

VITROS®

Do More. For Life.

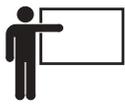
Operator's Guide

integrity by
intelli*i*check™



VITROS® System *ECiQ*
Immunodiagnostic

VITROS® System *ECi*
Immunodiagnostic



Introduction

Intended Use

Intended Use

For In Vitro Diagnostic use only. The VITROS® ECI/ECiQ Immunodiagnostic System perform random access, batch, and STAT immunodiagnostic assays on human fluid specimens. The system uses chemiluminescence detection technology to provide accurate and reliable results for heterogeneous assays. All reactions for a single quantitative, semi-quantitative, and qualitative measurement take place within a coated well.

Note: The availability of the ECI/ECiQ Immunodiagnostic Assays listed and illustrated in this Guide are subject to regulatory registration, licensing, clearance, or approval.

Installation and Site Specifications

Although equipment service representatives uncrate and install the VITROS ECI/ECiQ Immunodiagnostic System at the laboratory site, the site needs to be prepared according to specifications.

This section describes general requirements for installing the ECI/ECiQ System at your laboratory, including physical and environmental requirements.

Physical Dimensions

The following sections provide general component dimensions and a site drawing that illustrates setup and space requirements.

Dimensions

Table 1-1 provides the physical dimensions of the system, the printer, and the printer stand.

	System	Printer: Epson LX/ Model 300*	Printer: Epson LQ/ Model 570e	Printer: Texas Instruments Omni 800 Model 830e	Printer Stand
Width	111.8 cm (44 in.)	36.6 cm (14.4 in.)	41.1 cm (16.3 in.)	39.9 cm (15.7 in.)	61 cm (24 in.)
Depth	73.7 cm (29 in.)	27.5 cm (10.8 in.)	36.8 cm (14.4 in.)	34.5 cm (13.6 in.)	73.2 cm (28.8 in.)
Height	130.2 cm (51.25 in.), top cover down 179.1 cm (70.5 in.), top cover up	16.0 cm (6.3 in.)	16.0 cm (6.3 in.)	20.3 cm (8 in.)	71.1 cm (28 in.)
Weight	366 kg (807 lbs.)	4.4 kg (9.8 lbs.)	7.5 kg (16.5 lbs.)	7.3 kg (16 lbs.)	10.9 kg (24 lbs.)

*Standard printer for the system. Printers are ordered in accordance with regional specifications.

Table 1-1. Physical Dimensions



Site Drawing

The site drawing in [figure 1-1](#) provides the physical dimensions of the system. The system weighs approximately 800 pounds (366 kilograms).

