

KODAK

Miniloader 2000

Miniloader 2000 P



HEALTH IMAGING

IMPORTANT

Please be aware of the fact that the KODAK Miniloader 2000 and KODAK Miniloader 2000P may only be used for loading and unloading of film cassettes (sizes and types as specified in the OPERATOR GUIDE) and feeding film into the RECEIVING MAGAZINE (Miniloader 2000 only) or into the integrated KODAK M35-M X-OMAT Processor (Miniloader 2000 P only).

The unit must not be used for any other operation!

PLEASE NOTE

The information herein is based on the experience and knowledge relating to the subject matter by Kodak AG prior to publication.

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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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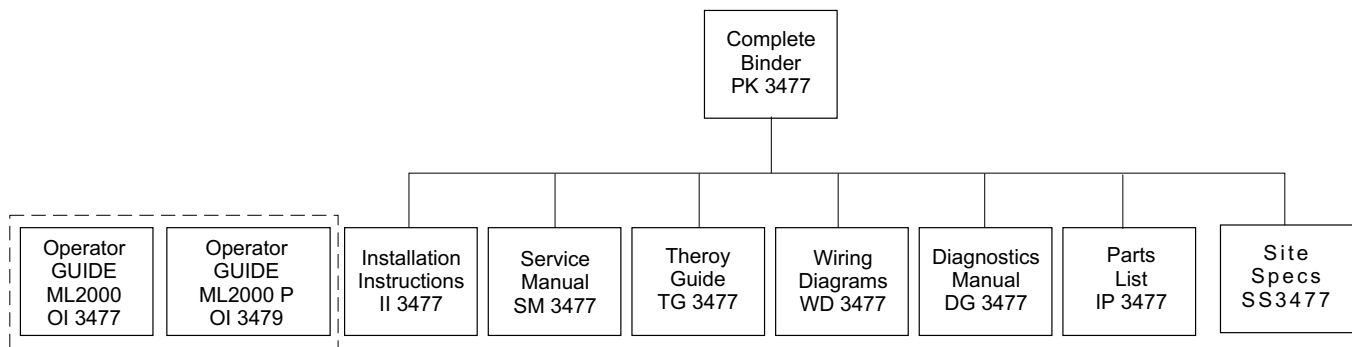
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RELATED PUBLICATIONS

NOTE

This SITE SPECIFICATION contains only data for the KODAK Miniloader 2000 and for the KODAK Miniloader 2000 P. For data of the KODAK M35-M X-OMAT Processor see the SITE SPECIFICATION Part No. 981157!

This publication is one of a series of instruction books that provide technical support information on the KODAK MINILOADER 2000 and KODAK MINILOADER 2000 P. It is recommended that these publications be kept in the binder provided. If an individual book is missing or destroyed, order another copy from Kodak PARTS SERVICES using the Publication Part Numbers below.



NOTE

OPERATOR GUIDES ARE NOT PART OF PK 3477. THEY MUST BE ORDERED SEPARATELY

For the sake of simplicity the KODAK MINILOADER 2000 and the KODAK MINILOADER 2000 P are called in this publication hereafter ML2000 and ML2000 P.

PERSONAL SAFETY

WARNING

To avoid any risk of injury when moving heavy loads follow your local safety regulations. These regulations are different in various countries!

ML2000

The ML2000 should not be rolled down from the TRANSPORT PALETTE by just one person. The centre of gravity is high and the unit may tip over if it is not rolled down the ramp carefully.

ML2000 P

Due to the high weight, the ML2000 P must not be installed by just one person. To lift the M35-M Processor onto the PLINTH at least two people are required. To move the ML2000 P from the TRANSPORT BOX onto the STAND at least two people are required.

To prevent SERVICE PROVIDERS (Kodak FEs or dealers) from injury, the equipment should be placed by SPECIALIST TRANSPORT PEOPLE in appropriate position as close to final site as possible. The packing material should be discarded by them.

