

INSULIN PUMPS

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t:slim[®] Insulin Pump

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Manufacturer	Model	Size (inches)	Weight (ounces)	Reservoir Type	Basal Increment	Total Basal Rates/Profile	Temporary Basal Rate	Max Basal Rate		Bolus Increments and Maximum	Bolus Duration for 1 Unit	Bolus Types	Bolus Programming Methods	Max Bolus Limit	Memory, Features	Battery Life	Battery Type	Use With Water
Tandem Diabetes Care	t:slim [®] Insulin Pump 	2.0 x 3.13 x 0.6 inches	3.95 oz (including cartridge and 300 units of insulin)	300 units Disposable Cartridge with Micro-Delivery Technology™	0.001 at programmed rates ≥ 0.1 units/hr	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		0.05 to 25 units in 0.01-unit increments, with option for additional 25 unit bolus.	~30 seconds	standard, correction, extended, and quick. Programmable in grams of carbs or units of insulin.	Touch screen numeric keypad entry with integrated bolus calculator. Quick bolus button (audible/vibrate)	Yes	Non-volatile memory with 90-day history (up to 11,000 events) 25% smaller than comparable pumps. Touch screen makes it simple to learn and use. Advanced Micro-Delivery Technology™ delivers insulin in the smallest increments available.	7 days between charges	Built in rechargeable lithium polymer battery. Can be charged via wall, car, or USB outlets without interrupting insulin delivery.	Watertight (IPX7); 3ft. for up to 30 minutes.
Animas Corporation (U.S. & Canada)	OneTouch [®] Ping [®] Glucose Management System 	2 x 3.25 x 0.86	3.9	2.0 mL	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		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)
Insulet Corporation	OmniPod [®] Insulin Management System 	Pod: 1.6 x 2.4 x 0.7 PDM: 2.5 x 4.5 x 1.0	Pod: 1.2 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		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.
Medtronic	MiniMed Paradigm [®] Real-Time Revel™ 523 	3.3 x 2 x 0.82	3.4 ounces with battery	Holds 176 Units of insulin; Disposable shock-resistant plastic	0.025	3 patterns with up to 48 rates each	Yes. Can be increased or decreased by 1% of current rates or as low as 0.025 units per hour.	Yes		0.025, 0.05, 0.1 up to 25 units	40 seconds	Normal, squarewave, dual-wave, audio, carbohydrate, correction	Bolus Wizard, Menu, remote and Easy (audio) express	Yes	Only integrated diabetes management system with continuous glucose monitoring (CGM) and therapy management software. Predictive alerts and rate of change alerts when used with CGM. 1:1 insulin to carb ratio. Approximately 90 days of data (prime, bolus, daily totals, alarms and programming)	3 weeks	One AAA alkaline; readily available	Watertight (IPX7)
	MiniMed Paradigm [®] Real-Time Revel™ 723 	3.7 x 2 x 0.84	3.6 ounces with battery	Holds 300 Units of insulin; Disposable shock-resistant plastic														
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		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)

Printer-friendly charts are available at www.DiabetesHealth.com/charts