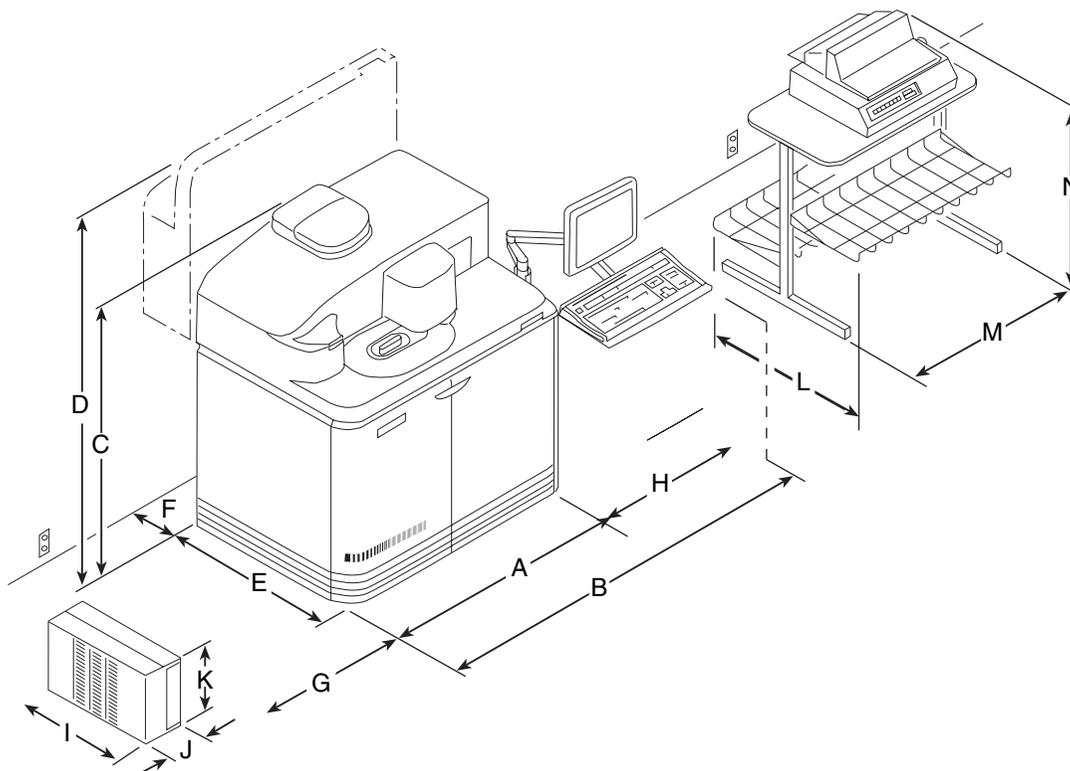
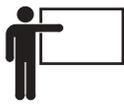


Figure 1-1. Physical Dimensions

The system and printer dimensions are described below:

Reference	Dimension
System Dimensions:	
A	111.8 cm (44 in.)
B	162.6 cm (64 in.)
C	130.2 cm (51.25 in.)
D	179.1 cm (70.5 in.)
E	73.7 cm (29 in.)
F	61 cm (24 in.)
G	59.7 cm (23.5 in.) - Left side door clearance
H	66 cm (26 in.)



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Reference	Dimension
UPS Dimensions:	
I	49.4 cm (19.4 in.)
J	43.2 cm (17.0 in.)
K	8.9 cm (3.5 in.)
Printer Stand for Epson LQ/Model 570e and Epson LX/Model 300* Printer Dimensions:	
L	73.2 cm (28.8 in.)
M	61 cm (24 in.)
N	87.1 cm (34.3 in.)
Printer Stand with Texas Instruments Omni 800/Model 830e Printer Dimensions:	
L	73.2 cm (28.8 in.)
M	61 cm (24 in.)
N	91.4 cm (36 in.)
*Standard printer for the system. Printers are ordered in accordance with regional specifications.	

Safety Requirements

The system meets all requirements for bearing the CE marking and safety standards UL 3101-1, CSA C22.2 No. 1010.1, and IEC 1010-1.

Power Requirements

System

The system requires a dedicated, single phase, AC power line and one of the following:

	Line Voltage	Frequency	Maximum Current Draw	Input Power
North America	120 volt AC	50–60 Hz	12 amps	<1.5 KVA
Continental Europe	200–240 volt AC	50–60 Hz	6 amps	<1.5 KVA

The system’s power cord should be plugged into a 3-wire, grounded electrical outlet (receptacle type). The power cord should be 1.83 meters (6 ft.) in length and detachable.

- North America: IEC 320 to NEMA 5-20R
- Continental Europe: IEC 320 to CEE7 “Shuko”



e-Connectivity™

e-Connectivity™ requires a Virtual Private Network (VPN) and Modem. The VPN and Modem require two electrical outlets and non-dedicated power lines can be used. They can also be plugged into a single power strip which can share the same receptacle as the ECi/ECiQ System. Power cords are supplied with the VPN and Modem.

