



PRIMATECH™  
MEDICAL SYSTEMS



AIRODYNE™

*Alternating Pressure/  
Low Air Loss  
System*

**Operation Manual**



PLEASE READ THIS OPERATION MANUAL CAREFULLY BEFORE SETTING UP AND USING THIS DEVICE. Pay special attention to the warnings and other safety information. Only use Genuine PrimaTech Medical Systems Replacement parts and accessories; a reference list is included with this Manual for your convenience. IF YOU DO NOT FULLY UNDERSTAND ALL THE INSTRUCTIONS, SAFETY PRECAUTIONS, AND WARNINGS, DO NOT USE THIS DEVICE. IN THE UNITED STATES, PLEASE CALL CUSTOMER SERVICE AT 1.800.621.4844. INTERNATIONAL CUSTOMERS PLEASE CALL 405.840.2600.



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## 1.0 SYMBOLS REFERENCE



*Attention! Please read accompanying documents*



*Double Insulated (Class II)*



*Functional Ground*



*Type BF Equipment*

IPXO

*Do not immerse power unit in liquid or spray liquids directly on power control unit*



*Declaration of Conformity to Medical Device Directive*



*Underwriters Laboratory Agency Approval (United States/Canada)*



*International Electronics Approval*

### Indications:

This device is indicated to assist in the treatment and/or prevention of pressure ulcers as part of a holistic program of pressure ulcer management. Always consult a physician before using this device.

### Contraindications:

Certain patient conditions (e.g. unstable cervical fracture) are contraindicated for use with this device. Always consult the patient's physician prior to use.

## 2.0 SAFETY PRECAUTIONS

### Installation:

Verify mattress anchor straps are attached to bed frame securely. Test all bed frame functions to verify no interference. Do not place anything on the power unit. Route power cord underneath bed frame and verify freedom from hazard. See Section 8.0 of this Manual ("Installation") for further installation instructions.

### Bed Linens:

This device incorporates a waterproof cover that is moisture vapor permeable; therefore it is recommended to limit bed linens to one sheet in order to maximize the system's performance. NOTE: Only "breathable" incontinent pads are recommended for use with this device.



### Open Flames:

Do not expose this device to open flames or cigarettes. This device draws room air continuously therefore cigarette smoke can damage internal components and is not permitted near this device. Cigarettes may ignite bed linens. CAUTION: DO NOT SMOKE CIGARETTES, PIPES, CIGARS, OR ANY OTHER RELATED PRODUCTS ON OR AROUND THIS SYSTEM. FLAMMABILITY HAZARD EXISTS.

### Cross Contamination:

This device should be decontaminated between patient installations. Refer to section 15.0 of this Manual ("Cleaning Instructions") for proper instructions. Failure to disinfect may result in cross contamination.

### Bed Frame Consideration:

Verify that the patient weight, therapeutic support surface, bed rails, etc. do not exceed weight capacity of bed frame. Verify patient weight does not exceed this device's weight capacity.

## 3.0 WARNINGS

### **Entrapment:**

When using side rails and/or assist devices, use a mattress thick enough and wide enough so that the gap between the top of the mattress and the bottom of the side rails and the gap between the side of the mattress and the side rails is small enough to prevent a patient from getting his or her head or neck between the mattress and the side rail. Failure to do so could result in serious patient injury or death.

### **Patient Falls:**

Failure to use bed rails in raised position could lead to accidental patient falls. Air mattresses have soft edges that may collapse when patients roll to that edge.

### **Risk of Electric Shock:**

DO NOT open back cover. This device is NOT user serviceable. This device should only be opened by qualified personnel approved by PrimaTech Medical Systems. Refer all service to your local PrimaTech Medical Systems authorized dealer or call Customer Service at 1-800-621-4844.

### **Oxygen Equipment:**

Explosion risk if used in the presence of flammable anesthetics.

### **Fuse:**

Danger! Risk of fire. Replace fuse as marked: T1A 250VAC. This product incorporates fusing only in the ungrounded phase conductor.

