



Domus 4

**APEX**

# Domus series

Pressure Redistribution System

Care for a Healthy Life

**APEX**

# About APEX

Honesty • Innovation • Profession



Established in 1990, Apex Medical Corporation, the most famous support surfaces product manufacturer in Asia and a leading company in the medical care industry of Taiwan.

APEX provides a range of healthcare solutions, manufacturing and delivering products from support surfaces, continuous positive airway pressure devices (CPAP) to medical equipment for providing full line products. APEX now markets its products in 60 countries around the world. With our total devotion to healthcare, APEX has earned global recognition and praise from European and US medical organizations and authorities.



## Core Competitive Advantages



### Powerful R&D Team

Create more than 100 patents and is developing exclusive devices for different markets.



### Quality Assurance with Regulatory Certification

ISO13485, US FDA 510(K), EU CE MDD93/42EEC, and several world-class safety certifications for product specification.

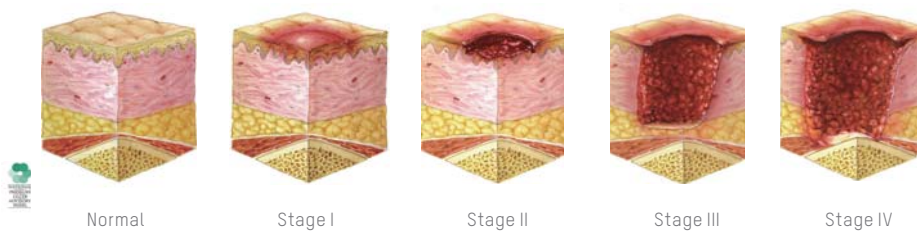
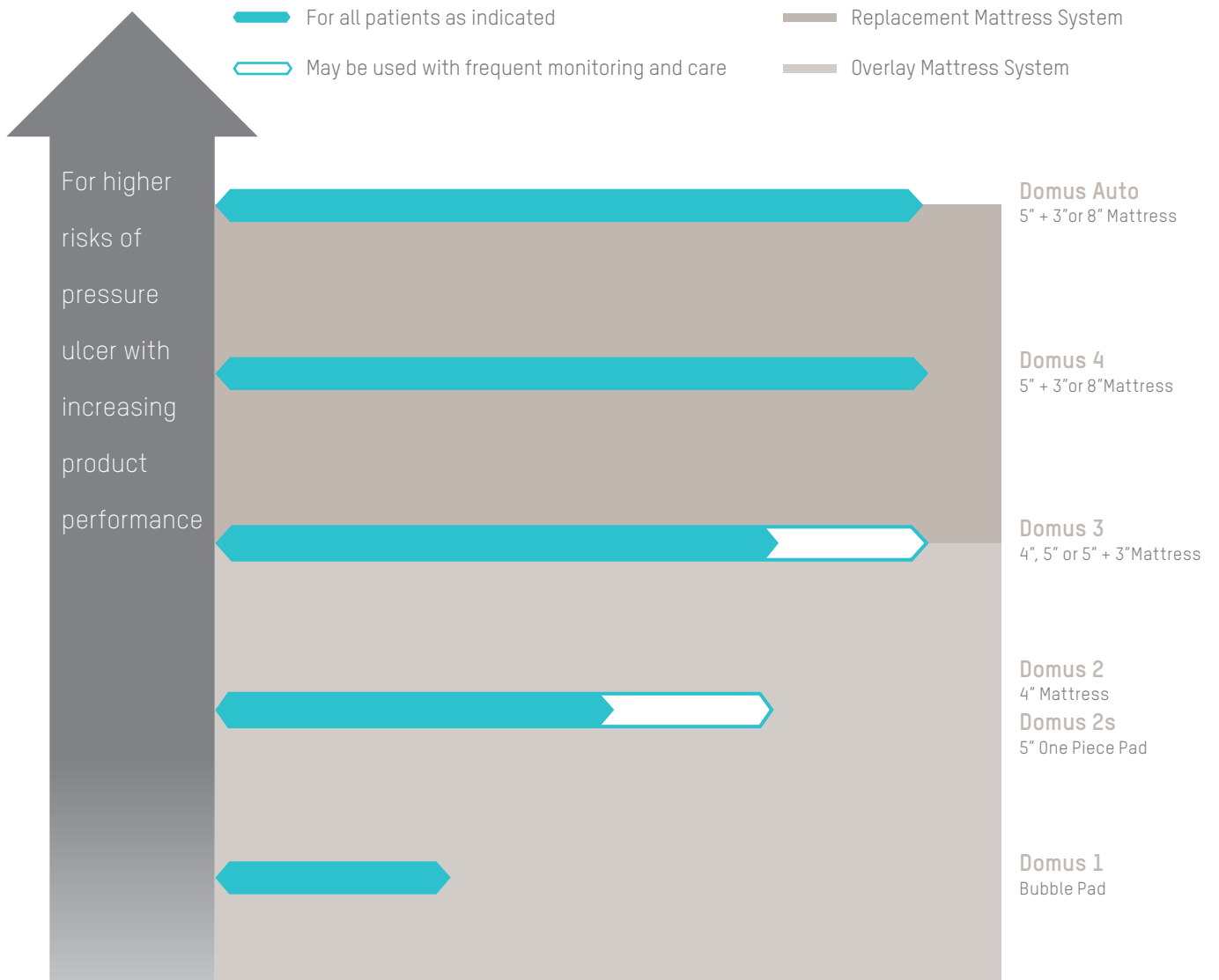


