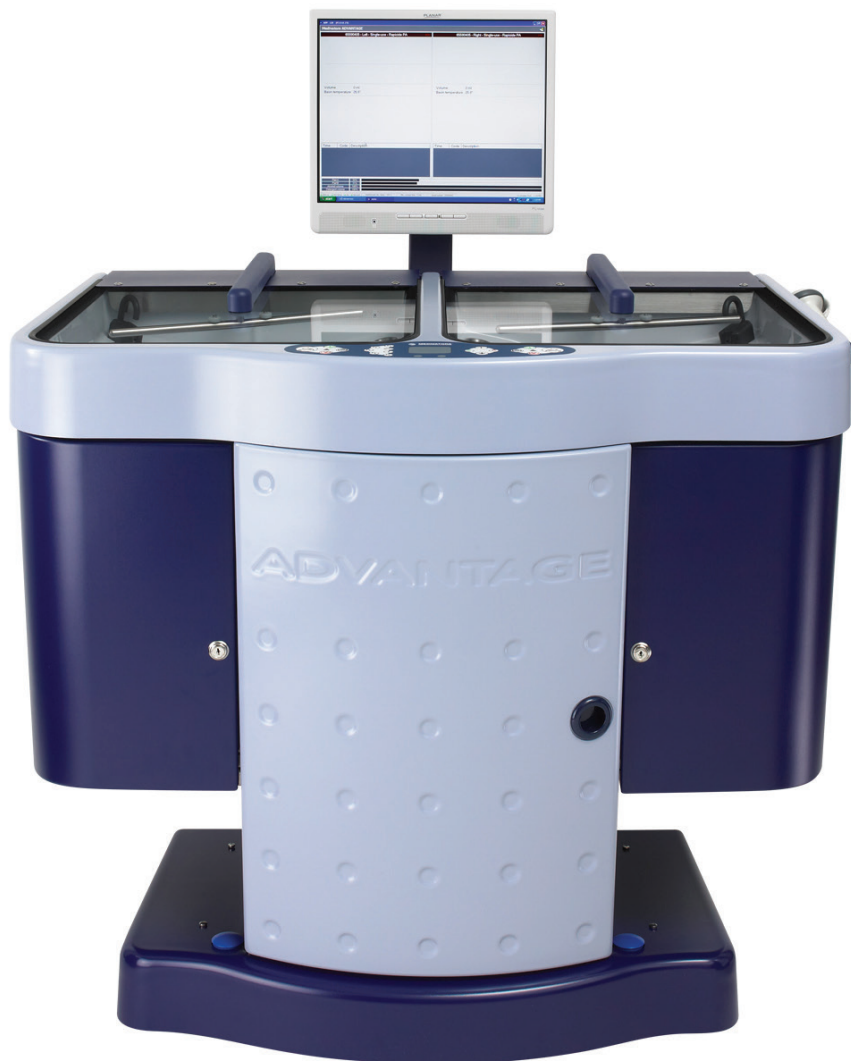


Site Requirements | MEDIVATORS®
ADVANTAGE® PLUS
Reprocessing System



MODEL 2.0
International

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SITE REQUIREMENTS

The purpose of this section is to provide the customer with requirements that need to be met to ensure the ADVANTAGE Plus will be properly installed.

Applicable Documents

- ADVANTAGE Plus Endoscope List and Operator ID Form (PN 50092-380)
- ADVANTAGE Plus User Manual (PN 50097-429)

It is the responsibility of the customer to meet these requirements to ensure proper installation of the ADVANTAGE Plus.

The ADVANTAGE Plus will be delivered on a pallet along with multiple boxes. It is important to keep all the boxes received with the ADVANTAGE Plus together.

It is the responsibility of the customer to provide qualified personnel to provide the connections for the ADVANTAGE Plus to the building supply (Water, Electrical, Drain, Air and Network/Internet) during the installation process.

Any deviation from these specifications may cause operational issues that would not be covered by the Warranty.

