

De-ionized Water Retrofit Kit For Heatpulse® Oven Cooling Systems

SemiStar Corp – Your Trusted Partner for AG Associates Heatpulse RTP Systems

Looking for a reliable source for your aging AG Associates Heatpulse 4100, 4108, 8108, 8800, or 8800i Rapid Thermal Processors? SemiStar Corp is the go-to expert for refurbished equipment, genuine OEM spare parts, and professional service.

We maintain extensive inventory of used RTP systems and original parts, and our engineers have over 25 years of hands-on experience servicing AG Associates Heatpulse tools. Still relying on non-specialized vendors? Frustrated by unstable equipment or inconsistent processes caused by second-source parts? Stop chasing problems on your own.

Contact us today at
sales@semistarcorp.com
and let us handle the issues for you—so you can focus on more important work... or simply enjoy your coffee.

Metal corrosion in Heatpulse® ovens can be minimized by maintaining proper water quality with an ion exchange system. Oven water quality should have a resistivity of one to five mega-ohms to prevent corrosion. Conventional de-ionized water has too high a resistivity of eighteen mega-ohms, while tapwater has too low a resistivity and contains dissolved ions which promote corrosion. The de-ionizer kit is recommended as a retrofit for any Heatpulse® with an aluminum oven and AG Associates supplied cooling system.

Maintaining water purity is important and easily obtainable with a closed loop ion exchange system. Corrosion prevention is proven with a de-ionizer and filtration system. (See Figure 1.) It also acts to reverse any corrosion buildup already present. (See Figures 2 and 3.)

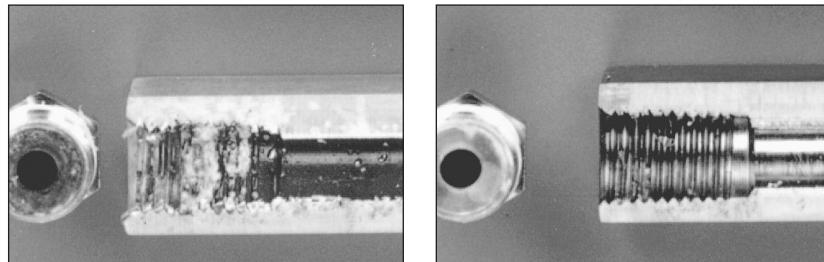


Figure 1. Corrosion after accelerated corrosion test without de-ionized water kit (left) and with the de-ionized water kit (right).

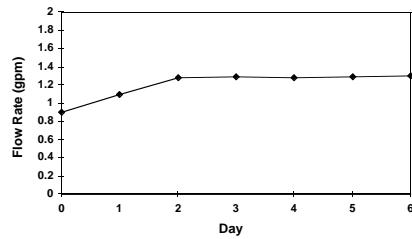


Figure 2.

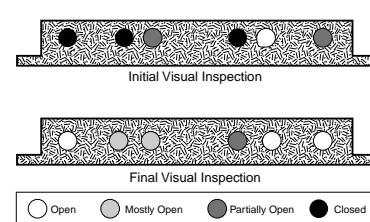


Figure 3.

Figure 2. Single plate flow rate of cooling water after de-ionizer installation.
Figure 3. Diagram showing clogged passages before and after filtration installation.

Features and Benefits

- Ion exchanger removes corrosive ions in oven cooling water.
- Flow meter allows adjusting for proper ion exchanger flow.
- Cartridge mounted lamp indicates water purity.

- Works integrally with Heatpulse® closed loop recirculator system and aluminum ovens.
- Carries UL listing for safety.
- Configurations are available in both 60Hz/120V and 50Hz/220V power systems.
- Cartridge lifetime is estimated at six to twelve months.
- Designed for use only by Heatpulse® systems with an AG Associates supplied recirculator and aluminum ovens. It is not suitable for use on facility water systems without a recirculator.
- 15 month warranty for de-ionizer. Does not affect original warranty.

Retrofit Kit includes:

- Ion exchanger, UL approved
- Flowmeter
- Water purity lamp monitor and alarm
- Tubing and fittings

De-ionizer kit for 60Hz, 120 V

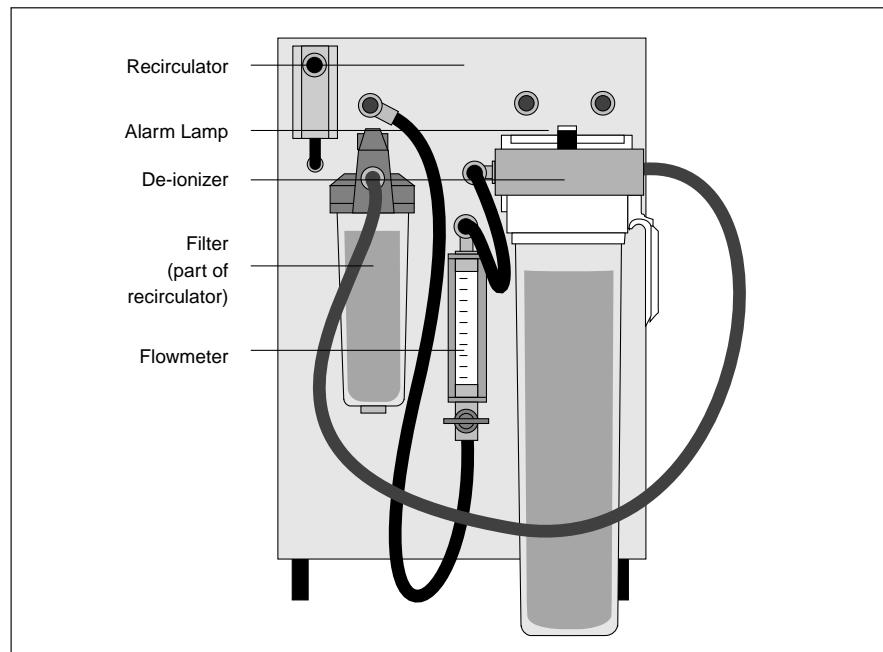
Order No. 0641-0744-01

De-ionizer kit for 50Hz, 220 V

Order No. 0641-0745-01

Spare de-ionizer cartridge

Order No. 4100-0019-12



De-ionizer system installed on a heat exchanger.