### **Electrical:**

Do not insert items into any opening of the power unit. This could short internal components, which could cause fire or electrical shock. This product is NOT AP/APG protected. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

### **Grounding Reliability:**

Grounding reliability can only be achieved when plug is connected to an equivalent receptacle marked "Hospital Grade" or "Hospital Only". In the event that a 3-prong wall receptacle is not available for the 3-prong plug on the power unit, it is the personal liability and obligation of the customer to contact a qualified electrician before using the system. Verify the 2-pronged wall receptacle is replaced with the properly grounded 3-prong wall receptacle in accordance with the National Electrical Code. If you must use an extension cord, ONLY use a 3-prong extension cord that has the same or higher electrical rating as the device being connected. Route the power cord away from traffic.

## 4.0 INTRODUCTION

The AiroDyne is a portable alternating pressure mattress with low air loss designed to treat and/or prevent pressure ulcers, otherwise known as bed sores. It is designed to replace a standard mattress (Overlay model fits on top of a standard hospital mattress) and fit most homecare or hospital beds. The AiroDyne consists of a power unit, a mattress, and a cover. The power unit utilizes a small compressor to remain quiet and energy efficient. The control panel is simple and very user friendly. The AiroDyne has a unique pressure monitoring system called I.P.S. Technology (Intelligent Pressure Sensing). I.P.S. technology enables the AiroDyne power unit to monitor the internal pressures of the mattress every six seconds to provide optimal comfort levels and therapy to patients set according to their weight. You will hear the compressor periodically turning on and off to maintain those pressures. The two LED's (small lights) on the control panel indicate the Power status and I.P.S Technology at work. The mattress replacement consists of twenty air cells over a 2"

foam base (Overlay model does not have foam base). The air cells are divided into even/odd sets to allow alternation of air pressure. Six of the air cells located in the trunk area of the mattress are ventilated to provide low air loss, which aids in moisture management. These six ventilated air cells are easily identifiable by seeing the ventilation symbol on the edge of the air cell. The PrimaTex cover is made of 70-denier nylon taffeta with a quilted under layer. It is both water proof and moisture vapor permeable, which helps wick moisture away from the patient's skin.

## 5.0 RECEIVING INSPECTION

The AiroDyne systems ship in one large box. Inside you will find two boxes: one for the power unit and one for the mattress assembly. Inspect the goods for shipping damage. If any damage is found, file a report with the carrier immediately. Prepare a written report and take pictures of the damage. Call PrimaTech Medical Systems customer service at 1-800-621-4844 within 5 days of the claim.

## 6.0 SYSTEM COMPONENTS

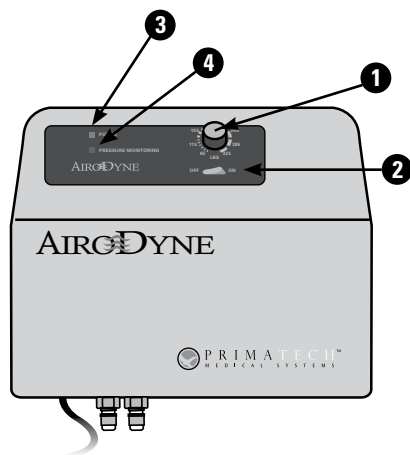
### Components Supplied in the Power Unit Package:

- 1 each - Power Unit
- 1 each - Operation Manual

### Components Supplied in the Mattress Assembly Package:

- 1 each - Mattress Replacement with Cover

## 7.0 FEATURES



### Control Panel Features:

See Figure 7a above

#### Control Dial (1):

Patient weight knob is used to adjust pressure of mattress according to patient's weight.

#### Power Switch (2):

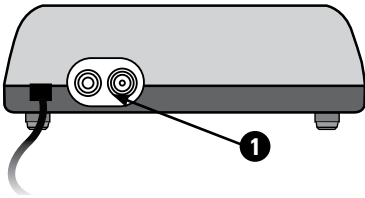
Power LED illuminates when power is ON.

#### Power LED (3):

Illuminates when Power is ON.

#### Pressure Monitoring LED (4):

Illuminates when compressor is on. Pressure is monitored every 6 seconds regardless of LED illuminating.

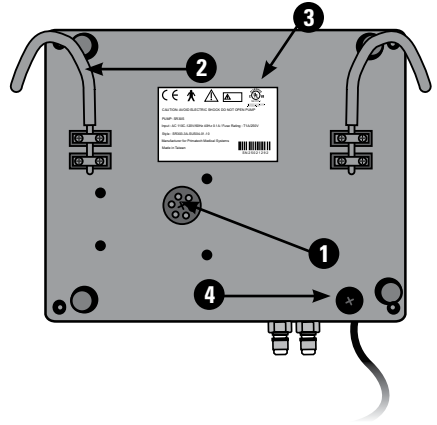


### Bottom Panel Features:

See Figure 7b above

#### Coupler (1):

Quick couplers are used and male/female connectors will “click” into place to secure air hoses to power unit.