### Global Service Network

Have subsidiaries in Spain, France, UK, USA, China, Thailand and India with offices in Egypt, providing customers with localized real-time support.



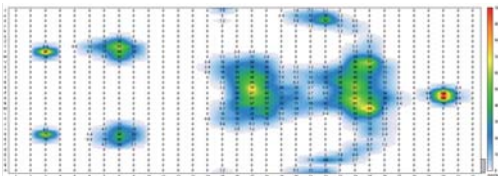
# Product Selection Guide



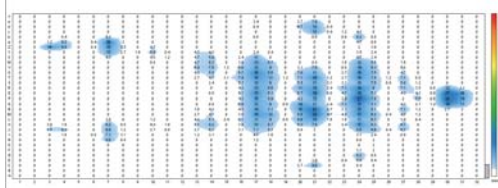
\*All staging guide images are from National Pressure Ulcer Advisory Panel (NPUAP).

Domus is a series of therapeutic support surfaces designed for a wide range of conditions from prevention to treatment of pressure ulcer. With evidence-based development, each Domus model is verified by Dynamic Pressure Mapping Test to trace real-time internal pressure between the mattress and body to ensure the effectiveness of pressure redistribution to offload the pressure occurring in the deep tissue.

Normal Mattress



Domus



**Auto Adjustment**  
Automatically adjust the internal pressure of the air cells in response to individual body weight, distribution and posture, maintaining high level of comfort and optimal pressure redistribution and relieving the burden of caregivers.



**Alternate Mode**  
Continuously and sequentially inflate and deflate air cells to mimic natural sleep movement patterns and avoid long term pressurization of tissue, while stimulating blood circulation.



**Static Mode**  
Attempt to address areas of high contact pressure by redistributing the body mass over a greater surface area through a process of immersion.



**Seat Inflate Mode**  
Offers additional increase in the pressure of the whole mattress to have better support especially on the sacrum area.



**Max Firm Mode**  
Other than inflating a new mattress, Max Firm feature is normally used to stabilize the mattress for nursing procedure. After 20 minutes in Max Firm Mode, Domus 4 will revert to Alternate Mode and Domus Auto will be back to previous setting.



