iQ™ MEDICAL

Stellar® FiC Hybrid / Core® FoC Hybrid and Multi-Hybrid Pump

USER MANUAL

Contents

General Information

A. Introduction

This iQ Medical User Manual includes information on, and instructions for, the iQ Medical MULTI-HYBRID PUMP which can be used with the STELLAR® Foam-in-Cell (FiC) HYBRID MATTRESS or the CORE® Foam-over-Cell (FoC) HYBRID MATTRESS. The information in this user manual also relates to the bariatric versions of the STELLAR®(FiC) HYBRID and the CORE® (FoC) HYBRID.

The iQ Medical HYBRID range provides highly effective, reliable mattress systems for individual at very high risk of developing pressure-related injury in Hospitals, in Community Care facilities, or in their own home. These systems are intended to be used in conjunction with an overall programme of care for the prevention or management of pressure ulcers.

Users should familiarise themselves with the information and instructions in this manual to ensure that the HYBRID mattress systems are used safely and effectively to achieve posiitve individual outcomes.

Indications:
The IQM STELLAR® FiC HYBRID MATTRESS System and the BARITRIC STELLAR® FiC HYBRID MATTRESS SysteM is suitable for individuals assessed to be at ‘very high risk' of developing pressure ulcers.

The IQM CORE ® FoC HYBRID MATTRESS System and the BARITRIC CORE ® FoC HYBRID MATTRESS System is suitable for individuals assessed to be at ‘very high risk' of developing pressure ulcers.

These Pressure Area Care (PAC) devices are intended to prevent and manage pressure ulcers by facilitating blood circulation and decreasing pressure at each tissue contact area.

They can be used safely in a static mode (without pump) for pressure reduction, or used in dynamic mode (with addition of pump) should an alternating pressure support surface be required.

Always consult a Healthcare Professional before using this mattress system, to ensure it is the most appropriate system to meet the individual's care needs.

Contraindications:
Certain patient conditions (e.g. spinal instability or fracture) are contraindicated for use with this device. Always consult a Healthcare Professional before using this device. A full patient assessment should be carried out.

B. Symbols Reference

 Follow instructions for use

 Class II Equipment

 Type BF Applied Part

 WEEE Logo subject to WEEE Directive 2012/19/EU

 Declaration of Conformity to Medical Device Directive

 Catalogue number

 WARNING or CAUTION

 Authorized representative in the European Community

IP21 In accordance with the acceptance conditions as required by IEC 60529_ v2.2:2013

 Date of manufacture

 Manufacturer Name and Address

C. Safety Precautions

Installation:
Verify that the mattress is used with an appropriately sized bed frame. Inspect and verify that the mattress is correctly positioned on bed frame with the foot symbols at foot end. Test all bed frame functions to verify no interference with the function of the mattress. Do not place anything on top of the power unit. Route power cable through the cable management conduit (only applies to certain models) and verify that this is free from any potential hazards.

Bed Linens:
These mattress systems incorporate a waterproof cover that is vapour permeable. Therefore, it is recommended to limit bed linen to one sheet, loosely tucked in, to maximize the system's performance.

NOTE: Only "breathable" continence pads are recommended for use with these mattresses or the use of fitted pad and pants, where possible.

Open Flames:
Do not expose the mattress system to open flames, lighters, or cigarettes. The mattress pump draws room air continuously, therefore, cigarette smoking is not recommended as it may cause damage to internal components. Cigarettes may ignite bed linens.

CAUTION: DO NOT SMOKE CIGARETTES, PIPES, CIGARS, OR ANY OTHER RELATED PRODUCTS ON OR AROUND THESE MATTRESS SYSTEMS. FLAMMABILITY HAZARD EXISTS.

D. Warnings

Cross Contamination:
These mattress systems should be cleaned in between all individual installations. Failure to disinfect may result in cross contamination and infection risks.

Weight Limitation:
Verify that the individuals weight, therapeutic support surface, bed rails, etc. do not exceed the weight capacity of the bed frame. Verify the individual's weight does not exceed the PAC systems weight capacities. Refer to Table 1 on page 13.

Entrapment:
Please ensure that the HYBRID mattress and bed frame are compatible and dimensions are appropriate to prevent any entrapment of the individual, between the mattress and the side rail. In addition, compete a falls risk assessment. Failure to do so could result in serious injury to the individual. Full risk assessments and consideration should be carried out with regards to standard BS EN60601-2-52: 2010

Risk of Falls:
Failure to use bed rails in raised position could lead to accidental falls.

Risk of Electric Shock:
This device should only be opened by qualified personnel approved by iQ Medical. Refer all service requirements to your iQ Medical.

