

# Refrigerants

Ensheng Dong

**Moving to Alternative Refrigerants ,1993**

*Fluorocarbon Refrigerants Handbook* Ralph C. Downing,1988

**Some Suggestions on the Safe Use of Refrigerants** H. H. Schrenk,1942

**New Refrigerants for Air Conditioning and Refrigeration Systems** David Wylie,James W. Davenport,1996 Here is your complete answer book covering the new refrigerants and associated technologies currently being used to achieve CFC-related regulatory compliance in air conditioning and refrigeration systems. Emphasizing practical issues, the author covers impact of refrigerant replacement on chiller efficiencies, current technology options including upgrading versus replacement, refrigerant supply and demand considerations, and the best strategies for handling an EPA audit. In addition, guidelines are presented for establishing a refrigerant management program and for monitoring its effectiveness. Several case studies illustrate successfully implemented programs.

*Low GWP (A2L) Refrigerant Safety* Jason Obrzut, CMHE,2021-02-22 As the HVACR industry continues to move forward and innovate, the refrigerants that were once so commonplace are now being phased out. Replacing them are more energy efficient, environmentally friendlier refrigerants, known as Low GWP refrigerants. Many of these new refrigerants are classified by ASHRAE as A2L, or slightly flammable. The industry is also seeing expanded use of some hydrocarbon (A3) refrigerants, such as propane and isobutane. Students and technicians will require additional training for the safe handling and transportation of these refrigerants. The Low GWP refrigerant program manual covers: Refrigerant safety Introduction to Low GWP refrigerants Refrigerant properties and characteristics The refrigeration cycle Working with refrigerant blends Proper installation and service guidelines Flammable refrigerant considerations Explanation of the associated codes and standards for A2L refrigerants

**Quick Guide to the Refrigeration Cycle, Refrigerants and Components** Esco Institute,2019-08-26 The Esco Institute Quick Guide to the Refrigeration Cycle, Refrigerants, and Components is intended to provide industry personnel with a review/refresher of fundamental concepts needed to be successful on the EPA Section 608 examination. This book will provide an overview of the following: -concepts and measurements of pressure as well as the related gas laws. -temperature/pressure relationship as it relates to the refrigeration cycle. -study of thermodynamics and heat transfer. - the refrigerant cycle, refrigerant states, and temperature/pressure relationships. -refrigerant composition, properties, and refrigerant applications. - common oils used with refrigerants, their applications and uses, and safe handling. -the process of retrofitting a system to use an alternative refrigerant and oil as well as system cleanup. -the function and applications of evaporators, condensers, compressors, and metering devices. -typical operating conditions for system components under normal conditions. -proper installation and maintenance of the refrigerant circuit components.

**Automotive Air-Conditioning Refrigerant Service Guide** Philip G Gott,1996-07-01 Packed with information on the servicing and retrofitting of air-conditioning refrigerant systems so that shops and technicians can meet federal regulations, satisfy customers, and prevent damage to the environment. The second edition of the Automotive Air-Conditioning Refrigerant Service Guide was written to provide the latest information to automotive air-conditioning service professionals in order to help them comply with federal certification requirements and prevent damage to the environment. With an emphasis on proper recovery and recycling techniques for both R-12 and R-134a, as well as the proper retrofitting of R-12 systems to R-134a, the book will serve as a valuable instructional tool and resource for technicians. Chapters cover: General Safety and Service Precautions; Refrigerant and System Properties; Equipment for the Extraction-only of Refrigerant and Equipment for the Recycling of Refrigerant; Service Procedure for the Containment of Automotive Air-Conditioning Refrigerants; Retrofitting CFC-12 (R-12) Mobile Air-Conditioning Systems to HFC-134a (R-134a).

