

TERUFUSION® Infusion Pump TE-171/TE-172

PRESS



The outstanding reliability of Terumo's MIDPRESS puts you at ease



The TERUFUSION® Infusion Pump TE-171/TE-172 boasts a new MIDPRESS system that provides highly accurate

With other user-friendly and advanced safety features, the TE-171/TE-172 fully meets the demands of modern infusion therapy.



User-friendly features and easy operation in

Body weight mode

The TE-172 automatically calculates and sets the proper flow rate when the dose rate, body weight, drug mass and solution volume are entered. This eliminates the need for time-consuming calculations and having to refer to a conversion table.

- Press the [DISPLAY ON/OFF] switch and the body weight mode screen lights up.
- Press [SELECT] switch to select between the dose rate (µg/kg/min.), body weight (kg), drug mass (mg), and solution volume (mL).
- The flow rate is automatically calculated and displayed after entering the specified dose rate, body weight, drug mass and solution volume.

 $\label{eq:flowed-flow$

"I Coefficient to convert "minute (min.)" to "hour (h)"

"2 Coefficient to convert "mg" to "pg"



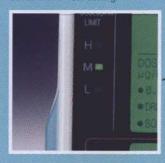
Convenient time remaining indication function

After the flow rate and volume to be delivered have been input, the time required to complete the delivery is automatically indicated.



Selectable three-step (L, M and H) occlusion detection pressures

As versatile as they are reliable, these infusion pumps provide a variety of pressure level settings (three in all) to match virtually any requirement. For earlier alarm notification during occlusion, the detection pressure can be set at the lowest setting.



Informative alarms and added safety functions

User-friendly alarms and safety functions include: air in-line, occlusion, irregular flow, door alarm, low battery, re-alarm, start reminder alarms and self check, and a front panel lock-out safety functions.

Easy-to-read, large display

Brightness adjustable display

The brightness of the display can be lowered to allow a patient to enjoy undisturbed sleep.

Door light for easy nighttime use

The light inside the door is convenient for nighttime use.







Convenient battery indicator

The TE-171/TE-172 features a series of informative battery indicator lamps for easy confirmation of the onboard battery power* (three levels).

* Operates for approximately three hours in continuous use.

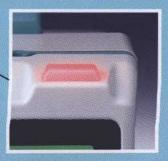
single space-saving unit

TERUFUSION® Infusion Pump TE-171/TE-172

Easy-to-see operation indicators

For easy confirmation from any angle, the indicator lamp protrudes from the unit.

A green lamp blinks to indicate that operation is in progress, while a flashing red warning lamp informs the user that a problem has occurred.



Simple maintenance care

The main body and door construction employ rubber sealing to prevent solution leakage. Solution left on the surface can be easily wiped off thanks to its rounded corner design.



Three-way power supply (AC/DC/internal battery)

Trouble-free battery replacement

The battery can be easily exchanged via the quick-access battery compartment. Now replacing a battery does not require removing the unit's entire casing.



Connects to the drip sensor (option)

For safety, this drip sensor (option) can double check irregular flow rates.



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History function

Historical data of infusion records: warnings, settings, starts and stops of infusion, etc.

Computer interface connector available

Computer interface connection enables connection to RS-232C/RS-485.

Nurse call connector available







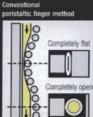
Battery operation time reference:

" When the low-battery alarm is not on.

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Terumo has developed an innovative MIDPRESS system that uses a new peristaltic finger method. With the conventional peristaltic finger method, solutions are administered by occluding the solution-administration tube until it becomes completely flat.

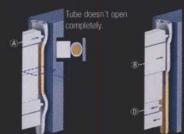
With the new MIDPRESS method, however, solutions are administered with high accuracy by pressing the solution-administration tube only halfway to closure. By precisely controlling the finger and stroke through the MIDPRESS, a stable volume is delivered and a more accurate flow rate is achieved.



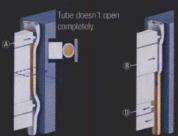
MIDPRESS System







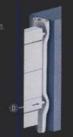
Inflow stops



Outflow



Outflow



Outflow stops



Pulse flow adjustment



· High accuracy

Wide range of flow rate settings is possible — from very low to high.