PHYSICAL DIMENSIONS

	ML2000 (Stand Alone)	ML2000 (VAN Installation)	ML2000 P
crated with pallet			
Height	143 cm (56.3 in)	143 cm (56.3 in)	148 cm (58.3 in)
Width	86 cm (34 in)	86 cm (34 in)	89 cm (35 in)
Depth	72 cm (28.3 in)	72 cm (28.3 in)	103.5 cm (40.7 in)
Weight (without M35-M)	260 kg (573 lbs)	290 kg (639 lbs)	250 kg (551 lbs)
uncrated			
Height	125 cm (49.2 in)	125 cm (49.2 in)	137.2 cm (52.8 in)
Width	55 cm (21.6 in)	55 cm (21.6 in)	72.3 cm (28.5 in)
Depth	61 cm (24 in)	61 cm (24 in)	77.3 cm (30.4 in)
Weight (without M35-M)	220 kg (485 lbs)	250 kg (551 lbs)	180 kg (397 lbs)

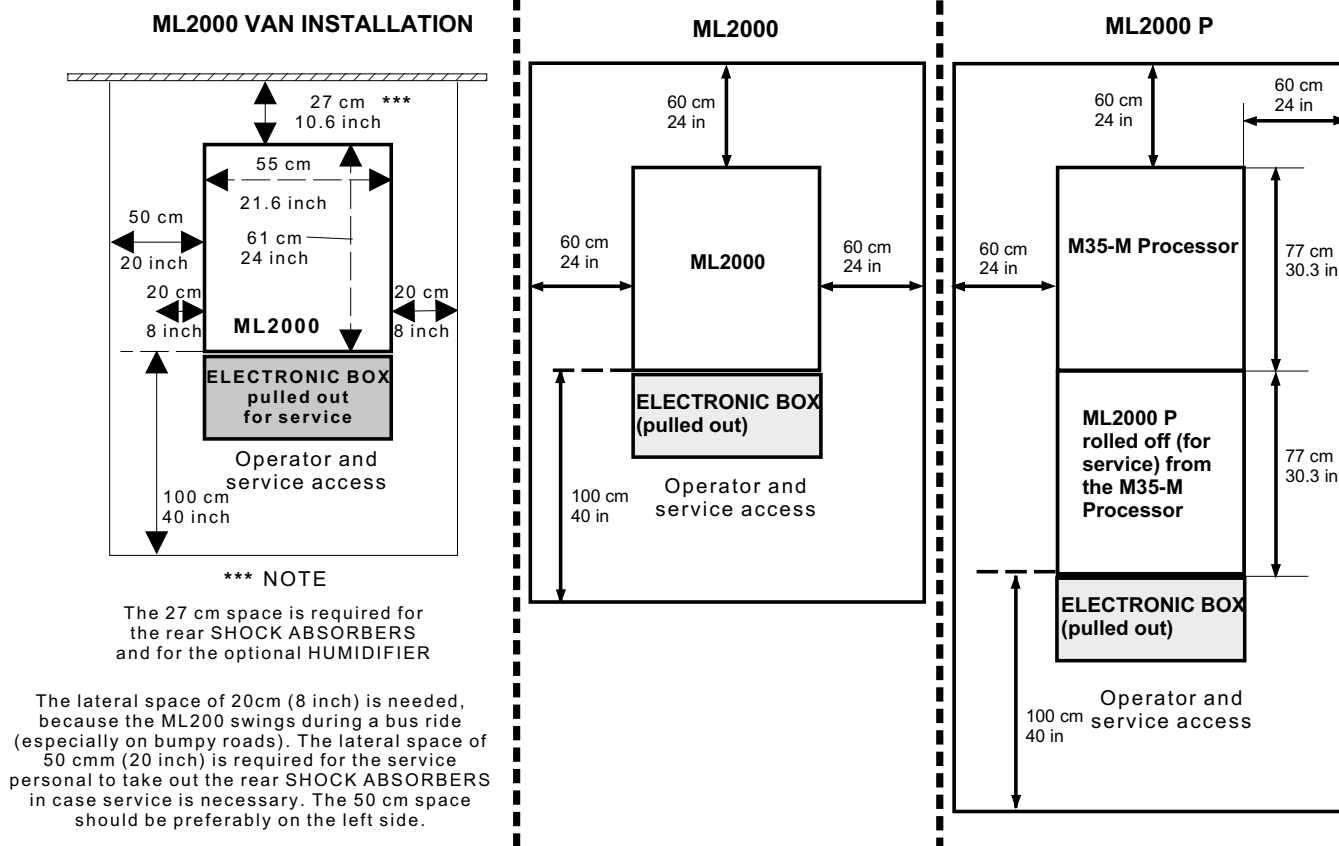
SERVICE ACCESS

For details see the drawing on the next page.

	Minimum Clearance ML2000 / ML2000P	Minimum Clearance ML2000 VAN-Installation
Front	100 cm (40 in)	100 cm (40 in)
Left Side	60 cm (24 in)	50 cm (20 in)
Right Side	60 cm (24 in)	20 cm (8 in)
Rear Side	60 cm (24 in)	27 cm (10.6 in)
Top	80 cm (31 in)	80 cm (31 in)

NOTE

Installations with less than the minimum clearances may reduce the effectiveness of the operation and impede service.



ELECTRICAL REQUIREMENTS

An earth ground wire must be provided. Follow local electrical codes.

SYSTEM MAINS V	FREQUENCY Hz	PHASES	CURRENT A	MAINS CIRCUIT BREAKER EUROPE	MAINS CIRCUIT BREAKER US
100 V	50 / 60	1	3	16	20
110 V	50 / 60	1	2,7	16	20
120 V	50 / 60	1	2.5	16	20
200 V	50 / 60	1	1.5	16	20
210 V	50 / 60	1	1.4	16	20
220 V	50 / 60	1	1.35	16	20
230 V	50 / 60	1	1.3	16	20
240 V	50 / 60	1	1.25	16	20

WARNING

