



TOP Syringe Pump TOP-5300

A standard syringe pump for an age of routine pump use.

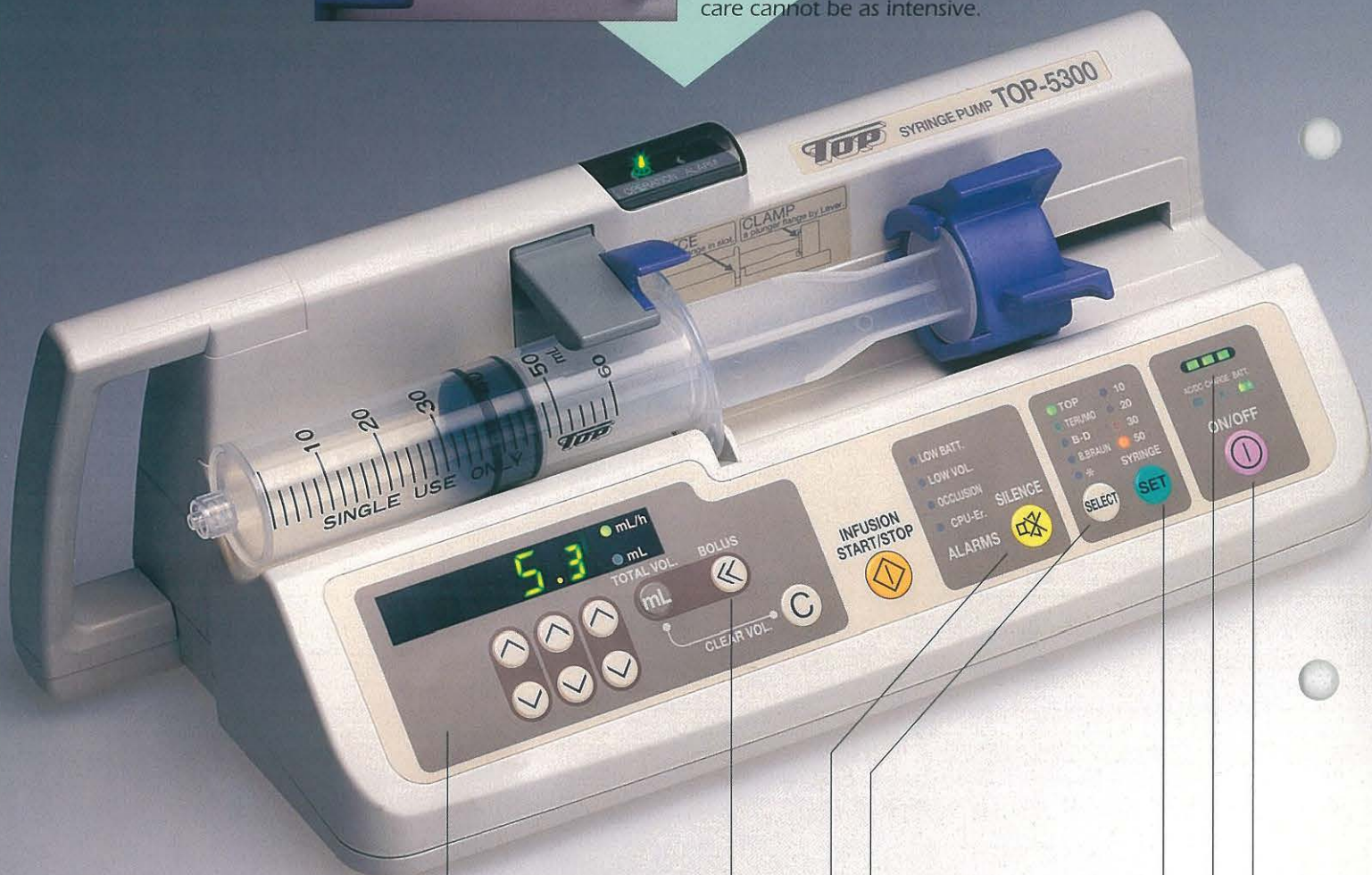


The range in flow rate settings has



Lighted Status Indicators

The status indicators at the top of the unit allow the operating status to be checked from the back side of the unit as well, making the pump suitable for use even on general hospital wards where the level of care cannot be as intensive.



Inclined Panel for Easy Visual Confirmation

The slope of the panel face has been increased so that numbers on the display and indicator lights can be easily checked, even at a distance.

Bolus Function

Useful for priming and when bolus injection is called for. To prevent incorrect operation, the bolus function is designed to work only when the mL key is pressed at the same time as the bolus key.

Alarm Panel

Warning lights alert the operator of low battery, low volume, occlusion, and internal malfunctions.

Brand Selection Key

Lets you select the make of syringe to be used.

Syringe Verification Key

Provided with a key for checking by means of indicator lights that the settings for the syringe being used are correct.

Battery Indicator

A 3-level indicator displays the charging status and remaining capacity of the internal battery.

Power Switch Safety Mechanism

A built-in safety mechanism prevents the power from shutting off immediately when the ON/OFF key is accidentally pressed during infusion.

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been expanded even further.

Plus visual confirmation of the pump status is now easier, enabling more effective use in the ICU, the operating room, and on hospital wards in general.

Greater Range in Flow Rate Settings

TOP-5300 provides the same outstanding infusion stability at low rates as our existing syringe pump, but has been upgraded by raising the infusion performance at high flow rates.

The maximum flow that can be set has been increased ten-fold, from 150ml/h in our existing pump, to 1,500ml/h in the TOP-5300. The result is an expanded number of applications, ranging from routine clinical use to supplementary feeding in premature infants and neonates, blood transfusions, chemotherapy in the ICU and CCU, and the infusion of therapeutic drugs such as antineoplastics, obstetric agents, anticoagulants and anesthetics, over a wide range of flow rate settings.