**Low Pressure Alarm**  
To notify caregivers if there is a situation of inadequate pressure condition.



**Power Failure Alarm**  
To notify caregivers if there is a situation of power loss or cable unplugged.



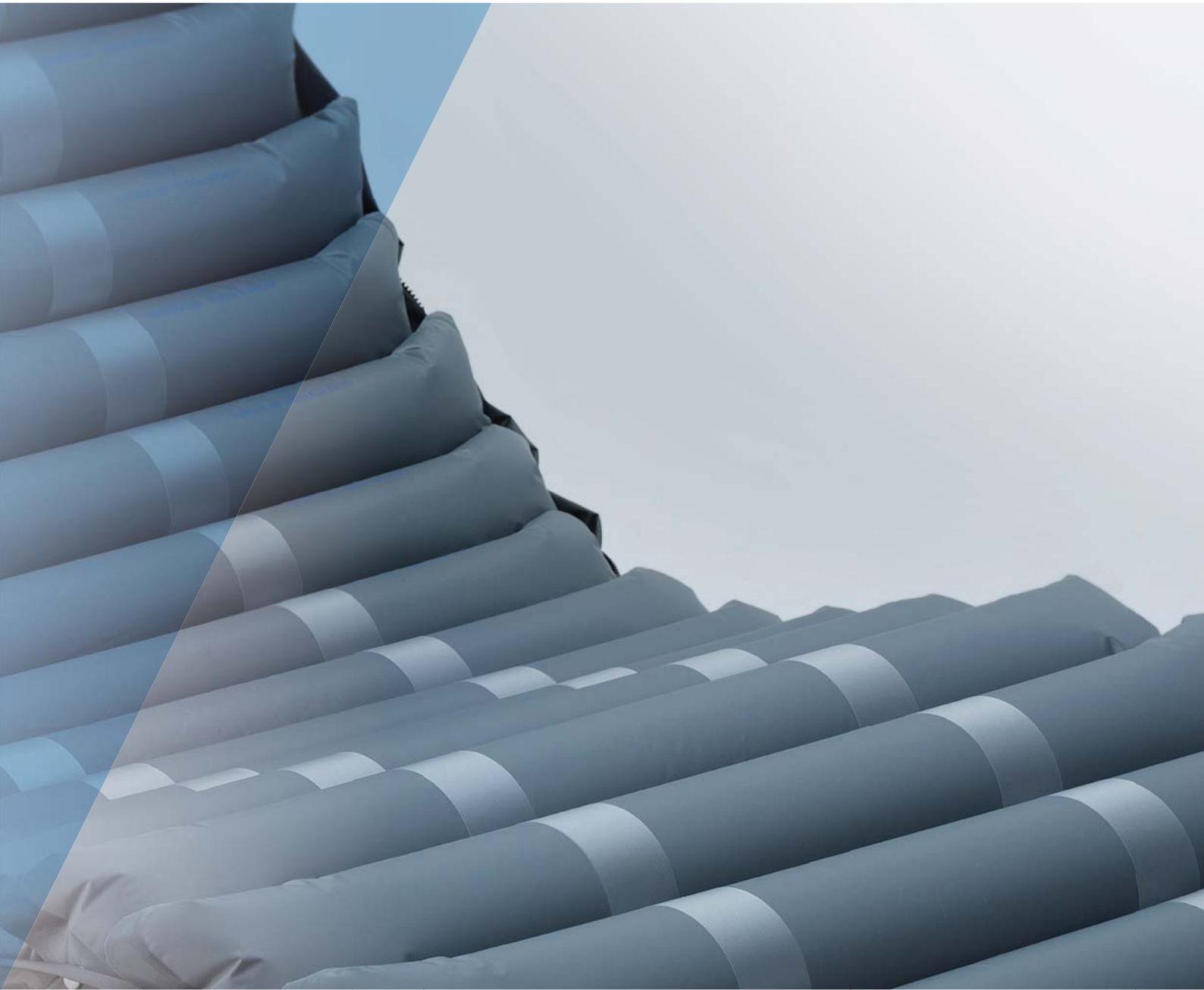
**Tech Support Alarm**  
To notify caregivers when the system needs to be repaired by technicians.



**Panel Lock**  
Automatically lock the panel in order to prevent unauthorized change of settings.

Features Overview

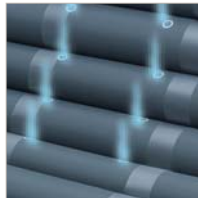
Product Name	Domus 1	Domus 2s	Domus 2	Domus 3	Domus 4	Domus Auto
Auto Adjustment	—	—	—	—	—	●
Alternate Mode	●	●	●	●	●	●
Static Mode	—	—	—	●	●	●
Max Firm Mode	—	—	—	—	●	●
Seat Inflate mode	—	—	—	—	●	●
Low Pressure Alarm	—	—	—	●	●	●
Power Failure Alarm	—	—	—	—	●	●
Tech Support Alarm	—	—	—	—	●	●
Alarm Mute	—	—	—	—	●	●
Panel Lock	—	—	—	—	●	●



# Comprehensive Care Ultimate Comfort

**Low Air Loss**

Provide good ventilation and help reduce the accumulation of heat and moisture.



**Spring-Loaded Tube**

Inside the air tubes, springs are installed to prevent any kinks or unwanted bending on the tubes that connects pump and mattress to maintain consistent smooth airflow.



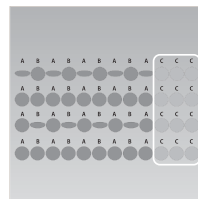
**Easy-to-use Quick Connector with cap**  
Mattress can be transformed from a powered support surface to a sealed static air mattress, providing a uniform stable surface for patient transportation.



**Foam Base Pocket**  
Allow the user to insert additional foam for an adequate pressure support base.



**CPR Straps**  
These CPR straps are designed for quick release, single-handed facility located on the mattress side that enable rapid air deflation for emergencies, short term physiotherapy, moving and handling or storage.



**Pillow Function**  
Tubes in the "C-section" are designed to simulate a regular mattress softness and stableness of a pillow which also helps with patient compliance.



