Heater Exchanger Large Capacity Ultrasonic Cleaner SUS 304 With Filtration System

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Skymen
- Certification: CE, FCC, REACH
- Model Number: JTS-1144G
- Minimum Order Quantity: 1
- Price: Negotiation
- Delivery Time: In Stock
- Supply Ability: 500

Product Specification

- Model: JTS-1144G
- Material: SUS 304
- Frequency: 40KHz
- Transducer: 144pcs
- Ultrasonic Power: 7200W
- Heating Power: 24000W
- Time Setting: 0~99 Hour
- Temperature Setting: 20~95°C
- Highlight: **ultrasonic cleaning device**, **ultrasonic washing machine**

Our Product Introduction

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Product Description

Ultrasonic Cleaning Machine for Heater Exchanger with Filtration System
Due to the influence of working conditions, the heat exchanger is easy to accumulate scale on the pipe wall, and the scale will greatly reduce the working efficiency.
Scale deposits have a high thermal resistance, which greatly reduces the heat transfer rate. At the same time, since the fouling reduces the flow passage area, the medium flow resistance increases, and the energy consumption increases, thereby causing a series of economic losses. Ultrasonic descaling is a very active topic in recent years. Due to its lack of chemical pollution, low operating costs, and continuous online work, it has attracted much attention.

Specification:

Model	JTS-1144G
Frequency	40KHz
Material	SUS 304
Tank capacity	980L
Transducers	144pcs
Ultrasonic power	7200W
Heating power	24000W
Internal tank size	2000*700*700mm (Length*width*height) can be customized
Time setting	0~99 hours
Temperature setting	Room temperature~95°C
Generator	4 pcs
Filtration system	1 set
Power supply	AC 380V 3 phase

1. "Activation" effect: Ultrasonic waves can be cleaved into H·radical OH·free radicals by “cavitation” in the liquid. The OH·free radicals and the fouling substance ions can form complexes such as CaOH, MgOH, etc., thereby increasing the solubility of water, so that the ability to dissolve the scale is relatively increased, that is, the ultrasonic energy can improve the flowing liquid and the scale. The activity of the substance causes the fouling material to form a dispersed deposit in the liquid without forming a hard scale on the tube wall.
2. "Shear" effect: When the ultrasonic wave propagates inward from the outer surface of the metal of the scale heat exchanger, it will cause the scale on the metal heat exchange interface to vibrate with the metal, but due to the different properties and elastic impedance of the scale and metal, Scale and metal form shear stress at the heat exchange interface. The action causes the scale layer on the interface to fatigue, crack, break and fall off, which is the shearing effect.
3. "Suppression" effect: The physicochemical properties of the liquid body can be changed by the action of ultrasonic waves, and the nucleation and growth of ions in the water at the wall surface can be suppressed. Therefore, the amount of scaled ions adhering to the heat transfer surface is reduced. Practice studies have shown that the longer the ultrasonic action time, the better the scale-forming effect of scale-forming substances

Image:

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