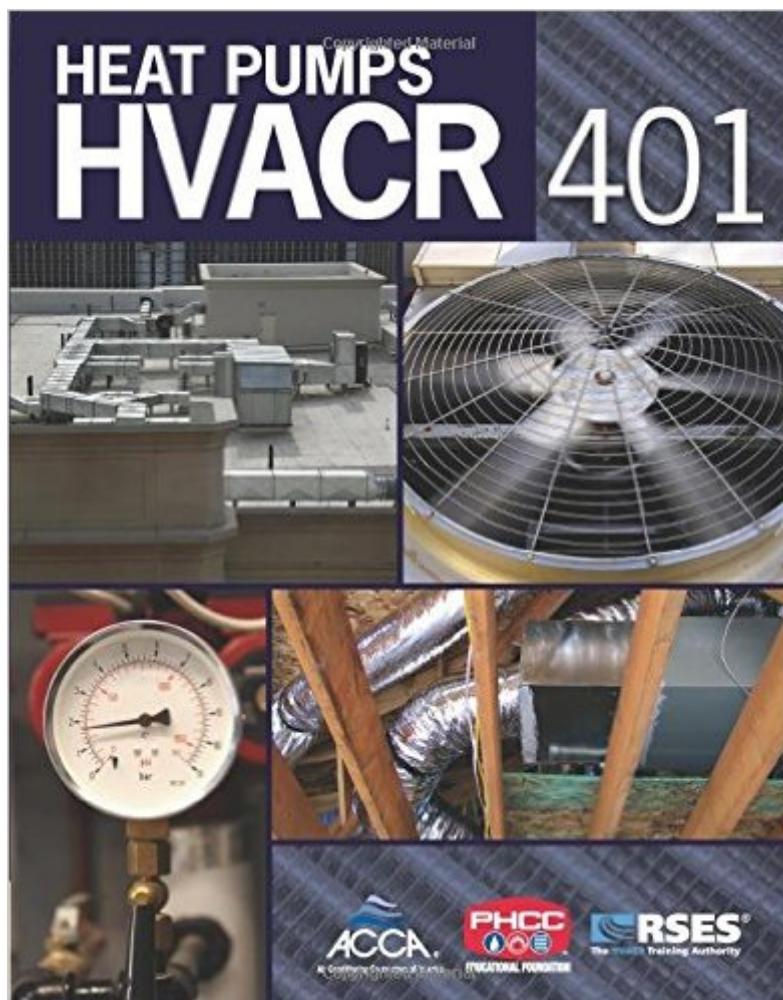


The book was found

HVACR 401: Heat Pumps (HVAC 401 Specialty Series)



Synopsis

HVACR 401: HEAT PUMPS sets itself apart from other books on the market with its emphasis on the service technician perspective, instead of the design engineer viewpoint. The book begins with a review of the refrigeration cycle in comfort conditioning, and gradually progresses to more in-depth topics, including electrical schematics, maintenance, geothermal heat pumps, and troubleshooting case studies. With content that has been closely reviewed and revised in conjunction with the most respected national organizations in the HVACR industry (ACCA, PHCC, and RSES), this will prove to be a valuable learning tool that offers a wide range of critical concepts, presented in a clear, straightforward manner that facilitates comprehension and encourages you to apply the information as you learn it. Check out our app, DEWALT Mobile Pro. This free app is a construction calculator with integrated reference materials and access to hundreds of additional calculations as add-ons. To learn more, visit dewalt.com/mobilepro.

Book Information

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Customer Reviews

This technical instruction book deals specifically with heat pumps, NOT all HVAC systems. I do not own an air conditioning company with young technicians to teach: My husband and I own a 100-year-old-plus home, pier and beam, with 12 foot high ceilings. We have a very troublesome heat pump system still under warranty.....and I'd personally like to talk intelligently to the air

conditioning company owner and his technicians who installed the system. Very simply--I jumped on the opportunity to read this manual! I got a lot of information from reading this manual. The writing is thorough, concise and not confusing. It was written in "plain english" and it wasn't boring--okay, so it wasn't a page turner, but what manual is? Anyone applying him/herself to the material can succeed in mastering the information. To my mind, that is because the author did a good job teaching through his writing. What I really appreciated? The diagrams were clear and easy to understand--and there were plenty of them. Also, the author provides the student with little stories containing hints on how to communicate with the less-than-knowledgable homeowner, the eager-to-learn homeowner, the questioning homeowner. There is a good amount of troubleshooting and how to deal with different situations. If the rest of the series contains this quality of information, every air conditioning company in the country should own at least two sets! At least their customers would be happier!

This book is laid out well, instructions are clear and content is easy to understand. This is a great reference guide for any HVAC technician. The pages are sturdy and the cover is laminated - so the book hasn't ripped or fallen apart, even when it's been thrown in the back of the truck to keep on hand as a reference if needed.

If you are contemplating getting the text, it is probably because you are a technician or engineer involved with the maintenance or design of such equipment. Hopefully you like this field, and in this case the narrative can be a pleasure to read. The operating principles and general schematics of key common types of heating and cooling units are explained. With an emphasis on equipment that is installed for office or factory, rather than for the home. In part of course because the units are expensive and single homes are unlikely to need or afford them. There are different types of heat pumps, and you get a concise education in these. Typically, both the mechanics and any electric controller subsystems are covered. What is only lightly touched upon is the underlying thermodynamic principles of the pumps. For that you will need a text more geared towards an engineering readership. Crucially, there are chapters on how to install and troubleshoot. Of course, the specific details should ultimately depend on the manufacturer's instruction manuals and you should refer to these. But a virtue of the text is how it explains common features or tasks likely to be encountered, regardless of the actual model type. The book has many drawings and photographs that greatly aid understanding of the text. The drawings focus on the key features of a pump and together with the narrative let you quickly grasp the essence of operation.

Very well structured, thorough scientific overview of HVAC. We are putting a new system in on our home and this is a perfect resource for us. Great help to make some design decisions about what type of pump and air conditioning unit to put together in cohesion with each other. I am not a student of this subject so this book does not serve any literal education purposes for me so I cannot assess its value in that regard but it most definitely works out as a design resource for the average homeowner.

I am satisfied with just about all aspects of this publication with the exception of not being 'in color'; this is not a deal breaker though and otherwise is a terrific resource for HVAC Technicians.

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