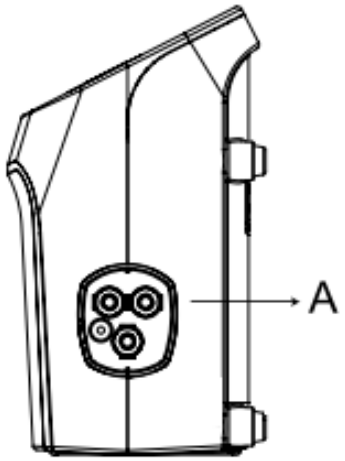
carilex®
Advanced Clinical Solutions

ENVELOP

Envelop Pump

Fully automatic anti-decubitus mattress replacement system equipped with pressure sensors and battery backup. For high risk and bariatric patient up to Stage IV

Envelop Pump – Right & Left Side Panel



Right Side Panel Features

Right Side Panel Features

(A) CPR Connector

Quick release connector used to secure mattress air hoses to power unit.

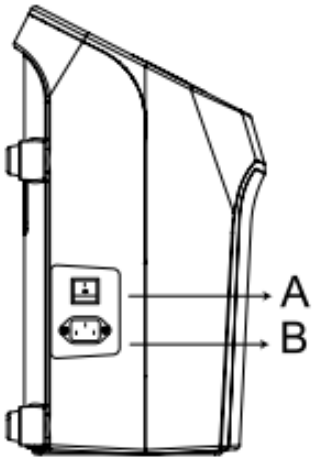
Left Side Panel Features

(A) Rocker Switch

Power unit's main power switch.

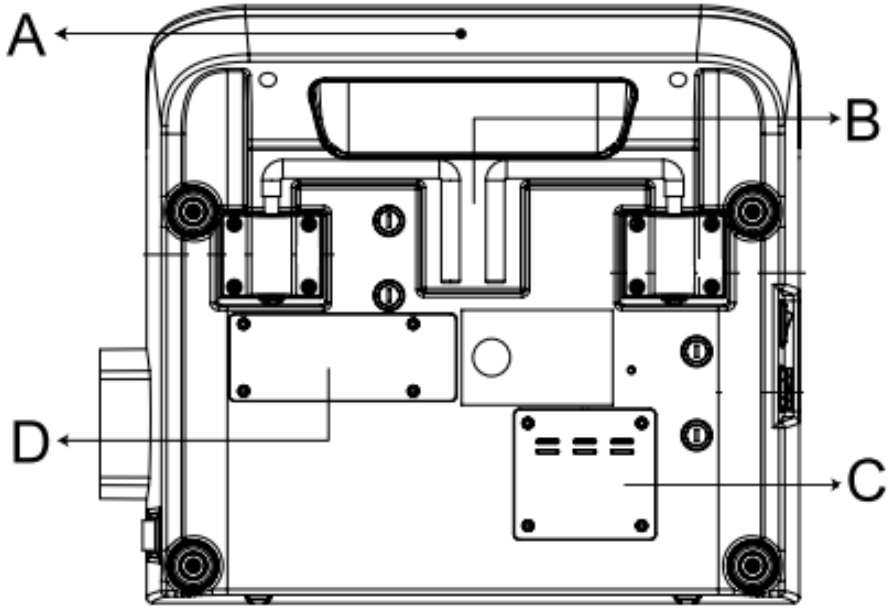
(B) Power Receptacle

Insert power cord firmly into receptacle.



Left Side Panel Features

Envelop Pump - Rear Panel



Rear Panel Features

Rear Panel Features

(A) Convenient Handle

Provides additional gripping surface for user to carry power unit.

(B) Hanging Hooks

Designed to hang power unit on almost any footboard.

(C) Air Filter and Filter Cap

Carilex recommends the filter to be inspected and cleaned or replaced once a month to ensure optimal performance of the power unit.

(D) Battery Compartment

Allows for easy access for battery replacement. Also includes socket used for upgrading software/firmware.

Remove the battery pack when unused for long periods of time.

Brief Product Specification

Product Specification

Individual ART. No.
Power Unit.....S2003-3
Mattress.....S2003-2
Coverlet.....S2003-A

Power Unit
REF SR 388
Power Input..... AC100 - 240V / 50 - 60Hz
Power Consumption.....Max. 60W

Dimension
Power Unit.....37.5 x 32 x 18.5cm
Mattress set (inflated).....35.5" x 83" x 10"

This power unit is not AP/APG protected.

Material
Power Unit.....ABS fire retardant UL
Mattress Cell.....100% nylon with TPU lamination
Coverlet.....Quilted nylon

Weight
Power Unit.....8kg
Mattress Set.....10kg

Operating & Transportation & Storage Conditions
Temperature.....5 ~ 40°C
Humidity.....15 ~ 60%

Maximum Weight Capacity.....450 kg / 1,000 lbs
Product Compliance.....EN60601-1, EN60601-1-2

Unique Envelop S.M.A.R.T. Technology

The Future of Pressure Ulcer Management:
Self Monitoring Automatic air Regulating Technology

S.M.A.R.T™

Smart and advance technology that is not found in competing products. It is the future of pressure ulcer management.

