

Elite Series Savvy Series Optimal Dual Series



Elite Series

The Elite Series dynamic mattress overlay system provides effective therapy for pressure ulcer prevention at an affordable cost with high quality TPU coated nylon air cells. The 4" or 5" mattress overlay with our mechanical or semi-digital pumps is ideal for patients at medium to high risk of pressure ulcer development.



Flite Series

Clite Series								
Pump					Mattress			
	Mechanical Series	Se	mi-Digital S	eries		4" Overlay	5" Overlay	
Model	Elite 160	Elite 120	Elite 140	Elite 200	Dimension (cm)	200x85x10	200x85x12.5 200x107x12.	
Dimension (cm)	31x10x20	31x10x20	33x12x22	33x13x24	Number of Cells	19	16	
Supply Voltage		120V/60Hz	or 230V/50Hz		Cell Material	Nylor	n-TPU	
Alternating Type		2-1 or 3-1	Alternating		Top Cover Material*	Nylon-PU (Antibact	erial and antifungal)	
Flowrate (Liter)**	7.	0	9	0.0	Pillow Section	•		
Control Panel Type	Dial	D	ial+Digital Key	pad	Cell-on-Cell Design	X		
Mode		Alternate	e, Static		independent Low Air Loss (iLAL)			
Full Cycle Time (Minutes)	12		Selectable			•		
Tall Oyolo Timo (ilimateo)	12		10, 15, 20		CPR Type	Pull-Ta	ab CPR	
Alarms	Low Pressure LED Indicator		udiovisual Alar ailure, Low Pre Service Alarm	ssure, and	Recommendation Maximum Weight (kg)	13	35	
Power Cord Type	N	Non-Detachable Detachable			Standard Optional *Stratabable top sever a		veilable	
Classification	Class II, Type BF IEC 60601-1 IEC 60601-1-2 IEC 60601-1-11				*Stretchable top cover and quilted top cover are also available. **The flowrate may be varied due to fluctuation of input voltage.			
Electrical Safety Standards					The newrate may be v	arroa due le nactuation of inpu	i voltago.	

Χ Pull-Tab CPR 135



The support surface can maintain the same height during each alternating cycle hence enhances the comfort for the patient



Mattress alternates every other 3 air cell during each alternating cycle to give patient a very genuine comfortable surface



iLAL effectively reduces the moisture and skin heat on the support surface by periodically providing a high volume of low air loss relief



Insert-molded elastic hangers



5" Overlay 200x85x12.5 200x107x12.5

Static to alternate auto-switch function



Savvy Series

The **Savvy Series** dynamic mattress overlay or replacement system provides effective therapy with reliable high quality TPU coated nylon air cells or high quality, pliable, shear force reduced TPU-ether air cells for pressure ulcer prevention. The 4" or 5" mattress overlay or 8" mattress replacement with our mechanical, semi-digital, or digital pumps is ideal for patients at medium to very high risk of pressure ulcer development.

