

the technology: energy spectrum heat pipes

How They Work

Energy Spectrum Heat Pipes are a highly advanced patented technology and each pipe carries a five-year warranty. The Heat Pipes contain various operating liquids working under a vacuum and when one end of the pipe is heated the liquid turns to vapor absorbing the latent heat through vaporization. The hot vapor flows to the colder end of the tube where it condenses and releases the latent heat. The recondensed liquid then flows back to the hot end of the tube. Since the latent heat of evaporation is usually very large, considerable quantities of heat can be transported with a very small temperature differential from one end of the pipe to the other. The amount of heat that can be transported as latent heat of vaporization is usually larger than can be transported in a conventional convective system with an equivalent temperature difference. Energy Spectrum Heat Pipes are 99% efficient in the transfer of available energy.

The Heat Pipe Advantage

Energy Spectrum Heat Pipe Heat Exchangers offer many distinct advantages over more common heat exchange technologies. Each Energy Spectrum Heat Exchanger is made with a series of individual heat pipes filled with a working fluid suitable for operation within the temperature range of the system.

Specific advantages include;

- No moving parts for virtual maintenance free operation.
- Integral design minimizing the adverse effects of metal expansion.
- Significantly lower pressure drop than other Heat Exchange technologies.
- More efficient and therefore more cost effective than other similar solutions.

For more information contact:

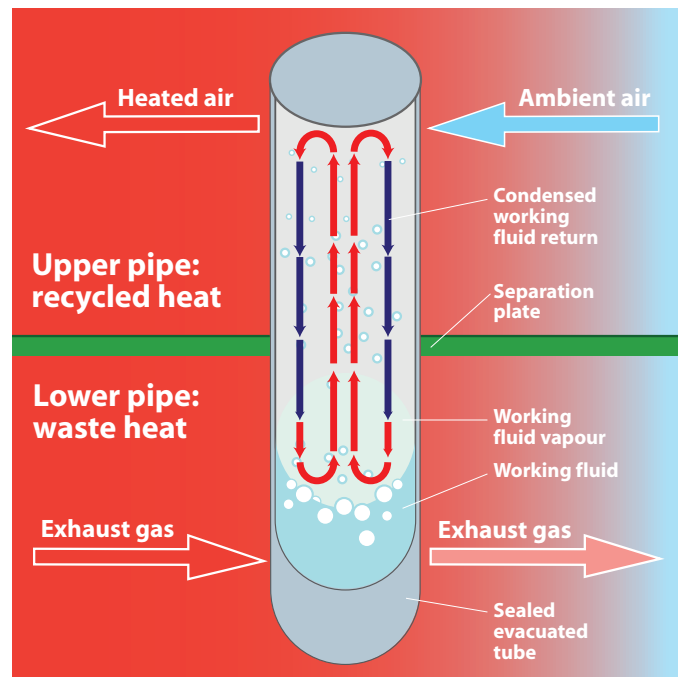
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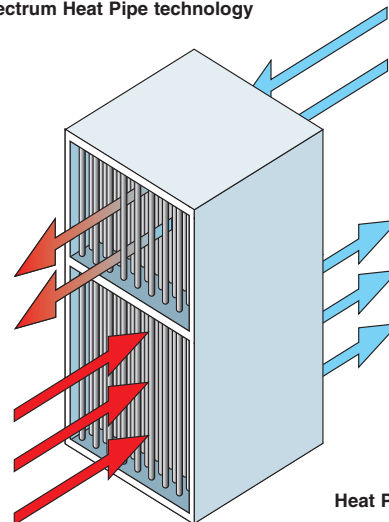
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Energy Spectrum Heat Pipe technology



Heat Pipe Heat Exchanger

Features:

- Zero cross contamination as pure energy is all that is transferred
- High temperature applications
- A range of working fluids and pipe materials are available, ensuring the highest performance efficiency under any temperature situation.
- Independent operation of each individual pipe therefore the Heat Exchanger is less susceptible to failure.
- Heat Pipe Heat Exchangers are highly reliable due to 'intrinsic redundancy' features offering optimum performance at all times.
- Scalable design for ease of location, installation and maintenance.
- High efficiency ensures minimal loss of energy.