

INSULIN PUMPS

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Manufacturer	Model	CGM	Management Software	Size (inches)	Weight (ounces)	Reservoir Type	Basal Increment	Total Basal Rates/Profiles	Temporary Basal Rates	Max Basal Rate	Bolus Increments and Maximum	Bolus Duration for 1 Unit	Bolus Types	Bolus Programming Methods	Max Bolus Limit	Memory, Special Features	Battery Life	Battery Type	Use With Water
Tandem Diabetes Care®	 t:slim X2™ Insulin Pump	Dexcom G5® Mobile CGM	t:connect® Diabetes Management Application Plus 3rd party software, including diasend® and Tidepool®	2.0 x 3.13 x 0.6	3.95 ounces Including cartridge and 300 units of insulin	300 units Disposable cartridge with Micro-Delivery™ Technology	0.001 units at programmed rates ≥ 0.1 units/hr. Delivery every 5 minutes.	6 customizable profiles. Each profile has up to 16 timed segments with custom basal rates, correction factors, carb ratios, and target BGs.	Yes. Can be programmed from 0% to 250% of current basal in increments of 1%. Duration can be set for 15 minutes to 72 hours in one-minute increments.	Yes, 15 units/hr	0.01 unit increments from 0.05 to 25 units. Option for an additional 25 unit bolus.	~20 seconds	Standard, Correction, Extended, and Quick Bolus options. Programmable in grams of carbs or units of insulin.	Touchscreen numeric keypad entry with integrated bolus calculator. Quick bolus button (audible/vibrate)	Yes, 25 units with option for 25 more units	Non-volatile memory with > 90-days of history. Easy to use high-contrast color touchscreen pump for users 6-years of age and over. Only pump capable of remote software updates (subject to FDA approval). Up to 38% smaller than other pumps, yet still holds 300 units of insulin. Rechargeable battery can save hundreds of dollars per year of use.	7 days between charges	Built-in rechargeable lithium polymer battery. Charged via wall, car, or USB outlets with-out interrupting insulin delivery.	Watertight to 3 feet for up to 30 minutes (IPX7 rating)
	 t:flex® Insulin Pump	N/A	t:connect® Diabetes Management Application Plus 3rd party software, including diasend® and Tidepool®	2.0 x 3.13 x 0.84	4.05 ounces Including cartridge and 480 units of insulin	480 units Disposable cartridge with Micro-Delivery™ technology	0.001 units at programmed rates ≥ 0.5 units/hr. Delivery every 5 minutes.	6 customizable profiles. Each profile has up to 16 timed segments with custom basal rates, correction factors, carb ratios, and target BGs.	Yes. Can be programmed from 0% to 250% of current basal in increments of 1%. Duration can be set for 15 minutes to 72 hours in one-minute increments.	Yes, 15 units/hr	0.01 unit increments from 0.05 to 60 units.	~20 seconds	Standard, Correction, Extended, and Quick Bolus options. Programmable in grams of carbs or units of insulin.	Touchscreen numeric keypad entry with integrated bolus calculator. Quick bolus button (audible/vibrate)	Yes, 60 units	Non-volatile memory with > 90-days of history. The t:flex Insulin Pump just fits. It is designed to help make your day-to-day insulin management as simple as possible by giving you more freedom and flexibility than you get with injections. The t:flex Pump is small and discreet, but has enough capacity to meet your daily insulin needs with its 480 unit capacity and 60 unit maximum bolus.	4 days between charges	Built-in rechargeable lithium polymer battery. Charged via wall, car, or USB outlets with-out interrupting insulin delivery.	Watertight to 3 feet for up to 30 minutes (IPX7 rating)
Insulet Corporation	 OmniPod® Insulin Management System	N/A	Only 3rd party software, including diasend®, Glooko, and Tidepool®	<b>POD:</b> 1.53 x 2.05 x 0.57 <b>PDM:</b> 4.5 x 2.5 x 1.0	<b>POD:</b> .88 ounces with empty reservoir <b>PDM:</b> 4.4 ounces with batteries	200 units Reservoir integrated into Pod	0.05 units	7 programs with up to 24 segments each, programmable in 30-minute increments.	Yes. Can be programmed as percentage of current program (-100% to 95% in 5% steps) or units per hour (0.0 to 30.0 in 0.05 steps) for a duration of 30 minutes to 12 hours in 30-minute increments.	Yes	0.05, 0.1, 0.5, 1.0 units up to 30 units	40 seconds	Meal, correction, meal and correction; normal, extended, combination	Menu	Yes	No tubing required. System includes a disposable Pod that is worn for 72 hours and a PDM that wirelessly controls the Pod's functions. Pod integrates the infusion set, cannula, and automated inserter. PDM includes a built-in FreeStyle® blood glucose meter, contains a food library with more than 1,000 common foods and their nutrition information, and stores 90 days of data (up to 5,400 records).	<b>PDM:</b> 3 weeks	Two AAA alkaline	<b>POD:</b> Water proof to 25 feet for up to 60 minutes (IPX8 rating). No need to disconnect from the Pod for swimming or bathing.