Oxygen Equipment:
Explosion risk if used in the presence of flammable aesthetics.

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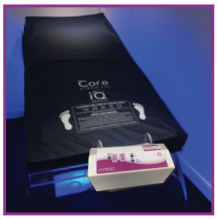
Quick User Guide for Core and Stellar Hybrid Mattress Systems

This is a quick user guide for IQ Medical's Core and Stellar Hybrid Mattress Systems.
Also applicable for Core and Stellar Bariatric.

1



Place Hybrid Mattress on bed frame.

2

Run the mains cable through the cable management conduit, if applicable and plug into mains socket. Connect mains cable to pump.

3

Connect the air tube to pump via connector (an automatic click will signify a secure connection).

4

Switch the pump on via the POWER Button on Control Paneel.

5

POWER LED will show green.
If using CORE Hybrid, ensure CORE Hybrid FoC LED is flashing.
Is using STELLAR Hybrid, ensure STELLAR Hybird FiC LED is flashing.

6

When correct pressure is reached, the SERVICE LOCK (either STELLAR or CORE) LED will stop flashing and remain constant. This signifies mattress has reached required pressure.

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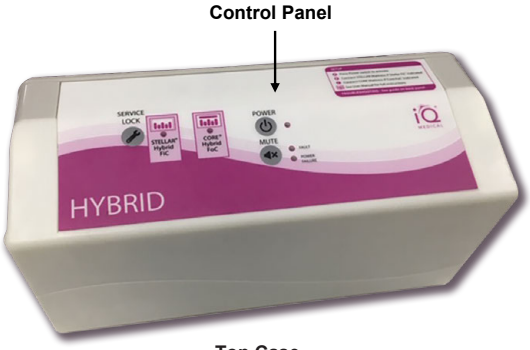
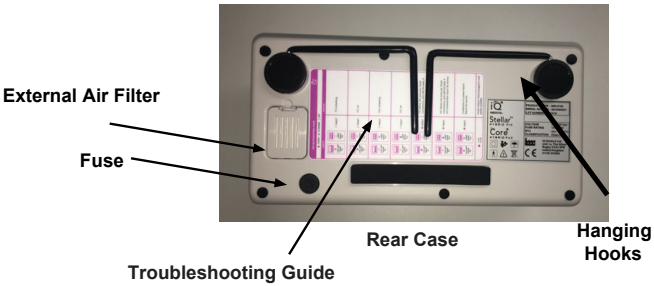
Power Unit

A. Part Identification Overview





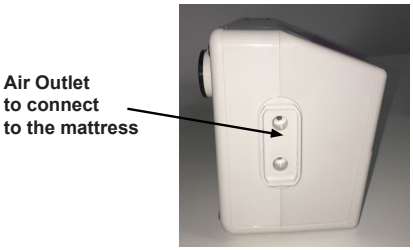
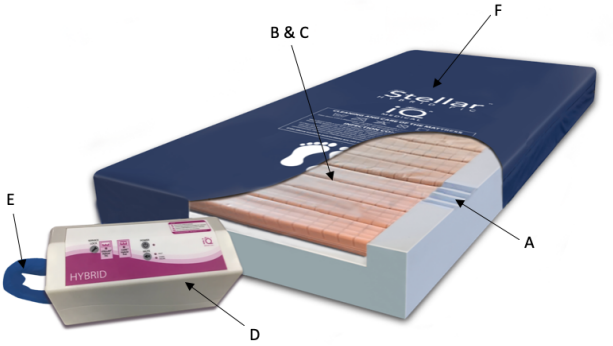


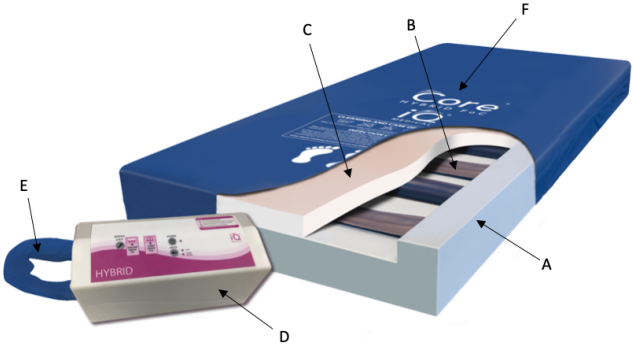
Fig: 1

Mattresses

B. Part Identification Overview



STELLAR® FiC HYBRID



CORE® FoC HYBRID

Fig: 4

A	U-shape, non-castellated base layer
B	Alternating air cells
C	Castellated foam insert
D	Multi-Hybrid Pump
E	Air Tube Set
F	Multi-stretch, vapour permeable cover

C. Setting Up and Switching On the Power Unit

1. Place the STELLAR® or CORE® Hybrid Mattress on the bed frame.
2. Hang the pump from the foot end of the bed frame using the adjustable hanging bracket.
3. Connect the correct mattress to the pump using using the two-pin air outlet connector.

