50L High Frequency Large Volume Ultrasonic Cleaning Equipment/ Ultrasonic Cleaner/Ultrasonic Cleaning Machine

Our Product Introduction

Basic Information

- Certification: CE, RoHS, ISO9001
- Minimum Order Quantity: 1
- Price: 750

Product Specification

- Model NO.: JP-180ST
- Cleaning Media: Wet Cleaning
- Automation: Semi-automatic
- Control: PLC
- Frequency: 28/40Hz
- Material: Stainless Steel 304
- Tank Thickness: 2mm
- Tank Capacity: 55L
- Timer: 0-30min Adjustable
- Heater: 20-95 Degree
- Ultrasonic Power: 900W
- Heating Power: 1500W
- Unit Size: 680*550*735mm
- Voltage: 110V/220V
- Transducer: 12

More Images

Product Description

50L High Frequency Large Volume Ultrasonic Cleaning Equipment

Product Overview

Model No. JP-180ST - A professional-grade ultrasonic cleaning system designed for industrial applications requiring high-performance cleaning capabilities.

Technical Specifications

Specification	Details
Ultrasonic Frequency	28/40 kHz
Material	Stainless Steel SUS304
Tank Capacity	55 L
Timer	1~99min adjustable
Heater	20°C to 95°C adjustable
Degas Function	Yes
Semiwave Function	Yes
Power Supply	AC 100~120V, 50/60Hz or AC 220~240V, 50/60Hz
Ultrasonic Power	900W
Heating Power	1500 W
Standard Equipment	Basket & Cover

Physical Dimensions & Packaging

Dimension Type	Measurements (L x W x H)
Tank Size	500×350×300mm
Unit Size	680×550×735mm
Package Size	790×620×890mm
Net Weight / Gross Weight	54kg / 87kg
Warranty	1 Year

Advanced Features

- Automatic load measurement with frequency and power regulation
- Fully digital generator for optimal performance and energy efficiency
- Advanced diagnostics with performance monitoring and service capabilities
- Top-level cleanliness performance
- Quick wash process for increased productivity
- Ergonomic design for manual handling of lightweight items
- Cost-effective cleaning solution
- Compact design with minimal footprint

Industrial Applications

- Garage workshops and commercial vehicle repair
- Fuel test laboratories
- Marine engine repair
- Electrical engineering applications
- Aeronautical industry components
- Precision and general engineering
- Engine rebuilding and turbocharger repair shops

Certifications

CE / ROHS / FCC / PSE / ISO9001 Certified

Technology Overview

Ultrasonic cleaning operates on the cavitation effect caused by high-frequency ultrasonic wave vibration signals in fluid. This process creates microscopic bubbles that implode violently, generating intense scrubbing action on item surfaces. The microscopic bubbles penetrate even the smallest crevices, ensuring thorough and consistent cleaning.
This technology effectively removes dirt and grime that would typically require extensive manual cleaning. It has proven successful in cleaning various instruments and mechanical parts, including carburetors, restoring them to near-new condition without damaging delicate components.

Key Benefits of Advanced Ultrasonic Technology

Precision Cleaning

Cavitation combined with sweep cleaning technology provides superior cleaning compared to other industrial-level methods. Our equipment excels in surface-contaminant reach and removal for both small and large applications.

Speed

Industrial ultrasonic cleaning cycles typically complete in under 10 minutes. Cleaning time varies based on component

size, composition, contaminants, and the frequencies, temperatures, and cleaning agents used.

Extended Parts Life

High-quality cleaning performed safely allows parts to operate with maximum efficiency under reduced stress. This extends component lifespan compared to partially cleaned or surface-damaged parts from alternative methods.

Custom Solutions

We provide comprehensive ultrasonic cleaning solutions, from small stainless steel tanks to automated modular systems. Our expertise includes custom-built cleaners with various frequencies to address specific application requirements. Our patented ultrasonic technology, transducer applications, and engineering capabilities in stainless steel construction enable us to meet virtually any manufacturing line need.

Frequently Asked Questions

How about after sales services?

1 Year warranty for Skymen ultrasonic cleaner. If any technical problems occur during warranty period, replacement parts are provided free of charge. Technical support remains available after the warranty period.

What are the advantages of ultrasound over traditional cleaning methods?

- Minimizes manual labor requirements
- Enables cleaning and degreasing without organic solvents
- Cleans hard-to-reach areas and removes all dirt types
- Shortens processes like extraction, dispersion, purification, and chemical reactions
- Eliminates costly mechanical and chemical cleaning of heat exchangers

What frequency is better for my parts?

Frequency selection depends on the pollutants being removed. 28kHz provides stronger cleaning action, ideal for automotive, motor, truck, and vessel parts (removing oils, grease, pastes). 40kHz is better for PCB boards and electronic components. Higher precision goods typically require higher frequencies.

Can ultrasonic cleaning damage parts?

Ultrasonic cleaning is generally safe for most parts, though caution is advised in specific cases. While the effect of thousands of implosions per second is powerful, the cleaning process remains safe for appropriate applications.

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