

Ultrasonic Humidification Retrofit

Ultrasonic humidification retrofit consists of converting existing electric steam or infrared humidifiers to ultrasonic humidification. In ultrasonic humidifiers, ultrasonic vibration of water develops capillary waves in the water surface that atomize the water into a fine spray that evaporates and humidifies the air. The ultrasonic humidifiers operate through Piezo electronic transducer technology that requires pure deionized water. Humidification retrofit conversion reduces energy consumption by 95%, reduces maintenance costs, and improves indoor air quality by eliminating standing water reservoirs, sludge, and scale.

The first retrofit system was installed in Comerica's Data Center in June, 1991. In September 1993, ADP (Ann Arbor, MI) converted 40 units to ultrasonic humidification and reported savings of \$136,000 per year. Other conversions include the Steelcase Headquarters Building, and projects with Blue Cross Blue Shield, TRW, Kellogg, Dow Corning, Ford Motor Company, Detroit Edison, and US Sprint.

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