AltaDyne® XT Model 773400A
AltaDyne® XD Model 774200A
Alternating Pressure / Low Air Loss Replacement Mattress System

USER MANUAL

Important: Do not operate the Mattress System without first reading and understanding this manual! Save this manual for future use.

The latest version of this manual can be found online at www.grahamfield.com.
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INTRODUCTION
Use this manual for set-up and operation of the Alternating Pressure / Low Air Loss Mattress System. Read all instructions before using the mattress system. Save this manual for future reference.

INTENDED USE OF THIS DEVICE
The AltaDyne XT / AltaDyne XD Alternating Pressure / Low Air Loss Mattress System is an advanced alternating pressure relief replacement system and low air loss system suitable for the prevention and treatment of up to and including stage 4 pressure ulcers.

Contraindication
⚠️ WARNING: DO NOT use this product in the presence of flammable anesthesia. There is a possible fire hazard when this product is used with certain oxygen delivery equipment.

Use nasal cannula, face mask, or 1/2 length oxygen tent to deliver oxygen in the presence of this product.

DO NOT use a full length oxygen tent that extends past the top surface of the mattress with this product.

IMPORTANT SAFETY PRECAUTIONS
The safety statements presented in this chapter refer to the basic safety information that should be observed by those using the Alternating Pressure / Low Air Loss Mattress System. There are additional safety statements in other chapters or sections, which may be the same as or similar to the following, or specific to the operations.

⚠️ DANGER: Indicates an imminent hazard situation that, if not avoided, will result in death or serious injury.

⚠️ WARNING: Indicates a potential hazard situation or unsafe practice that, if not avoided, could result in death or serious injury.
⚠️ CAUTION: Indicates a potential hazard or unsafe practice that, if not avoided, could result in minor or moderate personal injury.

▲ NOTICE: Indicates a potential hazard or unsafe practice that, if not avoided, could result in product or property damage.

Info: Provides application recommendations or other useful information to ensure that you get the most from your product.

**DANGER**

To reduce the risk of electrocution:

⚠️ DANGER: Always unplug this product immediately after using.

⚠️ DANGER: Do not use this product while bathing.

⚠️ DANGER: Do not place or store this product where it can fall or be pulled into a tub or sink.

⚠️ DANGER: Do not place this product in or drop into water or other liquid.

⚠️ DANGER: Do not reach for a product that has fallen into water. Unplug it immediately.

**WARNING**

To reduce the risk of burns, electrocution, fire, or personal injury:

⚠️ WARNING: Do not leave this product unattended when plugged in.

⚠️ WARNING: Always use close supervision when this product is used by, on, or near children or those who require close supervision.

⚠️ WARNING: Use this product only as intended and described in this manual. Do not use attachments or accessories not recommended by Graham-Field.
⚠️ WARNING: Never operate this product if
  a) it has a damaged cord or plug,
  b) it is not working properly,
  c) it has been dropped or damaged, or
  d) it has been dropped into water.

Return the product to your Graham-Field authorized distributor.

⚠️ WARNING: Keep the cord away from heated surfaces.

⚠️ WARNING: Never block the air openings of this product or place it on a soft surface, such as a bed or couch, where the openings may be blocked. Keep the air opening free of lint, hair, and other similar particles.

⚠️ WARNING: Never drop or insert any object into any opening or hose.

⚠️ WARNING: Connect this product only to a properly grounded power outlet.

⚠️ WARNING: Maximum weight capacity for this product is:
  AltaDyne XT (773400A): 400 lb (182 kg), EVENLY DISTRIBUTED.
  AltaDyne XD (774200A): 800 lb (364 kg), EVENLY DISTRIBUTED.

⚠️ WARNING: Notice for California Customers- California Proposition 65 WARNING: This product contains a chemical known to the State of California to cause cancer and reproductive or developmental harm.

