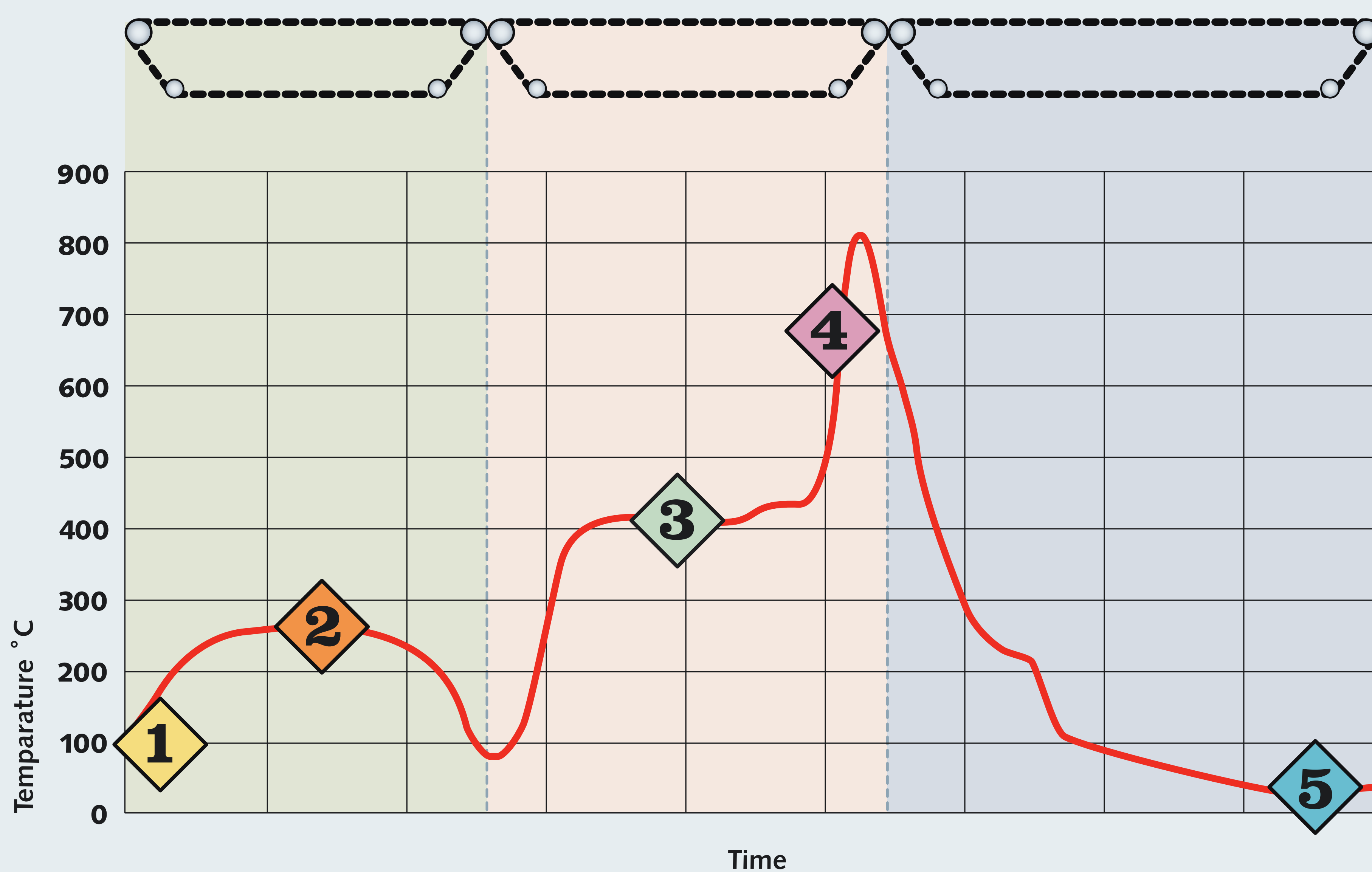
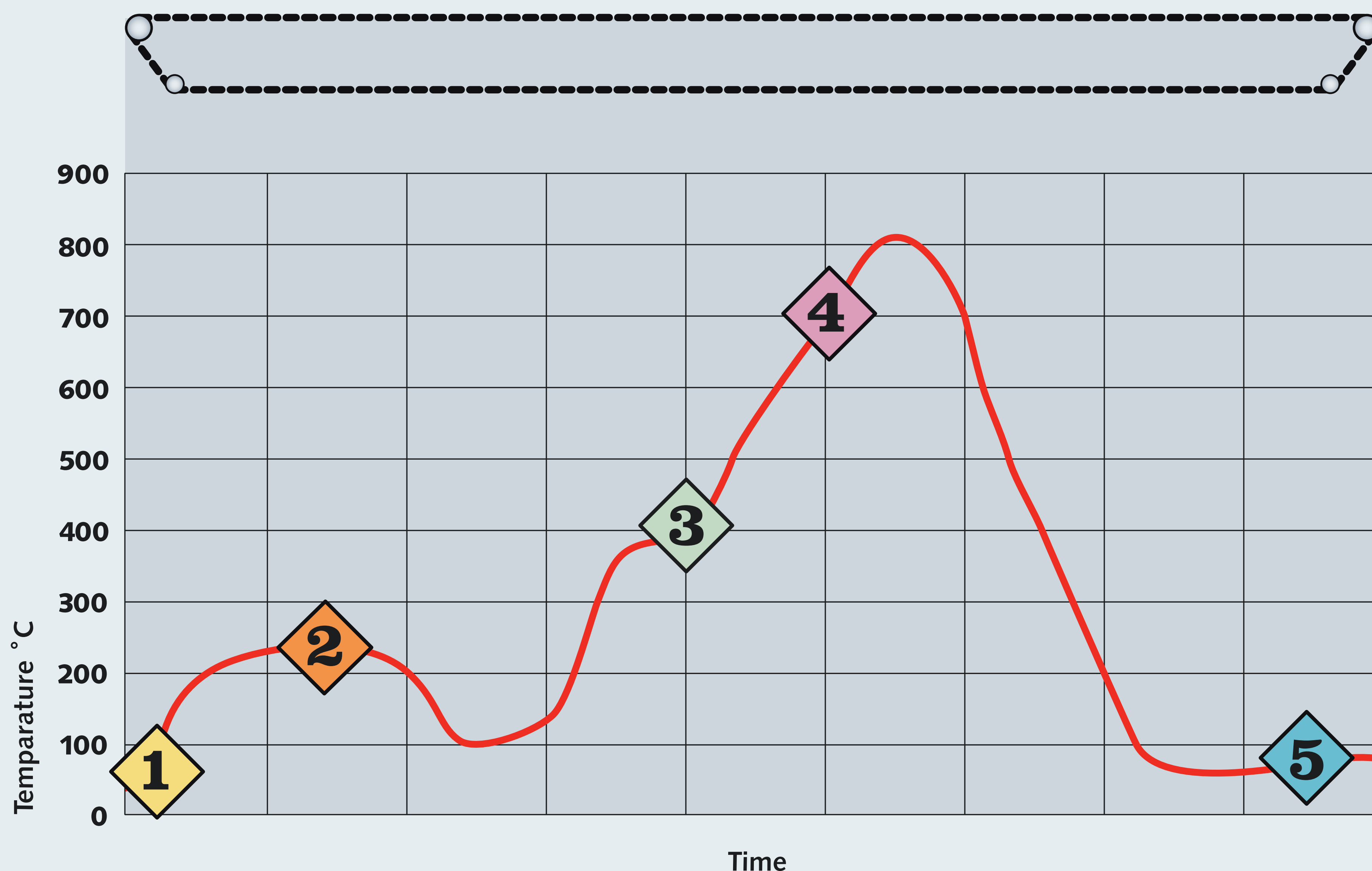