Classification

Electrical Safety

Savvy Series											
Pump					Mattress						
	Mechanical Series	Semi	-Digital	Series	Di	gital Ser	ies		4" Overlay	5" Overlay	8" Replacement
Model	Savvy 160 31x10x20	Savvy 120 31x10x20	Savvy 140	Savvy 200 33x13x24	Savvy 130	Savvy 150	Savvy 210 33x13x24	Dimension (cm)	200x85x10	200x85x12.5 200x107x12.5	200x90x20 200x107x20 200x122x20
Dimension (cm) Supply Voltage	31X10X20	31X10X20)Hz or 230\		33812822	33X13X24	Number of Cells	20	16	18/20/24
Alternating Type				3-1 Alterna				Cell Material	Nylon-TPU TPU Ether	Nylon-TPU TPU Ether	Nylon-TPU TPU Ether
Flowrate (Liter)**	7	.0	9	.0	7.0	,	9.0	Top Cover Material*	Nylon-P	U (Antibacterial and a	ntifungal)
Control Panel Type	Dial	Dial	+Digital Ke	/pad	Digital K LED disp		en-Segments	Pillow Section	•		
				··	LEDuist	лау	Alternate, Statio	Cell-on-Cell Design	X		•
Mode			Alterna	ate, Static			Constant Low Pressure (CLP)	independent Low Air Loss (iLAL)	•		
Full Cycle Time	12		Selectable	e		Selectab		CPR Type	AKTC Q-CPR		
(Minutes)	12		10, 15, 20), 15, 20, 2	·	Side Bolsters with Bolster)	(©
	Low Pressure		iovisual Ala			udiovisua l A (Power Fai l		Release Valve			
Alarms	LED Indicator		(Power Failure, Low Pressure, and Service Alarm)		Low Pressure, and Service Alarm with Error Code)			SmileTurn	©		1
Self-Calibration Technology			Х			•	oue)	Recommendation Maximum Weight (kg)	1	35	180/255
Auto-Detection Technology	X ©			Standard Optiona*Stretchable top cover		er are also available					
Power Cord Type	N	lon-Detach	able	Detachable	Non-Detachable Detachable			**The flowrate may be varied due to fluctuation of input voltage.			
Fowler Function	X			0							



Patented quick inflation CPR for immediate mattress deflation or inflation with our optional handheld inflator for quick setup



Class II, Type BF

IEC 60601-1 IEC 60601-1-2 IEC 60601-1-11

Patented contactless photointerrupter optical switch



Transportation cap can be used in case of patient transportation or power outage



SmileTurn with adjustable turning functions: left turn/ right turn/full turn

High efficiency compressor with PU diaphragms, metal casing & shockproof design

Optimal Dual Series

The **Optimal Dual Series** dynamic mattress replacement system provides effective therapy with reliable high quality **TPU coated nylon air cells** or high quality, pliable, shear force reduced **TPU-ether air cells** for pressure ulcer prevention.

The 8" mattress replacement with our dual compressors digital pump is ideal for patients at **medium to very high risk** of pressure ulcer development.

The Optimal Dual is an advanced multi-functional microcontroller programmed 9.0L+9.0L dual linear compressors digital pump with a detachable power cord dynamic mattress replacement system. The high flowrate fast inflation dual compressors digital pump has a precise digital pressure transducer which is able to reduce the power wattage once the pressure is reached therefore it is the most quiet, power efficiency, and extended lifetime pump.

Optimal Dual Series

	Pump				
	Digital Series				
Model	Optimal Dual				
Dimension (cm)	41x13x23				
Supply Voltage	120V/60Hz or 230V/50Hz				
Alternating Type	2-1 or 3-1 Alternating				
Flowrate (Liter)**	9.0+9.0				
Control Panel Type	Digital Keypad+Seven-Segments LED display				
Mode	Alternate, Static, Constant Low Pressure (CLP) or Pulsation Mode				
Turning Mode	X				
Turning Angles (Degrees)	X				
Full Cycle Time (Minutes)	Selectable 10, 15, 20, 25, 30				
Pulsation Cycle Time (Minutes)	Selectable 5-30				
Turning Cycle Time (Minutes)	Х				
Alarms	Audiovisual Alarms (Power Failure, Low Pressure, and Service Alarm with Error Code)				
Self-CalibrationTechnology	•				
Auto-Detection Technology	©				
Power Cord Type	Detachable				
Fowler Function	©				
Classification	Class II, Type BF				
Electrical Safety Standards	IEC 60601-1 IEC 60601-1-2 IEC 60601-1-11				

