



InKomand

Ink Temperature Control
System

Optimizing the Process

Tired of your inks running too

HOT --- and --- **COLD**



Then get *InKomand* of your ink and your process!





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COLOR SELLS

Flexo inks are designed to run at an optimum temperature range of 18-22°C / 66-74°F. Temperatures outside this range, *will* cause dramatic swings in pH and viscosity, requiring the addition of chemical adjusters, which *will* in turn, cause chemical imbalance of the inks, leading ultimately to:

- ➡ Reduced color density
- ➡ Improper drying times
- ➡ Extreme viscosities
- ➡ Reduction in print quality and productivity
- ➡ Significant waste

Optimizing the Process



What are the specific effects of temperature on ink?

- ➡ As ink temperatures increase the volatiles/amines evaporate from the ink causing the pH to drop & viscosity to rise
- ➡ Changes in pH will affect color, viscosity and trapping.
- ➡ Changes in viscosity will adversely affect ink tack levels, flow characteristics - affecting the ink film applied to the substrate.
- ➡ Inconsistent ink film transfer will plug plates, and lead to frequent production interruptions for plate and anilox washing.



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So why InKomand – Ink Temperature Control?

- ➡ Minimized addition of chemical additives...reduced cost/inventory
- ➡ Viscosity and pH swings minimized if not eliminated.
- ➡ Improved ink drying
- ➡ Faster set-ups & Reduced wash-ups
- ➡ Significant reduction of ink tack
- ➡ Significant reduction of sheet wraps / jam



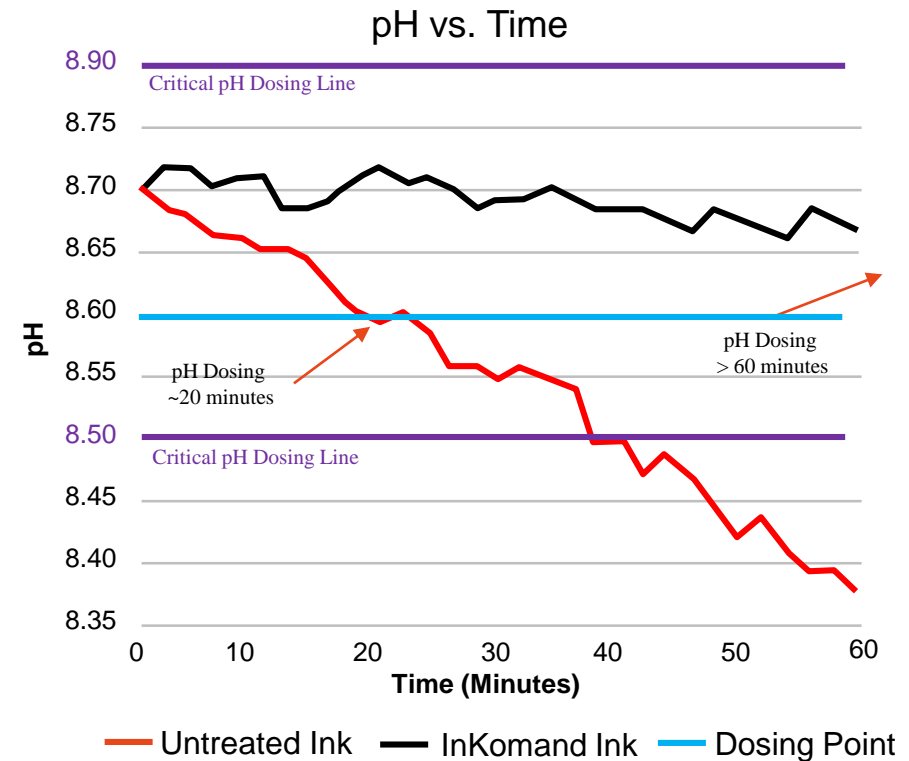
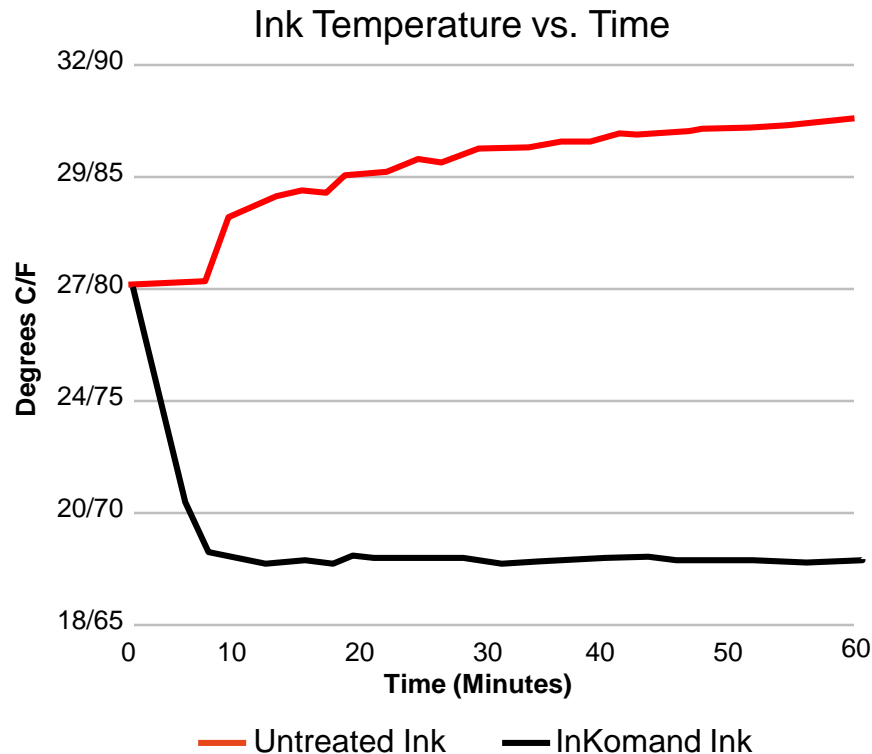
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InKomand Ink

