

Geothermal Heat Pumps What You Need To Know Before You Buy One

Mr Jerry David Scherer

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Geothermal Heat Pumps What You Need To Know Before You Buy One Mr Jerry David Scherer Since the majority of geothermal heat pump contractors do not size, design, or install geothermal heat pumps correctly one would be wise to follow the steps in this book so you don't end up with a geothermal heat pump system that is nothing but trouble. This book tells you the steps you need to take so you can get a geothermal heat pump correctly installed either by doing it yourself or having a contractor install it for you. It also has many other articles about energy saving things you can do to have a more energy efficient home. Here are the chapters that are in the book; TABLE OF CONTENTS Page 8 Preface Page 11 Chapter One Geothermal heat pump tax credits. Page 13 Chapter Two About geothermal heat pumps. Page 14 Chapter Three The three loops in a geothermal heat pump system. Page 16 Chapter Four The air has problems, The earth has solutions. Page 18 Chapter Five How do heat pumps move heat from cooler areas into warmer areas? Page 20 Chapter Six Any geothermal heat pump is better than an air source heat pump. Page 24 Chapter Seven What do geothermal heat pumps have to do with renewable energy? Page 26 Chapter Eight Will a geothermal heat pump keep me comfortable? YOU BET IT WILL!!! Page 27 Chapter Nine Geothermal heat pumps: Keeping maintenance simple. Page 28 Chapter Ten Which efficiency ratings should I compare? SEER, EER, COP? Page 29 Chapter Eleven Efficiency: Geothermal heat pumps compared to electric resistant heaters Page 30 Chapter Twelve Does running a ceiling fan lower my cooling bills? Page 32 Chapter Thirteen Can ceiling fans lower my heating bills? Page 34 Chapter Fourteen Properly sizing your geothermal heat pump will make a big difference. Page 36 Chapter Fifteen Rules of thumb for sizing are out!!! Page 38 Chapter Sixteen Closed earth loops. Page 40 Chapter Seventeen Horizontal earth loops. Page 48 Chapter Eighteen Slinky loops. Page 49 Chapter Nineteen Naeem's slinky earth loop installation. Page 72 Chapter Twenty Pond loops. Page 73 Chapter Twenty-one Vertical bore loops. Page 80 Chapter Twenty-two Using well water for an open loop. Page 84 Chapter Twenty-three Geothermal heat pump earth loop antifreeze. Page 89 Chapter Twenty-four What is insulation R-value? Page 90 Chapter Twenty-five Best insulation R-value per dollar: Stop the largest losses/leaks first. Page 94 Chapter Twenty-six What is a desuperheater? Page 96 Chapter Twenty-seven Single stage, Two stage, and Variable speed geothermal heat pumps. Page 99 Chapter Twenty-eight Water-to-Water VS. Water to Air Geothermal heat pumps. Page 102 Chapter Twenty-nine Geothermal heat pumps: Packaged units VS. Split systems. Page 104 Chapter Thirty ClimateMaster's ClimaDry geothermal heat pump dehumidification system. Page 106 Chapter Thirty-one Geothermal heat pump thermostat: Don't set it back. Page 109 Chapter Thirty-two Duel Fuel geothermal heat pump systems. Page 111 Chapter Thirty-three About heat distribution. Page 112 Chapter Thirty-four Sizing and designing your forced air ducting system (duct work). Page 117 Chapter Thirty-five Sizing and designing your Geothermal heat pump. Page 119 Chapter Thirty-six Designing your closed earth loop. Page 123 Chapter Thirty-seven What we need from you so we can size and design your horizontal earth loop. Page 125 Chapter Thirty-eight How to test your soil. Page 129 About the Author



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