<table>
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<th>ADIABATIC HUMIDIFIERS</th>
<th>ADVANTAGES</th>
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</table>
| Centrifugal            | • Simple   | • Difficult to apply to air handling systems  
• Provides evaporative cooling to surrounding air  
• Limited capacity  
• Possible plugging issues | N/A |
| Compressed Air and Water | • Adjusts to changes in demand, modulates output  
• High turndown of output  
• Provides evaporative cooling to surrounding air  
• Customizable to air handling systems  
• Available in a wide range of capacities | • Requires sufficient volume of compressed air  
• Requires purified water  
• Longer evaporation distances  
• Requires sufficient pre-heat of air supply | • Air compressor  
• Reverse osmosis water treatment system  
• Three way drain valve  
• Mist eliminator  
• Controls |
| High Pressure Atomizers | • Same benefits as Compressed Air & Water  
• Benefits of atomization without cost of compressed air | • Requires purified water  
• Requires sufficient pre-heat of air supply  
• Longer evaporation distances | • Reverse osmosis water treatment system  
• Mist eliminator  
• Controls |
| Ultrasonic             | • Adjusts to changes in demand, modulates output  
• High turndown of output  
• Customizable to air handling systems  
• Provides evaporative cooling to surrounding air | • Uses deionized (DI) water  
• Requires sufficient pre-heat of air supply  
• Longer evaporation distances  
• Needs to have an accurate reservoir liquid level  
• Limited output from each piezo crystal | • Deionized water treatment system  
• Mist eliminator  
• Controls |
| Wetted Media Evaporative | • Available in a wide range of capacities  
• Provides evaporative cooling to surrounding air  
• Low energy consumption | • Slow response to reduction in demand  
• Requires biocide  
• Non-purified water can lead to a build up of impurities  
• Water collection pan must be purged periodically | • Controls  
• Recirculation pump |