Water Supply

- Potable water is the minimum standard.
- Disinfectant water temperature requirements:
RAPICIDE PA 30° : 35°C ± 2°C
RAPICIDE PA 20° : 25°C ± 2°C
ADASPOR SS: 25°C ± 2°C
- The water supply must be able to provide an on-demand water temperature to meet the requirements for the disinfectant chemistry used (see below). A thermostatic mixing valve may be needed to supply the required water temperature.
- If a mixing valve is used it must be accessible and located near the prefilter to aid in adjustment. The mixing valve should include a thermometer followed by a bypass valve to a drain. One mixing valve per reprocessor is recommended.
- The incoming waterline must be a minimum of 15 mm ID providing a flow rate of 5 L/min and a water pressure of 2 to 6 bar.
- Water consumption is approximately 30 liters/cycle for a standard endoscope disinfection cycle, 49 liters/cycle for an endoscope disinfection cycle with a detergent wash, and 68 liters/cycle for an endoscope disinfection cycle with two detergent washes. Water consumption for the ADVANTAGE Plus will vary depending on the incoming water temperatures. The reprocessor will extend the initial flush to allow the water to come up to temperature to meet the minimum required temperature of the disinfectant.
- Ensure water hardness is less than 12 gpg (200 ppm) for optimal performance.
- The pre-filter assembly has the dimensions of 66 cm H x 97 cm W x 15 cm D, is wall mounted and needs to be within 1.5 meters of the ADVANTAGE Plus. The incoming water connection to the pre-filter assembly is 1/2" NPT on the right hand side. All fittings and hoses for the output of the pre-filter assembly are included.
- A shut-off valve must be installed before the pre-filtration system. It is important that the valve be mounted within reach of the operator.
- It is highly recommended that the facility water be analyzed to determine if the supplied pre-filter is adequate.

The MEDIVATORS endoscope reprocessors do not require backflow protection for the incoming water supply, nor is a backflow protection device installed in the reprocessor.

If building or plumbing codes require backflow protection, then please consult your local codes, standards and/or guidelines, for applicable requirements.

Drain

- A drain system capable of draining 12 L/min, less than 46 cm from the floor and vented will ensure the proper operation of the ADVANTAGE Plus. The supplied drain line has a 2.5 cm ID, 3.5 cm OD.

Air Supply

- The ADVANTAGE Plus system includes an air compressor that requires a dedicated circuit.
- If the ADVANTAGE Plus model purchased did not include the air compressor, the system may utilize house compressed air (dry, oil free) which must meet these required air pressure specifications: 4 to 10 bar with a minimum flow volume of 0.71 L/s, maximum particle size is 5 microns, maximum dew point is 7°C, maximum oil concentration is 5 mg/m³.
- Air usage is approximately 65 liters per cycle.
- A 6 mm ID flexible air hose (EPDM, braided, 10 bar minimum) is required to connect the ADVANTAGE Plus to the house air. This is not supplied with the ADVANTAGE Plus. The hose connects to a barbed fitting on the back of the ADVANTAGE Plus.

Electrical Supply

- 100 to 240 VAC \pm 10%, single phase, 50/60 Hz, 1000watts
- A GFI or RCD protected outlet should be located within the operator's reach.
- Power consumption 150 watts at idle, 400 watts during a cycle in one basin, 600 watts during a cycle in both basins, and a nominal peak of 1000 watts.
- The ADVANTAGE Plus can operate uninterrupted with power losses up to 0.5 seconds. Power losses greater than 0.5 seconds without proper shutdown may produce system alarms and system shutdown.
- A UPS with a minimum rating of 1500 VA/865 watts is highly recommended. The role of the UPS is to solely protect the computer and will allow the Advantage Plus to operate for a short period of time without power allowing for an orderly shut down of the computer in the event of a power outage.

Heat Load

- Idle: 500 BTU/hr
- Cycle (1 basin): 1400 BTU/hr
- Cycle (2 basins): 2000 BTU/hr

Ventilation

It is the Customer's Responsibility to ensure the room is in compliance with this requirement. This is not a requirement of the ADVANTAGE Plus but of the chemicals that are used for disinfection.

- It is a health and safety requirement to have a minimum of 10 air changes per hour in the room. During cycle operation and the chemical heating process, chemical vapor may be produced. The air exchange will minimize staff exposure to chemical vapors.
- A 10 cm flexible duct may be connected from the back of the ADVANTAGE Plus to the facility's exhaust system to aid in fume extraction. A minimum of 11.8 L/s at 62.25 Pa static pressure is required to properly vent the ADVANTAGE Plus.
- The ADVANTAGE Plus may also be supplied with an active vapor management system to aid in chemical vapor management. Please refer to the purchase order to determine the correct configuration of the ADVANTAGE Plus.

Dimensions

- The ADVANTAGE Plus physical dimensions are 175 cm H x 124 cm W x 79 cm D, weight 180 kgs.
- If the optional air compressor is installed, the ADVANTAGE Plus will need an additional 28 cm at the back of the unit. Alternately, the compressor may be installed remotely (in an adjacent room, closet, wall space).
- Space is required on either side of the unit (approximately a combined 30 cm) for easy access to the internal components. If this is not available, the ADVANTAGE Plus contains a base with casters allowing the system to be moved. There should be adequate room for the ADVANTAGE Plus to be moved for access to accommodate maintenance.

