

HS-HE Self-contained Heat Exchanger—H1000 Series

Specifications

Introduction

Micromanipulator's H1000 Series Thermal Chuck System is an integrated system to maximize your options. Choose a Thermal Chuck *and* a Temperature Control System (operate either an AC or DC Heat Controller). Next choose desired heat exchanger (cooling to ambient or rapid cooling of the thermal chuck below the cool setpoint). Then choose the Cooling Option (either above ambient with user-supplied cooling water or rapid cool down to 0 degrees C). This specification sheet features the Model HS-HE heat exchanger. It is the answer for H1000 Thermal Chuck Systems that require self-contained cooling down to room temperature.

The heat exchanger is available as part of the cooling option or separately to upgrade systems that use customer supplied water and drain.

Features

- Self-contained system eliminates the need for a water supply and drain in ambient cooling options.
- Fully compatible with the C1000 cooling module which controls heat exchanger operation.
- Equipped with self-sealing quick disconnect plumbing with internal shutoffs to prevent fluid spills.
- High reliability copper core heat exchanger provides ample 1200 Watt cooling capacity to provide rapid cool down from 400 degrees C to ambient temperature.
- Contains a sight gauge on the front panel to easily monitor the fluid level.
- Available in both 110 VAC or 220 VAC configurations with external power switch, fuse and detachable line cord.
- Integral containment pan with safety drain provided for accidental fluid leaks.
- Optional 19" rack mount kit is available. Requires 10.5" rack space in a 25" deep cabinet.
- All versions with H-1000 ambient to 400 degree thermal chucks include ambient cooling option with heat exchanger.
- Can be configured with 0° C chiller option or with -65° C chiller option for H1000 thermal chuck configurations.

Specifications

Physical dimensions

20" x 17" x 10.5" (51cm x 43cm x 27cm) WxDxH

Facility requirements

- **Power:**
HS-HE-V1: 115 VAC; 3A
HS-HE-V2: 220 VAC; 1.5A
- **Shop air:**
40-100 psig
- **Cooling fluid:**
Type: De-ionized or distilled water with a 2.5 gallon (1 dekaliter) capacity
- **Space:**
Allow at least 12" in front of unit for air circulation

Accessories

- HE-19-KIT
19" Rack Mount Kit

Ordering information:

- HS-HE-V1
Heat exchanger, 110 VAC
- HS-HE-V2
Heat exchanger, 220 VAC

The HS-HE heat exchanger is included in these H1000 cooling options:

C1000-V1-HE
C1000-V2-HE



1555 Forrest Way
Carson City, NV 89706
info@micromanipulator.com
www.micromanipulator.com

Tel: 775-882-2400
Tel: 800-654-5659
Fax: 775-882-7694
Made in the USA

A1010912 rev 2 © 10/00

Specifications subject to change without notice.