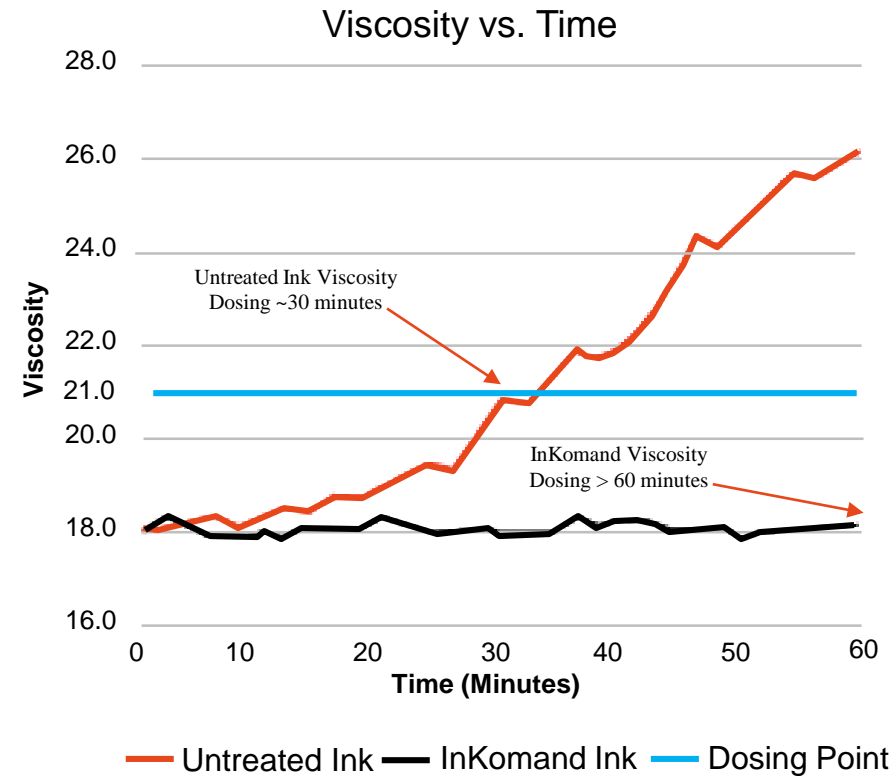
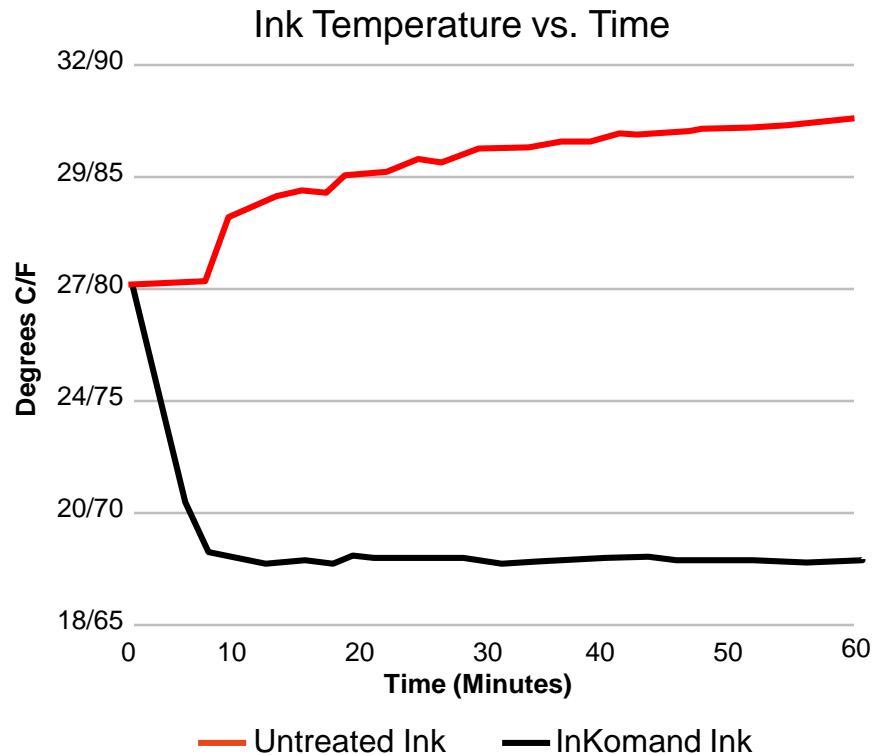