### Rear Panel Features:

See Figure 7c above

#### Filter Cap (1):

No tools are necessary to remove filter cap. PrimaTech Medical Systems recommends that the filter should be inspected and cleaned or replaced with a Genuine PrimaTech Medical Systems replacement part once a month or during service between patients to ensure optimal performance of the power unit. Filter caps sold separately.

#### Hanging Hooks (2):

Hanging hooks are designed to fit multiple foot board widths. Hooks can be folded back into the unit when not in use.

#### Serial Number Label (3):

Label identifies serial number along with agency approvals, etc.


#### Fuse (4):

Fuse holder can be opened with flat head screw driver.


## 8.0 INSTALLATION

### Mattress and Power Unit Installation:

1. Remove existing mattress from hospital/homecare bed frame and store.
2. Place the AiroDyne mattress replacement on the bed frame with the hose end at the foot section of the bed frame. Secure mattress replacement to each side of the bed frame using mattress anchor straps with clips. Anchor straps should be attached to the bed frame in a fashion that will not hinder the bed frame articulating up and down. Attached anchor straps should be tucked under mattress replacement to avoid any complications.

 **NOTE:** Before proceeding, test all bed functions to verify no restrictions or interference.

### For Overlay Option:

Place the AiroDyne overlay on top of the standard hospital bed mattress with the hose end at the foot section of the bed frame. Secure the overlay to the hospital bed mattress by attaching the overlay's four anchor straps to each corner of the mattress. Anchor straps should be attached to the bed mattress in a fashion that will not hinder the bed frame articulating up and down.  **NOTE:** Before proceeding, test all bed functions to verify no restrictions or interference.

3. Using the integrated hooks, securely hang the power unit on the bed end at the foot end or place on a smooth flat surface.
4. Connect the air hoses from the support surface to the power unit.
5. Plug the power unit into a wall outlet. Refer to section 3.0 of this Manual ("Warnings"). PrimaTech Medical Systems recommends the use of the appropriate 2- or 3-prong plug option on the power unit to ensure proper grounding. Be sure the power cord is safely away from possible hazards (eg foot traffic, bed tables, lifters, etc).

6. Turn on the power switch on the control panel of the power unit; the Power LED will illuminate green to indicate the power unit is operating. The power unit will begin to inflate the support surface. Refer to section 9.0 ("Initial Inflation") below.
7. After inflation, adjust the support surface using the dial on the power unit. Refer to Section 11.0 ("Programming Settings").

*NOTE: During installation, an additional fast inflator pump (item # FAST INFLATOR) may be used to rapidly inflate the support surface prior to use by the patient. Fast inflation should be conducted prior to connecting the support surface hose to the power unit (Step 4 above). Fast inflation should never be done with a patient on the support surface.*

## 9.0 INITIAL INFLATION

### Fast inflate with external inflator:

The AiroDyne family of products utilize compressors that are low in air flow to minimize noise, patient disturbances, and energy usage. Therefore, the best way to initially inflate a system is to use the external fast inflator (item # FAST INFLATOR). Once the mattress system has been installed on the bed frame, plug the fast inflator into the wall outlet and connect the hoses of the mattress system to the male/female connector of the fast inflator on the inflate exhaust. Turn the fast inflator on. The fast inflator will fill the mattress in several minutes depending on which model. After inflation with the fast inflator, switch the connectors from the fast inflator to the connectors on the bottom panel of the power unit to begin therapy.

**Normal initial inflation with power unit:**


In the event that an external fast inflator is not available, turn the power unit to the maximum weight setting or to the far right (clockwise). Allow 30 minutes for the system to fully inflate before placing the patient on mattress. Please refer to Section 11.0 (“Programming Settings”).

## 10.0 DEFLATING

Turn off power unit and unplug from wall outlet. Disconnect air hose connectors on bottom panel of power unit. Begin rolling up mattress at head section forcing air out of system. Continue this process until the majority of air is removed from mattress and the mattress rolls up easily. Connect the large clips located on the bottom side of the mattress. Place deflated mattress and power unit in optional carry bag or plastic bag for transport and storage.

