

Automation Produces Higher Profits!!

Problem:

Customer in the refrigeration industry needed to improve product cleanliness and quality while reducing production costs.



Application:

Copper tubing to brass body

Solution:

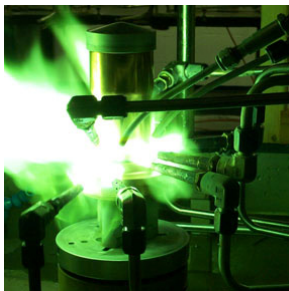
The **DCB Dual Cell Brazer™** - a rugged, easy to operate, dependable brazing system.

Original Assembly Methodology: The operator assembled the parts then manually brazed the assembly using a torch and brazing alloy rod. The success of the process depended on the skill of the operator. Production was slow and laborious. Operator fatigue and loss of interest was a problem. Quality was inconsistent and the leak rate was high. The parts required excessive time in a bright dip tank.

Automated Assembly Methodology: The operator applies flux to the tube and inserts it into the brass body. The operator then loads the assembly on the DCB Dual Cell Brazer™ and presses the start button. The machine moves the torches into position and rotates the assembly for uniform heating of the joint. Automatic wirefeeders deposit a precise amount of braze alloy to the joint. The part is air and water-cooled. While the DCB Dual Cell Brazer™ is brazing the part, the operator loads the next part to be brazed on the other side of the machine. Gasflux® is used to enhance alloy flow and keep the part clean.

Results with the DCB Dual Cell Brazer™: Automation produced consistent, high-quality parts. Production increased dramatically because the operator is no longer part of the process. The Company reduced post-braze cleaning and product cost, improved quality and consistency, and eliminated its dependency on manual brazing because the operator no longer needed to be a trained braze technician.

Function	Manually Brazed	Automated	Production Increase
Braze 120 Assemblies	10 hours	1.5 Hours	567%
Production Throughput	12 parts/hour	80 parts/hour	567%



DCB Dual Cell Brazer™



Advantages of Automatic Brazing

- Consistent Quality
- Higher Production Throughput
- Lower Labor Costs
- Lower Braze Filler Metal Costs
- Lower Training Costs
- Improved Cosmetic Appearance