

**GAYMAR®**

# **AIRE•TWIN™**

## **Alternating Pressure and Low-Air-Loss Therapy Mattress Replacement Systems**

- ATC80 AireTwin Control Unit
- ATM500 AireTwin 5" Air Flotation Mattress
- ATM800 AireTwin 8" Air Flotation Mattress
- ATW5000 System including Control Unit and 5" Air Flotation Mattress
- ATW8000 System including Control Unit and 8" Air Flotation Mattress



## **Operator's Manual**

# **Aire•Twin Mattress Replacement System Operator's Manual**

## **Important**

Before using an Aire•Twin System, please read and understand this manual and all safety precautions prior to each application.

Only qualified medical service personnel should attempt to repair this device. For assistance contact your local dealer. If additional assistance is needed, contact Gaymar's Technical Service department.

Direct: (716) 662-2551 Option 2

Toll Free: (800) 828-7341 extension 739

Fax: (716) 662-8795

## **1.0 Warranty**

The ATC80 Control Unit is warranted free of defects in material and workmanship for a period of one (1) year.

The ATM500 Mattress is warranted free of defects in material and workmanship for a period of one (1) year.

The ATM800 Mattress is warranted free of defects in material and workmanship for a period of one (1) year.

The Control Unit and Mattress are warranted under the terms and conditions of the Gaymar warranty in place at the time of purchase. A copy of the warranty is available upon request. Gaymar disclaims all implied warranties including, but not limited to, the implied warranties of merchantability and of fitness for a particular purpose.

## **2.0 Symbols**



Attention, consult accompanying documents



Class II, double insulated equipment



Type BF equipment



Dangerous voltage



Protective earth ground



Latex Free

## 3.0 Indications for Use

This device is intended to assist in treating and preventing pressure ulcers.

## 4.0 Contraindications

Air support treatment is not recommended when spinal stability is a concern.



## 5.0 Safety Precautions

Review the following SAFETY PRECAUTIONS prior to using an Aire•Twin System.

### DANGER

Risk of electric shock. Refer servicing to qualified service personnel.

### WARNING

- Disinfect the Aire•Twin system between patient installations. Failure to disinfect may risk cross-contamination and infection.
- Check patient at least every 8 hours to assure proper system operation.
- Disconnect the AC power from the wall outlet before attempting to clean the Control Unit. Do not heat or steam autoclave any component of the system.

### CAUTION

- Some medical conditions may not respond to treatment of this type. Patient's skin condition should be inspected regularly. Consult physician if any redness or skin breakdown occurs.
- For grounding reliability, plug only into a properly grounded outlet.
- Use minimal layers of sheeting and incontinence pads. Too many layers between the patient's skin and the support surface will reduce the effectiveness of the system.
- Do not pull linens tightly over mattress. Tight sheets can cause "hammocking" and reduce effectiveness of treatment.
- Portable and RF communications equipment can affect medical electrical equipment.
- Make certain all mattress straps are secured to the bed frame to prevent mattress from sliding and causing patient injury.
- The Aire•Twin mattress is not intended to be AND DOES NOT FUNCTION AS a patient fall device. SIDE RAILS MUST BE USED WITH THE AIRE•TWIN MATTRESS TO PREVENT PATIENT FALLS, unless determined unnecessary based on the facility protocol or the patient's medical needs determined by the facility. IN SUCH CASES THE USE OF OTHER SUITABLE PATIENT SAFETY MEASURES ARE RECOMMENDED. When using side rails, the use of side rail pads is strongly recommended. Failure to use a side rail pad may result in patient injury.
- During mattress set-up, insure that all mattress air cells are inflated and that air cells are secured to the mattress base with the snaps located on each side of the air cell. Air cells not properly secured or inflated may result in compromised therapy.
- Insure that the Aire•Twin mattress properly fits the bed frame on which it is being placed. Using the Aire•Twin mattress on a larger than 35 inch wide bed frame may result in mattress sliding and patient injury.

# Aire•Twin Mattress Replacement System Operator's Manual

## 6.0 Description

An Aire•Twin System is a portable air flotation system with alternating pressure and low-air-loss. It is designed to provide benefit to patients suffering from or at risk of developing pressure ulcers. The system, consisting of a Control Unit (ATC80) and an Air Flotation Mattress with a cover (ATM800) or top sheet (ATM500), is designed to provide pressure management and patient comfort.

### Control Unit

The Aire•Twin Control Unit, ATC80, inflates and maintains the ATM500 or ATM800, providing alternating pressure and low-air-loss. Non-alternating pressure therapy can also be selected by pressing the "Static" switch. The Pressure Control Knob allows the firmness of the mattress to be adjusted for patient comfort.