The optional fast inflator can also deflate the mattress quickly by moving the supplied adapter to the deflate function. Plug the fast inflator into the wall outlet and connect the hoses of the mattress system to the male/female connectors of the fast inflator. Turn the fast inflator unit on. The mattress will begin to deflate. After deflating the mattress system, disconnect the hoses from the fast inflator. Begin rolling up mattress at head section forcing air out of the system. Continue this process until the majority of air is removed from mattress and the mattress rolls up easily. Connect the large clips located on the bottom side of the mattress. Place deflated mattress and power unit in optional carry bag or plastic bag for transport and storage.

## 11.0 PROGRAMMING SETTINGS

1. After installation and initial inflation is complete, ask nursing staff to place patient onto the AiroDyne surface. Center patient on mattress to avoid accidental falls, etc.
2. Turn power on by flipping switch on the control panel of the power unit. The Power LED will illuminate when power is on.
3. Set patient weight. Patient weight knob is a good reference, but sometimes caregivers will need to alter weight setting to get optimal comfort setting for patients. If patient feels bed is too firm/soft, lower or increase weight setting in small increments and allow system to stabilize before evaluating. Please note that the pressure setting may need to be increased for patients that are in the head up or articulated position.
4. Caregivers should always perform a “hand check” to ensure patients are not bottoming out. A “hand check” should be performed when the patient is on the support surface by placing a hand below the air cells beneath the pelvic area of the patient. Ensure that there is an adequate amount of air supporting the patient, so they are not bottoming out.
5.  When using side rails and/or assist devices, use a mattress thick enough and wide enough so that the gap between the top of the mattress and the bottom of the side rails and the gap between the side of the mattress and the side rails is small enough to prevent a patient from getting his or her head or neck between the mattress and the side rail. Failure to do so could result in injury or death.

## 12.0 PATIENT TRANSFERS IN AND OUT OF BED

Always secure bed before patient transfer. If available, engage locks on the bed casters before transferring patient. Turning up the comfort dial to the maximum setting to firm the system will also assist in making transfers easier.

**⚠ CAUTION:** Always return system to correct pressure setting (adjust the weight dial after transfer on/off is complete to get optimal patient therapy). Caregivers should perform a “hand check” as described in Section 11.0 (“Programming Settings”). Note: The AiroDyne Plus has air bolsters which remain at maximum pressure to make transfers in and out of bed easier.

## 13.0 PATIENT TRANSPORT

When a need to transport a patient arises, the AiroDyne systems have a transport function to hold air in the system for a short period of time. Disconnect the two quick couplers connected to the power unit, and connect them to each other to seal air in the support surface system. Note: The time the system will hold air for transport will vary due to patient weight with a typical time of about one hour. The AiroDyne mattress replacement has a 2” convoluted foam base for additional support after the air deflates.

## 14.0 EMERGENCY CPR DEFLATE

A CPR release is located near the head of the patient. In the event of an emergency, disconnect the CPR cord to deflate the mattress immediately by squeezing the two buttons on the outside connectors and pulling on the release. Note: Certain

models of the AiroDyne have a CPR cord that just needs to be pulled instead of disconnecting. Deflate times will vary according to patient weight. To resume therapy, insert the CPR valve back into the valve block and inflate mattress.

## 15.0 CLEANING INSTRUCTIONS

### Routine Cleaning While in Use By Single Patient:

#### **Mattress:**

Routine cleaning of the air mattress can be done at bedside by cleaning with mild detergent or soap and water followed by drying with a clean dry cloth. If the air mattress cover becomes heavily soiled, replace it with a Genuine PrimaTech Medical Systems cover or follow the Laundry/Decontamination instructions below. Soiled covers should be disposed of following hospital procedures or local environmental laws. Always ensure air mattress and cover are completely dry before allowing patient back on surface.

#### **Power Unit:**

**⚠ WARNING!** Always unplug power unit before cleaning. Power unit can be cleaned by wiping down with damp cloth using soap and water or mild neutral detergent. Never spray cleaners or liquids directly on power unit.


### Laundry/Decontamination Between Patients:

#### **Mattress Replacement:**

Air mattresses/covers must be thoroughly cleaned between patients to avoid cross contamination. The following instructions are a good guideline, but local infection control policies should be followed.