According to european safety regulations for medical devices, the ML2000P must be properly connected to the EQUIPOTENTIAL EQUILIZATION DEVICE (E²D) if the unit is operated within a distance of 1.5 m from a patient. The E²D and the CONNECTING CABLE must be provided by the customer. The purpose of the EQUIPOTENTIAL EQUILIZATION DEVICE is to ensure that all medical devices are connected to the same ground potential.

HEALTH AND SAFETY CONSIDERATIONS

The The ML2000 / ML2000 P will be designed to meet the following standards:

SAFETY REQUIREMENTS

Europe:

Low voltage directive 73/23/EEG and amendments:

-EN 60950 Safety of Information Technology Equipment

United States:

UL 1950 Safety of Information Technology Equipment

UL 122 Safety of Photographic Equipment

Canada:

CSA 22.2 No. 950 Safety of Information Technology Equipment

Japan:

Japanese Industrial Standards

WATER REQUIREMENTS

Germany:

DIN 1988, DVGW (for the Humidifier)

United Kingdom:

British Water Byelaw (for the Humidifier)

KODAK STANDARDS REQUIREMENTS

United States:

Approved Technical Practices

KAD Test Specifications TS212 (ATP593), TS 215(ATP588), TS217(ATP590)

Germany:

Kodak Normen (KN's): 1.50.04; 2.90.10; 2.90.64; 2.90.80

QUALITY SYSTEMS:

according to:

DIN EN ISO 9001

EN 46001

FDA GMP (Good Manufacturing Practices)

ELECTROMAGNETIC COMPATIBILITY REQUIREMENTS

Europe:

Electromagnetic Compatibility Directive 89 / 336 / EEG and amendments

Emissions:

EN 50081-1

EN 55022 Class B

EN 55011

EN 60555-2

EN 60555-3

Immunity:

