

CONTROLLABLE HEAT PIPES, THE EASY WAY

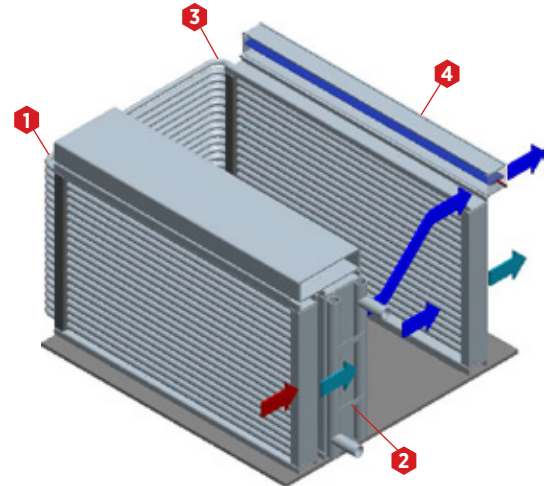
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Innergy tech technical library, document HP-T5.0_A

Expensive and complicated control systems using valves or tilt mechanisms are not the only solutions available to reduce the amount of reheat of a wrap-around heat pipe. In cases where capacity reduction is truly needed, a simple airside bypass damper with common controls is your best option. There is no need for solenoid valves that can be a source of refrigerant leaks, nor is there a need for expensive proprietary controls.

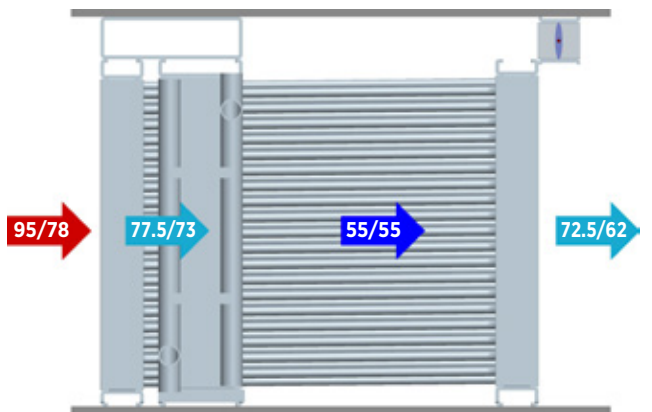
A simple bypass damper as small as 4" will modulate the effectiveness of the wrap-around heat pipe by just the right amount to avoid too much reheat. The solution is also very versatile since the bypass can be placed on top or side of the reheat heat pipe depending on the air handling unit's design.

► Innergy tech controllable wrap-around heat pipe advantages:

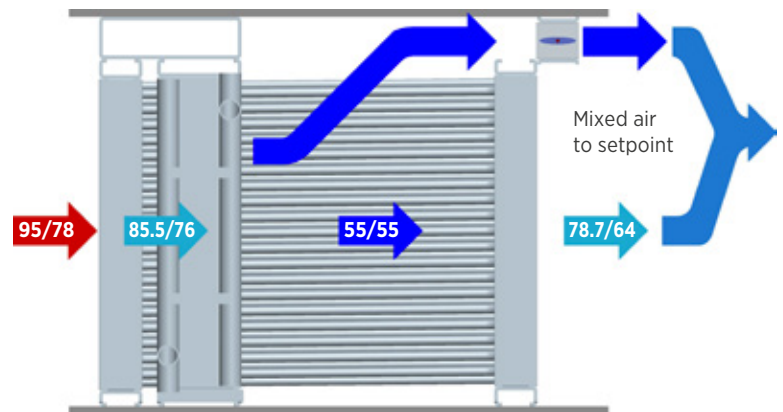
- Simple, non-proprietary and inexpensive controls
- No moving parts in heat pipe assembly
- No risk of refrigerant leakage due to added pipe connections (valves)
- Can be quickly serviced by local HVAC technicians
- Will help get better results for LEED Energy and Atmosphere Credit 4
- Face dampers will not be required for most applications



- 1 Precool wrap-around heat pipe section
- 2 Cooling coil
- 3 Reheat wrap-around heat pipe section
- 4 Bypass damper



CLOSED DAMPER PERFORMANCES



OPEN DAMPER PERFORMANCES

A fully functional controllable heat pipe is obtained by simply adding a small distance between the cooling coil and heat pipe's reheat section (often required by ASHRAE 62.1 standard anyway), and then adding a small bypass damper and discharge air temperature sensor/controller. As more air is bypassed around the heat pipe, the whole heat pipe assembly's effectiveness (or reheat capacity) is gradually reduced. This bypass can be modulated for variable temperature control.

Please contact Innergy tech's technical sales engineers for advice on the best wrap-around system for you.

setting the
standard
for **energy
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