Unzip cover and ensure all cells are in correct position and air tubes are connected.

4. Plug the power cable into the side of the pump and connect the opposite end into a mains socket.
5. Switch the pump on via the power button on the control panel.
6. Power light will show and corresponding SERVICE LOCK Setting will flash during initialisation and inflation period.
7. SERVICE LOCK light will stop flashing once the system has reached required pressure.

Ensure the appropriate mattress is connected depending on whether the STELLAR® Hybrid FiC or CORE® Hybrid FoC is indicated. If wrong mattress is indicated on the pump, please remove product from use and contact iQ Medical for assistance.

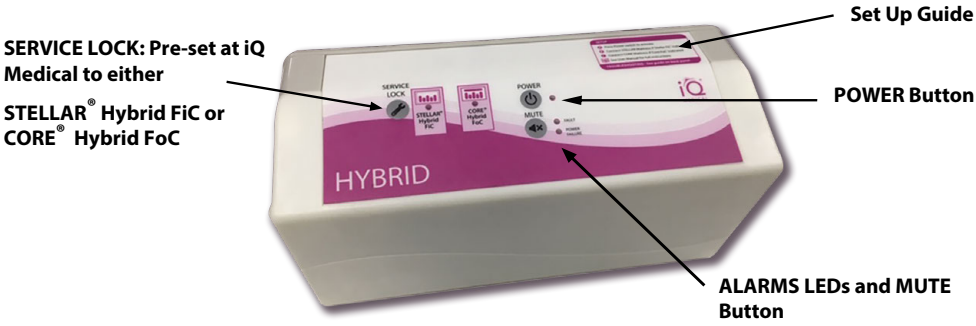


Fig: 3

Cleaning Instructions

The following guidelines are the recommended cleaning and decontamination instructions for IQ Medical's Dynamic PAC Mattress and Seating Systems.

Note: Before undertaking cleaning, we recommend that you wear suitable protective clothing. Always ensure that the mains power supply to the pump unit has been disconnected from the mains electricity supply before cleaning begins.

Mattresses/Cushions
Remove mattress or cushion cover and check for signs of physical damage and delamination.

If no signs of physical damage or delamination, cover may be wiped down with a disposable soft cloth moistened with a pH neutral detergent diluted in warm water (40°C).

For decontamination purposes, the cover may be wiped down with a solution of Sodium Hypochlorite or similar (minimum 1000ppm up to 10,000ppm Chlorine). Wipe down again with cold water and dry thoroughly before use.

Alternatively, cover may be laundered at a recommended temperature of minimum 71°C (local policies may apply).

Additional infection control and routine cleaning must be carried out in accordance with your local infection control policy.

Pumps
The pump may be wiped using a cloth moistened with pH neutral detergent and warm water.

For decontamination, follow this procedure by wiping with a cloth impregnated with a solution of sodium hypochlorite diluted to 1000 PPM, or equivalent, disinfectant.

DO NOT USE Phenol based cleaning agents (e.g. Stericol, Hycoline, Clearsol etc.), Abrasive Compounds or Cleaning Pads when cleaning mattresses or pumps. If the above washing instructions are not followed the warranty will be invalidated.

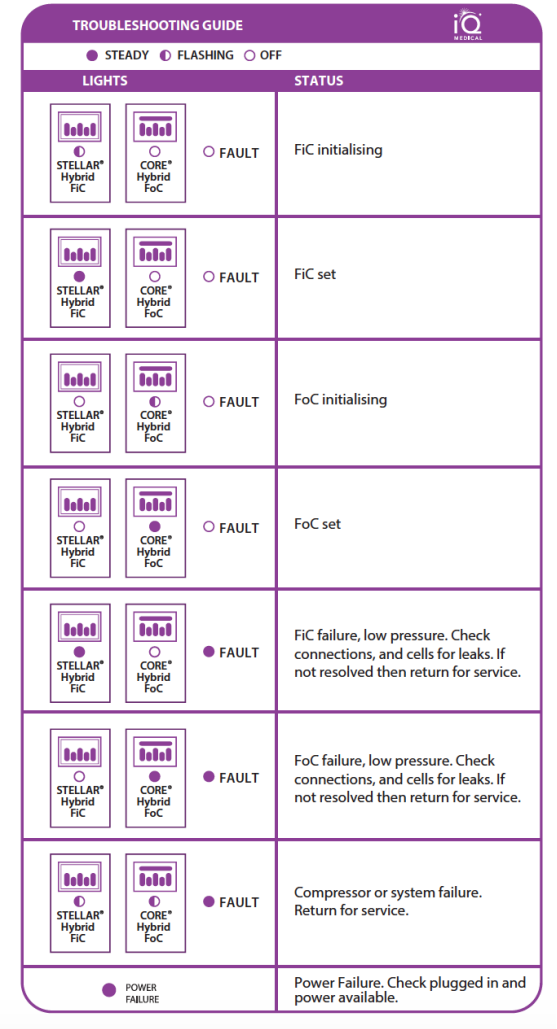
Always unplug the power unit before cleaning. Routine cleaning of power unit can be done by wiping down with damp cloth using disinfectant and water or mild neutral detergent.