NOTICE

⚠️ NOTICE: The pump can be used only with the accompanying mattress. Do not use it for any other purpose.
### EQUIPMENT SYMBOLS

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>!</td>
<td>Attention! Consult accompanying documents (this manual)</td>
</tr>
<tr>
<td>“BF” symbol</td>
<td>“BF” symbol: Indicates that this product is in accordance with the degree of protection against electric shock for type BF equipment</td>
</tr>
<tr>
<td>Class II equipment</td>
<td>Class II equipment, 2 concentric squares, indicating double insulation</td>
</tr>
<tr>
<td>IPXO</td>
<td>IPXO This equipment has no protection against ingress of water</td>
</tr>
</tbody>
</table>

### PRODUCT DESCRIPTION

The AltaDyne XT / AltaDyne XD offers both low air loss and alternating pressure therapy. The pressure and alternating cycle time are adjustable, in order to maximize therapy and comfort for each individual. The patented cell-in-cell feature is designed to prevent bottoming out in the event of a power failure. The easy-to-operate digital control unit features a lock-out setting designed to prevent changes by unauthorized personnel.

![Pump and Mattress System](image-url)

`mattress
control panel
CPR valves
air tube connector
pump unit`
INSTALLATION

UNPACKING
1. Before unpacking, check for obvious damage to the carton(s) or its contents. If damage is evident, please notify the carrier and your Graham-Field authorized distributor.
2. Remove all loose packing from the carton(s).
3. Carefully remove all components from the carton(s).
4. Inspect all components. If damage is evident, please notify the carrier and your Graham-Field authorized distributor.

PUMP AND MATTRESS INSTALLATION
1. Place the mattress on top of the bed frame; ensure that the foot end symbol faces up at foot end as shown at right. Secure the mattress to the bed by affixing the elastic straps to the bottom bed frame.
2. Fold open the wire hangers on the back of the pump as shown at right.
3. Either hang the pump on the bed's foot end as shown at right, or place the pump on a flat surface easily accessible to the user, caregiver, and / or doctor.

▲ NOTICE: Place the device in a position where the user, caregiver, and / or doctor can access it easily.
4. Connect the mattress-pump air hose quick connector as shown at right; ensure that the connector has clicked securely into place before continuing.

▲ NOTICE: Ensure that the air hoses are not kinked or tucked under the mattress.

⚠️ WARNING: Locate all cords so that they will not be stepped on, tripped over, or otherwise subjected to damage or stress.

⚠️ WARNING: Do not use a household extension cord if the electrical cord does not reach the power outlet. Use of an improper extension cord could result in fire and electric shock. If an extension cord must be used, use a three conductor cord with ground, properly wired, in good electrical condition, and keep it as short as possible.

⚠️ WARNING: Ensure that the local power voltage is appropriate for the pump unit.

5. Plug the power cord into a properly grounded electrical outlet.

**OPERATION**

⚠️ WARNING: Always read operating instructions before use.
CONTROL PANEL FUNCTIONS

<table>
<thead>
<tr>
<th>Control Button</th>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Power</td>
<td>Turns on the control unit. It takes approximately 15 minutes to inflate the mattress.</td>
</tr>
<tr>
<td></td>
<td>Alarm Mute</td>
<td>Enables and disables the audible alarm feature. Press it to silence the audible alarm. The alarm buzzer will sound again after three minutes if the pressure has not yet returned to normal.</td>
</tr>
<tr>
<td></td>
<td>Panel Lock</td>
<td>Locks the current setting to prevent others from changing it. To unlock the panel, press this button and hold it for three seconds.</td>
</tr>
</tbody>
</table>
|              | Low Pressure Indicator | 1. No light: normal condition, mattress is operating properly.  
                           2. Non-flashing yellow light: pressure has not reached the preset setting.  
                           3. Flashing yellow light: low pressure. |
|              | AutoFirm       | For maximum inflation of mattress. All other functions are disabled until this button is pressed again. This mode lasts for 20 minutes, then automatically returns to default setting. |
|              | Static         | Selects non-alternating mode, similar to a regular air mattress. To go back to alternating mode, press this button again.                     |
|              | Seat Inflation | Increases the body zone's pressure above the preset setting, ensuring adequate support for sitting position and getting on or off the mattress. Disable this function when the user is lying down, to prevent excessive pressure at body zone. |
|              | Comfort Range  | Adjusts the comfort level. Use + / - button to increase or decrease level (+ increases level; - decreases level). The mattress has 6 comfort ranges: 1 is the softest, 6 is the firmest. Please consult your physician for the appropriate setting. |
|              | Cycle Time     | Adjusts the cycle time. Use + / - button to increase or decrease cycle time to that desired. (+ increases cycle time; - decreases cycle time). Please consult your physician for the appropriate setting. AltaDyne XT (773400A) cycles between 5, 10, 15, 20 min. AltaDyne XD (774200A) cycles between 10, 15, 20, 25 min. |
OPERATION

