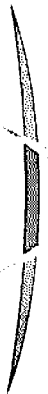


BENEFITS of GEOTHERMAL HEATING and COOLING

Edward Giordano

Achieve Renewable Energy, LLC.
Danvers, MA and Smithfield, RI

© 2009 Achieve Renewable Energy, LLC



ACHIEVE
RENEWABLE ENERGY

1-877-646-9922

WaterFurnace
Smarter from the Ground Up.™



What is Geothermal HVAC?

- Uses the Earth as a source of heating, cooling and hot water
- “Moves” energy instead of creating heat through burning
- Releases or absorbs heat from the ground
- Heat pump technology produces heating or cooling.
- Similar technology to that in a refrigerator or air conditioner

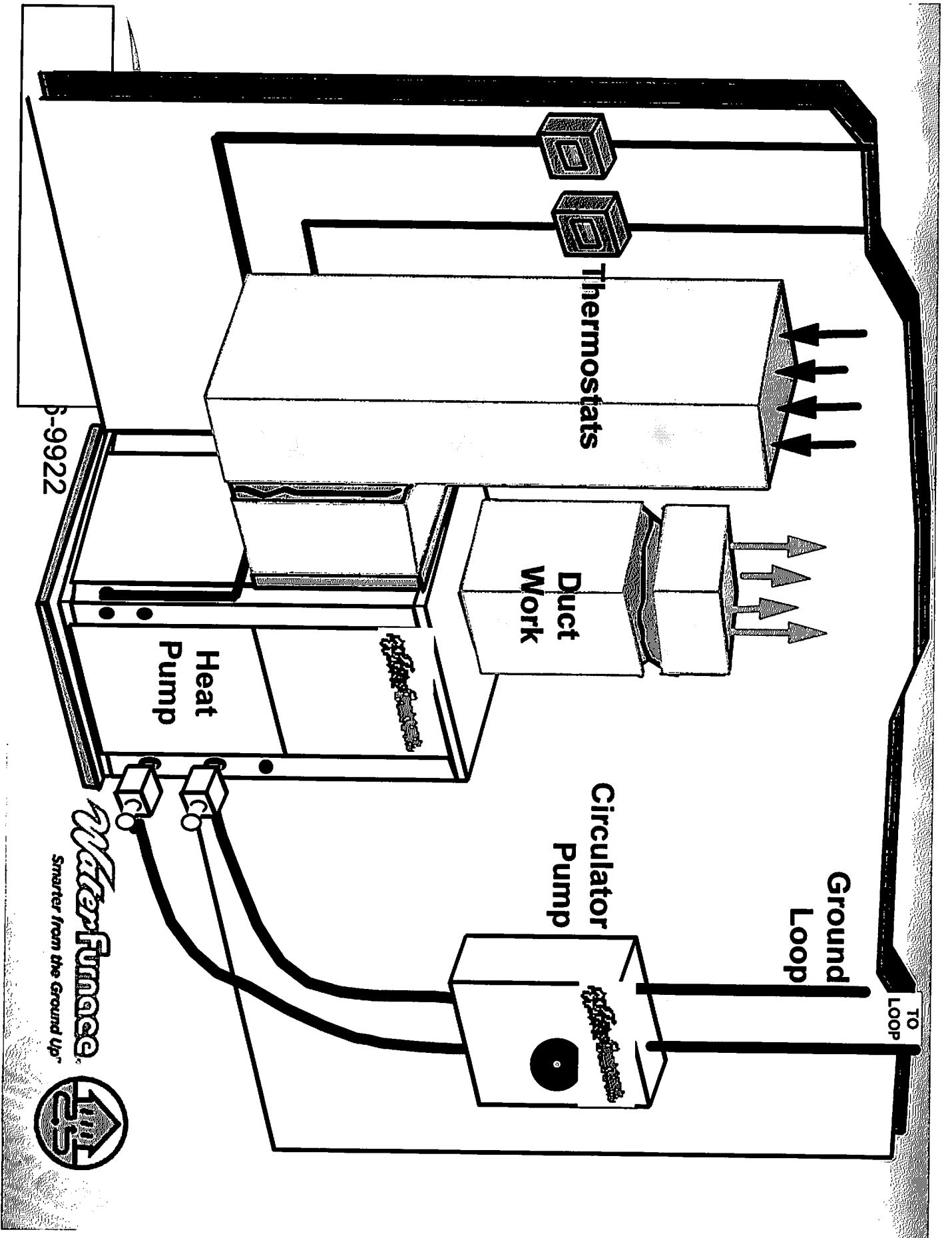


ACHIEVE
RENEWABLE ENERGY

1-887-777-6646 66-9992222

WaterFurnace
Smarter from the Ground Up[®]