Three Belts/Three Speeds/No Compromise

TRITAN™ Three Belt System



One Belt System



1

PROFILE DEVELOPMENT

TRITAN'S™ Multi-belt system allows the user to decouple the belt speed of the drying, firing, and cooling sections. This enables the user to create a profile with very high ramp rates while not sacrificing time in the drying, and cooling steps. This unique capability provides independent optimization of the thermal profile without increasing footprint.

2

DRYING

The TRITAN™ dryer features the industry's highest atmosphere change-over rates at well-over 100 changes per hour. This results in highly effective removal of solvents.

3

BURNOUT/BINDER REMOVAL

The removal of the binder is essential to proper metallization firing. TRITAN™ offers the industry's longest burnout, nearly 4 times longer than competitive systems. Organics are effectively swept away through Tritan's unmatched atmosphere change-over rates resulting in clean processing conditions and low resident time for organic laden vapors. This keeps the process and equipment very clean. By the time your photovoltaic cell reaches peak temperature the binder material has been effectively removed from the paste.

4

RAMP RATES AND TEMPERATURE AT PEAK

Fast ramping has been shown to increase cell efficiency. The max 190°C per second ramp rates offered by the TRITAN™ are among the highest in the industry. We achieve that rate because we shift the peak output of the lamps to 1.2 microns. In addition, the TRITAN'S™ performance is stable and uniform across the multi-lane process chamber and from run to run. The temperature uniformity of +/- 2°C at peak ensures that no matter which lane your cell is in, the processing will be consistent. Zone stability of +/- 1°C ensures that your process will not change over time regardless of the maintenance cycle.

5

EXIT TEMPERATURE

The BTU TRITAN™ offers a 40°C exit temperature as standard and an optional 25°C exit temperature. This is significantly less than the 60 to 80°C exit temperature offered by our competition. Not only does this eliminate the need for crude fan cooling tables, it decreases the time to cell test.