



THE TOP IN QUALITY
for all areas of healthcare

TOP INFUSION PUMP TOP-2500



THE NEW STANDARD

Proposal of a simple and easy-to-use INFUSION PUMP



Step-by-step operation from top to bottom

A series of operations can be performed smoothly from turning on the power to starting liquid transfer.



Key light , Door light turn on

It supports work in dark spaces at night.



Smooth and clean shape

It has a shape with reduced irregularities and grooves to facilitate regular cleaning.

Selectable color variations

You can choose from three color variations.



Show remaining time

You can display the remaining time until the infusion is completed. (When entering the planned amount)

Upstream blockage detection

It detects and warns of blockages at the top of the pump body, so it can be used more safely.

Specification

Name		TOP Infusion Pump		Functions	<History> Up to 300 items can be viewed in the operation history.
Model		TOP-2500			<Key-lock> Disables all key operations except the Power key during infusion.
Power supply		AC power supply : 100 - 240V ± 10% 50/60Hz Internal battery : Rechargeable 12V DC, 1800mAh, NI-MH battery (Model : BP-23) Continuous use time: Approx. 4hours (25mL/h Infusion with new, Fully Charged Battery)			<KVO> After reaching the volume limit, continue infusion at the KVO flow rate to prevent clot formation.
Input current		AC power supply operation : 0.3A			<Nurse call signal output> Connecting an external communication cable to this product allows the alarm Signal to be out put when the alarm occurs.
Available infusion sets		Designated infusion set, General 20drops/mL, General 60drops/mL			<Auto power OFF> When running on the internal battery the power is turned off automatically if this product is left for about 3 minutes after the no action alarm occurs.
Flow rate setting range		<mL/h> 1 ~ 1200mL/h (Designated 20 drops/mL IV set) 1 ~ 150mL/h (Designated 60 drops/mL IV set) 1 ~ 360mL/h (General 20 drops/mL IV set) 1 ~ 150mL/h (General 60 drops/mL IV set) 1 ~ 1200mL/h (Transfusion set)			<Key light>*4 The keys lights up when operated.
		<mL/h (Micro mode)> 0.1 ~ 99.9mL/h (Designated 20, 60drops/mL IV set)			<Door light> The door light turns on when the door is open.
		<drop/min> 1 ~ 120drop/min. (General 20 drops/mL IV set) 1 ~ 150drop/min. (General 60 drops/mL IV set)			<Total volume display> Displays the total volume in the range from 0 ~ 9999 mL (1mL steps)
		Purge flow rate Maximum flow in each flow rate range			<Maintenance timer> The maintenance timer lamp lights when the set number of days is exceeded.
		KVO flow rate range 1 ~ 10mL/h (1mL/h steps)			<Battery refresh> Performs refresh charging to maintain the performance of the internal battery.
Volume limit range 1 ~ 9999mL (1mL/h steps)					<IV set limit> Limits the types of IV sets that can be selected.
Total volume range 0 ~ 9999mL (1mL/h steps)				<Standby mode> Temporarily extends the time until the no action alarm is generated.	
Infusion accuracy		mL/h	Designated IV set (H Series): ± 5%*1 General IV set: ± 10% (Using distilled water or saline) *2 Transfusion set: ± 10% *1 Accuracy and operation enviroment each hour after the start hour when using a specified infusion set shall conform to JIS standards.	<Maintenance mode> Makes it easy to check infusion accuracy and the status of various sensors.	
			drops/min. ± 2% *2 *2 Drop accuracy for 300 drops or more	<Buzzer volume setting> Sets the buzzer volume in 3 steps.	
Occlusion detection pressure *3		4Steps Selection (When designated IV set is selected) PrdE 3 : High (150kPa or less) Prd 2 : Medium (120kPa or less) PrdE 1 : Low (80kPa or less) Prd 0 : Lowest (40kPa or less)		<Buzzer setting> Select whether the wait tone and operation tones are heard.	
		2Steps Selection (When general IV set is selected) PrST 1 : High (150kPa or less) PrST 0 : Low (80kPa or less)		<Date and time setting> Sets the current time.	
				<Clear total volume> Zeroes the total volume.	
Air-in-line detection sensitivity *3		3 Steps Selection Air 0 : High (When approx. 50 µL air detected.) Air 1 : Medium (When total detected air volume over 15 minutes exceeds approx. 0.1mL) Air 2 : Low (When total detected air volume over 15 minutes exceeds approx. 1mL)		<Purge> Increases the infusion rate for priming.	
				<External communication> Connecting this product to a computer with an external communication cable allows data to be output from the pump. (For details, refer to the Operation Guide for Administrator.)	
				<Anti bolus> Reverses the motor direction when the downstream occlusion alarm occurs to reduce the temporary bolus volume due to the occlusion. (When in designated setting)	
*3 Setting values to be changed by the administrator with reference to the Operation Guide for Administrator.					<Repeat alarm> Sounds the alarm tone again if this product is left for more than 2 minutes without canceling the alarm after the alarm tone is muted.
Alarm	High priority alarms	Air-in-line, Empty container, Flow error (Excessive dripping, Insufficient dripping), Free flow, Downstream occlusion, Upstream occlusion*4, Battery empty, Door open, Drop sensor, Infusion complete, Power loss, System error		*4Some models are not equipped with this function.	
	Low priority alarms	Low battery, No set flow rate, Set value confirmation, Prior end of infusion, No action, Battery disconnection			
	Information signal	Door sensor, Power supply switched, Maintenance timer, Standby finish, Battery malfunction			
Operating conditions		Ambient temperature : 5 ~ 40°C Relative humidity : 20 ~ 90% (No condensation) Atmospheric pressure : 70 ~ 106kPa			
Transportation and Storage conditions		Ambient temperature : -10 ~ 45°C Relative humidity : 10 ~ 90% (No condensation) Atmospheric pressure : 50 ~ 106kPa			
Service life		6years (Self certification using TOP corporation data) However, this is the service life of the product after specified maintenance and replacement of consumables.			
Classification		Classification by electric shock protection : Class II (□) and internal powered equipment Classification of attachments by degree of electric shock protection: Defibrillation proof Type CF applied parts (♥) Classification by degree of protection against harmful ingress of water: IP32			
Detentions		92(W) x 181(H) x 189(D) mm			
Weight		Approx. 1.9kg			
Accessories		AC power cable x1 Operation guide x1 Administrators Manual x1			
Options		Pole clamp, Infusion stand			