



Ruby 8

Alternating +
Micro Low Air Loss Pressure Relief System

User Manual



Distributed by: Quart Healthcare Inc.
www.quarthealthcare.com

User Manual – Ruby 8



Warning

- ❖ Connect the Master Control unit to a proper power source
- ❖ Do not use the system in the presence of any flammable gases (such as Anesthetic Agents)
- ❖ Keep the pump and mattress away from sources of liquid and open flames
- ❖ Keep mattress away from sharp objects
- ❖ The device is not AP/APG protected
- ❖ Keep mattress system away from heating devices

Caution

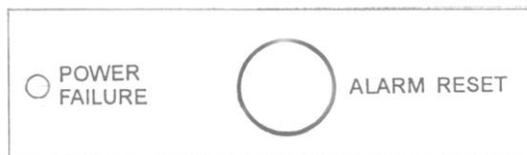
- ❖ Consult clinical instructor before use of mattress
- ❖ Support surfaces should always be used in conjunction with a care plan that includes the turning/repositioning of the patient over a 24 hour period
- ❖ The control unit should only be repaired by an authorized distributor
- ❖ Do not drop the control unit or store it in direct sunlight or extreme cold conditions

1. Product Description

The Ruby 8 system is a unique and innovative specialized mattress replacement unit. It features a patented 8-shape twin cell design; whereby, the bottom half of the cell is always inflated and the top half is free to alternate. The system utilizes micro low air loss technology with a low rate of flow. The advanced 3:1 alternating function also provides active prevention for pressure relief, especially for those in acute care and long term care settings (the cells inflate and deflate in a 3:1 cycle, meaning 2/3rds of the body is always supported at any one time). The soft-firm adjustment allows the patient to adjust the firmness or softness of the surface for optimal comfort. The surface also has 2 inches of enclosed convoluted foam to provide extra protection and comfort for the patient.

Control Unit Features (pump)

- Alternating time is set at a non-adjustable 7-minute cycle time. The caregiver can select the “Static Function” stopping the alternating function and providing only micro-low air loss therapy
- Power failures produce an audio alarm for added safety. The alarm can be disabled by pushing the ALARM RESET Button on the front panel



- Double insulation provides near silent operation
- The foot board mounting rack provides convenient placement for the control unit on the bed

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Master Control Unit

Model No	FC-QHI0059
Size (cm)	32(L)x12 (W)x23(H)
Weight (Kg)	3
Phase Time (min)	5 ~30
Rated Voltage	100~120 volt
Max Current	0.2 Amp
Rated Frequency	60 Hz
Protection Type	Class II, Type BF
Mode of Operation	Continuous
Safety Standard	UL/CSA

Mattress Replacement Features

- Individual air cushion design for maximum pressure distribution
- Air cells are vented to provide micro air loss therapy
- Centre air cells are vented to provide micro low air loss therapy

Model No	FM-QHI0002
Size (cm)	89(W)x203(L)x24(H)
Weight (Kg)	20 Kg
Cells Material	Nylon w/ PU backing
Cover Type	Zipper cover with removable foam base
Cover Material	Nylon woven fabric w/ PU coating finish
Base Material	Woven Polyester fabric w/ PVC backing
Cells Number	18 cells

- Optional foot rest copes with a variety of heights and prevents patient sliding

Alternating System

2. Instructions for Proper Use

- i) Remove the existing mattress from the bed frame
- ii) Replace the standard mattress with mattress replacement system (orient mattress so that the air tube is at the foot of the bed)
- iii) Secure straps beneath the mattress to the bed frame
- iv) Hang the control unit on the foot board of the bed frame
- v) Attach the air tube connectors to the socket on the left panel of the control unit
- vi) Verify that air hoses are not kinked under the mattress
- vii) Attach cover to mattress
- viii) Plug in the control unit and turn on the master power switch on the front panel
- ix) After the mattress is fully inflated, the caregiver can transfer the patient to the mattress

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Static Function: Push the ALTERNATE/STATIC switch to STATIC mode and adjust the comfort control by turning the pressure control knob. On this mode the system provides only low air loss therapy. Perform a hand check by placing hand under the patient's buttocks between the cells and foam. The patient should have at least 4 cm of clearance between the buttocks and the bottom of the mattress.

