



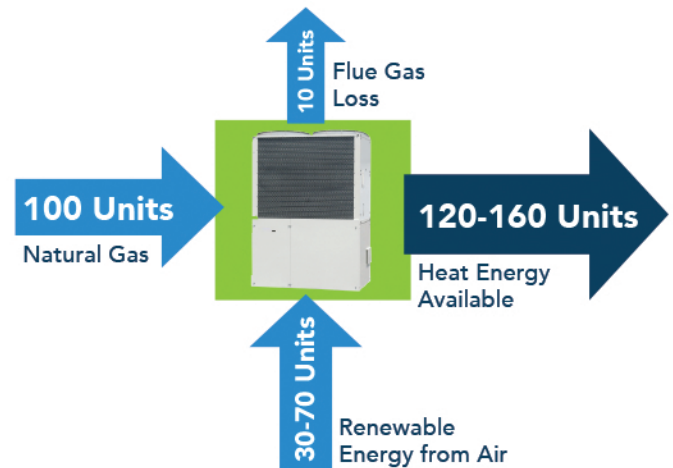
EFFICIENT & AFFORDABLE GAS HEAT PUMPS

GAS HEAT PUMP OVERVIEW

Heat pumps move heat from an outdoor source to the indoors for **more efficient** water and space heating. Apart from electric powered, now heat pumps are also available to be run on gas and renewable fuels.

GAS HEAT PUMPS DELIVER GREATER THAN 100% EFFICIENCY

- Natural gas heat pumps have system efficiencies that **exceed the traditional 100% barrier** and offer pathways to substantially reduce greenhouse gas emissions across various climates by combining energy sources.
- The diagram to the right shows how a gas heat pump delivers 120-160 units of energy from just 100 units of fuel by capturing 30-70 units of energy from an outside source.



TYPES OF HEAT PUMPS

1

ENGINE DRIVEN HEAT PUMPS

Gas engine driven heat pumps use the same vapor compression cycle as electric heat pumps, with the electric motor being replaced by an Internal Combustion Engine.

2

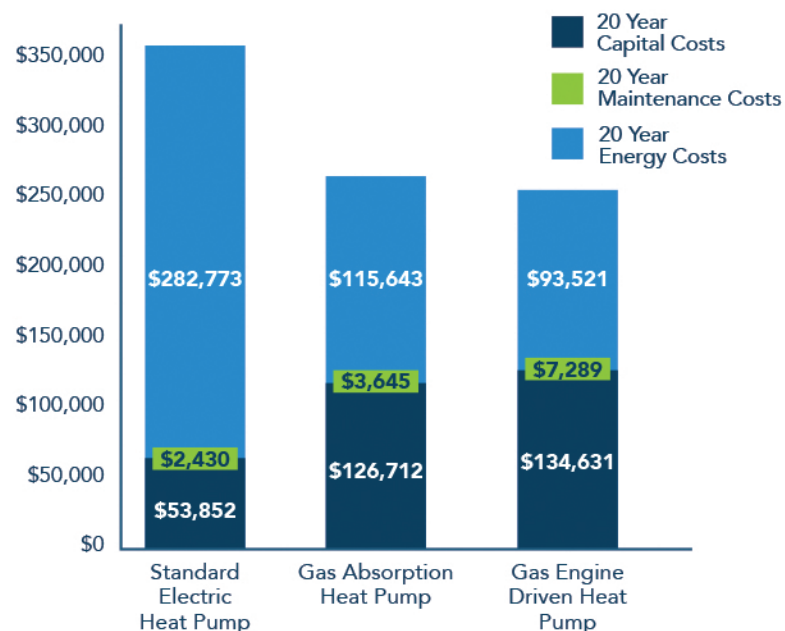
ABSORPTION HEAT PUMPS

Absorption heat pumps are hydronic type systems that can heat or cool a space. The system is similar to a vapor compression cycle, but instead of a motor and compressor, absorption systems use a generator, pump and absorber.

LOWEST COST TO HEAT AND MAINTAIN

Based on the 2022 U.S. Average Retail Energy Prices, commercial natural gas costs **\$7.89** and electric costs **\$31.60**.¹

COMMERCIAL BUILDING 20 YEAR LIFE CYCLE COST ANALYSIS²



**FOR MORE INFORMATION VISIT:
WWW.GASHEATPUMPS.COM**

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