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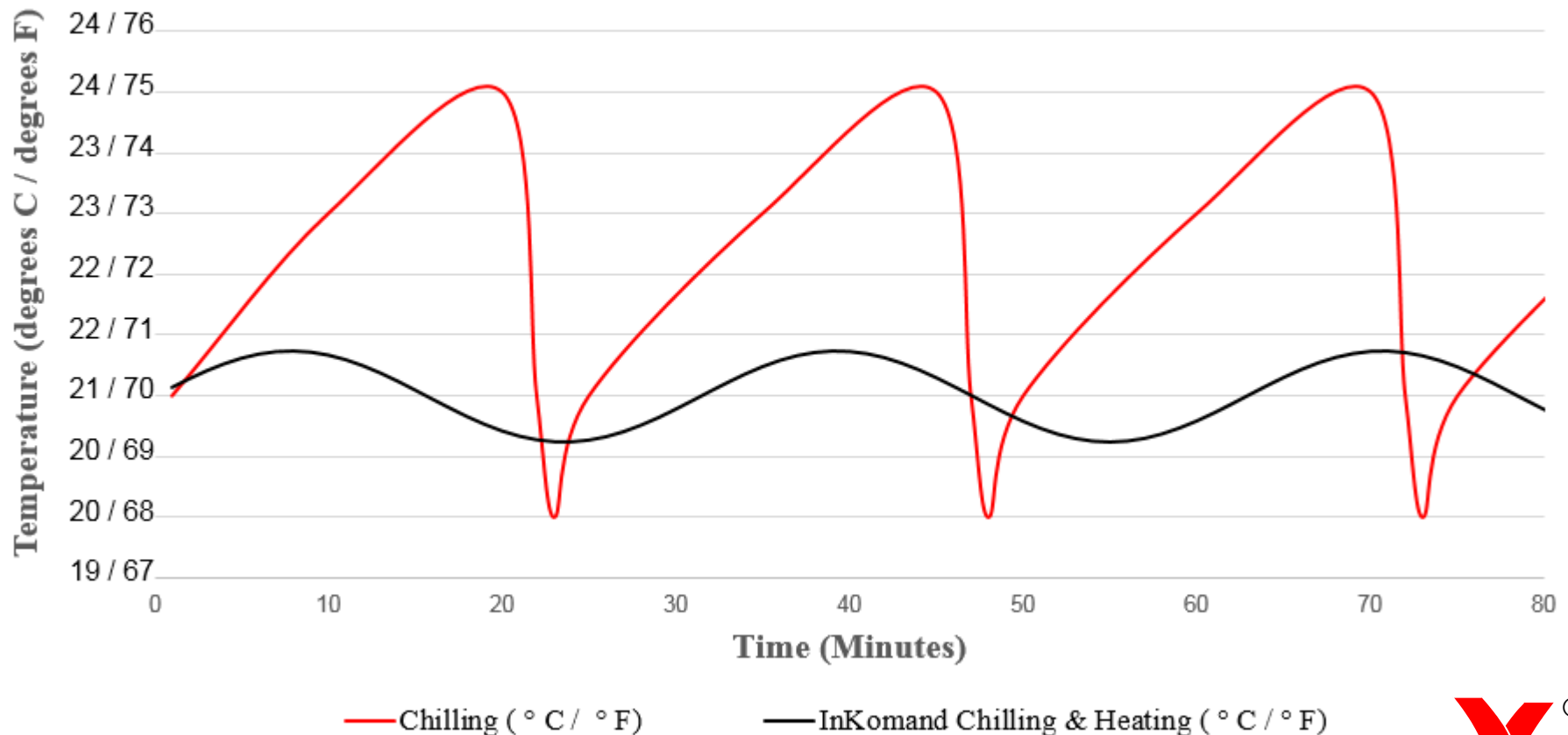


