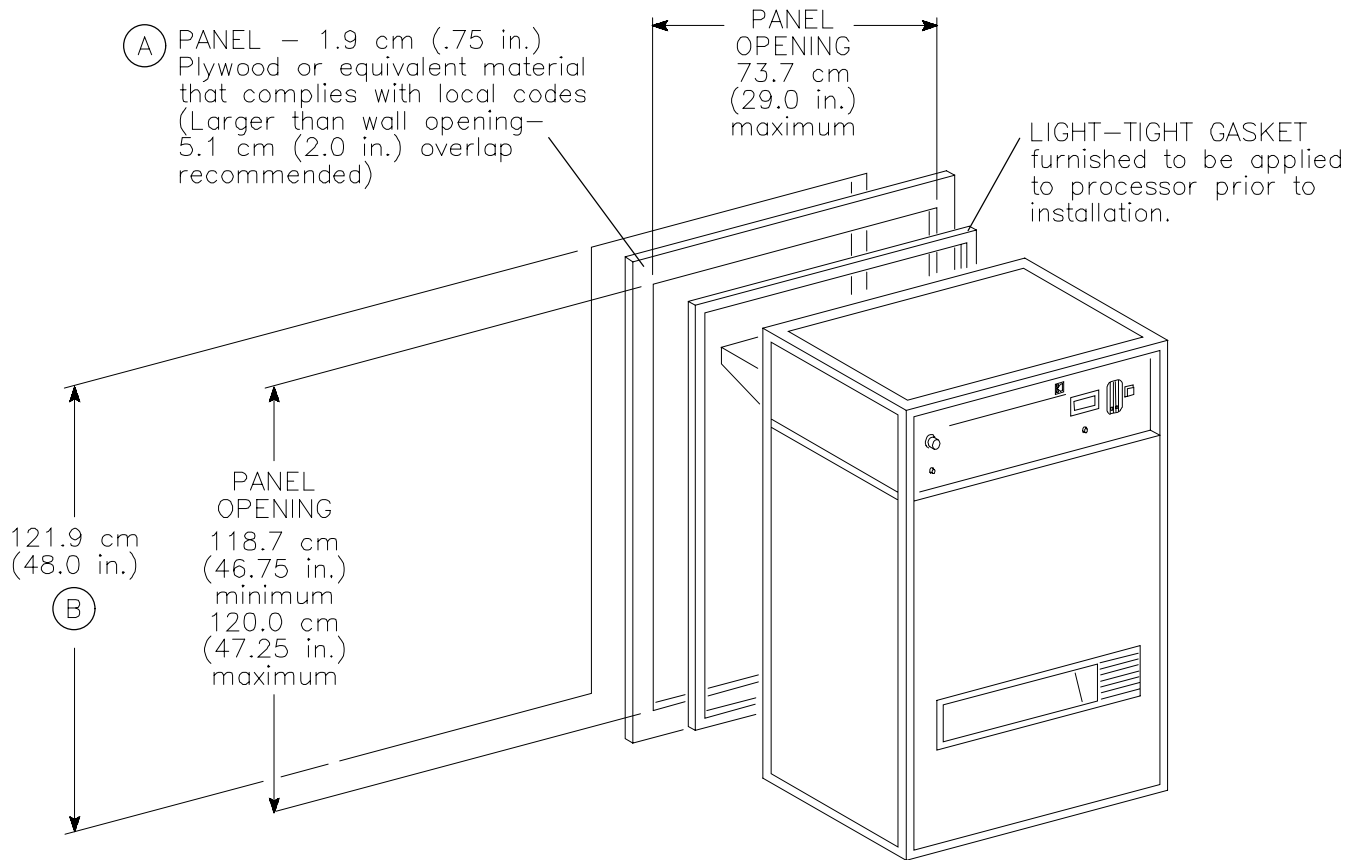
**Table 7 Electrical and Water Connections, Continued**