Before turning power ON, ensure that air tube connectors and CPR valves are securely fastened.

1. Turn the power switch, shown at right, to the ON position.
2. Press the control panel Power button to start the system.
3. Press the control panel AutoFirm button to activate the AutoFirm function.

*Info: Use AutoFirm mode for the quickest inflation at set-up; AutoFirm mode will last for 20 minutes, then automatically return to the default setting.*

4. The pump will begin delivering air into the mattress. While the mattress is filling, the low pressure indicator (non-flashing yellow LED) will illuminate.
5. When the selected pressure level is reached, the low pressure indicator will de-illuminate.
6. Replace all sheets, blankets, and pillows on the bed.
7. The patient can now lie on the bed. The pressure may now be adjusted to the physician-prescribed setting using the control panel Comfort Range button. The alternating function may now be adjusted to the physician-prescribed setting using the control panel Cycle Time button.
PRESSURE ADJUSTMENT
Generally, a lighter patient will need a lower (softer) setting while a heavier patient will need a higher (firmer) setting, but pressure adjustment must ultimately be based on the patient’s *weight distribution*. A short, stocky person may be the same weight as a tall, thin person, but their settings will not be the same. The mattress should be firm enough to support the patient, yet soft enough so the patient will sink down to eliminate pressure points. Test the pressure by placing four fingers below the mattress under the patient’s buttock area; your fingers should just fit. If the fit is too loose, decrease the setting. If your fingers do not fit well, increase the setting two notches firmer. Wait ten minutes and then check again. You should only have to adjust this setting one time per patient. Please consult your physician for an appropriate setting.

**Comfort range setup**
The user can adjust the mattress pressure level by adjusting the comfort range from 1 to 6: Please consult your physician for an appropriate setting. When the Low Pressure Indicator de-illuminates, the mattress has reached its preset pressure level.

**Alternating function (cycle time) setup**
The user can adjust the alternating cycle time mode as follows. Please consult your physician for the appropriate setting.

   AltaDyne XT (773400A) cycles between 5, 10, 15, 20 min.
   AltaDyne XD (774200A) cycles between 10, 15, 20, 25 min.

**Seat Inflation Function**
The seat inflation function provides extra pressure compensation around the buttocks area for better surface support when the patient sits on, gets on, or gets off the mattress. Disable this function when user is lying down, to prevent excessive pressure around the buttocks area.
LOW PRESSURE AND ALARM FUNCTION
When air pressure is below the preset pressure for a prolonged period of time, the control panel Low Pressure Indicator (yellow LED) will flash and the alarm will sound. Ensure that all connections are secure and correctly fastened per preceding installation instructions. To silence the alarm, press the Alarm Mute button; it will be silent for three minutes but the Low Pressure Indicator will still flash. After three minutes, if the pressure has not yet returned to normal, the alarm will sound again.

Info: If the pressure level is consistently low, check for leakage at air cells or connecting tubes. If necessary, contact your Graham-Field authorized distributor to replace damaged cells or tubes.

QUICK DISCONNECT
To disconnect the device quickly, pull the power plug from the wall connector.

CPR FUNCTION
If CPR must be performed on the patient while the mattress is in use, to immediately deflate the mattress, either:

1. Pull the CPR valves from the mattress in the location of the arrow shown at right,
or
2. Disconnect the quick connector from the pump in the location of the arrow shown at right.
MAINTENANCE

CLEANING

⚠️ WARNING: Ensure that the main power plug is unplugged during cleaning.