**Cell-on-cell bladder design**  
The bottom cells can provide hours of support even during power failure.

**Zipper-All-Around Cover**

The cover is attached to the mattress base by concealed zips to reduce ingress of unwanted fluids. Cover can also be completely removed for laundering and replacing.



**Crib 7 Fire Retardancy Stretch Cover**

Vapor permeable and water resistant 2-directional stretch cover offers optimum pressure redistribution and comfort. It also has a level of Crib 7 fire retardancy with anti-fungal property.



**Antimicrobial Silver Nylon/PU Cover**  
Silver ion added, vapor permeable and water resistant cover. It has a level of CTB 117 & FTMS 191A fire retardancy and proven to exhibit anti-MRSA effect of 90% even after 20 cycles of laundry.



**Nylon/PU Cover**  
Vapor permeable and water resistant property with flame retardant level passed California Technical Bulletin 116 & 117.

# Domus 1

Domus 1 is ideal for prevention and treatment of patients at low risk of pressure ulcers. This light weight and compact alternating pressure pad is composed of 2.5"-height bubble cells, and it is used as an alternative for heavier products such as gel overlay mattresses. The system is great for short term usage and easy to install. With a pressure adjustable pump and extension flaps on top and bottom sides of the bubble pad to prevent the pad from sliding, Domus 1 is designed to be a great transition mattress for homecare.



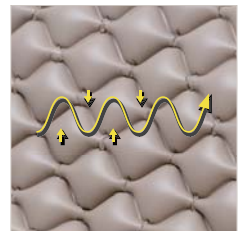
Adjustable Hangers  
Suitable for most bed types.



Weight Indicator  
Reference  
To facilitate optimized pressure setting.



Extension Flaps  
Can be tucked under the standard mattress for stabilization.

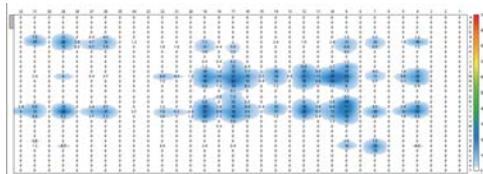


Medical Grade PVC Pad  
Easy to clean and fire retardant.

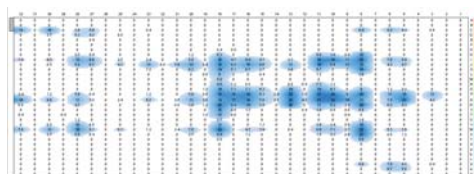


Patient : 170 cm / 80 kg / Male

Inflation of A cells



Inflation of B cells



## Specifications

	Model	Domus 1
<b>Pump</b>	Dimension	23.7 x 11.2 x 9.5 cm
	Weight	1.4 kg
	Case Material	Flame retardant ABS
	Supply Voltage	AC 230V, 50 Hz ; AC 230V, 60 Hz ; 120V, 60Hz
	Operating Cycle	9.6 min ( 230V ) ; 8 min ( 120V )
	<b>Mattress</b>	
	Dimension	196 x 90 x 6.4 cm
	Alternating	1 - in - 2
	Cell Height	2.5" x 130 pcs of bubbles
	Weight	2.3 kg
	Material	Medical - grade PVC
	Maximum Patient Weight	100 kg
	Flame Retardant Standards	CA 117

\*The airflow output and cycle time may vary slightly due to different electrical voltage and frequency.

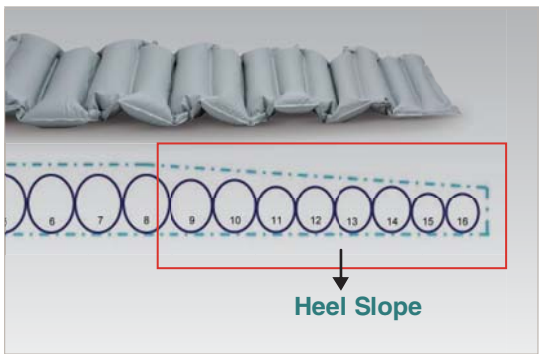
\*Domus 1 should always be used directly on top of an existing surface or an additional foam.

\*Always cover the pad with a sheet of clothing to avoid direct skin contact.



# Domus 2s

Domus 2s is an easy to use way to provide effective support! It is a 5" height one-piece mattress overlay with heel slope for heel pressure relieve and 1 in 2 alternating feature. Domus 2s overlay is ideal for those who are assessed to be at low to medium risk of developing pressure ulcers. Most importantly, it provides effective pressure relief with comfort at the price most people can afford!



Heel slope (to relieve pressure on the heels)  
Allow the pad to fill in the space behind the Achilles tendon so that pressure is distributed over the entire lower leg, reducing pressure on the heel.