Compatible with Other Makes of Syringes

Accepts TOP as well as other leading makes of syringes in 10, 20, 30, and 50 ml sizes. The syringe brand setting can be changed by pressing the brand selection key on the panel. The syringe size is automatically identified when the barrel clamp is set.

Specifications 1: TOP, TERUMO, B-D, B. BRAUN
Specifications 2: B-D, TERUMO, MONOJECT, B. BRAUN

Continuously Monitors Plunger

A plunger detection sensor checks that the plunger has been properly set, and an internal mechanism continuously monitors plunger movement during infusion.

Occlusion Detecting Pressure Alarm is Adjustable

There are four switchable pressure levels for detecting occlusion of the infusion line and setting off the occlusion alarm.

Non-Alarm Buzzers Can Be Silenced

A buzzer silence mode can be selected to keep the buzzer from sounding during standby and key operation.

Retains Flow Rate and Total Infusion Volume Settings

When the power is turned off, the unit stores and retains current flow rate and total infusion volume settings for the next use.

Power Source Change Alarm

If the plug is accidentally pulled or a power failure occurs during AC power operation, the unit automatically switches over to the internal battery and an alarm is sounded.

Computer Integration System

The status of the syringe pump can be remotely monitored with an RS-232C connector (optional) for external communication.



External DC Power Compatible

Connects to external DC power source, enabling use of the pump within an ambulance.

Battery Replacement is Easy

The batteries can easily be replaced simply by opening the battery cover at the bottom of the unit.

Electromagnetic Compatibility (EMC Standards)

The pump conforms to the EU standards on electromagnetic compatibility (EMC Standards) which require that devices should not be affected by electromagnetic fields from external sources and should in turn not emit electromagnetic waves sufficient to affect the operation of other electronic devices.

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Specifications

Description	TOP Syringe Pump
Model	TOP-5300
Power supply	AC power source: AC100 to 240V±10% 50/60Hz (approx.) External DC power source: DC12.7 to 15V (exact) Built-in battery: Rechargeable, DC12V 700mAh Ni-Cd Model: BP-53 Continuous operation: Approx. two hours (when a new battery is fully recharged with 5mL/h set)
Power consumption current	AC power source: 0.3A(approx.) External DC power source: 0.5A (exact)
Applicable syringes	10mL, 20mL, 30mL and 50mL syringes from 1) TOP, TERUMO, B-D or B.BRAUN 2) B-D, TERUMO, MONOJECT or B.BRAUN can be used (in the auto selection[*]mode, only the 50mL syringe can be used).
Flow range	0.1- 400.0mL/h (10mL syringe) 0.1- 700.0mL/h (20mL syringe) 0.1- 900.0mL/h (30mL syringe) 0.1-1500.0mL/h (50mL syringe) (Settings adjustable in 0.1mL increments.)
Total infusion volume range	0.1-999.9mL
Infusion accuracy	Brand-specified mode Mechanical accuracy: ±1% Accuracy including the syringe: ±3% Auto selection[*]mode (Only 50mL syringes can be used.) Mechanical accuracy: ±1% Accuracy including the syringe: ±3% ※Accuracy obtained when infusion is performed for over one hour at an infusion rate of 1.0mL/h or more.
Bolus rate	Approx. 400.0mL/h (10mL syringe) Approx. 700.0mL/h (20mL syringe) Approx. 900.0mL/h (30mL syringe) Approx. 1500.0mL/h (50mL syringe)
Occulsion detecting pressure	4-step selection Extra high: 119.7±40.0kPa/ 900±300mmHg/ 1.22±0.41kgf/cm² High: 93.1±33.3kPa/ 700±250mmHg/ 0.95±0.34kgf/cm² Middle: 66.5±26.7kPa/ 500±200mmHg/ 0.68±0.27kgf/cm² Low: 39.9±20.0kPa/ 300±150mmHg/ 0.41±0.20kgf/cm²
Alarm	Low volume (inactive in the auto selection[*]mode), occulsion, low battery, syringe barrel/ syringe plunger clamp disengaged, power source switch, remainder, CPU error.
Special functions	Operation Reminder: If the system is left in the suspend state for approximately three minutes, a buzzer will sound. Auto power off: If the system is left in the "Operation Reminder" state for another three minutes while it is powered by an internal battery, it will be automatically shut off. Alarm repeat: If two minutes have elapsed without resetting the alarm after it is silenced, the alarm sounds again. Data memorize: Infusion rate set value/Total infusion volume storage setting is allowed. Buzzer setting: Presence/Absence of wait tone and operation tone can be specified. Power source switch alarm: Notifies by the alarm sound that power is no longer supplied from the AC or DC power source and the system has entered the battery operation mode.
Operating conditions	Ambient temperature: 10 to 40°C Relative humidity: 30 to 85% (no condensation) Atmospheric pressure: 70 to 106kPa
Transportation and storage conditions	Ambient temperature: -10 to 45°C Relative humidity: 10 to 90% (no condensation) Atmospheric pressure: 50 to 106kPa
Classification	Class I and Internally powered equipment, Type CF☑, IPX1 (drip proof)
Fuse	T1A
External dimentions	Approx. 320(W)x116(H)x139(D)mm
Weight	Approx. 2.2kg
Accessories	AC power source cord...1/Operation Guide...1
Options	TOP Pole Clamp/TOP Infusion Stand/External DC power source cord/Communication cable

TOP Infusion Stand



● Product specifications and appearance are subject to change without prior notice.

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