Perform the following cleaning procedures before use.

**Pump**: Wipe the pump with a clean, damp cloth and mild detergent, and keep it away from dust. Air dry.

⚠️ NOTICE: Do not use phenolic products or corrosive or powdered cleansers to clean the pump.

⚠️ NOTICE: Do not immerse or soak the pump.

**Mattress**: Wipe the mattress unit with a clean, damp cloth and mild detergent. The mattress may also be cleaned using a 10% solution of sodium hypochlorite (bleach) diluted in water. Air dry all parts thoroughly before use.

⚠️ NOTICE: Do not use phenolic products to clean the mattress.

⚠️ NOTICE: After cleaning, air dry the mattress without direct exposure to sunlight.

GENERAL MAINTENANCE

1. Check main power cord and plug for abrasion or excessive wear.

2. Check mattress cover for signs of wear or damage. Ensure mattress cover and tubes are connected correctly.

3. Check airflow from the air hose connector.

4. Check the air hose connectors for damage.

5. Check the air hoses for any kink or break. For replacement, please contact your Graham-Field authorized distributor.

6. Contact your Graham-Field authorized distributor with any problems.
**Fuse replacement**

*tool needed: small screwdriver*

⚠ **WARNING:** Ensure that the main power plug is unplugged before fuse replacement.

1. If you suspect a blown fuse, disconnect the plug from the wall outlet immediately.
2. Use a small screwdriver to remove the cover of the fuse holder (fuse locations are shown in picture at right).
3. Insert a new fuse of the same rating.
4. Replace the fuse holder cover.

**Air filter cleaning / replacement**

⚠ **WARNING:** Ensure that the main power plug is unplugged before air filter cleaning or replacement.

The air filter is located on the back of the pump. Clean the air filter once per month.

1. Snap out the air filter plate (filter location is shown in picture at right).
2. Remove the air filter. The filter is reusable, if not torn, and can be washed gently with a mild detergent and water. Air dry the filter completely before replacing in pump.
3. Replace filter and plate after filter has dried completely. Replace the air filter more often than once per month if it is gray, torn, or the environment is dirty.
4. Contact your Graham-Field authorized distributor for replacement filters.
**STORAGE**

1. Disconnect the air hose connectors and CPR valves. Ensure that all cells are deflated.

2. Lay the mattress out flat and upside down.

3. Lay the air hose connector on the inner side of the mattress to protect it.

4. Roll from the head end toward the foot end.

5. Stretch the foot-end strap around the rolled mattress to prevent unrolling.

6. Store mattress and pump in a dust-free environment with no exposure to direct sunlight.

▲ **NOTICE:** Do not fold, crease or stack the mattress.
## TROUBLESHOOTING

<table>
<thead>
<tr>
<th>Problem</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power is not ON</td>
<td>Ensure that plug is connected to power.</td>
</tr>
<tr>
<td></td>
<td>Check if fuse is blown.</td>
</tr>
<tr>
<td>Alarm is on (audible &amp; visible)</td>
<td>Check if the connection between pump and hose (quick connector) is secure.</td>
</tr>
<tr>
<td></td>
<td>Check if the CPR connection is secure.</td>
</tr>
<tr>
<td></td>
<td>Check if any air cells have leakage.</td>
</tr>
<tr>
<td></td>
<td>Check if all tubing connections along mattress are secure.</td>
</tr>
<tr>
<td>Patient is bottoming out</td>
<td>Pressure setting may be too low for patient; adjust comfort range 1 to 2 levels higher, wait a few minutes, recheck.</td>
</tr>
<tr>
<td>Mattress becomes too firm and pressure can't be reduced</td>
<td>AutoFirm may have been activated for too long. Release some air by disconnecting the air tube connector, change to preferred comfort level, reconnect.</td>
</tr>
<tr>
<td>Air mattress is loose</td>
<td>Ensure snap buttons and / or mattress straps are securely fastened.</td>
</tr>
<tr>
<td>Air tube connector won't fit into pump</td>
<td>Press handles on both sides of air tube connector. Ensure the connector is tightly secured by listening for &quot;click&quot; while connecting.</td>
</tr>
<tr>
<td>No air produced from some air tube connector air outlets</td>
<td>This is normal, since this system has alternating mode. Air outlets alternate to produce air during their preset cycle time.</td>
</tr>
</tbody>
</table>