Dynamic Function: Push the ALTERNATE/STATIC switch to ALTERNATE mode to enable the 3:1 alternating function.

CPR Deflation: For quick mattress deflation disconnect the hose connector from the controller and release the CPR quick deflation valve.

Cleaning

The mattress should be cleaned on the bed weekly using a damp soft cloth and mild detergent. If the top or bottom cover becomes severely soiled remove, clean as follows and replace with a clean cover. Covers can be washed and thermally disinfected in a washing machine. **(Never use phenol based cleaning solutions)**

Industrial cleaning

Break wash	cold	10 min
Main wash	60C	6 min
Main wash	70C	10 min
Extraction		2 min
3 cold rinses		
Extraction		5 min

Domestic cleaning

Pre-wash	cold	
Main wash	70C	10 min
Extraction		2 min
Cold rinses		
Extraction		5 min

TUMBLE DRYING OR TUNNEL DRYING IS NOT RECOMMENDED

Mattress cells can be wiped with a solution of sodium hypochlorite 1000ppm or any other non-phenolic germicidal solution.

* The control unit should also be cleaned weekly using a damp soft cloth and mild detergent **(Switch off the electrical supply to the pump and disconnect the power cord from the main supply before cleaning and inspection)**

The Pump: The casing of the pump is manufactured from ABS plastic. If soiled it can be wiped down with a sodium hypochlorite solution to dilution of 1000ppm or any EPA approved, hospital grade disinfectant. **(Do not use phenol based cleaning solutions)**

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3. Storage and Care

Control Unit:

- Check the power cord and plug for abrasions and excessive wear
- Plug in the unit and verify air flow from the hose connection ports
- Place in plastic bag for storage

Mattress Replacement System

- Check the air manifold for kinks or breaks. Replace if necessary
- Twist open the CPR plug at the head of the mattress and disconnect the air feed tubes. All of the air will be expelled. Starting at the head of the mattress roll towards the foot of the bed. Use the base mounted straps to secure.
- Place the system in a plastic bag for storage.

It is recommended that the following guidelines are used whenever the system is being stored or transported to another location:

Temperature limitations	-10C to 40C
Relative humidity	30% to 95%

4. Maintenance and Troubleshooting

No daily maintenance is required. This equipment should only be serviced by authorized technical personnel. In case of minor problems refer to the following:

Symptom	Inspection Procedure	Possible Solution
The air is flowing out from the control unit but the mattress is not inflating	<ol style="list-style-type: none"> 1. Is the power source correct? Improper voltage may cause the pump to function abnormally and damage the control unit. 2. Do the air tubes allow smooth airflow? Is an air tube kinked? 3. Is there any air leakage from the air cells? 4. Is there any air leakage from air tube between mattress and control unit? 5. Has the air tube connector been connected properly? 	<ol style="list-style-type: none"> 1. Use power regulator. 2. Adjust the air tubes to enable smooth air flow. 3. Replace with new air cells 4. Replace with new air tubes 5. Re-connect the air tubes.
The Control Unit is not working	<ol style="list-style-type: none"> 1. Check the power cord and the power voltage. 2. Check the fuse 	<ol style="list-style-type: none"> 1. Use a power regulator 2. Replace with a new fuse
Some air cells have abnormal low air pressure while the air pressure for other air cells is normal	<ol style="list-style-type: none"> 1. Is the connection between air cells and the manifold kinked? 2. Is there any air leakage from the air cells? 	<ol style="list-style-type: none"> 1. Adjust the connection between cells and manifold 2. Replace with a new air cell.

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5. Warranty

- Quart Healthcare Inc. guarantees that this equipment is free from defects in materials and workmanship. Our obligation under this warranty is limited to the repair of equipment returned to the place of purchase within 24 months of delivery date
- We agree to service/adjust any equipment returned, and to replace or repair any part that is proven to be a warranty defect, at no charge
- This warranty excludes equipment damage through shipping, tampering, improper maintenance, carelessness, accident, negligence or misuse, or products that have been altered, repaired or dismantled other than with the manufacture's written authorization and by its approved procedures and by properly qualified technicians
- In no event shall Quart Healthcare Inc. be liable for any direct, indirect or consequential damages or losses resulting from the use of equipment