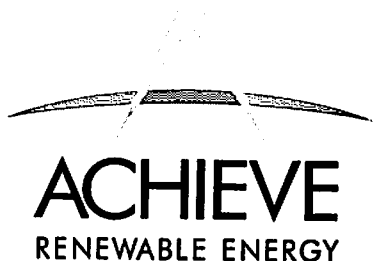
8-9922

WaterFurnace
Smarter from the Ground Up™



Types of Heat Exchanging Loops

- Closed Loops
 - Loops contain antifreeze solution (EnviroNol™)
 - No exchange of fluid with the ground
- Open Loops (wells)
 - Pulls water from the ground and discharges water back to the ground, lawn or pond

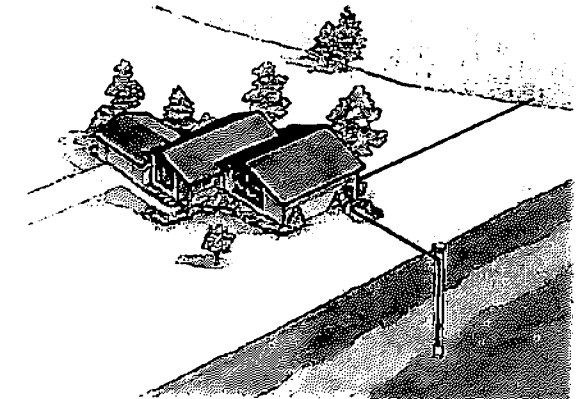
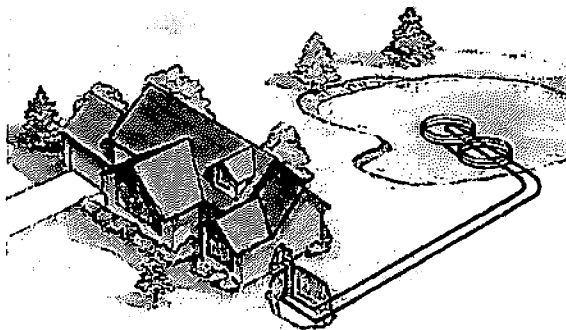
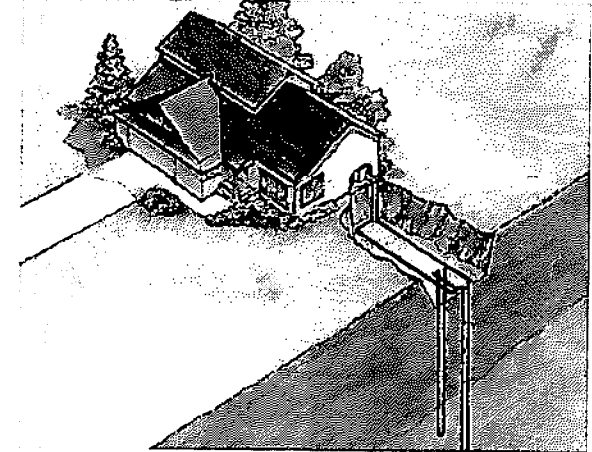
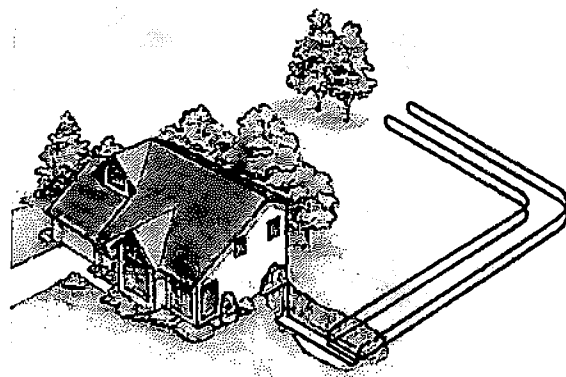


1-877-646-9922



Geothermal Loops

- Closed Loops
 - Horizontal
 - Vertical
 - Pond/Lake
- Open Loops
 - Well water



1-877-646-9922



Closed Loops

- High density polyethylene pipe (life expectancy of over 200 years)
- Does not rust, rot, or corrode
- All connections are made by heat fusion
- 55 year No Leak warranty available