Transfusion

Since the MiDPRESS system doesn't press the tube completely flat,

· Solid aluminum die-cast frame



Specifications

Product Name	TERUFUSION Infusion Pump TE-171	TERUFUSION Infusion Pump TE-172			
Model	TE-171 TE-172				
Pumping System	MIDPRESS peristaltic finger system vide accurate infusion without pres	n (A newly developed system to pro- ssing the tubing completely.)			
Accuracy (Nominal value)	sets type E for pump, solution: wat delivery rate: 1.0mL/h or more, ter Within ±5% [Conditions] Infusion s	mperature: 25°C set: Specified TERUFUSION Infusion ne, test time: second hour, delivery			
Delivery Rate	0.1 – 1,200mL/h (0.1 – 99.9mL/h: 0.1mL/h step, 100 – 1,200mL/h: 1mL/h step). The delivery rate can be set in 1mL/h step throughout the range by the internal mode select switch.				
Delivery Limit	1 - 9,999mL (1mL step) or ""	(delivery limit free)			
Volume Delivered	0.0 – 9,999mL (0.0 – 99,9mL: 0.1mL step, 100 – 9,999mL: 1mL step). The volume delivered reading is in 1mL step from 1 to 9,999mL by the internal mode select switch.				
Purging	Higher than 500mL/h				
Alarms	AIR/OCCLUSION/FLOW ERR./DOOR/LOW BATT.				
	"Operation indicator flashes red, and the alarm message come on. Pums stops except during the "LOW BATT." alarm.				
Occlusion Detection Pressure	13.3 – 133.3kPa (100 – 1,000mmHg, 0.1 – 1.4kgf/cm²) The detection pressure can be adjusted in 3 levels (L, M, H) within the above range.				
Completion Function	When the total volume delivered reaches the preset delivery limit, the indicator and buzzer notify the operator.				
Nurse Call Alarm	Outputs an alarm relay contact. (Can be connected to the nurse call sys- tem) Contact rating: DC12V 1.0A				
Computer Interface*	RS-232C/RS-485				
Special Functions					

Special Functions	The following functions can be selected via internal switches. • Volume memory function				
Operating Conditions	Delivery rate 1mL/h step Temperature: +10 to +40°C, humidity: 20 to 85%				
Storage Conditions	Temperature: -20 to +45°C, humidity: 10 to 95% (No condensation)				
Power Supply	AC 100 – 120V/AC 100 – 240V, 50/60 Hz DC12 – 15V Internal Nickel-Cadmium battery Operating time: approx. 3 hours Conditions: new battery, delivery rate: 25mL/h, temperature: 25°C, with the power off, after 15-hour charging				
Power Consumption	24VA (AC 100 - 120V)/28VA (AC 100 - 240V), 11W (DC power)				
Classification	Class I & internal power supply: Type CF/IPX1 Continuous operation				
Dimensions	100 (W) x 215 (H) x 208 (D) mm (Excl. protrusions)				
Weight	Approx. 3.6kg (TE-171), 3.7kg (TE-172)				

Computer interface is available on the specified product.

TE-172		
Body Weight Mode	Dose Rate: 0.01 - 99.99µg/kg/min. (0.01µg/kg/min. step)	
(Dose Rate Calculation)	Body weight: 0.1 - 300.0kg (0.1kg step)	
	Drug mass: 0.1 - 999.9mg (0.1mg step)	
	Solution volume: 0.1 - 999.9mL (0.1mL step)	
Memory Function	The latest five patterns of the above four parameters are automatically saved and can be displayed.	

^{*}The specifications and design are subject to change without notice,

Units available

Reorder number	Voltage	Plug type	Socket type	Body weight mode	Computer interface
TE*171NX1	100 to 120V	American		let i	(4)
TE*171NW2	100 to 240V	UK			42
TE*171NW3	100 to 240V	European	0		
TE*171NW3*	100 to 240V	European	0	5:27	1.0
TE*171CX1	100 to 120V	American		90	yes
TE-171CW2	100 to 240V	UK	[.]	- 5-0	yes
TE*171CW3	100 to 240V	European	0	180	yes
TE*171CW3*	100 to 240V	European	0	197	yes
TE*172CX1	100 to 120V	American		yes	yes
TE*172CW2	100 to 240V	UK		yes	yes
TE*172CW3	100 to 240V	European	0	yes	yes
TE*172CW3*	100 to 240V	European	0	yes	yes

^{*}Separate setup procedures are required for product with voltage-plug combination other than listed above.

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