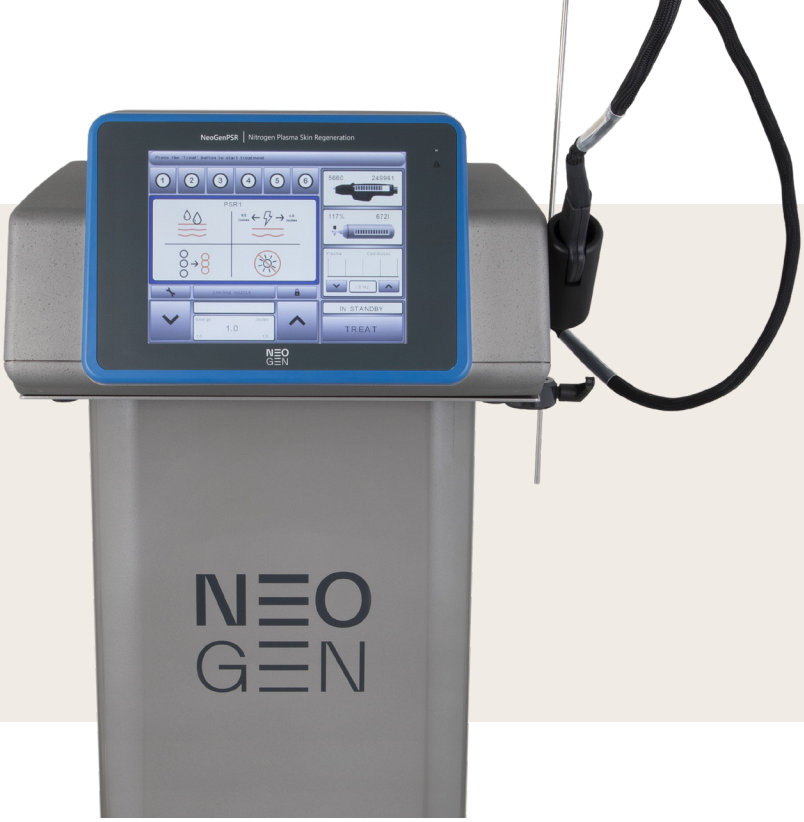

NEO GEN

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Spec Sheet

Technical specifications

Dimensions: Generator Only	**Height**	10.2 inches
	Width	18.5 inches
	Depth	19.7 inches (Ex. Connectors)
Dimensions: Overall	**Height**	46.5 inches
	Width	18.5 inches
	Depth	23.1 inches
Weight	**Generator section only**	40 lbs
	Trolley section only	35 lbs
	Overall (including regulator and 2x cylinders of the suggested type)	75 lbs
Power Requirements	**Voltage** **1. Nominal Operating Range** **2. Min-Max Operating Limits**	**1.** 100-230 AC Vrms, Single Phase **2.** 90-264 AC Vrms
	Current	6.5 A Max
	Frequency	50/60 Hz.
	Power Consumption	≦ 650 VA.

Gas **Please note:** The gas pressure regulator requires inspection at 12-month intervals. Contact support@artemisdistribution.com for more information.	**Type & Grade**	Pharmaceutical or Instrument Grade Nitrogen
	Minimum Purity	99.5%
	Suggested Type	Air Liquide T4514-ED2 (560L) (with CGA-580 fitting)
	Warning: Do not use any other type of gas or any other grade of nitrogen.	
	Cylinder Size (Max)	Height: 25.5 in. Diameter: 5.12 in.
	Regular Fitting	CGA580 (Standard) BS3 (Optional)
	Gas Pressure Regulator	Included with the Neogen system. 2-stage pressure regulator with solid-state gas cylinder pressure sensor, over-pressure relief valve (3 bar gauge), outlet flow restrictor (5 litres/min) and flexible hose with releasable self-sealing valve connection to the generator.
	Cylinder Pressure (Max)	3000psi
	Regulator Outlet Pressure	1.7 bar (nom.)
Neogen System Output	**Output**	Pulsed Nitrogen Plasma
	A: With 5 mm disposable nozzle fitted, measured with a 5.0 +/- 0.5 mm separation between the instrument nozzle and the measuring surface:	
	Energy delivered to patient:	1 to 4 J per plasma pulse
	Power delivered to patient:	1 Watt min. (1 J, 1 Hz) 10 Watts max (4J, 2.5Hz)
	B: With 25 mm disposable nozzle fitted, measured with a 25.0 +/- 1 mm separation between the instrument nozzle and the measuring surface:	
	Energy delivered to patient:	0.5 to 0.8 J per plasma pulse
	Power delivered to patient:	0.5 Watt min. (0.5 J, 1 Hz) 2 Watts max (0.8 J, 2.5 Hz)

Safety	**Classification**	Class 1 per BS EN 60601-1:2006
	Earthing (Grounding)	Protective Earth (Ground) connection is required
	Applied Part Classification	Type BF (NOT Defibrillator proof)
	MDD Class	IIb
	FDA Regulation Number	21 CFR 878.4400
	FDA Regulation Name	Electrosurgical cutting and coagulation device and accessories.
	FDA Product Code	GEI
	FDA Regulatory Class	II
	FDA 510(k) Reference	K221873
RF Output **Please note:** Neogen is not an RF device or treatment. RF energy is used ONLY within the handpiece to convert the liquid nitrogen into plasma energy. No RF energy is delivered into the skin during this treatment.	**Frequency**	2470 MHz Typ. (2450 to 2480 MHz)
	Output Power **Nominal** **Peak**	1300 Watts* 1700 Watts Average across a pulse into 50 Ohms, measured at the generator output socket
	Modulation	Pulsed CW (Carrier Wave)
	Pulse Width	5.2 to 15.4ms
	Pulse Repetition Rate (Repeat Pulse Mode)	(1.0 to 2.5 Hz)
	Output Protection	Automatic Shutdown occurs following detection of a number of fault conditions including absence of plasma detected through optical means in the handpiece. Output is disabled temporarily following detection of other conditions such as absence of a Disposable Tip or attempted use of a Disposable Tip beyond its rated lifetime.

Required Conditions

Environmental Limits: System Transport and Storage	**Ambient Temperature**	0 to 40°C
	Relative Humidity	10% to 90% non-condensing
	Atmospheric Pressure	500 to 1060 hPa.
Environmental Limits: System Operation	**Ambient Temperature**	10 to 30°C
	Relative Humidity	30 to 75% non-condensing
	Atmospheric Pressure	700 to 1060 hPa.