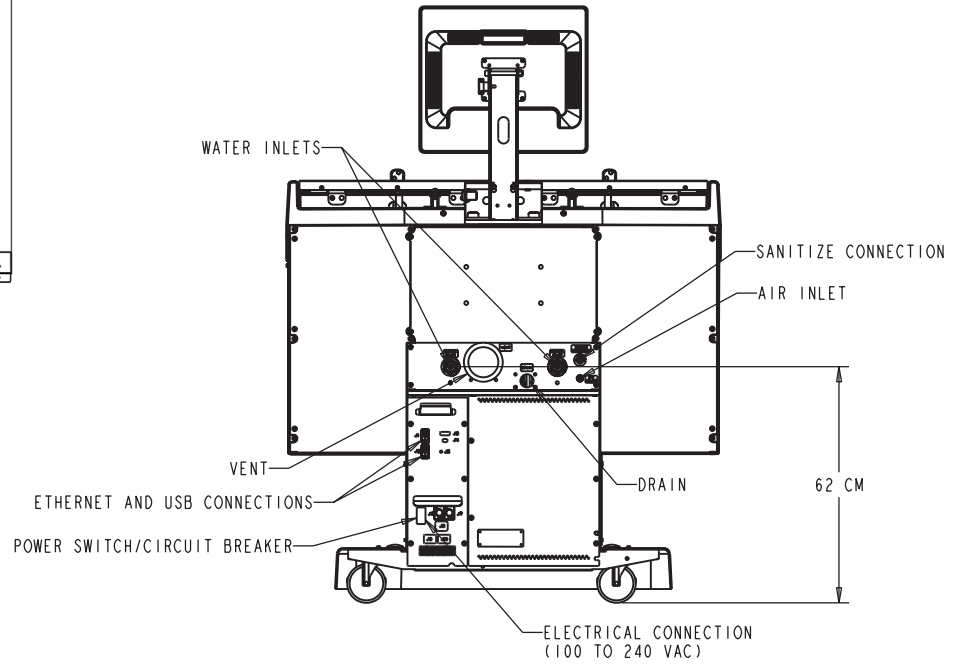
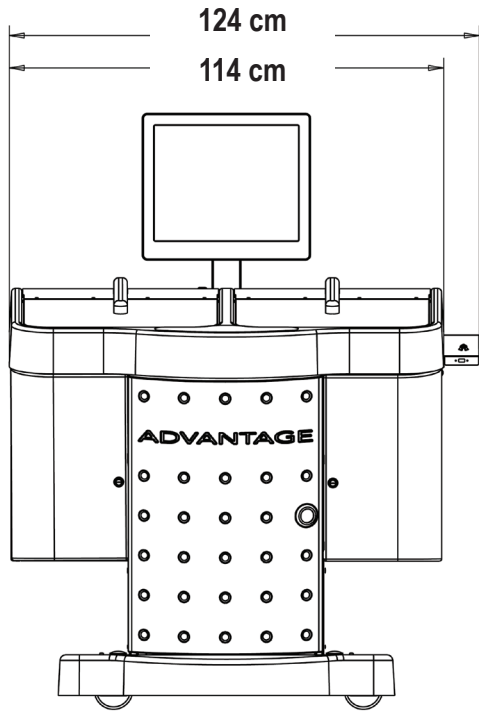


