

A Closer Look



Medical | Solutions
in Action
Solutions for Energy Recovery
& Dehumidification

Forsyth Medical Center
Novant Health Micro Lab
Energy Recovery TRAHPTM
Winston Salem, North Carolina

The Project:

Incorporation of an Air-to-Air Energy Recovery system with the challenge of split air streams and a 70-foot pipe span between two heat pipe coils. An additional twist on the project was that it required fieldwork at Buffalo Air Handling and at the jobsite.

The Solution:

At the request of Clark Air Systems, Carolina Heat Pipe designed and manufactured a custom Split System Energy Recovery 6-row heat pipe system with on off control, 9,200 CFM supply air and 9,200 CFM exhaust air. The heat pipe system was designed to maintain 450 fpm face velocity for optimal performance.

The heat pipes were coated with Adsil AD35 for corrosion protection and sent to Buffalo Air Handling's Amherst Virginia facility where CHP supervised the heat pipe coil installation in both supply air handler and exhaust unit.

"Carolina Heat Pipe has always been my go-to wrap around heat pipe supplier. The product has always performed as expected without service calls. I especially like that Carolina Heat Pipe comes to the factory to charge and test the systems. That gets us a turnkey system we can depend on." Jeff Clark, Clark Air Systems

CHP supervised the installation of the interconnecting piping on the roof of Novant Health in Winston-Salem and then properly charged the heat pipe system.

Performance Results:

Under design conditions, the CHP heat pipe system can recover 452,335 BTU/hr. from the exhaust to preheat the winter make up air. During summer conditions, the Energy Recovery TRAHPTM heat pipe system can precool the makeup air by transferring 180,056 BTU/hr. to the exhaust air.

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