### Air Flotation Mattress

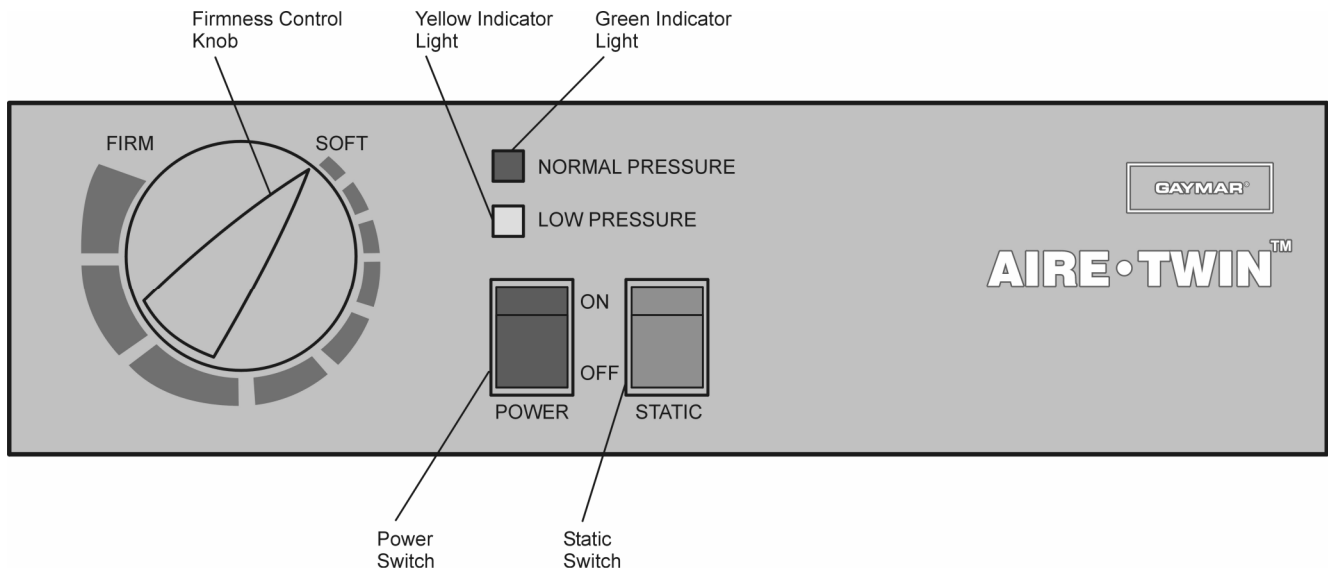
The Aire•Twin Air Flotation mattresses consist of individual transverse air cells designed for maximum support and pressure distribution.

The **ATM500** mattress measures 80" x 36" x 5" (203cm x 91cm x 13cm) when fully inflated. The air cells are constructed of Nylon/PVC. The top sheet snaps securely to the air cell assembly along head and foot ends. The mattress has end flaps to secure it in place on a bed mattress.

The **ATM800** mattress measures 80" x 36" x 8" (203cm x 91cm x 20cm) when fully inflated. The air cells are constructed of Polyurethane. The mattress cover zips completely around the mattress perimeter. The cover is quilted with spun bonded polyester fiberfill. The cover has straps to hold it securely to the bed frame.

## 7.0 Control Panel

1. LIGHTED ON/OFF switch
2. FIRMNESS CONTROL knob adjusts for patient comfort
3. INDICATOR LIGHTS indicate mattress has reached normal pressure (green light) or that full inflation has not been reached (yellow light).
4. STATIC MODE switch turns off alternating pressure.



# Aire•Twin Mattress Replacement System Operator's Manual

## 8.0 Instructions for Use

1. Place control unit on a flat surface or suspend on end of bed using attached hooks.
2. Aire•Twin set up:

### ATM500

The ATM500 can be used as a mattress and placed directly on a bed frame, but it is recommended that the ATM500 be placed on a top•gard® 5" foam mattress replacement or other similar foam pad. Secure the end flaps of ATM500 in place on the foam mattress.

### ATM800

Place the mattress on the bed frame with air hoses at the foot end of the bed; attach mattress to bed frame with straps.

