

TOP INFUSION PUMP MJ-210



Automatic
IV set Attaching Function



Slot
Illumination

Easy
Operation



Specifications

Description	TOP INFUSION PUMP			
Model	MJ-210			
Power supply	AC adapter: Input AC 100-240V±10%, 50/60Hz, 0.32~0.19A : Output DC 5V, 2A Internal battery : DC 3.7V, 2500mAh, Li-ion battery (rechargeable) Battery life : Approx. 4 hours (When a new battery is fully charged with a 25mL/h set)			
Input current	0.32 A~0.19 A			
INFUSION SET	[Recommendation] TOP SOLUTION INFUSION SET U series [Available] INFUSION SET other than U series (Suitable for a CONFORMANCE TESTING)			
Flow rate range	Volume Control (Users mode)	20 drops	0.1 mL/h – 99.9 mL/h (0.1 mL/h increments) 100 mL/h – 1200 mL/h (1 mL/h increments)	
	Drip Control (General mode)	15 drops 20 drops 60 drops	1 mL/h – 400 mL/h 1 mL/h – 360mL/h 1 mL/h – 150 mL/h (1mL/h increments)	
Purge flow rate	Maximum FLOW RATE in INFUSION MODE			
KVO flow rate	0.1 mL/h~5.0 mL/h			
Volume limit range	0.1 mL~9999.9 mL (0.1 mL increments)			
Total volume range	0.0 mL~9999.9 mL (0.1 mL increments)			
*INFUSION ACCURACY	Volume Control (Users mode)	±5% (IEC60601-2-24, Clinical situations)		
	Drip Control (General mode)	±10% (IEC60601-2-24, Clinical situations, Water or Saline)		
*Occlusion detection pressure	DOWNSTREAM OCCLUSION		UPSTREAM OCCLUSION	
	Users mode		General mode	
Oc.Lv.3 : Oc.Lv.2 : Oc.Lv.1 : Oc.Lv.0 :		High 120±30 kPa Medium 90±30 kPa Low 60±30 kPa Lowest 30±20 kPa	High Medium Low Lowest	0 kPa – 100 kPa
When a value within the range from 0.1mL/h to 0.9mL/h is set, DOWNSTREAM OCCLUSION in General mode is detected in the equivalent of 10 kPa to 150 kPa in the Users mode.				
*Air-in-line detection sensitivity	Ar.Lv.0: High (Approx. 50 μ L) Ar.Lv.1: Medium (Approx. 0.1 mL/15 minutes) Ar.Lv.2: Low (Approx. 1 mL/15 minutes) 0.0000 is automatically selected.			
When a value in the range of 0.1~0.9mL/h is set,				
Alarms	HIGH PRIORITY ALARM	VOLUME LIMIT*, UPSTREAM OCCLUSION*, DOWNSTREAM OCCLUSION*, AIR-IN-LINE*, Empty container*, Flow error, FREE FLOW, DROP SENSOR, EJECT, Auto power OFF, Power loss, SYSTEM ERROR*		
	LOW PRIORITY ALARM	VOLUME LIMIT Pre-alarm, No battery, Low battery, No action Data reset, Unspecified FLOW RATE, Set value confirmation		
	INFORMATION	Maintenance timer, Power supply switch		
Special function	AUTOMATIC INFUSION SET ATTACHING FUNCTION		When the INFUSION SET is inserted into the specified position, the internal door closes automatically and the INFUSION SET is attached.	
	SLOT ILLUMINATION FUNCTION		Slot illumination is light when INFUSION SET is attached.	
Environmental conditions			Operating conditions	Transportation and storage conditions
	Ambient temperature Relative humidity Atmospheric pressure		10°C~40°C 20%~90% (Noncondensing) 70 kpa~106kPa	-10°C~45°C 10%~90% (Noncondensing) 50 kPa~106 kPa
Service life	6 years (self-certified using the TOP corporation data) (Assuming inspection and maintenance are carried out as indicated and consumable parts are replaced as needed)			
Classification	Class II \square and internally powered equipment, Type CF \square , IPX2 (Drip proof II) Continuous operation			
Dimensions	W 180 mm x H 113 mm x L 202 mm			
Weight	Approx. 1.8 kg (Including MJ CLAMP and INTERNAL BATTERY)			
Accessories	AC ADAPTER	\times 1	INTERNAL BATTERY	\times 1
	PLUG (BF or C-2 type)	\times 1	OPERATION GUIDE for Operators	\times 1
Accessories	DROP SENSOR	\times 1	OPERATION GUIDE for Administrators	\times 1
Options	AC ADAPTER PLUG (BF or C-2 type) DROP SENSOR	Rubber cap: TPE HANDLE: SUS304 / ABS DROP SENSOR HOLDER: ABS		

*Essential performance: Affects critically the safety of patients if it is not operated according to specifications. (IEC/EN 60601-2-24)

TOP Corporation