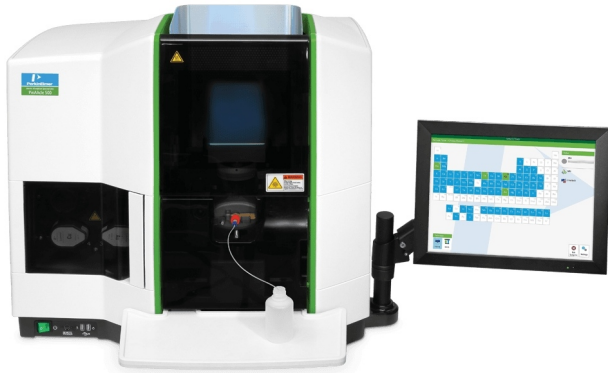

[PinAAcle 500 Atomic Absorption Spectrometer](#) [Inventory ID #1132006]



PinAAcle 500 Atomic Absorption Spectrometer

- Make: PerkinElmer
- Model: PinAAcle 500
- Year: 2019
- Brand New, Never Used or Plugged in

System Design

- Monochromator
 - Littrow Design with Motorized Drive for Automatic Wavelength Selection and Peaking
 - Wavelength Range: 180-900 nm
 - Diffraction Grating: 1800 Lines/mm Blazed at 236 nm and 597 nm
 - Grating Area: 64mm x 72mm
 - Reciprocal Linear Dispersion: 1.6 nm/mm (Nominal)
 - Focal Length: 267mm
- Spectral Bandwidths: User Selectable Automatic Slit Widths of 0.2, 0.7 and 2.0 nm at Optimized Slit Height
- Automatic Lamp Selection
 - 4-Lamp Mount with Built-In Power Supplies for PerkinElmer Cable-Less Lumina™

- Hollow Cathode(HCL) and Patented Electrodeless Discharge Lamps(EDL)
- Computer-Controlled Lamp Selection and Alignment Via Syngistix Touch™
- Lamp Elements and Recommended Operating Currents are Automatically Recognized and Set When Lumina HCLs and EDLs are used

- Detector: Wide-Range Segmented Solid-State Detector, Including a Built-In Low-Noise CMOS Charge Amplifier Array
- Background Correction: Built-In Continuum Source Double-Beam Background Correction Using a High-Intensity Deuterium Arc Lamp
- Corrosion Resistance: All the PCBAs are Conformal Coated for Complete Resistance to Corrosion

Flame Atomizer

- Gas Controls:
 - Fully Computer-Controlled with Oxidant and Fuel Monitoring
 - Touchscreen or Keyboard-Activated Remote Ignition System with Air/Acetylene
 - Acetylene Flow is Automatically Adjusted Prior to the Oxidant Change when Switching to or from Nitrous Oxide/Acetylene Operation
- Sample Introduction System
 - Modular Sample Introduction System Consisting of a Quick-Change Spray Chamber, Burner Head and Nebulizer.
 - The Introduction System is Equipped with a High-Strength Inert Mixing Chamber, Angled to Ensure Proper Drainage.
 - Choice of High-Sensitivity, Corrosion-Resistant, Plastic Nebulizer or Durable Stainless Steel Nebulizer.
 - The Standard Burner Head is All-Titanium, 10cm, Single-Slot for Air/Acetylene Operation.
 - Optional Burner Heads Include: 5cm Nitrous Oxide/Acetylene, 5cm Air/Acetylene, and 10cm 3-Slot Air/Acetylene.
 - The Flame Shield is Polymer-Coated for Resistance to Corrosion from Acidic Fumes from the Environment or From the Samples.
- Safety Functions:
 - Interlocks Prevent Ignition If:
 - Proper Burner Head, the Nebulizer/End Cap, or the Burner Drain System is Not Correctly Installed

- Liquid Level in the Drain Vessel is Incorrect
- Gas Pressures are Too Low
- Interlocks Will Automatically Shut Down Burner Gases If:
 - Flame is Not Detected
 - Any of the Other Interlock Functions are Activated

- Control and Data System:
 - User Interface: The Standalone PinAAcle 500 AA Provides Complete Control Through an Innovative Touchscreen Interface with Syngistix Touch™ Software
 - Display: 15", 26 Million Display Colors, TFT LCD with Embedded Resistive Touchscreen
 - Built-In Computer: The Touchscreen Interface Operates Via a On-Board Computer That Comes with Intel Core i3 3.3GHz with 4GB RAM and 2.5" SATA 64GB SSD
 - Data Handling: Instrument Readings Linear in Absorbance (-0.500 A to +2.000 A), Concentration, or Emission Intensity with Continuously Variable Scale Expansion from 0.01 to 100 Times.

- Physical Data
 - Dimensions:
 - Length: 26" (67cm)
 - Width: 25" (63cm)
 - Height: 25" (63cm)
 - Weight: 126 Lbs (57kg)
 - Power: 100-230V (±10%), 50/60Hz (±1%), Single Phase Alternating Current, 800 VA (Max)

- Location: USA

View More [Atomic Absorption Machines](#)