ACHIEVE
RENEWABLE ENERGY

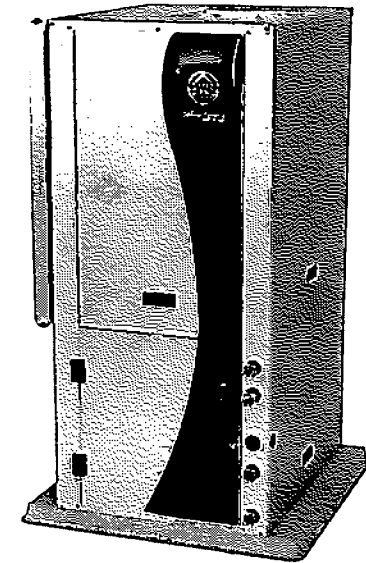
1-877-646-9922

WaterFurnace
Smarter from the Ground Up[®]



What are the benefits?

- Environmentally friendly renewable energy source
- High Certified Efficiency
 - 30 EER (cooling)
 - 5 COP (heating)
- Energy Savings up to 70%
- Reduced Carbon Footprint
- Elimination of on-site Fossil Fuel Use
- Chlorine-free, ozone-friendly refrigerant
- Vinyl-free piping
- No chemical connections
- Earn Leadership in Energy and Environmental Design (LEED) points



1-877-646-9922



The same unit can provide heating and cooling

- No outdoor condenser unit necessary
- No separate duct work necessary
- Thermostat automatically switches from heating mode to cooling mode!
- You *do not* need to keep a fossil fuel system for back-up.
- It is *not too cold* in Massachusetts for Geothermal heating.
- It can provide *100%* of heating and cooling requirements



1-877-646-9922



Your energy bill...

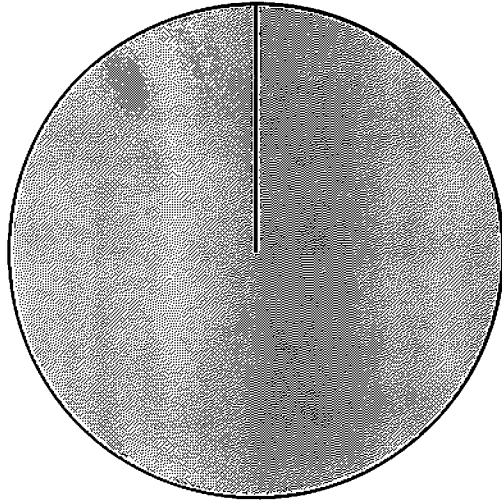
- Typically, more than 60% of your energy bill is for heating, cooling and hot water.
- Save money by increasing efficiency
- For each unit of power utilized, 4 to 5 units of energy is delivered.



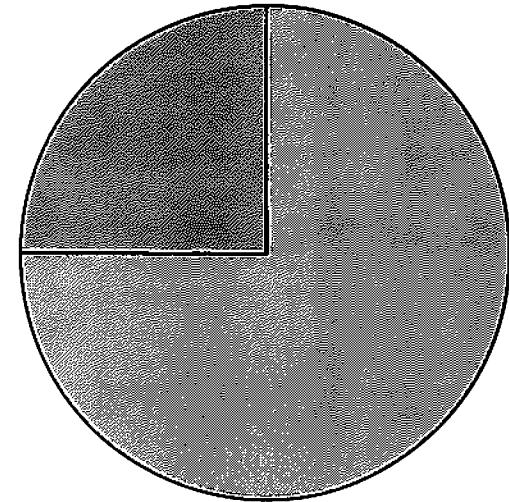
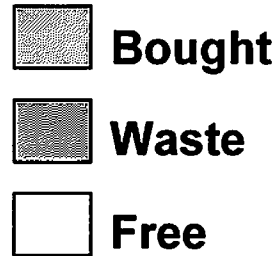
1-877-646-9922