Line Voltage and Frequency for VPN and Modem used world wide:

VPN	Modem
Line Voltage: 100 - 240 volt AC	Line Voltage: 100 - 240 volt AC
Frequency: 47/63 Hz	Frequency: 50/60 Hz

Refer to [Chapter 1, “Introduction”](#) for detailed information on the VPN and Modem.

Refer to [Chapter 2, “System Overview”](#) for detailed information on e-Connectivity.

Printer

Line Voltage and Frequency for printers used in North America:

Epson LX/Model 300*	Epson LQ/Model 570e	Texas Instruments Omni 800/Model 830e
Line Voltage: 99-132 volt AC	Line Voltage: 99-132 volt AC	Line Voltage: 120 volt AC
Frequency: 50/60 Hz	Frequency: 50/60 Hz	Frequency: 50/60 Hz

*Standard printer for the system. Printers are ordered in accordance with regional specifications.

Electrical Outlet (Receptacle Type)

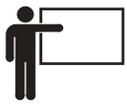
The electrical outlet (receptacle type) for the system is as follows:

- North America: NEMA 5-20R
- Continental Europe: CEE7 “Shuko”

Electrical Outlet (Receptacle type) for Printers used in North America:

Epson LX/Model 300*	Epson LQ/Model 570e	Texas Instruments Omni 800/Model 830e
NEMA 5-15R	NEMA 5-15R	NEMA 5-15R

*Standard printer for the system. Printers are ordered in accordance with regional specifications.



Introduction

Installation and Site Specifications

Uninterruptible Power Supply

If you experience frequent power fluctuations, you may want to use an uninterruptible power supply.

Contact your technical support representative for more information.

Entrance to Room

The entrance door opening should be a minimum of 76.2 cm (30 in.) wide.

Telephone Recommendations

You may also find it convenient to have a telephone near the system to communicate with technical support personnel during troubleshooting sessions.

A dedicated analog telephone line is required for e-Connectivity™ which provides a secure connection between your system and Ortho-Clinical Diagnostics. The modem installed on your system for e-Connectivity is connected to the dedicated analog telephone line.

Refer to [Chapter 1, “Introduction”](#) for detailed information on the VPN and Modem.

Refer to [Chapter 2, “System Overview”](#) for detailed information on e-Connectivity.



Environmental Specifications

The environmental limits for normal operation of the system are defined below and shown in [figure 1-2](#).

- BTU Output: 4100 BTUs per hour
- Operating Temperature: 15–30°C (59–86°F)
- Site Relative Humidity: 15–75% RH noncondensing
- Altitude: -0.1524/2.439 km (-500/8000 ft.)

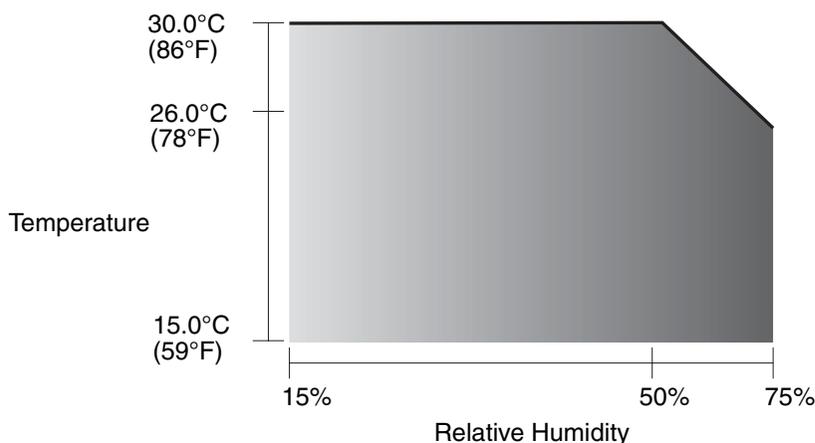


Figure 1-2. Environmental Requirements

System Relocation

The system is mounted on casters to facilitate its relocation within the laboratory. The new site must meet the same space, electrical, and environmental requirements as specified for the original site.