Never spray liquids directly on the unit itself.

Additional Information

iQ MEDICAL HYBRID SPECIFICATION	Core Hybrid FoC System	Core Hybrid Bariatric FoC	Stellar Hybrid FiC System	Stellar Hybrid Bariatric FiC
Risk Category	Very High	Very High	Very High	Very High
Max User Weight (Powered)	250kg	380kg	250kg	380kg
Cells	10	10	14	10
Cell Cycle	1 in 2 (10 minutes)	1 in 2 (10 minutes)	1 in 2 (10 minutes)	1 in 2 (10 minutes)
Foam Over Cell (FoC)	✓	✓	×	×
Foam in Cell (FiC)	×	×	✓	✓
Width (mm)	900	1200	900	1200
Length (mm)	2000	2000	2000	2000
Depth (mm)	150	200	150	200
Weight of Mattress	14.0kg	19.0kg	14.0kg	19.0kg
Weight of Pump	1.7kg	1.7kg	1.7kg	1.7kg
Fault Alarm	✓	✓	✓	✓
Power Failure Alarm	✓	✓	✓	✓
Easy Grip Handles	Optional	Optional	Optional	Optional
Cable Management	Optional	Optional	Optional	Optional
CPR Emergency Deflation (Pump)	✓	✓	✓	✓
Multi-stretch, vapour permeable high comfort cover	✓	✓	✓	✓
Profiling 'flexi-foam' edges	✓	✓	✓	✓
Specifically designed foam sections for the head, body and feet	✓	✓	✓	✓

Troubleshooting



Problem	Inspection Procedure	Possible Solutions
1. Power unit does not function or POWER FAILURE light illuminates and alarm sounds.	Check if mains cable is firmly plugged into mains socket.	Secure mains cable into wall outlet.
	Check if power is switched on via Power Button on control panel.	Turn power switch to ON position.
	Check if mains cable is connected into IEC socket on pump.	Secure mains cable into IEC socket.
	Make sure there is no power failure or power cut.	Use Transport mode if no power available.
	Power unit does not respond to possible solutions.	System can only be used in static mode. Do not use system if a dynamic surface is needed. Please return for service.
2. FAULT light and corresponding SERVICE LOCK light illuminate and audible alarm.	Verify the air tube connectors are connected to the pump properly.	Connect CPC connectors to pump.
	Unzip mattress cover and inspect air cells. Check all air cells are connected correctly.	Remove system from use. Please return for service.
	Check if there is leakage in air tubes or air cells.	Remove system from use. Please return for service.
	System does not respond to possible solutions.	Remove system from use. Please return for service.
3. FAULT light illuminates and both SERVICE LOCK lights flash. Audible alarm sounds.	Possible control failure.	Remove system from use. Please return for service.
	Possible compressor failure.	Remove system from use. Please return for service.
4. Mattress not inflating or holding pressure.	Unzip mattress cover and inspect air cells. Ensure that air cells are not twisted and are sitting correctly in the U-Core.	Check and adjust cell positions.
	Verify that comfort level setting is correct.	Adjust the comfort level setting until appropriate pressure is reached.
	Inspect air filter for dust or dirt.	Clean or replace air filter.
	Unzip mattress cover and inspect air cells. Check all air cells are connected correctly.	Make sure all air cells are properly linked to air supply.
	Unzip mattress cover and tube set. Check if air tubes are kinked or obstructed.	Check and adjust air tube positions. Please return for service.
	Unzip mattress cover and inspect air cells. Check if air cells are punctured or split.	Remove system from use. Please return for service.
	Possible control failure.	Remove system from use. Please return for service.

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