Medtronic	 MiniMed® 630G	Enlite®	CareLink®	2.1 x 3.78 x 0.96	95.7 grams	300 units	0.025 units/hour (up to 1.0 unit/hr) 0.05 units/hour (up to 10 units/hr) 0.1 units/hour (up to 35 units/hr)	8 named patterns with up to 48 segments each	Yes. Can be programmed as percentage of current basal rate (0% to 200%) or units per hour, for a duration of 30 minutes to 24 hours. Limited by max basal rate.	Yes, 35 units/hr	0.025, 0.05, 0.1 units up to 25 units	40 seconds, standard 4 seconds, quick delivery	Normal, Dual Wave, Square Wave, Easy and Preset	Bolus Wizard, Manual, Remote (using BG meter), Easy and Preset	Yes	The MiniMed 630G system features Medtronic's exclusive SmartGuard® technology included in the MiniMed 530G system, but with a new user-friendly design. Based on extensive user-experience testing, the pump design is now waterproof, has remote bolus functionality through the meter, adjustable alerts, and features a bright, full-color screen. Works with CareLink Personal software to upload and manage pump and CGM data. Compatible with Windows (except Windows 8) and Mac operating systems. Not approved for use in children under 16.	2 weeks with alkaline 4 weeks with lithium	One AA lithium or alkaline; readily available	Water resistant to 12 feet for 24 hours (IPX8 rating)
	 MiniMed® 670G	Guardian®3	CareLink®	2.1 x 3.78 x 0.96	95.7 grams	300 units	<b>SUSPEND BEFORE LOW:</b> 0.025 units/hr (up to 1.0 unit/hr) 0.05 units/hr (up to 10 units/hr) 0.1 units/hr (up to 35 units/hr) <b>AUTO MODE:</b> Basal delivery automatically determined by system	<b>SUSPEND BEFORE LOW:</b> 8 named patterns with up to 48 segments each <b>AUTO MODE:</b> Automated basal delivery based on sensor glucose and recent insulin delivery	<b>SUSPEND BEFORE LOW:</b> Yes. Can be programmed as percentage of current basal rate (0% to 200%) or units per hour, for a duration of 30 minutes to 24 hours. Limited by max basal rate. <b>AUTO MODE:</b> Using a Temp Target, the target BG for the automated basal delivery can be temporarily increased to 150 mg/dL for up to 12 hours.	<b>SUSPEND BEFORE LOW:</b> Yes, 35 units/hr <b>AUTO MODE:</b> Personalized for each user	<b>SUSPEND BEFORE LOW:</b> 0.025, 0.05, 0.1 units up to 25 units <b>AUTO MODE:</b> Correction bolus sizes are determined by the algorithm using a blood glucose measurement. Meal boluses require carb entry.	40 seconds, standard 4 seconds, quick delivery	<b>SUSPEND BEFORE LOW:</b> Normal, Dual Wave, Square Wave, Easy and Preset <b>AUTO MODE:</b> Correction bolus is determined by the algorithm using a blood glucose measurement. Meal boluses require carb entry.	<b>SUSPEND BEFORE LOW:</b> Bolus Wizard, Manual, Remote (using BG meter), Easy and Preset <b>AUTO MODE:</b> Algorithm automatically recommends correction boluses after a blood glucose measurement. Carb entry is needed for a meal bolus.	Yes	The MiniMed 670G system represents the first hybrid closed loop system approved anywhere in the world. The system features exclusive SmartGuard® HCL technology that allows patients and providers to choose from increasing levels of automation that best fit their diabetes management needs, including Suspend On Low, Suspend Before Low and Auto Mode. The system also features the latest in continuous glucose monitoring (CGM) with the Guardian Sensor 3, our newest and most advanced glucose sensor with enhanced accuracy and performance and a longer 7-day wear. Intended for use in persons age 14 years of age and older. For more information, please go to <a href="http://www.medtronic.com">www.medtronic.com</a>	2 weeks with alkaline 4 weeks with lithium	One AA lithium or alkaline; readily available	Water resistant to 12 feet for 24 hours (IPX8 rating)