**Weight Indicator Reference**  
To facilitate optimized pressure setting.



**Adjustable Hangers**  
Suitable for most bed types.



**Extension flaps**  
Can be tucked under the standard mattress for stabilization.

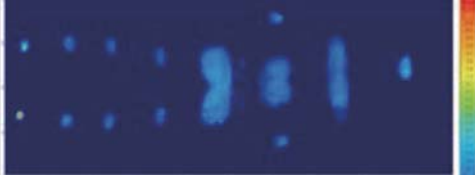


**Nylon/PU Cover**  
Vapor permeable and water resistant with basic flame retardant level.



Patient: 170 cm / 80 kg / Male

Inflation of A cells



Inflation of B cells



## Specifications

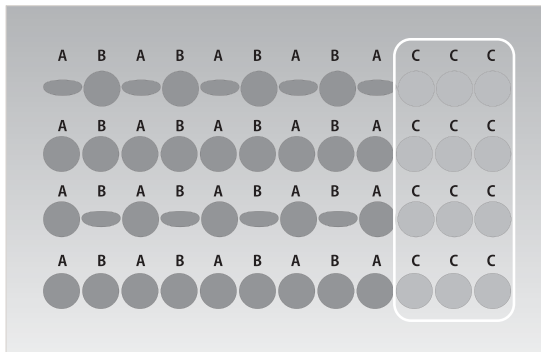
	Model	Domus 2s
<b>Pump</b>	Dimension	23.7 x 11.2 x 9.5 cm
	Weight	1.2 kg
	Case Material	Flame retardant ABS
	Supply Voltage	AC 230V, 50 / 60 Hz ; 120V, 60Hz
	Operating Cycle	9.6 min ( 230V ) ; 8 min ( 120V )
<b>Mattress</b>		5" Overlay Mattress
	Dimension	200 x 85 x 12.5 cm (H5") w/heel slope at 9 cm(3.5")
	Alternating	1 - in - 2
	Cell Height	16 x 5" ~ 3.5" cells
	Weight	3.1 kg
	Cover Material	Nylon / PU
	Cell Material	Nylon / PVC
	Maximum Patient Weight	120 kg
	Flame Retardant Standards	EN 597-1 & EN 597-2

\*The airflow output and cycle time may vary slightly due to different electrical voltage and frequency.

\*Domus 2s should always be used directly on top of an existing surface or an additional foam.

# Domus 2

Domus 2 is a valuable overlay system designed for prevention and treatment of patients at low to medium risk of pressure ulcers. By having a series of individual cells inflate and deflate alternatively cycles, the pressure is periodically redistributed by inflating and deflating cells in order to mimic natural sleep movement patterns and avoid long term pressurization of tissue.



### Pillow Function

Tubes in the "C-section" are designed to simulate a pillow function which also helps with patient compliance.



**Weight Indicator Reference**  
To facilitate optimized pressure setting.



**Adjustable Hangers**  
Suitable for most bed types.



### Nylon/PU Cover

Vapor permeable and water resistant with basic flame retardant level.

Water Resistance



Flame Resistance



Biocompatibility

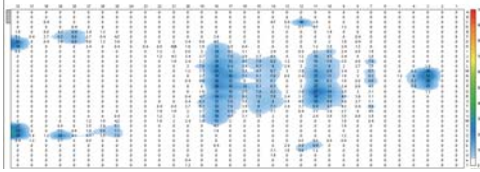


Vapour Permeable

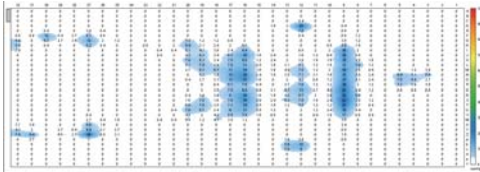


Patient: 170 cm / 80 kg / Male

Inflation of A cells



Inflation of B cells



## Specifications

	Model	Domus 2		
<b>Pump</b>	Dimension	23.7 x 11.2 x 9.5 cm		
	Weight	1.4 kg		
	Case Material	Flame retardant ABS		
	Supply Voltage	AC 230V, 50 / 60 Hz ; 120V, 60Hz		
	Operating Cycle	9.6 min ( 230V ) ; 8 min ( 120V )		
<b>Mattress</b>		4" Overlay Mattress		
	Dimension	196 x 80 x 10.2 cm	196 x 90 x 10.2 cm	190 x 80 x 10.2 cm
	Alternating	1 - in - 2	1 - in - 2	1 - in - 3
	Cell Height	18 x 4" cells		
	Weight	3.8 kg		
	Cover Material	Nylon / PU		
	Cell Material	Nylon / PVC		
	Maximum Patient Weight	140 kg		
Flame Retardant Standards	EN 597-1 & EN 597-2			

\*The airflow output and cycle time may vary slightly due to different electrical voltage and frequency.

