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Above Ambient Cooling Option—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 Above Ambient Cooling Option (part number C1000-V0-H) for use with a Heat Controller to rapidly cool down the thermal chuck when user-supplied cooling water is available.

The Model C1000-V0-H is the Cooling Option for use with a Heat Controller to rapidly cool down the thermal chuck when user-supplied cooling water is available.

The C1000-V0-H cooling option includes a *Cooling Module* for cooling ON/OFF control and utilizes a remote *Service Module* (SRV1) for all plumbing hookups including the water, drain and shop air supplied by the user.

Features

- The C1000-VO-H Cooling Module contains the display and control electronics for the cooling option and mounts within the space provided in the Heat Controller chassis.
- Power for the Cooling Module is supplied by the Heat Controller, either AC or DC, eliminating the need for a separate power cord.
- The Cooling Module allows the user to manually air-purge the thermal chuck as desired.
- The Cooling Module includes a built-in RS-422 interface. RS-232 and IEEE-488 interfaces are available options.
- Optional temperature control software enables programmable heat, cool and soak cycles and sequencing.
- The C1000-V0-H cooling option can cool the thermal chuck to the temperature of the facility supplied water.
- The C1000-V0-H cooling option provides on/off control of the cooling water and uses compressed air to automatically purge the thermal chuck when the cool "set point" temperature is reached[1].
- The C1000-V0-H cooling option requires a H1000 Heat Controller to operate and is compatible with all H1000 Heat Controllers.
- The remote Service Module provides a convenient location for all service connections and eliminates the possibility of controller damage due to fluid leakage.
- The remote Service Module routes user-supplied cooling water to the cooling shield on the thermal chuck. The thermal chuck cooling shield reduces the risk of a burn injury while protecting the probe station hardware from heat radiation that can cause thermal stress of positioning components.
- All hoses feature self-sealing quick connect couplings for easy hookup without spillage problems associated with conventional hose fittings.

Specifications

Performance:

- Cooling control: On/Off
- Typical ramp rate from +400° to +25° C (with 20° C cooling water)
  - 6" (150mm) coaxial chuck: 6 minutes.
  - 8" (200mm) coaxial chuck: 14 minutes.

Physical data:

- Cooling Module: 4 lbs. (1.8 kg) 8.5" x 3.25" x 14" (21.5cm x 8.25cm x 35.5cm) high x deep x wide
- Service Module (SRVI): 5 lbs. (2.26 kg) 8.5" x 2.75" x 13.5" (21.5cm x 7cm x 34cm) wide x high x deep
- Hoses/Cable: 10' (47cm) long

Facility requirements:

Water:
20-65 psig @
8 gal/hour continuous
20 gal/hour when cooling

Shop air:
40-100 psig @ 1 SCFM

Open water drain:
Zero back pressure

Note: Purge air is vented into the drain

Accessories:

- RS-232 Interface: H1000-RS-232
- IEEE-488 Interface: H1000-IEEE
- Temperature Control Software: pcTC

[1] Setpoint control is not maintained (held) by the C1000-VO-H.

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