120 00001 1 11							
Mattress							
	8" Replacement 8" Replacement- Bariatric Mattress						
Dimension (cm)	200x9	0x20	200x107x20 200x122x20	200x137x20 200x152x20			
Number of Cells	18/2	0/24	18/20/24	18/20			
Cell Material	Nylon-TPU	TPU Ether	Nylon-TPU or TPU Ether				
Top Cover Material*	Nylon-PU (Antibacterial and antifungal)			ngal)			
Pillow Section		•)				
Cell-on-Cell Design		•)				
independent Low Air Loss (iLAL)	•						
CPR Type	AKTC Q-CPR						
Side Bolsters with Bolster Release Valve	©						
SmileTurn	© X						
Recommendation Maximum Weight (kg)	2	55	300/350				



Optimal Dual Turn Series						
Pump						
	Digital Series					
Model	Optimal Dual Turn					
Dimension (cm)	41x13x23					
Supply Voltage	120V/60Hz or 230V/50Hz					
Alternating Type	2-1 or 3-1 Alternating					
Flowrate (Liter)**	9.0+9.0					
Control Panel Type	Digital Keypad+Seven-Segments LED display					
Mode	Alternate, Static, Pulsation, and Turning Mode					
Turning Mode	Yes (Left Turn, Right Turn, and Full Turn)					
Turning Angles (Degrees)	0-30 (Adjustable)					
Full Cycle Time (Minutes)	Selectable 10, 15, 20					
Pulsation Cycle Time (Minutes)	Selectable 10, 15, 20					
Turning Cycle Time (Minutes)	Selectable 10-95					
Alarms	Audiovisual Alarms (Power Failure, Low Pressure, and Service Alarm with Error Code)					
Self-CalibrationTechnology	•					
Auto-Detection Technology	©					
Power Cord Type	Detachable					
Fowler Function	•					
Classification	Class II, Type BF					
Electrical Safety Standards	IEC 60601-1 IEC 60601-1-2 IEC 60601-1-11					

ı	Mattress						
		8" Replacement- Turning Mattress Bariatric Turning Mattre					
	Dimension (cm)	200x9	0x20	200x107x20 200x122x20	200x137x20 200x152x20		
	Number of Cells	18/2	0/24	18/20/24	18/20		
	Cell Material	Nylon-TPU	TPU Ether	Nylon-TPU or TPU Ether			
	Top Cover Material*	Nylor	erial and antifu	l and antifungal)			
	Pillow Section	•					
	Cell-on-Cell Design	•					
	independent Low Air Loss (iLAL)	•					
	CPR Type		AKTC	Q-CPR			
	Side Bolsters with Bolster Release Valve	•					
	SmileTurn	X					
	Recommendation Maximum Weight (kg)	255 300/35			350		

- Standard ⊚ Optional X Not Available
- *Stretchable top cover and quilted top cover are also available.
- **The flowrate may be varied due to fluctuation of input voltage.



Patented all-in-one integrated hose connectors



Audiovisual alarms ensure the nursing staff is notified in the event of faults



Auto-Detection technology providing the recommendation pressure setting



Self-Calibration technology ensures precise pressure



Power cord protector prevents loosen cord from accidental impact

Optimal Pro Series – True Low Air Loss System

The Optimal Pro Series True Low Air Loss dynamic mattress replacement system provides effective therapy with reliable high quality TPU coated nylon air cells or high quality, pliable, shear force reduced TPU-ether air cells for pressure ulcer prevention.

The 8" mattress replacement with our high volume liter per minute airmoving-blower digital pump is ideal for patients at very high risk of pressure ulcer development.

The 1000.0L high flowrate fast inflation airmoving-blower digital pump has a precise digital pressure transducer and is the only pump can provide the True Low Air Loss ventilation through our uniquely designed on-cell TrueVent holes.



