

Ground and Water Source Heat Pumps
By Steve Kavanaugh
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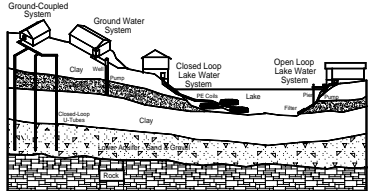
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Topics

- * Introduction
- * Heat Pump Units
- * GSHP Pumps and Piping
- * Ground Loop and System Design
 - * Ground Loop Installation
- * Ground Water Heat Pump Systems
 - * Lake Water Heat Pump Systems
 - * Direct Cooling and Pre-Cooling
 - * Economics
- * Appendices - Unit Performance, Pipe Fusion

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GROUND AND WATER SOURCE HEAT PUMPS



Manual for the Design and Installation of
 Ground-Coupled, Ground Water and Lake Water
 Heating and Cooling Systems

Steve Kavanaugh
 The University of Alabama
 with
 The Alabama Power Company

This document was prepared in 1990 primarily for southern US climates. Design recommendations for colder climates are available at geokiss.com.

This text is for residential and light commercial applications.

A text with an emphasis on GSHP system design for larger buildings is available from ASHRAE. Phone 800-527-4723 or e-mail orders@ashrae.org and request *Ground Source Heat Pumps* by Kavanaugh and Rafferty, Publication # 90376.