### Insulin Pumps

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<tr>
<td><strong>Animas Corp.</strong>&lt;br&gt;<strong>OneTouch Ping</strong>&lt;br&gt;<strong>Medtronic Diabetes</strong>&lt;br&gt;<strong>Asante</strong>&lt;br&gt;<strong>MiniMed 530G With Enlite</strong>&lt;br&gt;<strong>Insulet Corp.</strong>&lt;br&gt;<strong>OmniPod</strong>&lt;br&gt;<strong>Diasend and Glooko Web-based blood glucose management system</strong>&lt;br&gt;<strong>ezManager Max data management software</strong>&lt;br&gt;<strong>CoPilot personalized software</strong></td>
<td>3.8 x 1.72 x 0.75 in. 2.9 oz</td>
<td>(1) AAA 300-unit prefilled cartridges</td>
<td>With Snap infusion sets only.</td>
<td>From 0 to 4 units per hour in 0.05-unit increments</td>
<td>From 0.025 to 25 units per hour in 0.05-unit increments</td>
<td>Yes, meter remote stores up to 500 foods and their nutrition information. Added software allows users to customize food database.</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<td><strong>Medtronic Diabetes</strong>&lt;br&gt;<strong>Minimed 530G With Enlite</strong>&lt;br&gt;<strong>Insulet Corp.</strong>&lt;br&gt;<strong>OmniPod</strong>&lt;br&gt;<strong>Diasend and Glooko Web-based blood glucose management system</strong>&lt;br&gt;<strong>ezManager Max data management software</strong>&lt;br&gt;<strong>CoPilot personalized software</strong></td>
<td>2 x 4.4 x 0.98 in.</td>
<td>(2) AAA</td>
<td>200-unit cartridge</td>
<td>Compatible with all standard, Luer-lock connectors.</td>
<td>0.05 to 0.5 units in increments of 0.05 to 5 units. Insulin-to-carb ratio allows for fractions of grams.</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<td><strong>Medtronic Diabetes</strong>&lt;br&gt;<strong>Minimed 530G With Enlite</strong>&lt;br&gt;<strong>Insulet Corp.</strong>&lt;br&gt;<strong>OmniPod</strong>&lt;br&gt;<strong>Diasend and Glooko Web-based blood glucose management system</strong>&lt;br&gt;<strong>ezManager Max data management software</strong>&lt;br&gt;<strong>CoPilot personalized software</strong></td>
<td>2 x 3.4 x 0.88 in.</td>
<td>(1) AAA</td>
<td>180-unit reservoir</td>
<td>Compatible with Medtronic infusion sets. Using a Fifty50 Medical reservoir allows pump to connect to all standard, Luer-lock connectors.</td>
<td>0.025 to 25 units. Increments of 0.025 units up to 25 units. 0.05 units for 0.5 units or more. Insulin-to-carb ratio allows for fractions of grams.</td>
<td>Yes, meter remote sends blood glucose results wirelessly to pump.</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
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**Insulin Pumps:**
- **Company/Insulin Pump:**
  - Animas Corp.
  - Medtronic Diabetes
  - Asante
  - Insulet Corp.
  - Insulet Corp.
  - Diasend and Glooko Web-based blood glucose management system
  - ezManager Max data management software
  - CoPilot personalized software

**Size and Weight:**
- Animas Corp.: 3.8 x 1.72 x 0.75 in. 2.9 oz
- Medtronic Diabetes: 3.8 x 2.25 x 0.85 in.
- Asante: 3.9 oz.
- Insulet Corp.: 3.8 x 2.05 x 0.97 in.
- Insulet Corp.: 2 x 4.4 x 0.98 in.
- Medtronic Diabetes: 2 x 3.4 x 0.88 in.

**Battery:**
- Animas Corp.: (1) AAA
- Medtronic Diabetes: (1) 1.5-volt lithium AA
- Asante: (2) AAA
- Insulet Corp.: (1) AAA
- Insulet Corp.: AAA
- Medtronic Diabetes: (1) AAA

**Reservoir:**
- Animas Corp.: 200-unit cartridge
- Medtronic Diabetes: 300-unit prefilled cartridges
- Asante: 300-unit prefilled cartridges
- Insulet Corp.: AAA
- Insulet Corp.: AAA
- Medtronic Diabetes: 180-unit reservoir

**Infusion Set:**
- Animas Corp.: Compatible with Snap infusion sets only.
- Medtronic Diabetes: Compatible with all standard, Luer-lock connectors.
- Asante: Compatible with Snap infusion sets only.
- Insulet Corp.: Does not use tubing. Pod comes with a built-in cannula and automated inserter.

