

Copper Pyrometer Upgrade Kit

For Heatpulse® 8xxx and 4xxx 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.

Pyrometer output is sensitive to variations in the pyrometer ambient temperature. A corroded or clogged pyrometer cooling channel can result in reduced cooling water flow through the pyrometer. This can cause the pyrometer to overheat and provide incorrect temperature readings which could subsequently affect process results.

Accelerated corrosion has resulted in pyrometer clogging. Hydrous aluminum oxide forms in the pyrometer cooling jackets and collects in the filters, resulting in the need for frequent pyrometer flushes. This effect appears to be independent of the individual facility's water quality.

Copper pyrometers are now standard on all new Heatpulse automatic systems. The copper pyrometer is recommended as an upgrade to any Heatpulse pyrometer system where clogging has been an issue. This includes systems with Dual Color Pyrometers (DCPs), Extended Range Pyrometers (ERPs) and Short Wavelength Pyrometers (SWPs). Copper pyrometer test results have demonstrated a marked reduction in clogging with no shift in process results. (See Figure 1.)

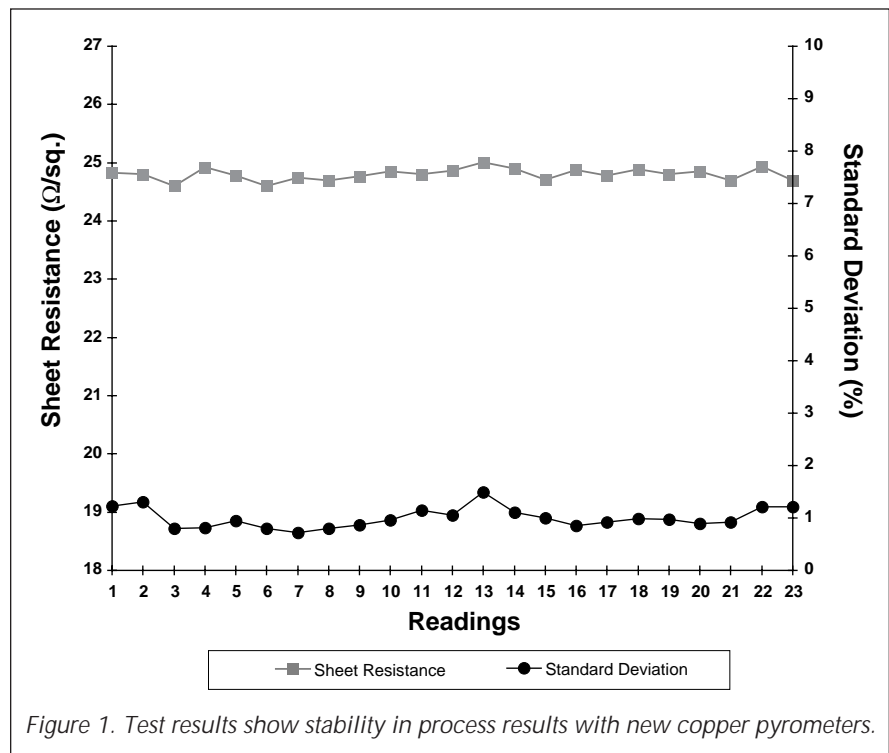


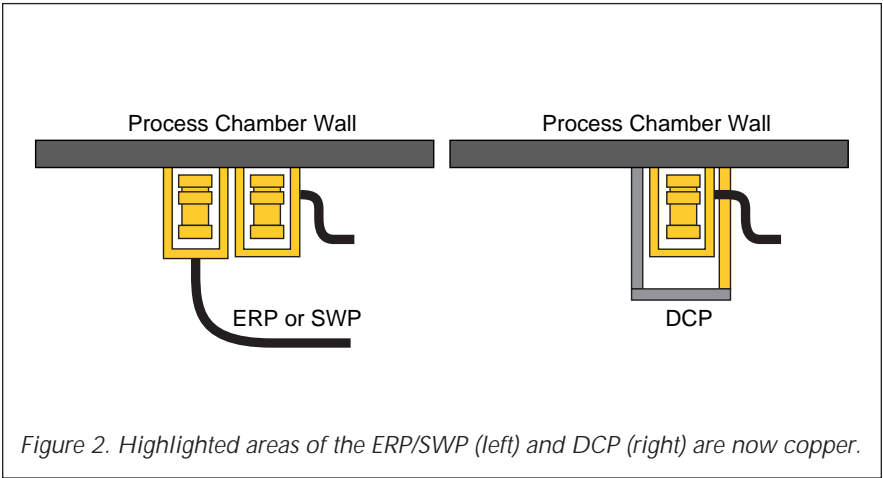
Figure 1. Test results show stability in process results with new copper pyrometers.

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Features and Benefits

- Copper replaces aluminum in cooling jacket construction to reduce particle formation and clogging.
- Nylon fittings replace steel fittings to eliminate corrosion at fitting sites.
- Silicone sealants for the pyrometer fittings prevent air leakage.

Upgrade Kit Includes:

- Copper pyrometer assembly
- Installation instructions

Copper Pyrometer Upgrade Kit

| Pyrometer Type | 4100/4100S | 4108/8108 | Manual Systems |
|-----------------------|-------------------|------------------|-----------------------|
| ERP | 7100-4227-01 | 7100-1182-08 | 7100-0873-07 |
| ERP with O.S.K.* | n/a | 7100-4074-04 | n/a |
| DCP | 7100-1134-07 | 7100-5622-01 | n/a |
| DCP with O.S.K.* | n/a | 7100-4069-03 | n/a |
| SWP | n/a | 7100-3373-06 | n/a |
| SWP with O.S.K.* | n/a | 7100-4075-04 | n/a |
| Standard Pyrometer | n/a | n/a | 7100-0874-09 |

**Oven Stability Kit*