1. Don rubber gloves, eye protection, plastic gown and mask if necessary.
2. Turn power control unit off and remove plug from outlet to avoid electric shock.
3. Any soilage should be removed with disposable paper towels and disposed of properly prior to disinfection.
4. Spray entire cover and mattress replacement with EPA registered hospital grade disinfectant. Let stand for appropriate contact time according to manufacturer's instructions.
5. Cover can be easily removed and laundered in warm water (113°F/45°C) with mild detergent. Tumble dry on lowest setting or hang dry when possible.
6. With mattress air cells deflated, wipe down both sides thoroughly with medical disinfectant. Allow to air dry.
7. Thoroughly wipe down entire mattress base and tubing. If dust or soilage has accumulated, remove using swabs moistened with detergent/disinfectant. Allow all components to air dry. If storing mattress replacement, wrap mattress in plastic or place in PrimaTech Medical Systems carry bag and store in a cool, dry area.

#### **Power Unit:**

1.  *Turn power off and unplug power control unit to avoid shock hazard.*
2. Dampen clean cloth with soap and water or mild detergent. Wipe power unit.
3. Disinfect power unit with hospital grade EPA registered disinfectant. Let stand for appropriate contact time according to manufacturer's instructions.
4. Dry using a clean dry cloth or disposable paper towels.
5. Wrap in plastic and store in a cool, dry area.

## **16.0 ROUTINE MAINTENANCE**

The AiroDyne is NOT user serviceable. The only routine maintenance that can be carried out by the user is cleaning or replacing the air filter. PrimaTech Medical Systems recommends that the air filter should be checked once a month or during service between patients. To access the air filter, locate the air filter cap on the back of the power unit. Refer to Section 7.0 ("Features") of this Manual.


#### **To clean or replace the air filter:**

1. Remove filter from backside of the power unit by twisting off the filter cap and removing the cap with filter from the power unit. Lift the filter cap out of the power unit and inspect the air filter. Note: Some older models require prying off the cap instead of twisting off.
2. Check for excess dirt or dust. The filter should be cleaned with mild soap and water or, if necessary, replaced with a Genuine PrimaTech Medical Systems replacement air filter.
3. Thoroughly air dry before reinserting.
4. To reinsert, place the air filter snugly in the filter cap. Place the filter cap in the opening on the back of the power unit and twist clockwise back into place. Be sure filter cap is secure.
5. Spare filters are available from PrimaTech Medical Systems (item # Airo-FILTER).

## 17.0 TROUBLESHOOTING

| <b>Problem</b>  | <b>Inspection Procedure</b>   | <b>Possible Solutions</b>   |
|---|---|---|
| 1.) Power unit is working, but mattress is not inflating. | 1.1) Be sure air is flowing smoothly through hoses and mattress manifolds. Inspect for cuts or cracks.  | 1.1) Hose(s) or manifolds may need to be moved to avoid kinking or obstruction. If cuts or tears are observed, hose(s) or manifold may need to be replaced.                       |
|   | 1.2) Be sure hoses are properly connected to power unit.  | 1.2) Attach connectors securely into place until you hear them "click".   |
|   | 1.3) Check to see if CPR valve is secure in CPR valve block. When CPR pull is released a white label can be seen that says "CPR OPEN" in black print. | 1.3) Insert CPR valve securely into CPR valve block. It may be necessary to unzip the cover to do so properly.  |
| 2.) Patient is "bottoming out".                           | 2.1) Look at patient weight setting on power unit.  | 2.1) Increase or decrease weight setting by turning dial until adequate pressure setting is achieved.   |
|   | 2.2) Try same procedures as Problem 1 above.  | 2.2) Try same possible solutions as Problem 1 above.  |
| 3.) Power unit is inoperable.                             | 3.1) Verify power cord is securely plugged into wall outlet with power.   | 3.1) Secure plug into wall outlet.  |
|   | 3.2) Verify wall outlet has power.  | 3.2) Plug another appliance into wall outlet to verify wall outlet has power.   |
|   | 3.3) Verify Fuse is not blown.  | 3.3) A power surge may temporarily overload the circuitry. Turn unit off for several seconds. Check the fuse for damage. Re-try turning unit on with normal operating procedures. |
|   | 3.4) Power unit does not respond to possible solutions listed in 3.1 thru 3.3.  | 3.4) Call customer service at 1-800-621-4844.   |

