









INSULIN PUMPS

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Manufacturer	Model	Size (inches)	Weight (ounces)	Reservoir Type	Basal Increment	Total Basal Rates/Profile	Temporary Basal Rate	Max Basal Rate
Tandem Diabetes Care	t:slim X2™ Insulin Pump 	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 at programmed rates ≥ 0.1 units/hour. 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
	t:slim G4™ Insulin Pump 	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 at programmed rates ≥ 0.1 units/hour. 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
	t:flex® Insulin Pump 	2.0 x 3.13 x 0.84	4.05 ounces (including cartridge with 480 units of insulin)	480 unit disposable cartridge with Micro-Delivery™ technology	0.001 at programmed rates ≥ 0.5 units/hour. 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
Animas Corporation (U.S. & Canada)	OneTouch® Ping® Glucose Management System 	2 x 3.25 x 0.86	3.9	200 units	0.025 unit	Up to 12 basal rates in four personalized programs, plus a temporary basal rate	Yes. -90% to +200% in increments of 10% for 0.5 to 24 hours (30 min increments)	Yes
Insulet Corporation	OmniPod® Insulin Management System 	Pod: 1.53 x 2.05 x 0.57 PDM: 2.5 x 4.5 x 1.0	Pod: .88 with empty reservoir PDM: 4.4 with batteries	Holds 200 units of insulin; Reservoir integrated into Pod	0.05 unit	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 (0.0-30.0 in 0.05 steps) for a duration of 30 minutes to 12 hours in 30-minute increments.	Yes
Medtronic	MiniMed® 630G with Enlite® Sensor 	2.1 x 3.78 x 0.96	95.7 grams	300-unit reservoir	0.025 units/hr (up to 1.0 units / hr) 0.05 units / hr (up to 10 units / hr) 0.1 units / hr (up to 35 units / hr)	8 named patterns with up to 48 segments each	Yes. Can be programmed as percentage of current basal rate (0-200%) or units per hour, for a duration of 30 minutes to 24 hours. Limited by max basal rate.	Yes, 35 units / hr
	MiniMed 670G with Guardian Sensor  (available Spring 2017)	2.1 x 3.78 x 0.96	95.7 grams	300-unit reservoir	SUSPEND BEFORE LOW: 0.025 units/hr (up to 1.0 units / hr) 0.05 units / hr (up to 10 units / hr) 0.1 units / hr (up to 35 units / hr) AUTO MODE: Basal delivery automatically determined by system	SUSPEND BEFORE LOW: 8 named patterns with up to 48 segments each AUTO MODE: Automated basal delivery based on sensor glucose and recent insulin delivery	SUSPEND BEFORE LOW: Yes. Can be programmed as percentage of current basal rate (0-200%) or units per hour, for a duration of 30 minutes to 24 hours. Limited by max basal rate. AUTO MODE: 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	SUSPEND BEFORE LOW: Yes, 35 units / hr AUTO MODE: Personalized for each user
Roche	ACCU-CHEK® Combo Insulin Pump System 	3.2 x 2.2 x 0.8	3.9 oz. (with full cartridge and batteries)	315 unit disposable plastic cartridge system	.05 - 25 units per hour in increments of 0.01 units (available up to 1.00 units/hour)	5 different basal rate profiles. There are 24 hourly basal rates.	Adjustable in 10% increments, 0 - 90% for decreases, 110 - 250% for increases. The duration is adjustable in 15 minute intervals, up to a maximum of 24 hours	Yes

	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
	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 without interrupting insulin delivery.	Watertight to 3 feet for up to 30 minutes (IPX7 rating)
	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. The #1-rated t:slim® Insulin Pump is now integrated with the Dexcom G4® PLATINUM Continuous Glucose Monitoring system, the #1-rated CGM brand that set the standard for accuracy and performance. The t:slim G4™ Pump fully integrates your CGM data and your insulin delivery activity on a simple to learn and simple to use bright color touch screen so you can make more informed decisions about your diabetes. 25% smaller than other pumps, yet still holds up to 300 units.	7 days between charges.	Built in rechargeable lithium polymer battery. Charged via wall, car, or USB outlets without interrupting insulin delivery.	Watertight to 3 feet for up to 30 minutes (IPX7 rating)
	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 without interrupting insulin delivery.	Watertight to 3 feet for up to 30 minutes (IPX7 rating)
	Audio Bolus Deliveries 0.1U to 35.00U, in 0.1, 0.5, 1.0, or 5.0U increments, using a maximum of 20 steps	1 to 2 seconds	Normal Bolus Deliveries (units) Combo Bolus Deliveries (units by percentage over time) ezCarb Bolus Deliveries (calculated units) ezBG Bolus Deliveries (calculated units) Audio Bolus Deliveries (incremental units)	Boluses may be programmed through the pump's menu screens (Normal, ezBG, ezCarb, or Combo) or through the bolus button (Audio Bolus or ezBolus).	Yes, Max Bolus 35.0U	Non-volatile: 500 boluses, 270 basals, 120 daily totals, 60 alarms, 60 primes, 900 blood glucose levels. Software Download: Pump data downloads in less than 10 minutes for OneTouch® Ping.	5 to 7 weeks with lithium 2-3 weeks with alkaline	(1) AA lithium or AA alkaline (1.5 volt)	Pump: 12 feet for 24 hours (Meter-Remote must not be exposed to water)
	0.05, 0.1, 0.5, 1, 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).	PDM: 3 weeks	Two AAA alkaline	Pod is waterproof to a depth of 25 feet for up to 60 minutes (IPX8), so there's no need to disconnect from the Pod for swimming or bathing.
	0.025, 0.05, 0.1 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	1 AA lithium or alkaline; readily available	Waterproof (IPX 8 at 12 feet 24 hours)
	SUSPEND BEFORE LOW: 0.025U, 0.05U, 0.1 unit up to 25 units AUTO MODE: 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	SUSPEND BEFORE LOW: Normal, Dual Wave, Square Wave, Easy, and Preset AUTO MODE: Correction bolus are determined by the algorithm using a blood glucose measurement. Meal boluses require carb entry.	SUSPEND BEFORE LOW: Bolus Wizard, Manual, Remote (using BG meter), Easy, and Preset AUTO MODE: 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 MiniMed 670G 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 fourteen (14) and above. For more information, please go to www.medtronic.com	2 weeks with Alkaline 4 weeks with Lithium	1 AA lithium or alkaline; readily available	Water resistant (IPX 8 at 12 feet 24 hours)
	0.1 to 25 units in increments of 0.1, 0.2, 0.5 1.0 and 2.0 units for standard boluses. Extended or multiwave boluses are adjustable in increments of 0.1 units.	5 seconds	Standard, extended, multiwave and quick	Standard, extended, and multiwave bolus through menu options found on ACCU-CHEK Aviva Combo "smart meter" menu options. Quick bolus through tactile buttons found on ACCU-CHEK Spirit Combo insulin pump with bolus increments determined by the user	Yes, 25 units	Using Bluetooth™ 2-way wireless communication, the ACCU-CHEK Aviva Combo "smart meter" allows user to control nearly all device functions without having to touch their pump. Includes bolus delivery, basal rate / temporary basal rate adjustments, and checking and clearing alerts. Offers choice of 3 menus. Data tables and full color graphs available on ACCU-CHEK Aviva Combo meter itself.	1 AA lithium - 80 days or 1 AA alkaline - 30 days or 1 AA rechargeable - 40 days	1 AA lithium or 1 AA alkaline or 1 AA rechargeable	Watertight IPX8. Protected against the effects of temporary immersion in water under standardized conditions (up to 60 minutes and 8 feet)