


## Insulin Pump Comparison Table

Pumps	Medtronic 780G	Tandem T: Slim x2	YpsoPump	Omnipod DASH
				
Company	Medtronic	AMSL	Mylife Diabetes Care	Insulet
Approved For	All Ages (Smart Guard for ≥7yo)	All Ages (Control IQ for > 6yo)	All Ages (Auto Mode for > 1yo)	All Ages
Funding	Private Health Insurance or JDRF	Private Health Insurance Only	Private Health Insurance Only	Monthly \$168 Subscription OR Private Health Insurance
CGM Integration	Yes	Yes	Yes	No
Type of Sensor	Guardian Link 4 Bluetooth	Dexcom G6	Dexcom G6	N/A
Calibration Required	No	No	No	N/A
Phone Connectivity	Yes, Minimed Mobile App (Glucose Levels only)	Yes, Dexcom G6 App (Glucose Levels only)	Yes, <b>ONLY Android</b> <b>Approved</b> . Pump is fully functional via the CamAPS app and Android Technology.	No, uses PDM device to fully function the Pod. Nil compatibility with phone
HYBRID CLOSED LOOP				
What is the Automation	SmartGuard	Control-IQ	Auto Mode	N/A
Basal Automation	Automated basal insulin delivery calculated based on	Automated basal insulin delivery that increases or	Auto mode basal insulin delivery is directed via the	N/A

## Information for patients, families and carers

	total daily insulin from past 2-6 days ("auto basal")	decreases programmed basal rates	algorithm and adjusts basal insulin by using extended boluses every 10-12 mins.	
<b>Bolus Automation</b>	Auto-correction bolus if glucose > 6.7mmol/L	Auto-correction bolus (max 1/hour) if glucose predicted to be >10mmol/L delivers 60% of calculated dose	Auto-corrections administered via the algorithm which calculates correction factors and delivers as an extended bolus every 10-12 minutes. Insulin increases when the glucose is rising.	N/A
<b>Can Users Adjust Basal Rates?</b>	No	Yes	No	Yes
<b>Can Users Adjust Insulin to Carbohydrate Ratios?</b>	Yes	Yes	Yes	Yes
<b>Can Users Adjust Correction Factor (Sensitivity)?</b>	No	Yes	No	Yes
<b>Can Users Adjust Active Insulin Time?</b>	Yes	No- fixed at 5 hours	No- Algorithm self-adjusts	Yes
<b>Can Users Adjust the Target BGL in Hybrid Closed Loop</b>	Yes- adjustable at 5.5, 6.1 or 6.7mmol/L	No- Set at 6.2mmol/L	Yes- adjustable between 4.1-11.0mmol/L	N/A
<b>Can the User Give a Dual or Combo Bolus</b>	No	Yes	No	Yes
<b>What Are the Special Features in Automation?</b>	Temp Target: Changes target glucose to 8.3mmol/L for set duration (30 min - 12 hr)	Exercise Activity: Changes target range to 7.8mmol/L (manual start/stop only)	Boost: 'Boost' is a mode of operation that can be used when more insulin is	Temporary Basal Rate: Set between 30 mins and 12 hours, changing the basal insulin %

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		Sleep Activity: Narrows target range to 6.2mmol/L - 6.7mmol/L and prevents auto corrections. Intended to be used during sleep	needed (duration from 0 to 13 hours). Ease Off: 'Ease-off' can be used when less insulin is needed (duration from 0 to 24 hours)	
<b>DEVICE</b>				
<b>Weight</b>	95.7g	112g	83g	26g
<b>Tubing</b>	45cm-110cm	60-110cm	45cm-110cm	Tube Free
<b>Cannula</b>	6mm-17mm	6mm-13mm	6mm-9mm	9mm with 6.5mm under the skin at 50 degree angle
<b>Reservoir Volume</b>	3ml (300 units)	3ml (300 units)	1.6ml (160 units)	2ml (200 units)
<b>Battery</b>	AA lithium/Alkaline	Rechargeable (charging cable)	Alkaline	PDM Device: Rechargeable battery Charge PDM every 24 -48 hours depending on usage and features used
<b>Waterproof</b>	3.6m, 24hrs (IPX8)	No	No	Pod- 7.6m, 60mins
<b>Touch Screen</b>	No	Yes	Yes	Yes- PDM
<b>Glucose Monitor</b>	Accu-Chek Guide Link Meter	No	UnioNeva-Bluetooth to MyLife App	No
<b>BASAL/BOLUS</b>				
<b>Basal Range</b>	0.0 – 35 units/hr	0.1 – 15 units/hr	0.00 – 40 units/hr	0.0 – 30 units/hr
<b>Bolus Range</b>	25 units MAX	30 units MAX	30 units MAX	30 units MAX
<b>Basal Increments</b>	0.025	0.100	0.100	0.05

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<b>Uploading</b>	Carelink- Automatic uploads via MiniMed Mobile App	Glooko	Glooko	Glooko
<b>RESOURCES</b>				
<b>Website</b>	<a href="https://www.medtronic-diabetes.com.au/products/minimed-780g-guardian-4-sensors">https://www.medtronic-diabetes.com.au/products/minimed-780g-guardian-4-sensors</a>	<a href="https://amsldiabetes.com.au/products/tslim-x2-insulin-pump-with-new-control-iq-technology/">https://amsldiabetes.com.au/products/tslim-x2-insulin-pump-with-new-control-iq-technology/</a>	<a href="https://www.mylife-diabetescare.com/en-AU/products/infusion-systems.html">https://www.mylife-diabetescare.com/en-AU/products/infusion-systems.html</a>	<a href="https://www.omnipod.com/en-au">https://www.omnipod.com/en-au</a>
<b>Pre Insulin Pump Online Learning</b>	Yes- <a href="https://hcp.medtronic-diabetes.com.au/my-learning">https://hcp.medtronic-diabetes.com.au/my-learning</a>	Yes- <a href="https://amsldiabetes.com.au/resource-category/product-resources/tslim-x2-insulin-pump/online-training-modules/">https://amsldiabetes.com.au/resource-category/product-resources/tslim-x2-insulin-pump/online-training-modules/</a>	No	Yes- <a href="https://www.omnipod.com/en-au/hcp/education-hub">https://www.omnipod.com/en-au/hcp/education-hub</a>
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