Optimal Pro Series — True Low Air Loss System

op annun 10 Daniel	Optimal Pito Series — True Cow Air Coss System					
	Pump					
	Digital Series					
Model	Optimal Pro					
Dimension (cm)	40x16x27					
Supply Voltage	120V/60Hz or 230V/50Hz					
Alternating Type	2-1 or 3-1 Alternating					
Flowrate (Liter)**	1000.0					
Control Panel Type	Digital Keypad+Seven-Segments LED display					
Mode	Alternate, Static, Pulsation, Bariatric					
Turning Mode	X					
Turning Angles (Degrees)	X					
Full Cycle Time (Minutes)	Selectable 5, 10, 15, 20, 25, 30					
Pulsation Cycle Time (Minutes)	Selectable 1-20					
Turning Cycle Time (Minutes)	x					
Alarms	Audiovisual Alarms (Power Failure, Low Pressure, and Service Alarm with Error Code)					
Self-CalibrationTechnology	•					
Auto-Detection Technology	©					
Power Cord Type	Detachable					
Fowler Function	©					
Classification	Class II, Type BF					
Electrical Safety Standards	IEC 60601-1 IEC 60601-1-2 IEC 60601-1-11					

Mattress						
	8" Repla	cement	8" Replacement- Bariatric Mattress			
Dimension (cm)	200x	90x20	200x107x20 200x122x20	200x137x20 200x152x20		
Number of Cells	18/2	0/24	18/20/24	18/20		
Cell Material	Nylon-TPU	TPU Ether	Nylon-TPU or TPU Ether			
Top Cover Material*	Nylo	n-PU (Antibact	erial and antifun	erial and antifungal)		
Pillow Section		•)			
Cell-on-Cell Design		•				
On Cell TrueVent True Low Air Loss(LAL)	•					
CPR Type	AKTC Q-CPR					
Side Bolsters with Bolster Release Valve		6)			
Recommendation Maximum Weight (kg)	Standard 160Kg, Bariatric 450Kg					

- *Stretchable top cover and quilted top cover are also available.
 **The flowrate may be varied due to fluctuation of input voltage.

Optimal Turn Series — True Low Air Loss System

Pump					
	Digital Series				
Model	Optimal Turn				
Dimension (cm)	40x16x27				
Supply Voltage	120V/60Hz or 230V/50Hz				
Alternating Type	2-1 or 3-1 Alternating				
Flowrate (Liter)**	1000.0				
Control Panel Type	Digital Keypad+Seven-Segments LED display				
Mode	Alternate, Static, Pulsation, Bariatric				
Turning Mode	● (Left Turn, Right Turn and Full Turn)				
Turning Angles (Degrees)	0-30				
Full Cycle Time (Minutes)	Selectable 10, 15, 20				
Pulsation Cycle Time (Minutes)	Selectable 10, 15, 20 (Double Cycles)				
Turning Cycle Time (Minutes)	Selectable 5-95				
Alarms	Audiovisual Alarms (Power Failure, Low Pressure, and Service Alarm with Error Code)				
Self-CalibrationTechnology	•				
Auto-Detection Technology	©				
Power Cord Type	Detachable				
Fowler Function	•				
Classification	Class II, Type BF				
Electrical Safety Standards	IEC 60601-1 IEC 60601-1-2 IEC 60601-1-11				

Mattress						
	8" Replac		8" Replacement- Bariatric Turning Mattress			
Dimension (cm)	200x\$	90×20	200x107x20 200x122x20	200x137x20 200x152x20		
Number of Cells	18/2	0/24	18/20/24	18/20		
Cell Material	Nylon-TPU	TPU Ether	Nylon-TPU or TPU Ether			
Top Cover Material*	Nylon-PU (Antibacterial and antifung			gal)		
Pillow Section		•)			
Cell-on-Cell Design		•)			
On Ce ll True<mark>V</mark>ent True Low Air Loss(LAL)	•					
CPR Type	AKTC Q-CPR					
Side Bolsters with Bolster Release Valve	•					
Recommendation Maximum Weight (kg)	Standard 160Kg, Bariatric 450Kg					



Tube-through-cell design ensures the connector is fitted firmly.