\*Domus 2 should always be used directly on top of an existing surface or an additional foam.

# Domus 3

The Domus 3 is an effective alternating overlay system combined with static therapy mode. By having a series of individual cells inflate and deflate alternatively in cycles, patients receive their adequate pressure relief.

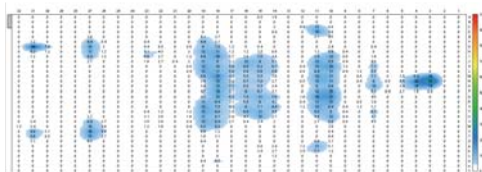
The system can be switched to a static mode to facilitate all kinds of nursing procedures including dressing changes and patient repositioning. The silver-ion Nylon/PU cover is also available to increase the antimicrobial effect. With clear weight indicator reference dial adjustment, Domus 3 is easy to use and is recommended for patients at medium risk to high risk of pressure ulcers.



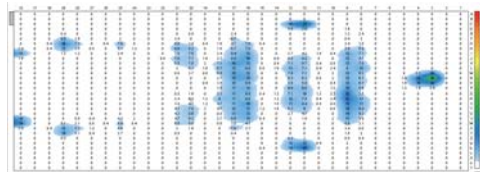
- Additional static mode helps with patient repositioning and all kinds of nursing care.
- Low pressure alarm feature increases patient safety.
- Increased antimicrobial activity with silver-ion treated Nylon/PU cover.

Patient: 170 cm / 80 kg / Male

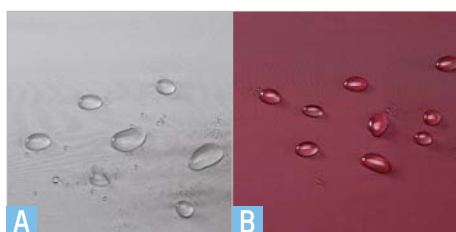
Inflation of A cells



Inflation of B cells







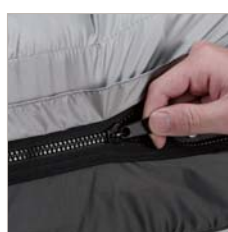
**A. Antimicrobial Silver\* Nylon / PU Cover**  
 Vapor permeable and water resistant cover with a level of low fire retardancy and anti-MRSA effect.

**B. Nylon/PU Cover ( Optional )**  
 Vapor permeable and water resistant with basic flame retardant level.

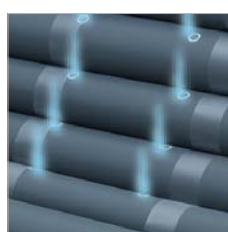
Silver-ion Treated    Biocompatibility    Flame Resistance    Water Resistance    Vapour Permeable



**Quick Connector with Cap**  
 Provide a uniform stable surface for patient transportation, nursing procedures, and moving and handling.



**Zipper-All-Around Cover**  
 Reduce ingress of unwanted fluid and can be completely removed for laundry.



**Ventilated Low-Air-Loss Cells**  
 Wicks moisture away to keep the patient comfortable.



**CPR Valve**  
 Quickly deflate the mattress for emergencies.



**Foam Base Pocket**  
 For inserting additional foam. ( Available on H5" mattress )

### Specifications

	Model	Domus 3		
<b>Pump</b>	Dimension	29 x 18.5 x 12.6 cm		
	Weight	2.2 Kg		
	Case Material	Flame retardant ABS		
	Supply Voltage	AC 220 - 240V, 50Hz ; 100 - 120V, 60Hz		
	Operating Cycle	9.6 min ( 230V ) ; 8 min ( 120V )		
<b>Mattress</b>		5"+3" Overlay	5" Overlay	4" Overlay
	Dimension	200 x 90 x 12.7cm w / 3" high foam pocket	200 x 90 x 12.7 cm	190 x 80 x 10.2 cm
	Alternating	1 - in - 2	1 - in - 2	1 - in - 3
	Cell Height	17 x 5" cells	17 x 5" cells	18 x 4" cells
	Weight	5.6 kg	5.2 kg	3.1 kg
	Cover Material	Silver* Nylon / PU*	Silver Nylon / PU*	Silver Nylon / PU*
	Cell Material	Nylon / TPU	Nylon / TPU	Nylon / TPU
	Maximum Patient Weight	180 kg	180 kg	140 kg
Flame Retardant Standards	EN 597-1 & EN 597-2	EN 597-1 & EN 597-2	EN 597-1 & EN 597-2	



\*The airflow output and cycle time may vary slightly due to different electrical voltage and frequency.  
 \*Optional Nylon / PU cover is also available.  
 \*Narrow sizes ( 85 cm in width ) is also available.  
 \*Domus 3 should always be used directly on top of an existing surface or an additional foam.