A	Service Hose - suggested length to reach the Processor and Replenisher Tanks.
B	½ in. NPT Check Valve
C	<p>Kodak Thermostatic Mixing Valve ½ in. NPT available from Eastman Kodak Company, Part No. 467621. Not supplied with the Processor.</p> <p> <b>Important</b></p> <p>A mixing valve is not required for the Processor if incoming water temperature is between 4° and 29.4°C (40° and 85°F)</p>
D	Shutoff Valves ½ in. NPT. Two additional required. Available from Eastman Kodak Company, Part No. 459981. Not supplied with the Processor.
E	Cold Water Supply ½ in. NPT
F	30 AMP - 2 POLE, Thermo-magnetic Circuit Breaker. Locate safe distance from water service. Not supplied with the Processor.
G	Shut off Valves ½ in. NPT. Two additional required. Available from Eastman Kodak Company, Part No. 459981.
H	Hot and Cold Water Supply ½ in. NPT.
I	½ in. NPT Union. Locate as close to the Processor as possible.

 **Note**

- The processor is UL listed, CSA certified. Specifications are subject to change without notice.
- Follow local electrical and plumbing codes.

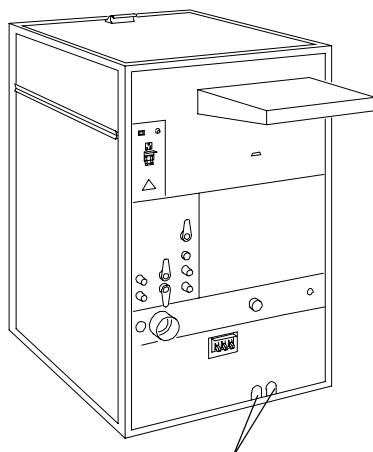
**Figure 10 New Wall Installation**



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- a. If the wall around the opening is straight and exactly perpendicular to the floor, this panel may not be necessary. The wall opening dimensions should match the inside dimensions of the panel opening.
- b. Make sure that the vertical dimension of  $48 \pm \frac{1}{16}$  in. for the wall opening is measured from the finished floor.

