

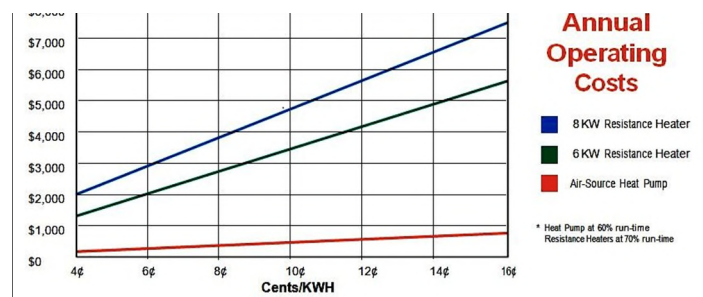
*These Generator Air-Source Heat Pumps Typically Achieve 75%-85% Energy Savings*



The GenHP footprint is 24"x24"x40"

**Summary:**

- Generator manufacturers usually recommend heating engine blocks to over 90°
- Adding a GenHP unit creates a redundant emergency generator heat source
- Air-source heat pumps are customized to our patented specifications by an industry-leading manufacturer
- Over 1,000 GenHP units in operation



Energy savings increase with generator size

**The Process**

Emergency generators are heated to insure a safe and reliable start-up, and to prevent cold start wear. Generators are sold with resistive heaters which operate constantly and are much less energy efficient than air-source heat pumps.

The system also adds redundancy by utilizing the existing block heater as a back-up heating device. Typical block heaters fail every 18-36 months, creating cold start potential for your generator. We've had GenHP units in the field for 20 years and counting. Our patented system greatly minimizes this potential point of failure.

Without GenHP, a block heater failure is a generator heating failure. With GenHP, you have a back-up plan.

A survey reported in [Air Conditioning/Heating/Refrigeration News](#) stated, "the average time to heat pump failure was 26 years." *They last a long time...*

ECM Holding Group provides a suite of energy conservation technologies and project solutions to the leading Energy Saving Companies (ESCOs) and corporate clients in North America. For more information, please visit <http://ecmholdinggroup.com>, or call 920.267.6120.