EN 50082-1

United States:

Emissions:

FCC CFR 47 Part 15 Subpart J

Canada:

Emissions:

ICES Standards

Japan:**Emissions:**

VCCI Standard 11/1987 Class 2

Australia / New Zealand:**Emissions:**

AN / NZS 2054.1/1

AN / NZS 3548

Immunity:

AN / NZS 4252.1

APPROVALS

The ML2000 / ML2000 P will bear the following marks:

UL Underwriter Laboratories

CSA Canadian Standards Association

TÜV-GS Technischer Überwachungsverein, Geprüfte Sicherheit

CE Mark for LVD and EMC

PROTECTIVE SYSTEM

(Protection against accidental contacts and protection against water)

DIN 40050-IP 34.

SITE REQUIREMENTS**TEMPERATURE:**

15° - 30° C (59° - 86° F)

RELATIVE HUMIDITY

20% - 60% Rh.

In the range below 20% RH there is a risk of:

static discharge, creating artefacts on the film

extensive curl up to 30 mm

Both problems are minimised by the use of a Humidifier.

In the range above 60% RH the films may stick together due to a tacky emulsion!

EXTERNAL MAGNETIC FIELD

The ML2000 / ML2000P must not be installed in the close vicinity of a unit producing a strong magnetic field. This magnetic field could defeat the INTERLOCK SWITCHES (REED CONTACTS) of the ML2000 / ML2000P.

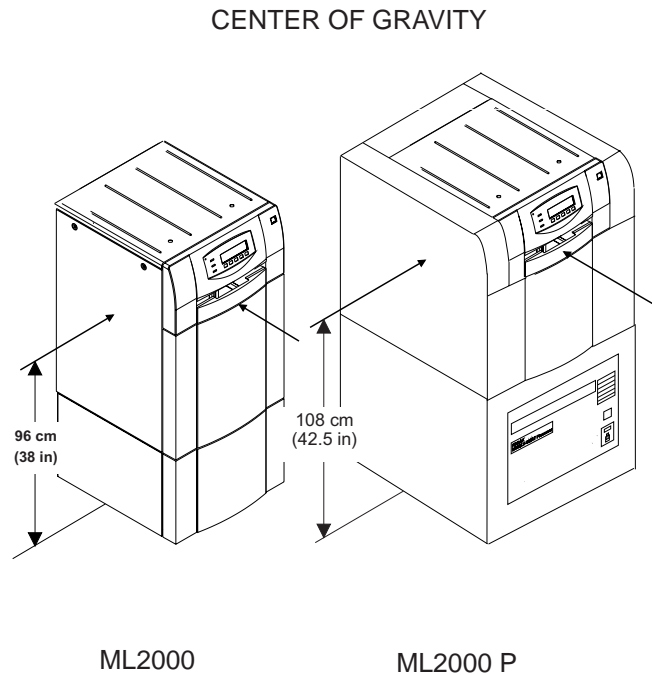
HEAT DISSIPATION

ML2000: Approximately 1080 kJ/hour (1025 BTU/h).

ML2000 P with M35-M: Approximately 2200 kJ/hour (2088 BTU/h).

CENTRE OF GRAVITY

The center of gravity for the ML2000 and ML2000 P is very high. Take care when transporting the unit to avoid tipping over.



INSTALLATION

The site must be properly prepared before the ML2000 / ML2000 P is installed.

A Field Engineer (Service Provider) will visit the premises during Kodak's normal working hours to inspect the site where the ML2000 / ML2000 P is to be installed. At that time it will be determined whether the site has been prepared properly for the equipment installation. The customer will be notified of any areas that need further preparation.

If local labour regulations permit, installation of the ML2000 / ML2000 P will be done by a Field Engineer (Service Provider). At installations where this is not possible, installation charges are the responsibility of the customer. A Field Engineer will be on site to provide assistance, if required.

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CUSTOMER EQUIPMENT
SERVICES

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