

# Induction Brazing Water Faucets

United Induction Heating Machine Limited

We are experienced in Induction Heating, induction heating machine, Induction Heating equipment. They are widely used in induction heating service, induction heat treatment, induction brazing, induction hardening, induction welding, induction forging, induction quenching, induction soldering, induction melting and induction surface treatment applications  
<http://www.uihm.com>

Objective Brazing several brass and copper assemblies used in water faucets

Material braze, white flux

Temperature 1350 °F 730°C

Frequency 160 or 277 kHz (coil dependant)

Equipment Power of 15kW induction heating system, remote work head with two 1μF capacitors and a 3-turn helical coil

Process Three helical coils are used separately to braze a range of provided parts. Parts are assembled with flux and a braze alloy and then heated.

The heat time varies from part to part with large parts taking less than 3 minutes and, the smaller parts heated in less than

20 seconds. After heating the parts are quench-cooled.

Results/Benefits Repeatability: the inherent precision of induction heating supports a process which is highly repeatable.

Economy: the process allows for the use of higher temperature braze alloy than a flame process

brazing-water-faucet

# Brazing Faucet Components



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