**Basal Range:**
- Animas Corp.: From 0.025 to 25 units per hour in 0.05-unit increments
- Medtronic Diabetes: From 0.025 to 25 units. Increments of 0.025 units up to 25 units. 0.05 units for 0.5 units or more.
- Asante: From 0.1 to 25 units per hour in 0.05-unit increments
- Insulet Corp.: From 0 to 0.5 units per hour in 0.05-unit increments

**Bolus Range:**
- Animas Corp.: 0.05 to 0.5 units in increments of 0.05 to 5 units. Insulin-to-carb ratio allows for fractions of grams.
- Medtronic Diabetes: 0.05 to 0.5 units in increments of 0.05 to 5 units.
- Asante: 0.1 to 25 units in increments of 0.05 to 5 units. Insulin-to-carb ratio allows for fractions of grams.
- Insulet Corp.: 0.05 to 0.5 units in increments of 0.05 to 5 units.

**Food Database?:**
- Animas Corp.: Yes, meter remote stores up to 500 foods and their nutrition information.
- Medtronic Diabetes: Yes, PDM contains more than 1,000 common foods and their nutrition information, and stores up to 36 preset carbohydrate values for user-selected foods.
- Asante: No
- Insulet Corp.: No

**Meter Interaction?:**
- Animas Corp.: Yes, a Freestyle blood glucose meter is built into the PDM.
- Medtronic Diabetes: Yes, Contour NextLink meter wirelessly sends blood glucose results to pump.
- Asante: Yes, available as a stand-alone pump or an all-in-one pump/CGM.
- Insulet Corp.: No