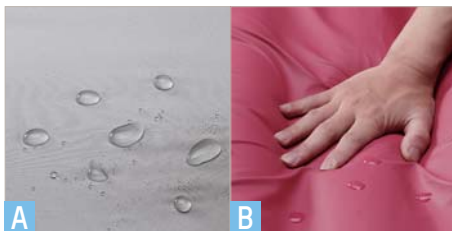
# Domus 4

Domus 4 is one of the advanced systems in Domus series. The digital multi-mode pump is not only offering alternating pressure redistribution, but also has a static mode with constant low pressure reduction. In alternating mode, the pressure is periodically redistributed by inflating and deflating cells in order to mimic natural sleep movement patterns and avoid long term pressurization of tissue. In constant static mode, the pressures is about 2/3 lowered when compared to the same pressure level from alternating mode by the means of immersion and envelopment.

The system also offers advanced features such as seat inflation and max firm features. With both audible and visual alarms to notify the caregiver of unusual situation, the system is an ideal to reduce the risk of human error and suitable for the prevention and treatment of all stages of pressure ulcers.

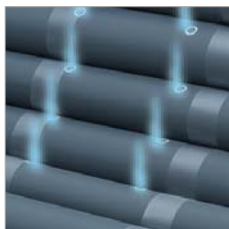


- Quiet and vibration free with a range of treatment modes.
- Easy to use digital settings providing pressure relief and comfort.
- Visual and audible alarm enhances patients safety and security.



**A. Antimicrobial Silver<sup>+</sup> Nylon/PU Cover**  
Vapor permeable and water resistant cover with a level of low fire retardancy and anti-MRSA effect.

**B. Fire Retardant Two-directional Stretch Cover ( Optional )**  
Vapor permeable and water resistant 2-directional stretch cover with flame retardant up to CRIB-7 level.



**Ventilated Low-Air-Loss Cells**  
Wicks moisture away to keep the patient comfortable.



**CPR Valves**  
Quickly deflate the mattress for emergencies.



**Zipper-All-Around Cover**  
Reduce ingress of unwanted fluid and can be completely removed for laundry.



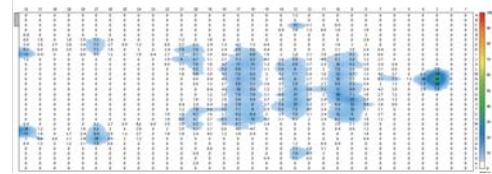
**Cell-on-cell Bladder Design**  
The bottom cells acts as basic pressure support in case of power failure for the system without extra foam base. ( available on H8" mattress )



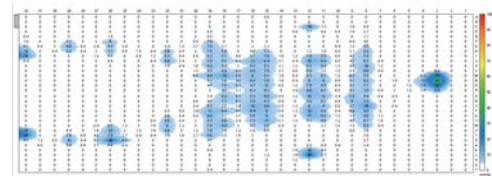


Patient : 170 cm / 80 kg / Male

Inflation of A cells



Inflation of B cells



## Specifications

	Model	Domus 4	
<b>Pump</b>	Dimension	29 x 18.5 x 12.6 cm	
	Weight	2.2 Kg	
	Case Material	Flame retardant ABS	
	Supply Voltage	AC 220 - 240V, 50Hz ; 100 - 120V, 60Hz	
	Operating Cycle	10 mins	
<b>Mattress</b>		8" Replacement	5" + 3" Overlay
	Dimension	200 x 90 x 20.3 cm	200 x 90 x 12.7 cm w / 3" high foam pocket
	Alternating	1 - in - 2	1 - in - 2
	Cell Height	20 x 8" cells	17 x 5" cells
	Weight	6.9 kg	5.6 kg
	Cover Material	Silver Nylon/PU*	Silver Nylon / PU*
	Cell Material	Nylon / TPU	Nylon / TPU
	Maximum Patient Weight	200 kg	180 kg
	Flame Retardant Standards	EN 597-1 & EN 597-2	EN 597-1 & EN 597-2

\*Narrow sizes ( 85 cm in width ) is also available.

\*Optional two-directional stretch cover is also available.

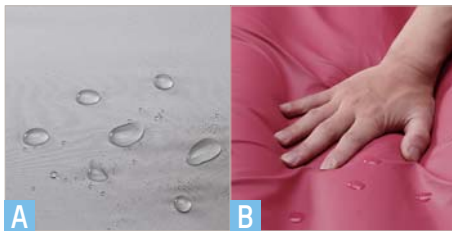
\*Domus 4 overlay should always be used directly on top of an existing surface or an additional foam.