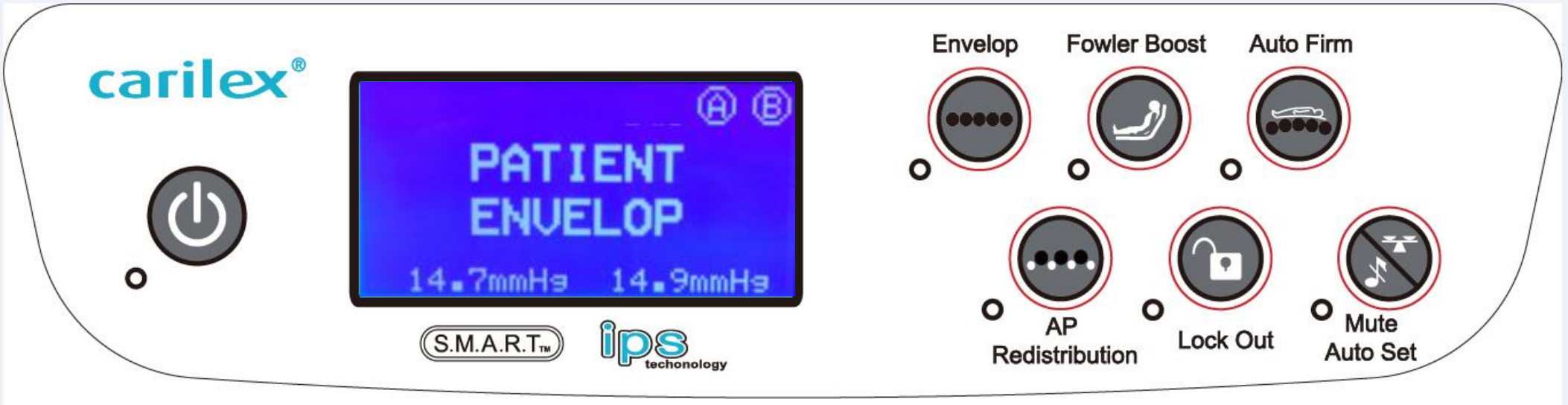
Maintains the optimal internal pressure by using separate electronic pressure sensors and sophisticated micro-processing algorithms to determine the patient load on the mattress surface.

Automatically monitors and regulates the internal pressure to continuously optimize the patient's pressure relief and comfort.

Relief pressure and provides step-less internal pressure adjustment. Uses the mattress as a direct sensor pad, which eliminates the need for extra underlying sensor pad.

Treat and prevent pressure ulcer for standard and bariatric patients up to stage IV.

Envelop Panel Layout



- **Auto Firm**
  Quickly inflates the mattress maximum internal pressure for transferring patients or other care needs. Press the button again to restore the original setting or it will disable automatically after 20 mins if unattended.

- **Mute/Auto Set**
  Disable the audible indicator or perform system auto setting by pressing the button.

Envelop Function Introduction

- **Envelop**

  Static function provides superior immersion for maximum pressure relief and therapy.

- **AP Redistribution**

  AP Redistribution provides alternating therapy in addition to immersion.

- **Lock Out**

  The touch screen automatically locks after 3 minutes of inactivity, disabling all function buttions except “Mute”. Press and hold “Lock Out” for 3 seconds to release the lock. function

- **Fowler Boost**

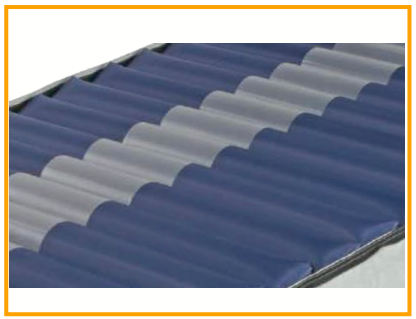
  Fowler Boost adds pressure to the seat section of the mattress when mattress is in the upright position to prevent the patient from “bottoming out”. Fowler Boost must be turned off when the patient is laying down to avoid improper pressure setting.

Envelop Mattress

Directional Snaps Prevent Air Cells from Pulling Apart

Transportation Plug, Together with Battery Backup, Provide Longer Inflation During Transport or Power Outage

Rapid Deflation CPR



Square Air Cells Help Prevent Gaps Between Cells and Increase Immersion

Brief Mattress Specification

- **Envelop Mattress**

  - Available Dimensions:
    - Standard: 36” x 80” x 10”
    - Standard Long: 36” x 83” x 10”
    - Bariatric: 48” x 80” x 10”
    - Bariatric Expandable Long: 36”-42”-48” x 83” x 10”
  - Weight Capacity: 1,000 lbs
  - 8” air cells with 2” static air chamber

Envelop Mattress Features

Envelop Mattress

Twenty one individual 8-inch high square air cells
provide superior immersion for pressure relief and therapy, combined with a sealed, 2-inch air pad base for added protection in case of power outage.

Square air cell design
provides added comfort and pressure redistribution while patient is lying down and gives additional safety and security for egress/ingress.

Weight capacity
for patients up to 660lbs / 300kg.

Zoned system
includes static head section for extra relief and specialized air cells in heel section for comfort and superior pressure redistribu-tion.

Unique directional snaps
connect air cells to mattress base, which delivers increased structural stability and safety, and prevents air cells from accidental-ly detaching and deflating.

Securely fastened
protected zipper makes coverlet easy to remove for laundering and replacement.

Cross contamination prevention
through enhanced mattress base

Quilted nylon coverlet
high quality waterproof and vapor permeable for skin protection and patient comfort

Convenient transport plug
allows mattress to stay inflated for approximately two hours after being detached from power unit. (Intended for transport purposes.)

Modular air cell construction
for easy cleaning, repair, and replacement.