



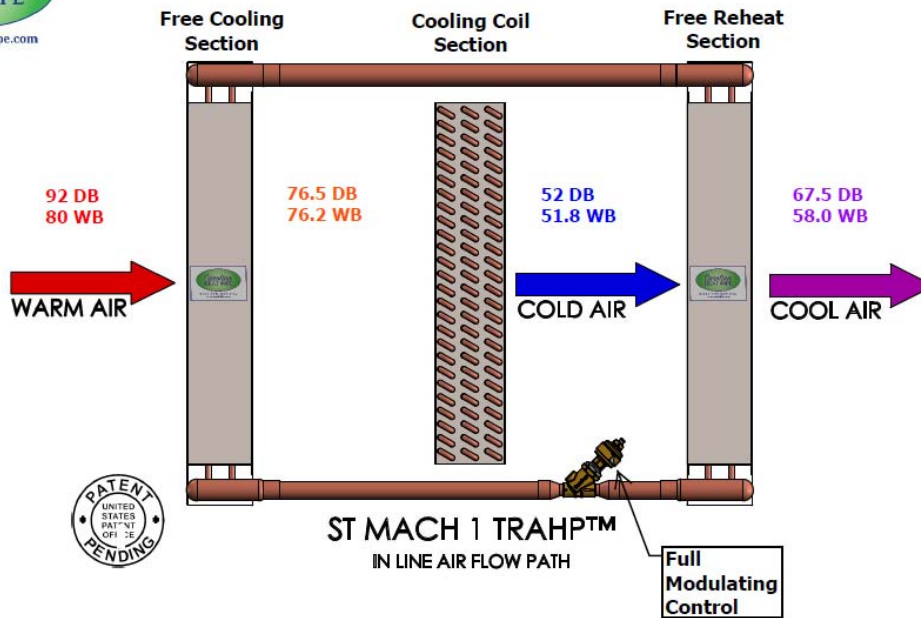
Controllability

Science of Heat Pipe Technology | Solutions in Action

Solutions for Energy Recovery & Dehumidification

The Carolina Heat Pipe TRAHP™ design offers the option of controllability, so that improved comfort and efficiency in an air conditioning system becomes attainable.

Control makes sense because the operation of reheat, even passive reheat, when not required, creates discomfort by making rooms too warm. Control provides the ability to provide the precise reheat required for dehumidification. In certain applications, a non-controlled heat pipe could result in overheating a space; creating an additional air conditioning load requiring more energy to maintain the desired space temperature.



By passively transferring sensible heat from the entering side of a cooling coil to the leaving side the TRAHP™ system can **reduce the operating costs as much as 70% compared to a conventional reheat system**. This energy savings is a significant opportunity to utilize LEED HVAC credits in two categories: Energy and Atmosphere (the building's energy consumption and release of pollutants), and Indoor Environmental Quality (the health and productivity benefits to occupants).

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