# Domus Auto

Domus Auto is designed as an effective solution for the prevention and management of pressure ulcers, offering enhanced quality of care and reduced risks for caregivers. The proprietary pressure/body-weight algorithm is embedded within a quiet and vibration-free pump, which enables automatic pressure adjustment in response to individual body mass distribution and patient movement.

Two different heights of mattress are also available for Domus Auto including the 8" cell-on-cell mattress which is able to provide at least a few hours of basic support during power outages. The system is intended for the delivery of high quality care to vulnerable patients and residents, whilst remaining easy-to-use for the caregivers and simple to clean and maintain.



**A.** Antimicrobial Silver<sup>+</sup> Nylon/PU Cover

Vapor permeable and water resistant cover with a level of low fire retardancy and anti-MRSA effect.

**B.** Fire Retardant Two-directional Stretch Cover ( Optional )

Vapor permeable and water resistant 2-directional stretch cover with flame retardant up to CRIB-7 level.

Biocompatibility	Flame Resistance	Water Resistance	Vapour Permeable	Silver-Ion Treated	2-directional Stretch	Fungistatic



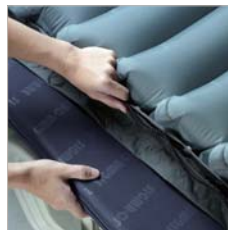
**Cell-on-cell Bladder Design**

The bottom cells acts as basic pressure support in case of power failure for the system without extra foam base. ( available on H8" mattress )



**Zipper-All-Around Cover**

Reduce ingress of unwanted fluid and can be completely removed for laundry.



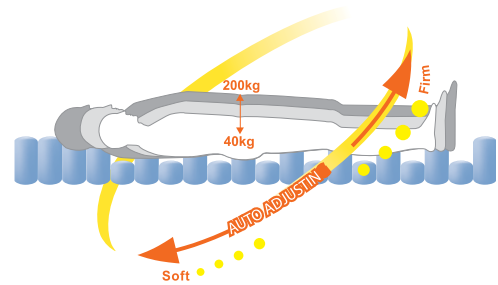
**Foam Base Pocket**

For inserting additional foam. ( Available on H5" mattress )



**CPR Valves**

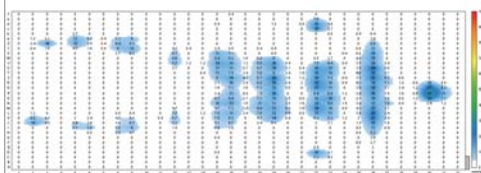
Quickly deflate the mattress for emergencies.



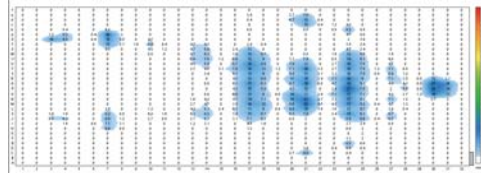
- Automatically adjusts to the patients weight, saves the caregiver's loading.
- Cell-on-cell mattress provide hours of support during power outage.
- Versatile therapy modes for different nursing requirements.
- Proven anti-MRSA activity Silver+ cover helps with control of cross infection.

Patient : 170 cm / 80 kg / Male

Inflation of A cells



Inflation of B cells



### Specifications



	Model	Domus Auto	
<b>Pump</b>	Dimension	29 x 18.5 x 12.6 cm	
	Weight	2.2 Kg	
	Case Material	Flame retardant ABS	
	Supply Voltage	AC 220-240V, 50Hz ; 100-120V, 60Hz	
	Operating Cycle	9.6 mins	
<b>Mattress</b>		8" Replacement	5" + 3" Overlay
	Dimension	200x90x 20.3 cm	200 x 90 x 12.7 cm w / 3" high foam pocket
	Alternating	1 - in - 2	1 - in - 2
	Cell Height	20 x 8" cells	17 x 5" cells
	Weight	6.9 kg	5.6 kg
	Cover Material	Silver+ Nylon / PU*	Silver+ Nylon / PU*
	Cell Material	Nylon / PU	Nylon / PU
	Maximum Patient Weight	200 kg	180 kg
	Flame Retardant Standards	EN 597-1 & EN 597-2	EN 597-1 & EN 597-2

\*Narrow sizes ( 85 cm in width ) is also available.

\*Optional two-directional stretch cover is also available.

\*Domus Auto overlay should always be used directly on top of an existing surface or an additional foam.

## HEADQUARTERS

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