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Algorithms of Ink Temperature over Time
InKomand - Chilling & Heating versus Chilling Only



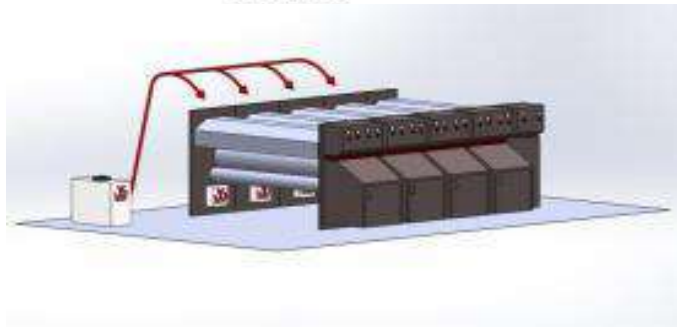
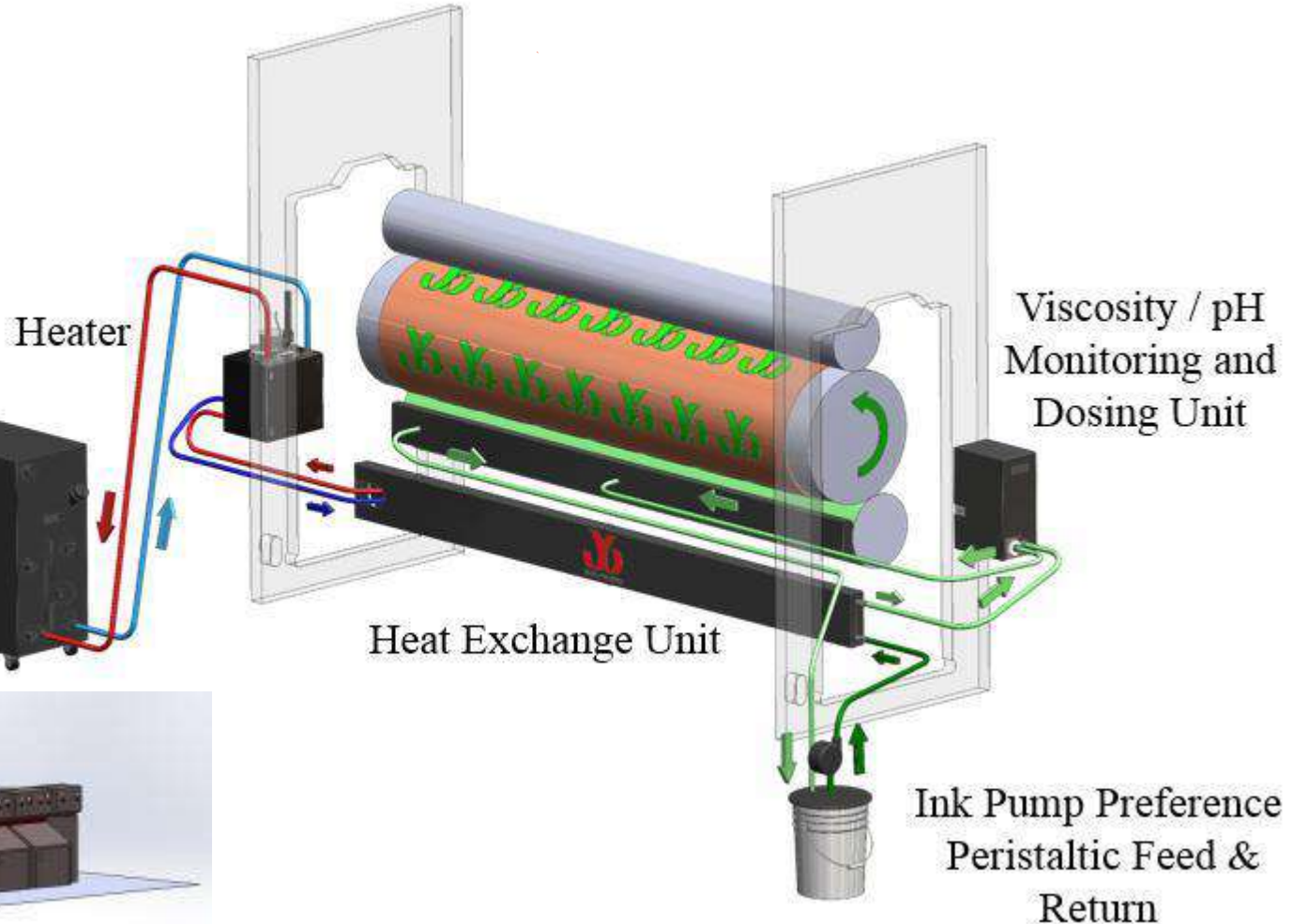
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20/70 Temperature Control System (Chiller / Heater), provides individual temperature control to each Heat Exchange Unit



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System Performance Specification

- Seamless *automatic* switching between heating and cooling
- Ink *cooled* from a high of 86°F to 70°F (30°C to 20°C) in *less* than 5 minutes
- Ink *heated* from a low of 50°F-70°F (10°C to 20°C) in *less* than 5 minutes
- Other temperature extremes will take longer to adjust

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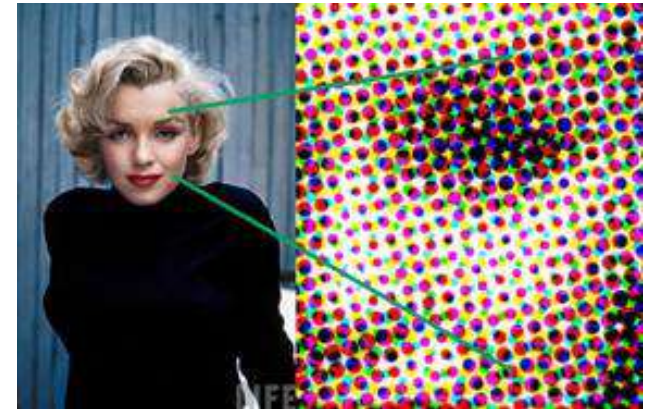
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Benefits:

