Premium model

PEARLS™ Innovative Care

We care. We create.

Synergie

PEARLS™ is the leading-edge model for Air-Fluidised Care (AFC). Valued for its technological advancements, it has clinical benefits with a wide variety of uses. PEARLS™ is designed to fit the human body perfectly and is able to bear more weight.

Features

PEARLS™ has a contemporary design and incorporates solutions based on user feedback from earlier models marketed. It has improved process characteristics which benefit clinical performance and differentiates itself due to the possibilities to mobilize patients.

Shaped to fit

The wider dimensions of the upper bead section create space for the (larger) patient to fit in the AFC without the elbows resting on the edge.

Adjustable height

The frame is adjustable in height, which allows caregivers to choose their preferred working position improving their workplace ergonomics.

State of the art cooler/dryer

The air flow processing is equipped with an upgraded active cooler to control the continuous ventilation around the patient's wounds even at excessive room climates.

Adjustable air flow for mobilization

Infinite or programmed options for increasing and decreasing the air flow intensity support the patient's mobilization therapy during recovery.

Detachable control unit

A control unit that can be detached from the bed unit during therapy or if it needs to be replaced without disturbing the patient.

COMFORT air flow increase

A temporarily increase of air flow for easy repositioning of the patient while nursing. Activated by a foot pedal and automatic return to the original air flow intensity.

LED under bed night light

Provides just enough light during the nighttime to see the AFC's contour while checking the patient. Additional light is not necessary.

Integrated decontamination (optional)

Cleaning and disinfection of the glass beads is possible without the need to remove the glass beads from the device. It guarantees prevention of cross infection between patients.

Accessories (optional)

A full set of accessories is available to complete the system for a wide variety of uses.

Datasheet

Principle properties

- Silicone coated medical glass beads of 70-140µm, 550 kg (1212.54 lbs)
- High pH-value (9-11) of the medical glass beads to minimize bacteria growth
- Generously proportioned multifilament or monofilament mesh 35□m polyester cover
- Ultra-low interface pressure for different body types and positions

Process specifications

- Temperature range adjustable from 30°-38°C (86°-100.4°F), differential +/- 1°C (1.8°F)
- Adjustable fluidisation intensity
- Electronic controlled cooler to adapt to different room climates
- Surface level adjustment system for horizontal floor adaption to ensure even fluidization
- Detachable control unit for use up to 6 meters (236.22”) distance
- One-sided, easy to access control unit with 2 CPR-buttons
- Visual and audible alarms/alerts with mute function

Optional features

- Integrated decontamination system
- Pulsating fluidisation intensity program for patient mobilization

Optional accessories

- Trapeze with triangular patient support pole
- Traction support set with IV pole
- Corner bumpers
- Extension hose for detached use of the control unit, incl. remote CPR
- Manually adjustable backrest
- Adjustable footrest
- External weighing scale (integrated in patient lift)
- PANTASCOPE™ mirror system to enable the immobile patient to communicate

Consumables

- Filter sheet, permeability 35 microns in different fabrics and dimensions
- Silicone coated medical glass beads in 25 kg (55.12 lbs) packing
- Air filter (F9 class)

Technical data

- Rated voltage therapy: 230V AC/50Hz or 120V AC/60Hz
- Rated power consumption therapy: 1700VA (230V AC)/ 1900VA (120 VAC)
- Maximum current therapy: 7.8A (230V AC) / 15.8A (120V AC)
- Rated voltage decontamination: 220-240V AC 50/60 Hz
- Rated power consumption decontamination: 3000VA
- Maximum current decontamination: 13A (230V AC)/ 13.5A (220V AC)
- Optimal climate conditions for proper functioning: 25-30°C (77- 86°F), RH55%
- Hour counters for clinical and technical registrations
- Sound level at patient position: 54 dB(A)

Mechanical data

- Glass fiber reinforced outer tub and full AISI316 inner section for clean environment
- Exchangeable control unit for easy service in case of a technical disturbance
- Bed provided with swivel castors for easy transportation, 2 castors provided with a central brake and 2 with straight direction option
- Control unit provided with castors for easy transportation

Dimensions and weights

- Low position: 91 cm (35.82”)
- High position: 122 cm (48.03”)
- Overall length: 253,5 cm (99.80”)
- Maximum width: 115 cm (45.28”)
- Head elevation range: 10° – 55° (optional)
- Bed frame ground clearance: 18,3 cm (7.20”)
- Castor size: 16 cm (6.3”)
- Max width of the bead section: 111 cm (43.70”)
- Min width of the bead section: 89 cm (35.04”)
- Length of the bead section: 240 cm (94.49”)
- Empty weight complete AFCS: 410 kg (903.89 lbs)
- Control unit: 110 kg (242.51 lbs)
- AFCS filled with glass beads: 960 kg (2,116.44 lbs)

Patient range

- Patient weight: 15 – 150* kg (33 – 330* lbs)
- Maximum patient height: 210 cm (82.68”)

* conditional to clinical circumstances

Safety features

- Protected against an over temperature of 40°C (104°F) and higher: audible and visible alarm, deactivation of all functions
- Protected against overload of air compressor, condensing unit and heating
- Audible and visible alarm of >3°C (>5.4°F) deviation of set temperature
- Auto re-start of therapy after power break
- Strict protocol for decontamination starting procedure (authorized staff only)
- Temperature and pressure sensor with incorporated detection to indicate possible defect(s)
- CPR function

Safety standards

- Approved for IEC60601
- Certified QMS for ISO13485:2016

Synergie®

Get in touch

Sterrekroos 6
4941VZ Raamsdonksveer
The Netherlands

+31 (0)162 570055
+31 (0)162 677227

email: info@synergiecare.com
website: www.synergiecare.com