Figure 1. Front & Back Dimensions

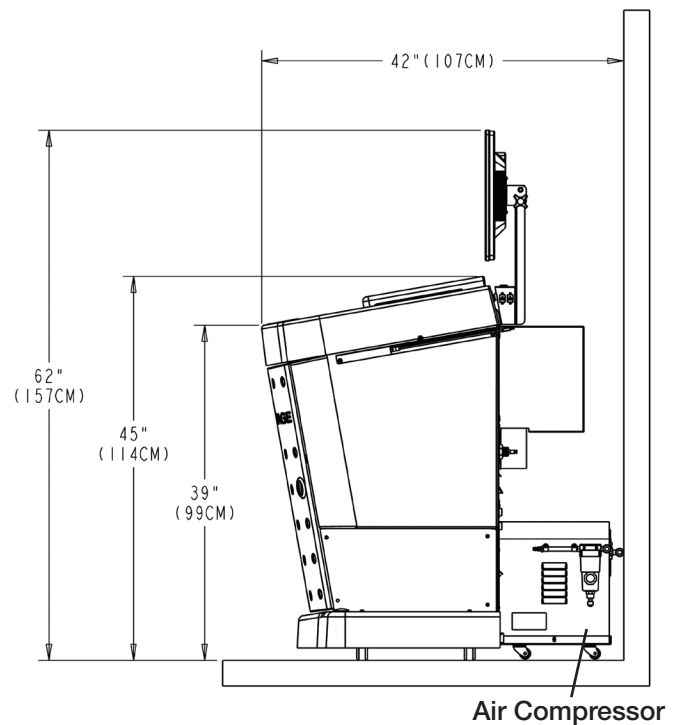
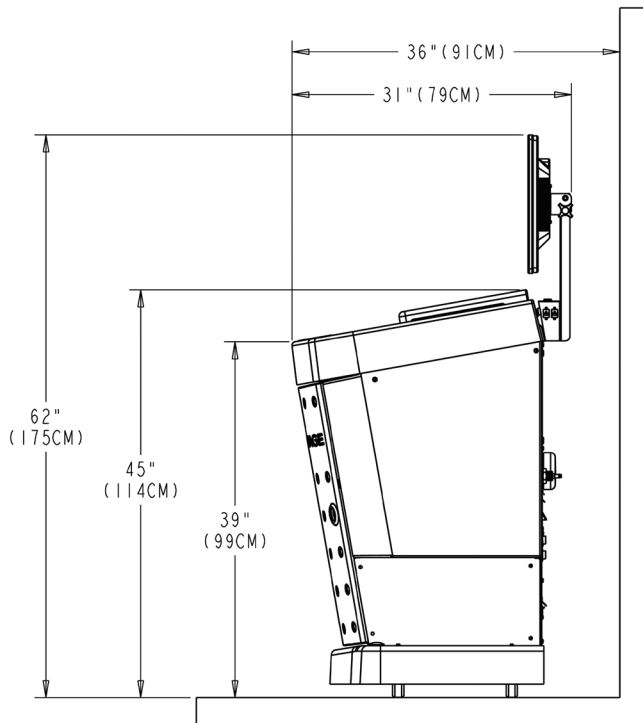


Figure 2. Side Dimensions & Clearance

Endoscope & User Information

- To ensure a smooth and trouble-free installation, the customer must supply a complete list of users and endoscopes that will be reprocessed in the ADVANTAGE Plus.
- Fill out the ADVANTAGE Plus Endoscope List & Operator ID form (PN 50092-380).

Network/Remote Access

- The ADVANTAGE Plus is equipped with a PC based computer running Windows XP (SP3) which will allow full networking along with the capability of remote diagnostics.
- To allow for remote diagnostics an internet connection is required. This is highly recommended.

This checklist should be utilized to ensure the installation site meets the required specifications. If all specifications are met, the site is suitable for the installation and use of the MEDIVATORS ADVANTAGE Plus Automated Endoscope Reprocessor.

SITE REQUIREMENTS

Water Supply	Potable water is the minimum standard.	
	Minimum flow rate 51pm with a pressure of 2-6 Bar	
	Water Temperature meets the requirements of the disinfectant chemistry used.	
	The mixing valve must be accessible, if required.	
	Hardness, less than 12 gpg (200 ppm)	
	Pre-filter wall space 66 cm H x 97 cm W x 15 cm D	
Drain	12 L/min, less than 46 cm from the floor, vented	
Air Supply	Included air compressor, adds 28 cm to depth of unit	
	House compressed air requirements: (dry/oil free) 4 to 10 bar, minimum flow volume of 43 L/min, maximum particle size is 5 microns, maximum dew point is 7°C, maximum oil concentration is 5 mg/m ³	
Electrical Supply	100 to 240 VAC ± 10%, single phase, 50/60 Hz, 1000 watts	
	GFI or RCD protected outlet, accessible by user	
Ventilation	A minimum of 10 room air exchanges per hour	
	Optional ventilation system available, adds 18 cm to the depth	
Unit Dimensions	175 cm H x 124 cm W x 79 cm D, 180 kgs.	
	Add 30 cm of open space to the total width to aid with service access	
Endoscope List	ADVANTAGE Endoscope List & Operator ID form (50092-380) completed	
Remote Access	Internet connection (recommended)	

By signing below Customer acknowledges that (1) Customer reviewed these Site Requirements for the MEDIVATORS Reprocessor(s) listed on the face of this document; (2) Customer is solely responsible for meeting each of the specifications and requirements set forth in these Site Requirements to ensure proper installation and performance of the reprocessor(s); (3) Customer is able to meet each of these specifications and requirements; and (4) the failure of Customer to comply with these Site Requirements and any deviation from the specifications set forth herein may compromise the functionality of the reprocessor(s) and/or may cause operational issues, which will not be covered by the MEDIVATORS warranty and are hereby disclaimed by MEDIVATORS.

Facility Representative _____ Title _____

Signature _____ Date _____ Email _____