3. Connect the quick-connect couplings of the mattress air hoses to the mating connectors located on the side of the Control Unit. Check that the hoses are secure by gently pulling. Ensure the hoses are not kinked or tucked under the mattress.
4. Ensure that the power switch is in the OFF position. Plug the power cord into properly grounded outlet.
5. Turn the control unit ON. Set pressure knob to FIRM for each initial inflation. Mattress inflation will begin. The yellow light indicates that the mattress is not yet fully inflated. The green light will automatically light up when the appropriate pressure is reached. The ATM500 will take approximately 30 minutes for complete inflation. The ATM800 will take approximately 35 minutes for complete inflation.
6. Apply hospital linens and/or incontinence pad over the top of the mattress. Linens should be loose to prevent "hammocking".
7. If alternating pressure is not desired, press the STATIC switch.
8. When green light indicates appropriate pressure is reached, place the patient on the mattress. Adjust the Pressure Control knob to the lowest possible setting while maintaining hand check clearance outlined in Step 9.
9. Perform a hand check.

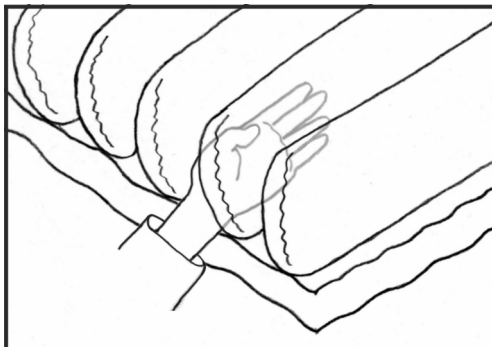
A hand check must be performed every 8 hours to ensure that the mattress is properly inflated.

To perform the hand check:

**ATM500:** Unsnap top sheet.

**ATM800:** Unzip cover at the side of the bed as necessary to access the air cells.

Using a vertical hand, slide hand between the air cells directly underneath the patient's sacral area. Slide hand under the patient. If four fingers of clearance exist, no adjustment is needed.



If you can feel the patient's body resting on your hand, adjust the pressure control to a higher setting. Wait 10 minutes and repeat the hand check. If the hand check fails, check that the hoses are not kinked or pinched. If repeated hand check fails and hoses are not kinked, contact Dealer or Gaymar for further instruction.

## WARNING

Check patient at least every 8 hours to assure proper system inflation.

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## **9.0 CPR (Cardio Pulmonary Resuscitation)**

To deflate mattress for CPR:

1. Disconnect the quick-connect couplings of the mattress hose from the Control Unit. Mattress will begin deflating.
2. Proceed with CPR procedures after deflating mattress for 20 seconds.
3. If desired, a CPR board can also be used, but is not required for effective CPR.

## **10.0 System Cleaning**

### **WARNING**

Disconnect the AC power cord from the wall outlet before attempting to clean the Control Unit. Do not heat or steam autoclave any component of the system.

#### **Mattress may be hand washed, laundered or dry-cleaned:**

- **Hand wash:** Wipe down mattress with soap, cold water and a clean cloth. Wipe dry with a clean, dry cloth or hang to dry. Do not bleach. Do not use abrasive cleaners.
- **Launder** in warm water under 40°C. Do not bleach. Hang to dry.
- **Dry-clean:** Mattress cover can be dry-cleaned.

Note: Blood and other bodily fluids must be thoroughly cleaned before applying disinfectants.


**To disinfect mattress:** Use an alcohol, iodine or phenolic-based disinfectant.

#### **Control Unit Cleaning:**

Wipe down control unit and power cord with soap, water and a clean cloth. Apply disinfectant, such as 10% chlorinated bleach solution to the entire control unit outer surface.

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### **11.0 Specifications, Control Unit**

Specification	ATC80
Enclosure Dimensions	11" x 5.5" x 3.5" (28cm x 14cm x 9cm)
Weight	3.3 lb (1.5 kg)
Power Cord	15' (4.6 M) #18 AWG minimum, with ground
Overcurrent Protection	Primary 1A, 250V
Input	120 VAC, 60Hz, 1.0A
Operating Ambient Temperature Range	50 to 95°F (16 to 35°C)
Classification	Class I grounded equipment not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide.
	Type BF equipment 
	UL60601-1, CSA C22.2
	IPX0, enclosed equipment without protection against ingress of water.
	Continuous operation
Electromagnetic Compatibility	Meets EN60601-1-2:2003

**GAYMAR®**

10 Centre Drive  
Orchard Park, New York  
14127-2295  
USA

[www.gaymar.com](http://www.gaymar.com)  
Phone

1 800 828-7341  
716 662-2551

Fax  
1 800 993-7890  
716 662-0748

In Canada contact:  
Waterloo Bedding Company, Ltd.  
825 Trillium Drive  
Kitchener, Ontario, N2R 1J9

Phone  
1 800 203-4293  
519 742-4447  
Fax  
519 742-3699