Contact your Graham-Field authorized distributor if you are unable to solve your problem after using the above steps.
# SPECIFICATIONS

## Standards

| This pump and mattress system has been independently tested and successfully approved to the following standards | UL60601-1, IEC60601-1-2 |

## For U.S. and Canada only

| 53DG | Medical Equipment: Air Pump with respect to electrical shock, fire and mechanical hazards only in accordance with UL60601-1 and CAN / CSA C22.2 No. 601.1 |

## Pump Specification

<table>
<thead>
<tr>
<th>Pump</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>120V AC 50 / 60 Hz</td>
</tr>
<tr>
<td>Fuse Rating</td>
<td>1A</td>
</tr>
<tr>
<td>Cycle Time AltaDyne XT (773400A)</td>
<td>5, 10, 15 or 20 minutes</td>
</tr>
<tr>
<td>AltaDyne XD (774200A)</td>
<td>10, 15, 20 or 25 minutes</td>
</tr>
<tr>
<td>Air Output</td>
<td>&gt;16 LPM</td>
</tr>
<tr>
<td>Dimensions (L x W x H)</td>
<td>14.4&quot; x 10.5&quot; x 5&quot; (37 x 27 x 13 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>9.9 lb (4.5 kg)</td>
</tr>
<tr>
<td>Environment Temperature</td>
<td>Operation: 50°F to 104°F (10°C to 40°C)</td>
</tr>
<tr>
<td>Storage: 14°F to 122°F (-10°C to 50°C)</td>
<td></td>
</tr>
<tr>
<td>Shipping: 14°F to 158°F (-10°C to 70°C)</td>
<td></td>
</tr>
<tr>
<td>Humidity</td>
<td>Operation: 30% to 75% non-condensing</td>
</tr>
<tr>
<td>Storage: 10% to 90% non-condensing</td>
<td></td>
</tr>
<tr>
<td>Shipping: 10% to 90% non-condensing</td>
<td></td>
</tr>
<tr>
<td>Atmosphere</td>
<td>10.15 psi ~ 15.37 psi (70 kPa ~ 106 kPa)</td>
</tr>
<tr>
<td>Classification</td>
<td>Class II, Type BF, Applied Part: Air Mattress Not suitable for use in the presence of a flammable anesthetic mixture IPX0, enclosed equipment without protection against ingress of water Continuous operation</td>
</tr>
<tr>
<td>Mattress</td>
<td>Specification</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td><strong>Dimensions (L x W x H)</strong></td>
<td></td>
</tr>
<tr>
<td>AltaDyne XT (773400A)</td>
<td>78.7&quot; x 35.4&quot; x 8&quot;</td>
</tr>
<tr>
<td></td>
<td>(200 cm x 90 cm x 20.3 cm)</td>
</tr>
<tr>
<td>AltaDyne XD (774200A)</td>
<td>78.7&quot; x 42&quot; x 10&quot;</td>
</tr>
<tr>
<td></td>
<td>(200 cm x 106.7 cm x 25.4 cm)</td>
</tr>
<tr>
<td><strong>Arrangement</strong></td>
<td></td>
</tr>
<tr>
<td>AltaDyne XT (773400A)</td>
<td>20 x 8&quot; cells</td>
</tr>
<tr>
<td>AltaDyne XD (774200A)</td>
<td>20 x 10&quot; cells</td>
</tr>
<tr>
<td><strong>Material</strong></td>
<td></td>
</tr>
<tr>
<td>Cover</td>
<td>Quilted top sheet</td>
</tr>
<tr>
<td></td>
<td>Slip-resistant bottom mat</td>
</tr>
<tr>
<td></td>
<td>Top cover fabric: Nylon PU (vapor permeable, fluid resistant)</td>
</tr>
<tr>
<td>Cells</td>
<td>Nylon PU</td>
</tr>
</tbody>
</table>
LIMITED WARRANTY

