The outstanding reliability of Terumo's MIDPRESS puts you at ease
Through high accuracy and dependability, Terumo makes my choice easy.

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

With other user-friendly and advanced safety features, the TE-171/TE-172 fully meets the demands of modern infusion therapy.
Body weight mode
The TE-172 automatically calculates and sets the proper flow rate when the body weight, 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.
1. Press the [DISPLAY ON/Off] switch and the body weight mode screen lights up.
2. Press [SELECT] switch to select between the flow rate (mg/h/mL), body weight (kgs), drug mass (mg), and solution volume (mL).
3. The flow rate is automatically calculated and displayed after entering the specified dose rate, body weight, drug mass and solution volume.

Selectable three-step (L, M and H) occlusion detection pressures
As versatile as they are reliable, three occlusion pumps provide a variety of pressures level settings (three in all) to match virtually any requirement. For similar alarm notification during occlusion, the detection pressure can be set as the lowest setting.

Informative alarms and added safety functions
User-friendly alarms and safety functions include: air-in-line occlusion, irregular flow, user alarm, low battery, re-alarm, start reminder alarm 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 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.

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

* Depends on environment; after about 20 minutes to 2 hours.
Easy-to-see operation indicators
For easy confirmation from any angle, the indicator lamp produced 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, the drip sensor (option) can double check irregular flow rate.

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:
- AC power: 160 hours or longer
- DC power: 65 hours or longer
- Battery: 20 hours or longer

*When the drip battery alarm is turned on
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**
  - Solution flows into the tube.

- **Inflow stop**
  - A certain amount of solution is occluded in the tube as part A presses against the tube.

- **Outflow**
  - Solution starts as part C opens and part B presses the tube.

- **Outflow stop**
  - Part D occludes the tube.

- **Pulse flow adjustment**
  - Pressure between the tube and completion of inflow cycle

**High accuracy**

High flow rate accuracy is achieved within ±2% using the specified infusion set (type E) for pump and within ±5% using conventional infusion sets for pumping. The MIDPRESS method is accessible for maintaining flow rate changes even over long periods, particularly for the delivery of vasopressor or depressor drugs.

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

Flow rates can be set within a wide range from 0.1 to 1,200 mL/hr. This makes it possible to perform infusions in a wide variety of situations and applications, such as small infusions for neonatal babies, rapid infusion for emergency care and the delivery of parenteral nutrition.

**Transfusion**

Since the MIDPRESS system does not press the tube completely flat, damage to hemocytosis is reduced. This means the TE-171/TE-172 can be used for blood transfusions in pediatric or ICU cases with the specified extension tube for pumps.

**Solid aluminum die-cast frame**

The Terumo-Cyva intravenous pump TE-171/TE-172 has a precision machined solid aluminum die-cast frame for the base of the MIDPRESS large part. This structure helps ensure highly accurate flow rates.
TERUFUSION® Infusion Pump TE-171/TE-172

Specifications

<table>
<thead>
<tr>
<th>Spec</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong>:</td>
<td>TE-171/TE-172</td>
</tr>
<tr>
<td><strong>Pumping System</strong>:</td>
<td>TERUFUSION® Infusion Pump System</td>
</tr>
<tr>
<td><strong>Accuracy (Nominal value)</strong>:</td>
<td>Within ±1.0% (Conditions: pump at specified TERUFUSION® Infusion rate 0.1 ml/hr, flow rate &lt; 1 ml/hr, and temperature 25°C)</td>
</tr>
<tr>
<td><strong>Delivery Rate</strong>:</td>
<td>0.1 - 20000 ml/hr, 0.1 - 5.0 ml/hr in 0.1, step 1 - 2000.0 ml/hr in 1.0 ml/hr steps. The delivery rate can be set in 0.1 ml/hr steps throughout the range by the internal menu switch.</td>
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<tr>
<td><strong>Battery Life</strong>:</td>
<td>1.1 - 2000.0 hr, step = 1.0 hour battery life</td>
</tr>
<tr>
<td><strong>Volume Delivered</strong>:</td>
<td>0.0 - 99.999 ml, 0.0 - 999.999 ml/hr, step = 0.0001 ml, 0.0001 ml/hr steps. The volume delivered is 1 ml/hr steps from 1 to 99.999 ml/hr by the internal menu switch.</td>
</tr>
<tr>
<td><strong>Pumping</strong>:</td>
<td>Higher than 1600/hr</td>
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<tr>
<td><strong>Alarm</strong>:</td>
<td></td>
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<tr>
<td><strong>Occurrence Detection Pressure</strong>:</td>
<td>133 - 1330.0 kPa (10 - 1000.0 mmHg, 0.1 - 1.0 atm)</td>
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<tr>
<td><strong>Computation Function</strong>:</td>
<td>When the internal volume delivered reaches the preset delivery value, the indicator, buzzer and alarm are activated.</td>
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<tr>
<td><strong>Nurse Call Alarm</strong>:</td>
<td>Output an alarm relay contact. Can be connected to the nurse call system through D.C. output voltage 24VDC (1A)</td>
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<tr>
<td><strong>Computer Interface</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Special Functions</strong>:</td>
<td>- &quot;Auto-start&quot; function (When the delivery limit has been reached, delivery continues at 1 ml/hr or a set flow rate of 0.01 ml/hr or at the delivery rate setting + 1.0 ml/hr)</td>
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<tr>
<td></td>
<td>- &quot;Maintaining&quot; function (The delivery status is maintained, tubing is automatically clamped)</td>
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<tr>
<td></td>
<td>- &quot;Flow monitoring&quot; function</td>
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<tr>
<td></td>
<td>- &quot;Battery capacity indicator&quot; (1.5 levels)</td>
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<td></td>
<td>- &quot;Alert&quot; function (5 levels)</td>
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<tr>
<td></td>
<td>- &quot;Operation history function&quot; (5 levels)</td>
</tr>
<tr>
<td></td>
<td>- &quot;Select area&quot; function</td>
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<tr>
<td></td>
<td>- &quot;Start&quot; function</td>
</tr>
<tr>
<td><strong>Temperature Range</strong>:</td>
<td>0°C to 50°C</td>
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<tr>
<td><strong>Humidity</strong>:</td>
<td>5% to 95% RH, non-condensing</td>
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<tr>
<td><strong>Dimensions</strong>:</td>
<td>190 (W) x 210 (D) x 286 (H) (299 mm with front panel)</td>
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<tr>
<td><strong>Weight</strong>:</td>
<td>1.1 kg</td>
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</tbody>
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*For more information, please visit TERUMO CORPORATION website.*