Patent pending convenient quick couplings(CQC)



Welded manifolds prevent kink during transportation



TrueVent True Low Air Loss



Three turning modes available: left turn, full turn, right turn



Fowler function (optional)

WHO WE ARE

- Founded in Taiwan in 1989, AKTC is a professional air mattress system developer and manufacturer. Since our inception in 1989, we have sold millions of air pumps for air mattress and Deep Vein Thrombosis (DVT) applications.
- In 2010 AKTC acquired and built a brand new factory with more than triple of capacity for air mattress system manufacture to fulfill our abundant innovation patents and the sense of providing the best medical equipment for pressure ulcer prevention.
- Loyalty, integrity, and to never compete with our customers are the core business values that we truly believe in and these values are strictly followed.

VISION

- As the population aging and patients with chronic diseases increasing, the number of patient with pressure ulcers is growing steadily. The result is a huge financial burden to not only the patient's family and care givers, but also the medical system of the country. The prevention and treatment for pressure ulcers and DVT have therefore increased significantly due to the importance of the role and the value on preventive medicine.
- AKTC continuously engages in pressure ulcer prevention and DVT related equipment manufacture because we truly believe its importance for the human society and we devote to provide the highest quality products.

INNOVATION RECORD

Patent No.	Patent Description
US 11,439,249 B2	PRESSURE REFERENCE RESETTING STRUCTURE OF INFLATABLE MATTRESS
US 8,651,131 B2	CONTROL VALVE FOR AIR CUSHION BED
US 6,832,630 B2	ADJUSTABLE AIR SUPPLY VALVE OF AIR CUSHION BED
US 6,832,629 B2	RAPID INFLATION AND VENTING AIR VALVE OF AIRBED
US 6,571,412 B1	MULTIPLE TUBES COMBINATION STRUCTURE
US 6,457,197 B1	SWIFT CONNECTION JOINT BETWEEN AIRBAGS
US 6,266,833 B1	AIR BED STRUCTURE CAPABLE OF ALTERNATE AERATING AND LYING THEREON ON ONE'S SIDE
US 6,257,269 B1	MULTIPLE-PURPOSED AIR VALVE COMPONENT FOR AIR MATTRESS
US 6,253,402 B1	AIR BED STRUCTURE CAPABLE OF ALTERNATE LYING THEREON ON EITHER OF ONE'S SIDES
US 6,152,176 B1	AIR VALVE STRUCTURE FOR ALTERNATELY AERATED THREE-PIPE STYLE AIR BED
TW No. I 756826	Air mattress adjustable surface structure
TW No. I 649049	Air mattress reference pressure reset structure
TW No. I 625118	Air mattress active CPR
TW No. I 580877	Quad-output valve structure
TW No. I 575176	Air valve adjusting structure of air bed
TW No. I 574651	In-cell gas delivery structure of air bed with a plurality of layers
TW No. I 543733	Method for keeping height of air bed constant when exchanging air and air valve structure thereof
TW No. I 427232	Quick connection structure for back-flow and loose prevention
TW No. I 417456	Single-unit air pump structure
TW No. I 405906	Improvement of pump back-flow prevention film structure
TW No. I 400403	Structure of control valve for the air mattress
TW No. I 385687	Micro switches for minor adjustment settings
TW No. M601782	Noise reduction for pump airflow
TW No. M426698	All-in-one quick connector
TW No. 217705	Quick inflation and deflation air valve structure for the air mattress
TW No. 211316	Multi-connections pipe structure
TW No. 202528	Pipe-less air valve structure for the air mattress
TW No. 183892	Adjustable air valve for the air mattress
TW No. 180442	Alternating and lateral rotation functions for the air mattress structure
TW No. 180422	Structure of quick connector for air cells
TW No. 180413	Two-stage alternative lateral rotations function for the air mattress structure
TW No. 170630	Multifunctional air valve structure for the air mattress
TW No. 153420	Air valve structure for three-pipe alternative air mattress
TW No. 131764	Improvement of pump intake and exhaust silencer structure
TW No. 95260	Pump structure improvement for the pressure ulcer prevention air mattress



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