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Data Sheet

July 31, 2026

WORLD PRECISION INSTRUMENTS

World Precision Instruments PUC Ultrasonic Wave Cleaner

World Precision Instruments PUC Ultrasonic Wave Cleaner (PUC-Y) The World Precision Instruments (WPI) PUC Ultrasonic Wave Cleaner is a compact benchtop ultrasonic cleaner for small laboratory and surgical instruments. WPI product descriptions for the PUC (commonly listed as model PUC-Y) describe a very small cleaning well that creates strong turbulence by combining a subsonic wave with a high-intensity ultrasonic wave, with dual normal/high power settings and automatic shut-off after five minutes. The PUC is intended for rapid ultrasonic cleaning of small tools such as microdissection instruments, micro scissors, forceps tips, and other compact lab accessories that benefit from cavitation in tight crevices before rinsing, lubrication, and sterilization. WPI instrument-care guidance recommends ultrasonic cleaning with appropriate enzymatic or neutral-pH detergents for small instruments. The World Precision Instruments (WPI) PUC Ultrasonic Wave Cleaner is a compact benchtop ultrasonic cleaner for small laboratory and surgical instruments. WPI product descriptions for the PUC (commonly listed as model PUC-Y) describe a very small cleaning well that creates strong turbulence by combining a subsonic wave with a high-intensity ultrasonic wave, with dual normal/high power settings and automatic shut-off after five minutes. The PUC is intended for rapid ultrasonic cleaning of small tools such as micr



MODEL

World Precision Instruments PUC

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PUC

LISTING

<https://aumictechlabs.com/products/puc-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The World Precision Instruments PUC Ultrasonic Wave Cleaner generates high-frequency sound waves to create cavitation within a cleaning solution. Micron-size bubbles form and collapse under alternating pressure, producing powerful yet gentle scrubbing action that removes dirt, debris, oils, and contaminants from complex surfaces and hard-to-reach areas. Ideal for laboratory, medical, and industrial applications requiring meticulous cleaning of small parts and instruments.

Technical Specifications

Model: PUC Ultrasonic
Frequency: 55 kHz
Peak Ultrasonic Output: 70 W
Input Power: 22 W
Tank Capacity: 0.53 L (18 oz)
Tank Dimensions (Internal): 12.1 × 8.6 × 6.6 cm (4.75 × 3.375 × 2.625 in.)
Tank Dimensions (External): 13.7 × 10.5 × 12.1 cm (5.375 × 4.125 × 4.75 in.)
Power Supply: 110 V
Weight: 1.8 kg (4 lb.)

Key Features

- All-metal construction with stainless steel tank for continuous duty operation
- Compact footprint optimized for laboratory and workstation integration
- Efficient cavitation mechanism via vibrating sound waves at operating frequency
- Suitable for short cleaning cycles typical of laboratory instrument maintenance

Typical Applications

- Microdissection instrument cleaning
- Small-scale laboratory equipment maintenance
- Veterinary instrument cleaning
- Small parts cleaning across laboratory and industrial settings

Compatibility & Integration

The PUC integrates into existing laboratory workflows requiring precision cleaning. Its 0.53 L capacity and compact external dimensions support space-constrained environments. Standard 110 V AC operation eliminates specialized electrical infrastructure requirements.

Features & description

From manufacturer datasheet

Features

- Compact ultrasonic wave cleaner for small instruments
- Combines subsonic and high-intensity ultrasonic waves for high turbulence
- Dual power settings: normal and high
- Automatic shut-off after 5 minutes
- Small cylindrical cleaning well for limited bench space
- Model designation commonly PUC-Y (110 V class listing)

PUC Characteristics / Specifications

PARAMETER	VALUE
Manufacturer	World Precision Instruments (WPI)
Product Family	PUC Ultrasonic Wave Cleaner
Common Model Listing	PUC-Y (also referenced as PUCY / PUC)
Instrument Type	Compact Ultrasonic Wave Cleaner
Cleaning Principle	Ultrasonic cavitation enhanced by combined subsonic and high-intensity ultrasonic wave generation
Power Modes	Dual settings, normal or high power
Cleaning Well Dimensions	Approximately 8 cm diameter by 3.5 cm deep
Approximate Well Volume	On the order of about 0.18 L based on the stated well dimensions (cylindrical well) Operational Notes Fill the well with an appropriate ultrasonic cleaning solution (enzymatic cleaner or neutral pH / mild alkaline detergent diluted per manufacturer instructions; deionized water preferred when available). Degassing the solution briefly before loading instruments is recommended practice for ultrasonic baths. Place instruments so sharp edges do not contact each other and keep parts fully submerged.
Dual power settings	normal and high

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

PARAMETER	VALUE
Manufacturer	World Precision Instruments (WPI)
Product Family	PUC Ultrasonic Wave Cleaner
Common Model Listing	PUC-Y (also referenced as PUCY / PUC)
Instrument Type	Compact Ultrasonic Wave Cleaner
Cleaning Principle	Ultrasonic cavitation enhanced by combined subsonic and high-intensity ultrasonic wave generation
Power Modes	Dual settings, normal or high power

Timer / Auto Shut-Off: Automatic shut-off after 5 minutes
Cleaning Well Dimensions: Approximately 8 cm diameter by 3.5 cm deep
Approximate Well Volume: On the order of about 0.18 L based on the stated well dimensions (cylindrical well)

Operational Notes

Fill the well with an appropriate ultrasonic cleaning solution (enzymatic cleaner or neutral pH / mild alkaline detergent diluted per manufacturer instructions; deionized water preferred when available). Degassing the solution briefly before loading instruments is recommended practice for ultrasonic baths. Place instruments so sharp edges do not contact each other and keep parts fully submerged. Avoid mixing dissimilar metals in the same cleaning cycle. After cleaning, rinse thoroughly, dry, and lubricate hinges as needed before sterilization. This compact PUC unit is sized for small instruments rather than long trays or bulk instrument sets; larger WPI ultrasonic baths (for example UBATH economy cleaners or Quantrex systems) address higher-capacity needs.

Related WPI Ultrasonic Cleaners (Context)

WPI currently markets larger ultrasonic cleaners such as the Digital Ultrasonic Cleaner (504495) and Economy Ultrasonic Cleaner (UBATH-Y). The PUC series isadistinct compact ultrasonic wave cleaner historically offered as PUC-Y.

Notes

This manual OEM source was compiled from World Precision Instruments PUC / PUC-Y Ultrasonic Wave Cleaner product descriptions used by WPI-channel and laboratory equipment listings, together with WPI surgical-instrument ultrasonic cleaning guidance. Detailed electrical ratings beyond the dual-power and five-minute auto shut-off description were not

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.