## 18.0 RETURNS FOR SERVICE

 This device is NOT user serviceable. SERVICE AND REPAIR MUST ONLY BE PERFORMED BY AN AUTHORIZED PRIMATECH MEDICAL SYSTEMS TECHNICIAN OR REPRESENTATIVE. All service issues should be referred to your local PrimaTech Medical Systems dealer. All returns to PrimaTech Medical Systems must have a Return Authorization (RA) Number issued by PrimaTech Medical Systems Customer Service. Products must be cleaned and disinfected prior to shipping. Unsanitary or soiled systems will be returned without servicing.

## 19.0 WARRANTY

PrimaTech Medical Systems warrants the AiroDyne systems to be free from defects in materials and workmanship from the date of purchase. The AiroDyne systems are warranted for a period of twelve (12) months.

PrimaTech Medical Systems' standard warranty is extended to the original buyer purchasing the equipment directly from PrimaTech Medical Systems or through its authorized dealers. All warranty periods, where applicable, commence on the date of purchase from PrimaTech Medical Systems.

PrimaTech Medical Systems' sole obligation and liability under this warranty is limited to (at PrimaTech Medical Systems' option) the repair or replacement by PrimaTech Medical Systems' authorized personnel of any parts or assemblies, which upon test and examination by PrimaTech Medical Systems, prove to be defective. This equipment may be returned prepaid to PrimaTech Medical Systems after notification has been given and approval obtained for the return. Please call your PrimaTech

Medical Systems sales representative or Customer Service to arrange for warranty service.

This warranty does not cover normal maintenance such as cleaning, adjustment, or lubrication and updating of equipment or parts thereof. This warranty shall be void and not applicable if the equipment, including any of the parts, is modified without PrimaTech Medical Systems' authorization; is attempted to be repaired by personnel not authorized by PrimaTech Medical Systems; is not maintained in accordance with the prescribed schedule; is used with accessories or parts not authorized; or is damaged due to misuse, mishandling, abuse, negligence, accident, fire, or inadequate packaging by owner for shipment. All reasonable freight charges for valid warranty returns will be reimbursed. PrimaTech Medical Systems makes no guarantee of clinical results.

THE WARRANTY STATED ABOVE (INCLUDING ITS LIMITATIONS) IS THE ONLY WARRANTY MADE BY PRIMATECH MEDICAL SYSTEMS AND IS IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. PRIMATECH MEDICAL SYSTEMS SHALL NOT BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES OF ANY KIND.

*Note: If you have any questions regarding the AiroDyne systems warranties, please call PrimaTech Medical Systems Customer Service at 1-800-621-4844.*

## 20.0 Product Specifications

### Model:

**PT1100**

*Mattress Dimensions:*

80" x 37" x 7"

*Overlay Dimensions:*

80" x 35" x 5"

*Power Unit Dimensions:*

10" x 8.75" x 3.5"

*Power Input:*

AC 100-120 V / 60Hz

*Power Consumption:*

Normal Operation: Max : 8 W

*Power Unit Weight:*

5 lbs

*Power Cord:*

13' SJT #18AWG with hospital grade 3 prong plug


*Fuse Rating:*

T1A/250V

*Operating Ambient Temperature Range:*

60°-90° Fahrenheit

*Electrical Classification:*

- Class I, explosion risk if used in the presence of flammable anesthetics 
- Type BF equipment
- MEDICAL EQUIPMENT, classified with respect to electric shock, fire and mechanical hazards only, in accordance with UL60601-1, CAN/CSA C22.2 No. 601.2
- IPX0, do not immerse power control unit in any liquid or spray any liquids directly on the power control unit. This system is not AP/APG protected
- Continuous operation

*Agency Approval:*

UL+cUL (UL60601-1), EN60601-1

*Electromagnetic Compatibility:*

- Meets EN60601-1-2:1993
- (CISPR 11 Classified as Class A, Group 1 ISM equipment)

*Maximum Weight Capacity:*

325 lbs

**NOTES:**



P R I M A T E C H<sup>TM</sup>  
M E D I C A L S Y S T E M S

*Manufactured for:*

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*PrimaTech Medical Systems*  
6714 N. Classen Blvd  
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