**CGM Interaction?:**
- Animas Corp.: No
- Medtronic Diabetes: No
- Asante: No

**Details:**
- Animas Corp.: Meter remote and pump can each control nearly all pump functions, including delivering a bolus, monitoring pump stats, and confirming alarms and warnings. Meter remote works from up to 10 feet away.
- Medtronic Diabetes: Pump is waterproof for up to 12 feet deep for 24 hours, so there’s no need to disconnect while swimming or bathing. Eight pump and 8 meter remote “skins” are available to customize. Works with ezManager Max data management software. Software is compatible with Windows (except Windows 7 and 8 and Mac operating systems). Pump also works with Diasend Web-based software.
- Asante: Snap pump consists of two parts: a controller with buttons that can control pump functions and a disposable pump body that snaps into the controller. A profiled, seven-day Humalog insulin cartridge inserts into the pump body. (NovoLog cartridges are in development.) Battery is integrated into disposable pump body so it doesn’t need to be replaced or recharged. Built-in flashlight. Pump automatically fills new infusion set with insulin during assembly. Remove pump before bathing, swimming, or other water activities. Pump calculates insulin missed while pump has been disengaged. Asante has plans for the Snap to work with Diasend and Glooko Web-based blood glucose management systems. Not approved for use in children.
- Insulet Corp.: Pump is waterproof for up to 25 feet deep for 24 hours and shouldn’t be removed when swimming or bathing. Seven “skins” are available for PDM personalization. Works withAbbott’s CoPilot data management software. Software is compatible with Windows (except Windows 8), but is not Mac compatible.
- Medtronic Diabetes: Pump is waterproof for up to 12 feet deep for 24 hours, so there’s no need to disconnect while swimming or bathing. Seven “skins” are available for PDM personalization. Works withAbbott’s CoPilot data management software. Software is compatible with Windows (except Windows 8), but is not Mac compatible.
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<td>Medtronic Diabetes</td>
<td>2 x 3.3 (2.8 at the battery cap) x 0.82 in. 3.4 oz.</td>
<td>(1) AAA</td>
<td>180-unit reservoir</td>
<td>Compatible with Medtronic infusion sets. Using a Fifty50 Medical reservoir allows pump to connect to all standard, Luer-lock connectors.</td>
<td>From 0.025 to 15 units per hour in 0.025-unit increments. Increments of 0.05 units for up to 0.975 units; increments of 0.1 units for 10 units or more.</td>
<td>0.025 to 25 units. Increments of 0.025 units up to 0.975 units. Increments of 0.05 units for 0.975 units or more. Insulin-to-carb ratio allows for fractions of grams.</td>
<td>No</td>
<td>Yes, Contour Next Link meter wirelessly sends test results to pump.</td>
<td>Yes, available as a stand-alone pump or an all-in-one pump/CGM.</td>
<td>The Real-Time Revel is a pump with built-in CGM technology that uses a sensor to wirelessly transmit continuous glucose readings. (More on its CGM functions on p. 56.) Remove-control capabilities. Remove pump body before bathing, swimming, or other water activities. Pump comes in five different colors, and “skins” are available to customize pump. Works with CareLink Personal software to upload and manage pump and CGM data. Compatible with Windows (except Windows 8) and Mac (except OS X 10.9.1) operating systems.</td>
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<td>Roche Insulin Delivery Systems</td>
<td>3.2 x 2.2 x 0.8 in. Meter remote: 3.7 x 2.2 x 1.0 in.</td>
<td>Pump: (1) AA lithium, alkaline, or rechargeable</td>
<td>115-unit cartridge</td>
<td>Compatible with all standard, Luer-lock connectors.</td>
<td>From 0.05 to 25 units per hour. Delivers in 0.01-unit increments for up to 1 unit per hour, in 0.05-unit increments for up to 10 units per hour, and in 0.1-unit increments for up to 25 units per hour.</td>
<td>0.1 to 25 units in increments of 0.1, 0.2, 0.5, 1, and 2 units for Standard boluses. Extended and Multiwave boluses are adjustable in increments of 0.1 units. Insulin-to-carb ratio allows for fractions of grams.</td>
<td>No</td>
<td>Yes, Accu Chek Aviva Combo meter remote sends results wirelessly to pump.</td>
<td>No</td>
<td>Meter remote and pump can each control nearly all pump functions, including delivering a bolus, monitoring pump stats, and confirming alarms and warnings. Meter screen displays graphs and data in full color. Meter remote works from about 6 feet away. Pump is water-tight for up to 8 feet for 1 hour, though disconnecting is recommended for bathing, swimming, and other water activities. Works with Accu-Chek 360° software, insulin pump configuration software, and Smart Pix device reader for data management. Software and reader are compatible with Windows (except Windows 8); only 360° software works with Windows 7 but are not Mac compatible.</td>
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<tr>
<td>Sooil Development Dana Diabecare IIS</td>
<td>2.95 x 1.77 x 0.75 in. 1.8 oz. without battery</td>
<td>(1) 3.6-volt DC lithium</td>
<td>300-unit cartridge</td>
<td>Compatible with Sooil infusion sets only.</td>
<td>From 0.1 to 16 units per hour in 0.1-unit increments. From 10 to 87 units in 1-unit increments.</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Menu uses icons instead of words. Available in a choice of five colors. Does not work with data management software.</td>
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<td>Tandem Diabetes Care Tslim</td>
<td>3.13 x 2.0 x 0.6 in. 3.95 oz. with battery and full reservoir</td>
<td>Rechargeable lithium polymer battery</td>
<td>300-unit cartridge</td>
<td>Compatible with all standard, Luer-lock connectors.</td>
<td>From 0.1 to 15 units per hour in 0.001-unit increments.</td>
<td>0.05 to 25 units in 0.01-unit increments with an option for an additional 25 units. Insulin-to-carb ratio allows for fractions of grams.</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Color touch screen. Flat reservoir design and micro-delivery technology allow for a thinner pump. Rechargeable battery with micro USB. Delivers smallest basal insulin increments available. Pump is water-tight for up to 3 feet deep for 30 minutes, so there’s no need to disconnect while swimming or bathing. Works with T-Connect Diabetes Management Application, Tandem’s Web-based software that works with both Windows (except Windows 8) and Mac operating systems. May be used by children 12 and over.</td>
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