



THE TOP IN QUALITY
for all areas of healthcare

TOP INFUSION PUMP TOP-2500



THE NEW STANDARD

Specifications

Name	TOP Infusion Pump		
Model	TOP-2500 / TOP-2500W		
Power Supply	AC adapter	AC power supply : 100 ~ 240 V $\pm$ 10 % 50/60 Hz	
	Internal battery	Rechargeable, DC 12 V 1800 mAh Ni-MH (Type: BP-23) Battery life: Approx. 4 hours (New battery, Full charge, 25 mL/h)	
Input Current	AC power supply : 0.3 A		
Applicable Infusion Sets	Designated TOP Solution Infusion Set		
	General Infusion Set 20 drops/mL, 60 drops/mL		
Flow Rate Range	mL/h	1 ~ 1200 mL/h (Designated 20 drops IV set)	
		1 ~ 150 mL/h (Designated 60 drops IV set)	
		1 ~ 360 mL/h (General 20 drops IV set)	
		1 ~ 150 mL/h (General 60 drops IV set)	
	mL/h (Micro mode)	0.1 ~ 99.9 mL/h (Designated 20, 60 drops IV set)	
Drops/min.	1 ~ 120 drops/min. (General 20 drops IV set)		
	1 ~ 150 drops/min. (General 60 drops IV set)		
Purge Flow Rate	Maximum flow in each Flow Rate Setting Range		
KVO Flow Rate Range	1 ~ 10 mL/h (1 mL/h steps)		
Volume Limit Range	1 ~ 9999 mL (1 mL steps)		
Total Volume Range	0 ~ 9999 mL (1 mL steps)		
Accuracy	mL/h	Designated Infusion Set: $\pm$ 5 %	
		General Infusion Set: $\pm$ 10 %	
	Drops/min.	$\pm$ 2 % ($\geq$ 300 drops)	
Downstream Occlusion Detection	4 steps selection (When Designated Infusion Set is selected)		
	PrdE 3: High	Under 150 kPa /	PrdE 2: Medium Under 120 kPa
	PrdE 1: Low	Under 80 kPa /	PrdE 0: Lowest Under 40 kPa
	2 steps selection (When General Infusion Set is selected)		
	PrST 1: High	Under 150 kPa /	PrST0 : Low Under 80 kPa
Upstream Occlusion Detection	1 step selection (When Designated Infusion Set is selected / For TOP-2500W only)		
	Under -20 kPa		
Air-in-line Detection Sensitivity	3 steps selection		
	Air0 : High	Approx. 50 μ L	
	Air1 : Medium	Approx. 0.1 mL / 15 minutes	
	Air2 : Low	Approx. 1 mL / 15 minutes	
Alarms	High priority alarm	Air-in-line, Empty Container, Flow Error (Over Drop, Under Drop), Free Flow, Downstream Occlusion, Upstream Occlusion, Auto Power OFF, Door Open, Drop Sensor, Infusion Complete, Power Loss, System Error	
	Low priority alarm	Battery Alarm, Flow Rate Is Not Set, Check the Set Value, Prior End of Infusion, No Action with the Pump	
	Information signals	Door Sensor Check, Switching Power, Maintenance Timer, Stand-by End, Battery Malfunction	
Special features	History	Up to 300 items can be viewed in the Operation history.	
	Key-Lock	Disables all Key operations except the Power Key during Infusion.	
	KVO	After reaching the Infusion Volume Limit, continue Infusion at the KVO Flow Rate to prevent thrombosis.	
	Nurse Call Signal	Connecting an External Communication Cable to the unit allows an Alarm Signal to be output when an alarm occurs.	
	Auto Power OFF	When running on the Internal Battery, the power is turned off automatically if the unit is left for about 3 minutes after a No Action with the Pump Alarm occurs	
	Key Light	The Keys light when operated. (For TOP-2500W only)	
	Door Light	The door light turns on when the door is open.	
	Maintenance Timer	The Maintenance Timer lamp lights when the set number of days is exceeded.	
	Battery Refresh	Performs Refresh Charging to maintain the performance of the Internal Battery.	
	Infusion Set Limit	Limits the types of Infusion Sets that can be selected.	
	Stand-by	Temporarily extends the time until the No Action with the Pump Alarm is generated.	
	Maintenance Mode	Makes it easy to check the Infusion accuracy and the status of various sensors.	
	Buzzer Tone Setting	Sets the Buzzer Volume in 3 steps.	
	Buzzer Setting	Select whether the Wait Tone and Key Operation Tones are heard.	
	External Communication	Connecting the unit to a computer with an External Communication Cable allows data to be output from the pump.	
	Anti Bolus	Reverses the motor direction when a downstream Occlusion Alarm occurs to reduce the temporary Bolus Volume due to the Occlusion. (When Designated is set)	
	Repeat alarm	Sounds the Alarm tone again if the unit is left for more than 2 minutes without canceling the Alarm after the Alarm tone is silenced.	

Operating conditions	Ambient temperature : 5 ~ 40 °C (During charging the internal battery: 5-30°C)	
	Relative humidity : 20 ~ 90 % (No condensation)	
Transportation and Storage condition	Atmospheric pressure : 70 ~ 106 kPa	
	Ambient temperature : -10 ~ 45 °C	
Service life	Relative humidity : 10 ~ 90 % (No condensation)	
	Atmospheric pressure : 50 ~ 106 kPa	
Classification	6 years (Based on self certification using TOP corporation data)	
Detentions	Class II  and Internally powered equipment, Type CF  IP32	
Weight	92(W) x 181(H) x 189(D) mm	
Accessories	Approx. 1.9 kg	
Material used	AC power cable x1, Drop sensor x1, Operation guide x1, Administrator Manual x1	
	Case	ABS resin
Options	Door handle	Glass fiber-reinforced Nylon
	Clamp lever	Glass fiber-reinforced Nylon
Pole clamp, Infusion stand	Operation panel	Polyester film