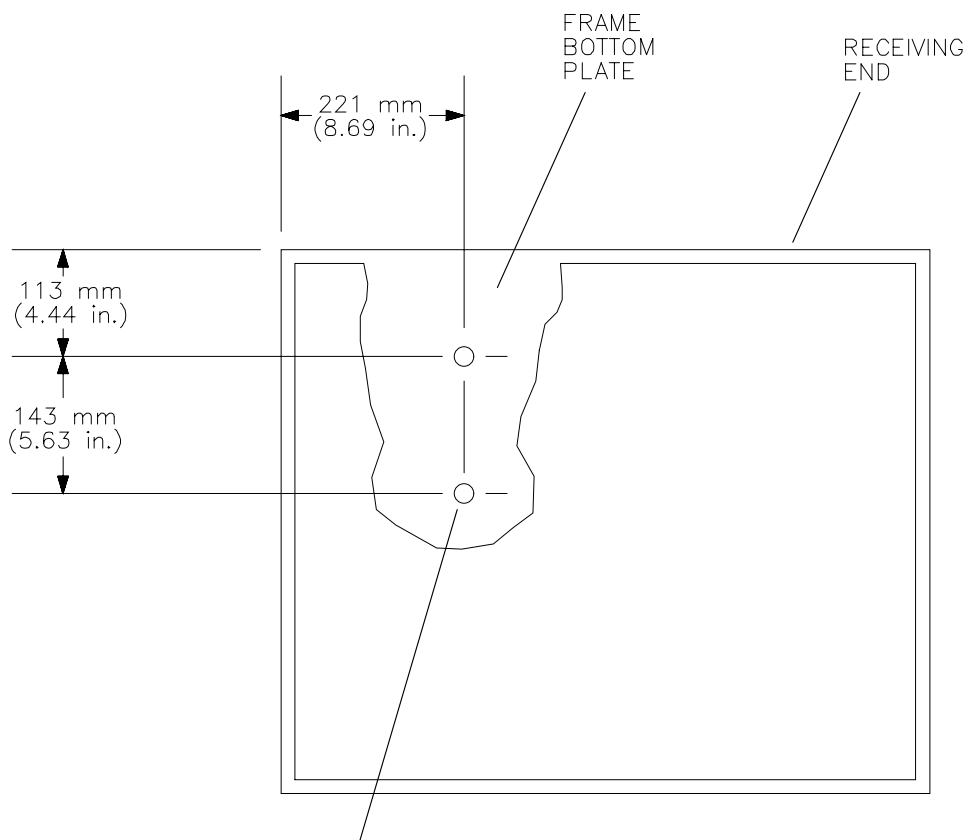
Figure 11 Inlets for Replenisher Tubing



Inlets for Replenishment Tubing

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Figure 12 Alternate Inlets for Replenisher Tubing

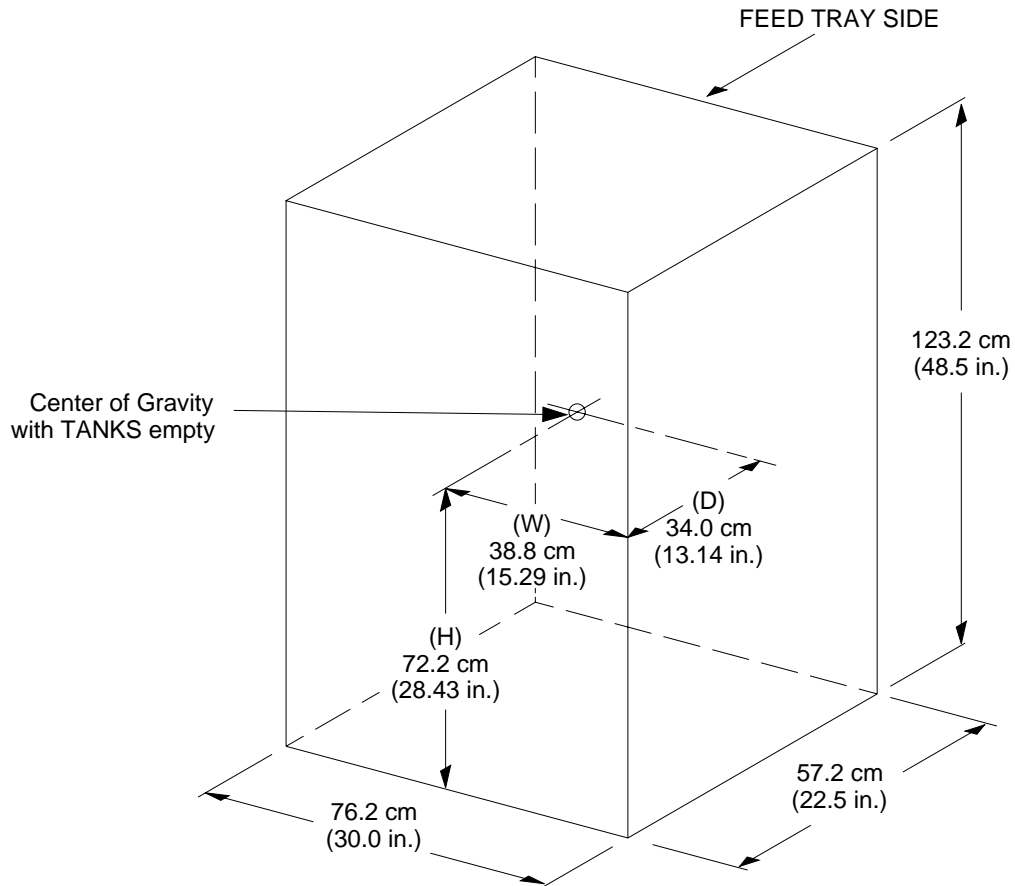


21 mm (0.81 in.) DIAMETER  
2 HOLES WITH CAPS. ALTERNATE  
INLETS FOR REPLENISHER TUBING.

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# Center of Gravity

Figure 13 Center of Gravity



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## ➤ Note

Center of gravity is shown for the Processor with the DEVELOPER, FIXER, and WASH TANKS empty.

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