SCOPE OF WARRANTY
GF Health Products, Inc. (“GF”) warrants to the original purchaser only that it will replace or repair components, at GF’s sole discretion, that are defective in material or workmanship under normal use and service. All warranties are conditioned upon the proper use of the products strictly in accordance with good commercial practice and applicable GF instructions and manuals, including proper use and maintenance. To the extent that a component is warranted by a third party, GF conveys all of its rights under that warranty to the original purchaser, to the extent permitted. This limited warranty shall only apply to defects that are reported to GF’s customer service team within the applicable warranty period and which, upon examination by GF or its authorized representative, prove to be a warranty item. This limited warranty is not transferable.

The warranted components and time period are set forth below:
Control unit ....two years
Mattress ............one year

The applicable warranty period shall commence from date of shipment to the original customer, unless there is an expiration date on the component in which case the warranty shall expire on the earlier of warranty period or the expiration date.

OBTAINING WARRANTY SERVICE
A GF Customer Service Representative must authorize warranty service. Please contact the GF Customer Service department by calling 678-291-3207, sending a fax request to 770-368-2386 or by e-mailing a request to cs@grahamfield.com. Specific directions will be provided by the Customer Service Representative. Failure to abide by the specific directions will result in denial of the warranty claim.

EXCLUSIONS
The warranty does not cover and GF shall not be liable for the following:
1) Defects, damage, or other conditions caused, in whole or in part, by misuse, abuse, negligence, alteration, accident, freight damage, tampering or failure to seek and obtain repair or replacement in a timely manner;
2) Products which are not installed, used, or properly cleaned and maintained as required in the official manual for the applicable product;
3) Products considered to be of a non-durable nature including, but not limited to: casters, filters, fuses, gaskets, lubricants, and charts;
4) Accessories or parts not provided by GF;
5) Charges by anyone for adjustments, repairs, replacement parts, installation or other work performed upon or in connection with such products which are not expressly authorized in writing, in advance, by GF;
6) Any labor or shipping charges incurred in the replacement part installation or repair;
7) Costs and expenses of regular maintenance and cleaning; and
8) Representations and warranties made by any person or entity other than GF.

ENTIRE WARRANTY, EXCLUSIVE REMEDY AND CONSEQUENTIAL DAMAGES DISCLAIMER
THIS WARRANTY IS GF'S ONLY WARRANTY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. GF MAKES NO IMPLIED WARRANTIES OF ANY KIND INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

IF ANY MODEL OR SAMPLE WAS SHOWN TO THE CUSTOMER, SUCH MODEL OR SAMPLE WAS USED MERELY TO ILLUSTRATE THE GENERAL TYPE AND QUALITY OF THE PRODUCT AND NOT TO REPRESENT THAT THE PRODUCT WOULD NECESSARILY CONFORM TO THE MODEL OR SAMPLE IN ALL RESPECTS.

THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE DEFECTIVE PARTS. GF SHALL NOT BE LIABLE FOR AND HEREBY DISCLAIMS ANY DIRECT, SPECIAL, INDIRECT, INCIDENTAL, EXEMPLARY OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO: DAMAGES FOR LOSS OF PROFITS OR INCOME, LOSS OF USE, DOWNTIME, COVER, OR EMPLOYEE OR INDEPENDENT CONTRACTOR WAGES, PAYMENTS AND BENEFITS.

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For additional information on this product or this warranty, please contact a GF Customer Service Representative.

NOTES:
1) Additional terms and conditions may apply.
2) Freight claims must be notated on the Bill of Lading and must be made with immediacy. The ICC regulations govern specific requirements for freight claims. Failure to abide by those regulations may result in a denial of the freight claim. GF will assist you in filing the freight claim.
3) Claims for any short shipment must be made within thirty (30) days of the invoice date.

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