Comparison of Heating System Efficiencies

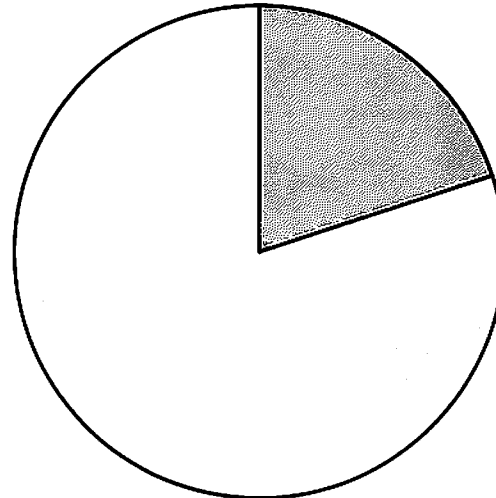


ELECTRIC
COP=1



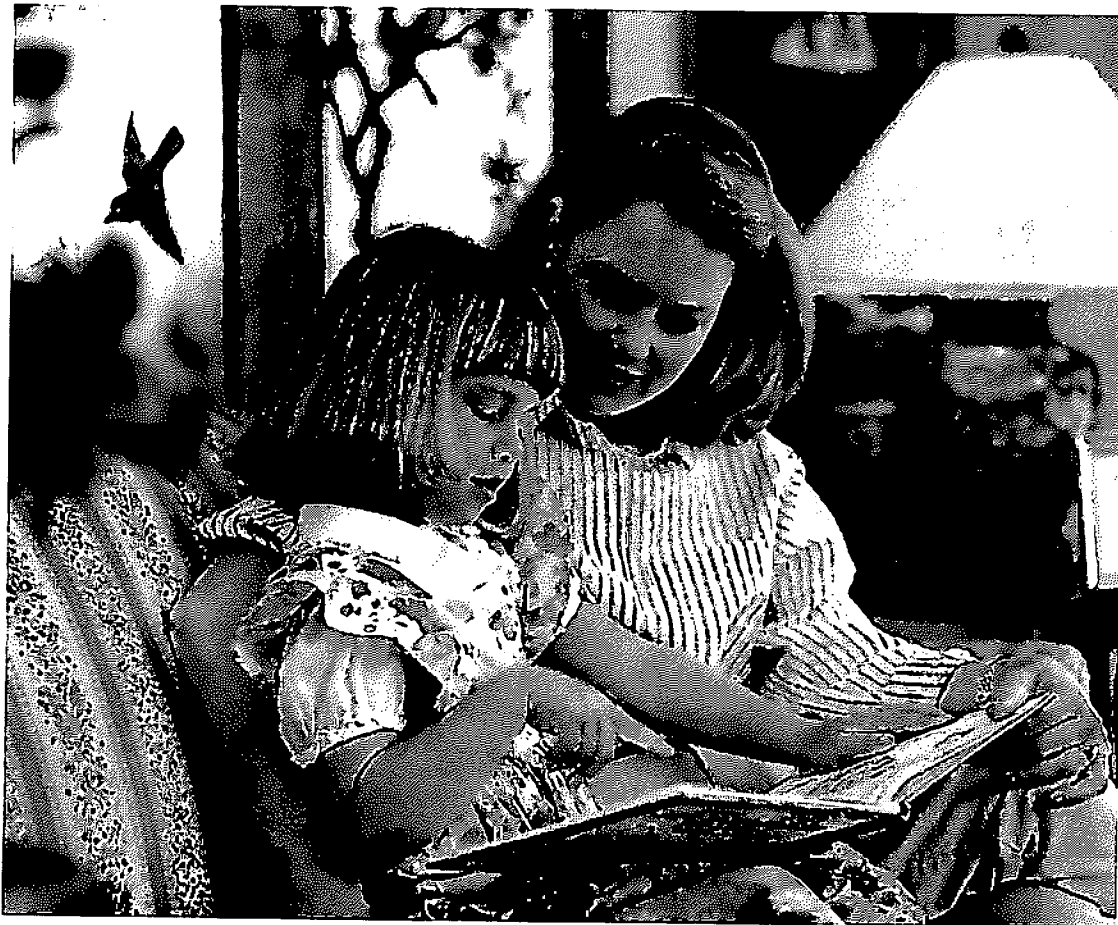
FOSSIL FUEL
COP=0.75

GEOHERMAL
COP=5



1-877-646-9922





Comfort

Savings

Reliability

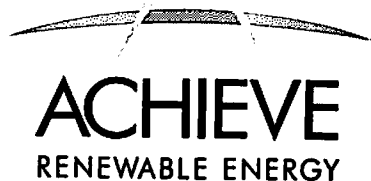
Reduced CO₂

Safe

Quiet

Long Life

Peace of Mind



1-877-646-9922

WaterFurnace
Smarter from the Ground Up™

