Perfect Flame



OEM Brazing

- » Wide variety of raw material tubing specifications
 - Alloy
 - Wall thickness
 - Diameter
- Brazing filler metals vary in fluidity, shape and size

What is your spec. on the torch flame time and temperature?



Perfect Flame – Flame Temperature

Aluminum Coil $AI \rightarrow AI$ Compressor Stub Cu → Cu Flashed Steel

Commercial Manifold Elbow Cu → Cu Nickel



Perfect Flame – Flame Temperature





Torch On/Off Time









DMAIC Process



Design: Define the different flames you need for your production with our software



Measure: Using the software program, you can now measure the exact energy (BTU or KCAL) of your flame.



Analyze: Use data to compare to current process to find Perfect Flame for specific application



Improve: Make detailed, repeatable adjustments to the flames to achieve maximum operational efficiency.



Control: Multi-tier security to lock settings in to produce consistent and repeatable flames



Perfect Flame – Model ST

- » Toggle between 5 different settings with foot pedal
- Designed for applications with multiple different braze joints
- » No need to manually adjust flames
 - Password protected flame settings
 - Valveless torch —











Perfect Flame – Model MT

- High production operation brazing the same or different joints
- Three operators can work from one Multi-Torch unit
 - ✓ Same flame on all three torches
 - ✓ Different flame on all three torches









Documented Cost Reduction (DCR)

The Harris Products Group is committed going above and beyond the expectations of a normal supplier by helping our customers improve their brazing operations.

- » We strive to help you lower costs, decrease leaks, increase production and improve quality.
- » This Facility Brazing Audit consists of two steps.

1) Preliminary Audit

2) Full Audit

- » Clearance
- » Filler Metal
- » Cleaning
- » Heat Input
- » Flux
- » Post Braze Processes



Or contact your local Lincoln Electric Representative



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