- Optimized Print Quality
 - Consistent Color
- Maximized Productivity
 - Enhanced Efficiency
- Significantly Reduced Waste
 - Reduced Cost



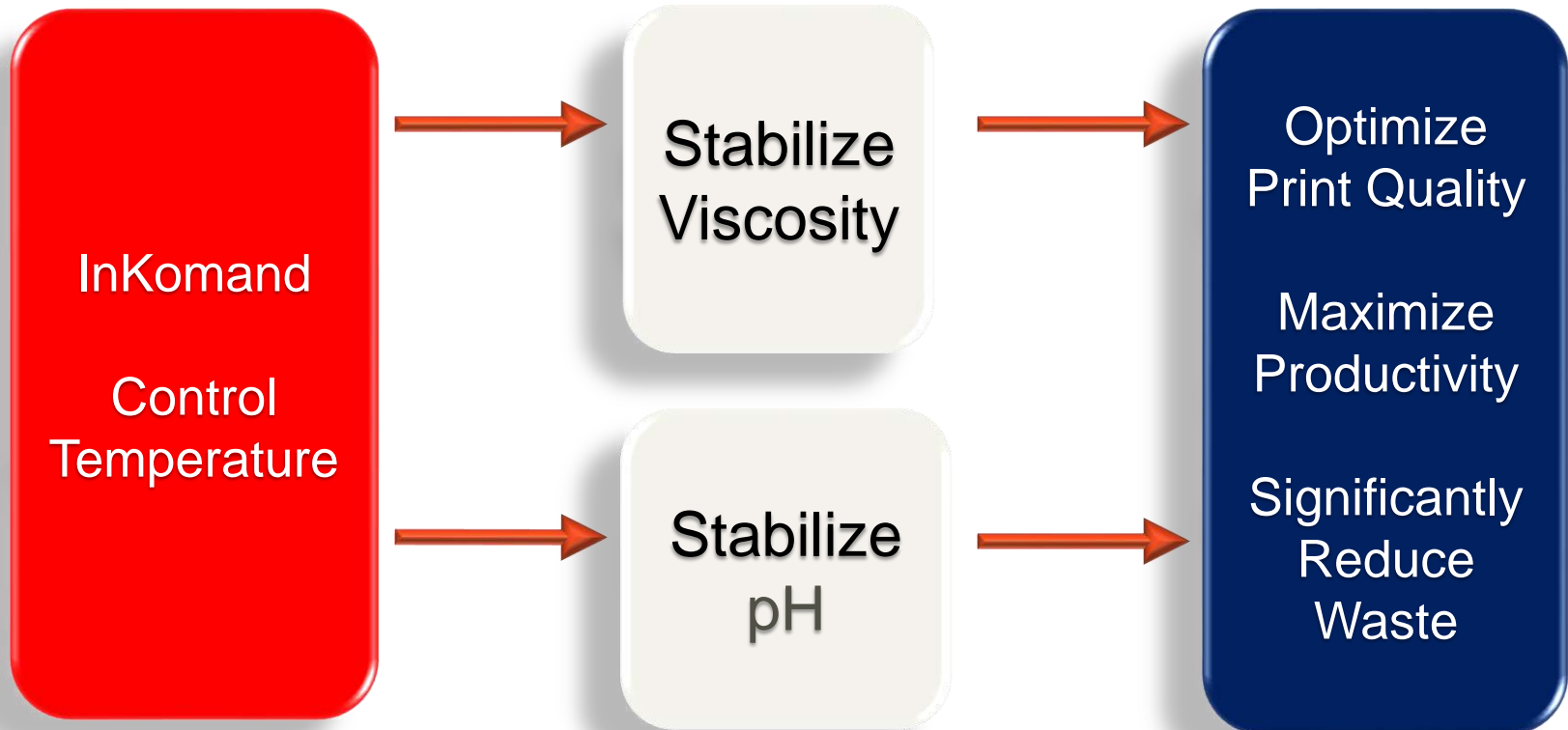
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Consistent Color – Enhanced Efficiency – Reduced Cost

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KomandCenter™

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Coming Soon

