



**Figure 2:** System variation with respect to compressor

# Characteristics Of R134a R410a Cascade Heat Pump And

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### **Characteristics Of R134a R410a Cascade Heat Pump And:**

**Ground-Source Heat Pumps** Ioan Sarbu,Calin Sebarchievici,2015-10-01 Ground Source Heat Pumps presents the theory and some of the most recent advances of GSHPs and their implementation in the heating cooling system of buildings The authors explore the thermodynamic cycle with calculation operation regimes and economic indicators and GHG emissions of a vapor compression heat pump They go on to examine substitution strategies of non ecological refrigerants and types of compressors and heat pumps before delving into the different GSHP systems as well as their compared economic energy and environmental performances using classical and optimized adjustment for various operating modes Surface water heat pumps and ground water heat pumps are covered and special focus is given to both vertical and horizontal ground coupled heat pump systems for which modelling and simulation is discussed and experimental systems are described Due to its advanced approach to the subject this book will be especially valuable for researchers graduate students and academics and as reference for engineers and specialists in the varied domains of building services Explores fundamentals and state of the art research including ground coupled heat pump GCHP systems Includes performance assessment and comparison for different types of GSHP numerical simulation models practical applications of GSHPs with details on the renewable energy integration information on refrigerants and economic analysis

**Advances in Petrochemical Engineering and Green Development** Bin Guan,2022-11-10 Advances in Petrochemical Engineering and Green Development is a compilation of selected papers from the 3rd International Conference on Petrochemical Engineering and Green Development ICPEGD 2022 and focuses on the research of petrochemical engineering The proceedings features the most cutting edge research directions and achievements related to geology and green development Subjects in this proceedings include Petroleum and Petrochemical Engineering Fossil Technologies Oil Gas Production Renewable Energy Sources and Technology Green Synergy Innovation Urban Crisis Management The collection of papers in this proceedings will promote the development of petrochemical industry and energy resource sharing flexibility and high efficiency Thereby it will promote scientific information interchange between scholars from top universities research centers and high tech enterprises working all around the world

**Design of Heat Exchangers for Heat Pump Applications** Marco Fossa,Antonella Priarone,2020-12-28 Heat pumps HPs allow for providing heat without direct combustion in both civil and industrial applications They are very efficient systems that by exploiting electrical energy greatly reduce local environmental pollution and CO2 global emissions The fact that electricity is a partially renewable resource and because the coefficient of performance COP can be as high as four or more means that HPs can be nearly carbon neutral for a full sustainable future The proper selection of the heat source and the correct design of the heat exchangers is crucial for attaining high HP efficiencies Heat exchangers also in terms of HP control strategies are hence one of the main elements of HPs and improving their performance enhances the effectiveness of the whole system Both the heat transfer and pressure drop have to be taken

into account for the correct sizing especially in the case of mini and micro geometries for which traditional models and correlations can not be applied New models and measurements are required for best HPs system design including optimization strategies for energy exploitation temperature control and mechanical reliability Thus a multidisciplinary approach of the analysis is requested and become the future challenge **Chemical Abstracts** ,2002 Bulletin de L'Institut International Du Froid ,2009 IMDC-SDSP 2020 Raed Abd-Alhameed,Rana Zubo,Obed Ali,2020-09-09 IMDC SDSP conference offers an exceptional platform and opportunity for practitioners industry experts technocrats academics information scientists innovators postgraduate students and research scholars to share their experiences for the advancement of knowledge and obtain critical feedback on their work The timing of this conference coincides with the rise of Big Data Artificial Intelligence powered applications Cognitive Communications Green Energy Adaptive Control and Mobile Robotics towards maintaining the Sustainable Development and Smart Planning and management of the future technologies It is aimed at the knowledge generated from the integration of the different data sources related to a number of active real time applications in supporting the smart planning and enhance and sustain a healthy environment The conference also covers the rise of the digital health well being home care and patient centred era for the benefit of patients and healthcare providers in addition to how supporting the development of a platform of smart Dynamic Health Systems and self management **Advances in New Heat Transfer Fluids** Alina Adriana Minea,2017-03-16 Heat transfer enhancement has seen rapid development and widespread use in both conventional and emerging technologies Improvement of heat transfer fluids requires a balance between experimental and numerical work in nanofluids and new refrigerants Recognizing the uncertainties in development of new heat transfer fluids **Advances in New Heat Transfer Fluids From Numerical to Experimental Techniques** contains both theoretical and practical coverage **Proceedings of the International Conference on Sustainable Energy Technologies** Djourkov Todor,Sivanappan Kumar,Seung-Bok Choi,Hung Nguyen-Xuan,Quoc Hung Nguyen,Thanh Trung Bui,2024-07-12 This book includes selected peer reviewed articles from the International Conference on Sustainable Energy Technology ICSET 2023 held at the Industrial University of Ho Chi Minh City Vietnam with a focus on the theme Sustainable Energy Technologies in the Fourth Industrial Revolution Topics refer to heat and refrigeration engineering including heat transfer and heat exchanger energy saving and efficient use of energy energy safety sustainable energy development and environmental protection new energy and renewable energy techniques for drying and preserving agricultural and food products boilers and heat network gasification pyrolysis technology air conditioning and ventilation refrigeration equipment computational fluid dynamics computational intelligence in renewable energy optimization in electrical electronics systems advanced manufacturing technologies robotics and mechatronics automotive engineering The book not only provides an awareness on the vital importance of sustainability in technologies economics education and countries development but also highlights the essential roles of technological innovations in

