



THE TOP IN QUALITY  
for all areas of healthcare

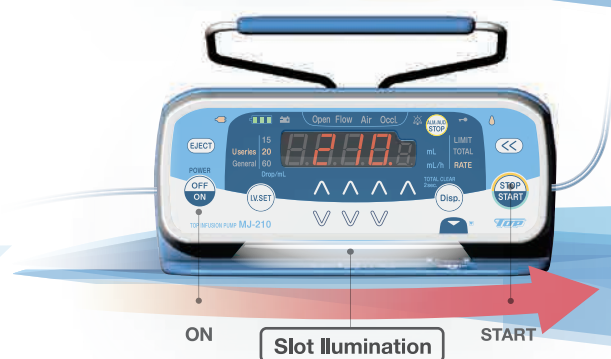
# TOP INFUSION PUMP MJ-210



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<br>: Output DC 5V, 2A<br>Internal battery : DC 3.7V, 2500mAh, Li-ion battery (rechargeable)<br>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<br>[Available] INFUSION SET other than U series (Suitable for a CONFORMANCE TESTING)  |   |  |                                       |
| Flow rate range  | Volume Control (Useries mode)   | 20 drops  | 0.1 mL/h – 99.9 mL/h (0.1 mL/h increments)<br>100 mL/h – 1200 mL/h (1 mL/h increments) |                                       |
|  | Drip Control (General mode)   | 15 drops  | 1 mL/h – 400 mL/h  |                                       |
|  |   | 20 drops  | 1 mL/h – 360mL/h   |                                       |
|  |   | 60 drops  | 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 (Useries mode)   | ±5% (IEC60601-2-24, Clinical situations)  |  |                                       |
|  | Drip Control (General mode)   | ±10% (IEC60601-2-24, Clinical situations, Water or Saline)  |  |                                       |
| *Occluson detection pressure   |   | DOWNSTREAM OCCLUSION  |  | UPSTREAM OCCLUSION                    |
|  |   | Useries mode  |  | General mode                          |
|  | Oc.Lv.3 :   | High 120±30 kPa   |  | 0 kPa -- -100 kPa                     |
|  | Oc.Lv.2 :   | Medium 90±30 kPa  |  |                                       |
|  | Oc.Lv.1 :   | Low 60±30 kPa Lowest  |  |                                       |
|  | Oc.Lv.0 :   | 30±20 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 Useries mode. |   |   |  |                                       |
| *Air-in-line detection sensitivity   | Ar.Lv.0:  | High (Approx. 50 uL)  |  |                                       |
|  | Ar.Lv.1:  | Medium (Approx. 0.1 mL/15 minutes)  |  |                                       |
|  | Ar.Lv.2:  | Low (Approx. 1 mL/15 minutes) <b>DOWNSTREAM OCCLUSION</b> 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<br>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 iinto 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   | 10°C-40°C   |  | -10°C-45°C                            |
|  | Relative humidity   | 20%-90%(Noncondensing)  |  | 10%-90% (Noncondensing)               |
|  | Atmospheric pressure  | 70 kpa-106kPa   |  | 50 kPa-106 kPa                        |
| Service life   | 6 years (self-certified using the TOP corporation data)<br>(Assuming inspection and maintenance are carried out as indicated and consumable parts are replaced as needed)   |   |  |                                       |
| Classification   | Class II <sup>□</sup> and internally powered equipment, Type CF <sup>■</sup> , IPX2 (Drip proof II)<br>Continuous operation   |   |  |                                       |
| Dimensions   | W 180 mm × H 113 mm × L 202 mm  |   |  |                                       |
| Weight   | Approx. 1.8 kg (Including MJ CLAMP and INTERNAL BATTERY)  |   |  |                                       |
| Accessories  | AC ADAPTER _____  | ×1  | INTERNAL BATTERY _____   | ×1                                    |
|  | PLUG (BF or C-2 type) _____   | ×1  | OPERATION GUIDE for Operators _____  | ×1                                    |
|  | DROP SENSOR _____   | ×1  | OPERATION GUIDE for Administrators _____   | ×1                                    |
| Accessories  | AC ADAPTER  | Rubber cap: TPE   |  |                                       |
|  | PLUG (BF or C-2 type)   | HANDLE: SUS304 / ABS  |  |                                       |
|  | DROP SENSOR   | DROP SENSOR HOLDER: ABS   |  |                                       |
| Options  | TOP I.V. STAND  |   |  |                                       |

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

## TOP Corporation

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