attaining sustainable development It provides an international platform for researchers practitioners policymakers and entrepreneurs to present recent advances and to exchange knowledge and experience on various topics related to the theme of sustainable energy technology in the fourth industrial revolution **American Biotechnology Laboratory** ,2007

**Refrigeration, Air Conditioning and Heat Pumps** Fabio Polonara,2021-02-11 Refrigeration air conditioning and heat pumps RACHP have an important impact on the final energy uses of many sectors of modern society such as residential commercial industrial transport and automotive Moreover RACHP also have an important environmental impact due to the working fluids that deplete the stratospheric ozone layer which are being phased out according to the Montreal Protocol 1989 Last but not least high global warming potential GWP working fluids directly and energy consumption indirectly are responsible for a non negligible quota of greenhouse gas GHG emissions in the atmosphere thus impacting climate change

*Performance Investigation of R134a and R404a in a Heat Pump Water Heating System* Gbenga Adewale Sunmonu,2014 Objectives of this research is to investigate the theoretical performance of the heat pump water heating system using R134a and R404A to investigate effects of superheating and sub cooling on the COP and energy consumption of the heat pump system and to validate the theoretical findings with the experiment results using the selected environmentally friendly refrigerants Optimization, Control, and Implementation of CO2 Transcritical Air Conditioning Systems Ahmed Ali Okasha,2020 The US EPA listed R134a as unacceptable refrigerant for newly light duty vehicles manufactured or sold in the United States as of model year 2021 Carbon dioxide CO2 R744 has been revived as a natural environmentally friendly refrigerant and is considered a strong alternative to R134a as it has a global warming potential GWP of 1 compared to 1300 for R134a In an air conditioning system and due to the different thermodynamic properties of CO2 the heat rejection process at the high pressure side will take place above the critical point for high ambient sink temperatures Therefore for a given ambient temperature the GC pressure high side pressure can be optimized and controlled independently Either through simulations or experiments researchers have been focusing on developing control correlations for the GC pressure to maximize the COP using offline control correlations or online methods Maximizing COP does not mean that the system is working at its highest cooling heating capacity that might be desired for example in a transient start up operation to cool down or heat up the car cabin in the shortest possible time In addition offline control correlations suffer deviation from the true optimum as they rely on the system model Online methods on the other hand can be more accurate but often lack the fast convergence to the optimum solution The aim of this thesis was to develop a new strategy to optimize and control the CO2 transcritical air conditioning system for not only optimum COP but also optimum cooling heating capacity or a tradeoff solution based on the system state i e transient steady state or capacity demand To find the Pareto Front or the best non dominated solutions between the COP and the cooling capacity for any set of operating conditions the existing Non Dominated Sorting Genetic Algorithm II NSGA II is used and the results are generated based on a transcritical CO2

thermodynamic model The best solutions of both objectives COP and cooling capacity are presented by a Pareto Front for a given operating conditions Each solution of the Pareto Front has a unique GC pressure and superheat An optimization parameter  $k$  that ranges from 0 to 1 is introduced to easily select maximum COP maximum cooling capacity or any of trade off solutions Based on the system operating conditions the high level optimizer signals the system actuators the GC pressure and superheat reference values The proposed optimization and control approach can be employed as a hybrid offline and online strategy Based on the current operating conditions the high level optimizer will provide an initial estimate of the optimum solution to the online optimizer which will start searching for the true optimum online from this close initial guess An optional online optimizer can be integrated in the loop e g before the controller resulting in conjunction with the offline optimizer in a hybrid solution Such hybrid solution can reduce the time to approach the desired operating point compared to online only methods Compared to offline only methods this can additionally enhance COP and  $Q_c$  based on the actual system characteristics while it is also able to adapt to changing system characteristics While the results in this thesis are presented in terms of the cooling capacity the same findings can be applied for the heating capacity For further experimental investigations of the transcritical cycle a modular transcritical CO<sub>2</sub> heat pump system and its coolant system have been constructed at the MSU Turbomachinery Lab that support cooling heating and dehumidification modes Several parameters effects on the system performance have been analyzed and the experimental results are reported

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