**Thermophysical Properties of Refrigerants** P. E. Liley,1993

*Refrigerant Tables and Charts* C. P. Kothandaraman,2006 Salient Features: \* Thermodynamic Data For Nine Refrigerants \* Includes Past, Present And Future Refrigerants \* Seven P-H Charts For These Refrigerants \* Eleven Data Tables For Air Conditioning System Design \* Duct Design Diagram \* Psychrometric Chart \* Larger Font Used For Clarity And Easy Reading \* Sharper And Clearer Charts

*Strategies for Managing Ozone-depleting Refrigerants* Katharine B. Miller,1995 The book includes worksheets and example forms that will be immediately useful in refrigerant management activities. It also includes answers to the most frequently asked questions on how refrigerant-CFC users can meet the requirements of the current regulations - and stay in business.

**Handbook for the Analysis and Identification of Alternative Refrigerants** Thomas J. Bruno,2019-07-23 Many laboratories are engaged in research on the development of new fluids for use as refrigerants to replace the fully halogenated materials that are believed to contribute to atmospheric ozone depletion. An integral part of this effort is the chemical analysis of new fluids that are synthesized, prepared, and tested. This comprehensive book, which is divided into two parts, fills an important need in this vital chemical analysis protocol. The first part reviews the major chemical analysis methods that have been developed and used at NIST and in other laboratories. This review covers spectroscopic, chromatographic, and wet analytical methods, with treatment divided by qualitative identification, qualitative determinations, and chemical reaction screening. The second part contains a compilation of analytical information of the new fluids and their products. Physical properties, mass spectra, infrared spectra, ultraviolet spectra, nuclear magnetic resonance spectra, and gas chromatographic retention data are provided for each fluid or product.

*Vapor Compression Heat Pumps with Refrigerant Mixtures* Reinhard Radermacher,Yunho Hwang,2005-06-23 Amidst tightening requirements for eliminating CFC's, HCFC's, halons, and HFC's from use in air conditioning and heat pumps, the search began for replacements that are environmentally benign, non-flammable, and similar to the banned refrigerants in system-level behavior. Refrigerant mixtures are increasingly used as working fluids because they demo

*Universal R-410A Safety & Training* John Tomczyk ,Joe Nott,Dick Shaw,2002-04-01 Universal R-410A Safety & Training covers the necessary training and practical knowledge to safely service systems containing R-410A and R-407C, the R-22 phase-out, appropriate refrigerant and oil applications, service techniques, and safe handling of R-410A.

*Refrigeration Processes* H. M. Meacock,2013-10-22 A comprehensive applications-oriented treatment of the subject in two parts. The first part forms a useful introduction to basic principles dealing with the definitions of the physical properties and outlines the method of their calculation. The second part is devoted to calculated data on a range of refrigerants by means of extensive tables and diagrams. The treatment takes the form of a data sheet, one for each of about thirty refrigerants; this data sheet gives the essential information from which close approximations of pressure, temperature, volume and enthalpy can be made for any predicted conditions. Following this is a set of tables of saturation properties in both Imperial and SI/Metric Units, where they are available. Pressure Enthalpy charts follow the tables. The refrigerants are arranged in the order of the now almost universally accepted numerical classification introduced by the American Standards Association and adopted by the British Standards Institution. All the information is clearly indexed and readily accessible, and will prove invaluable to all students who require a sound background knowledge and understanding of the subject, and practising engineers will find it an indispensable source of reference

**Quick Guide to Refrigeration Cycle, Refrigerants, Components** ESCO PRESS,2019-09

*Thermophysical Properties of Refrigerants* Bernhard Platzer,Axel Polt,Gerd Maurer,1990

**Impact on Energy Consumption and Environmental Degradation by Switching of Refrigerants in Small Scale Commercial**

**Refrigeration Units** Anant Wadhwa, 2020-06-23 Master's Thesis from the year 2019 in the subject Engineering - Power Engineering, , language: English, abstract: World population has reached 7 billion people in 2013 and there has been an increase in energy consumption, especially in emerging countries. In 2050 it will be more than 9 billion people living on the planet. Because of this, there has been a rapid increase in CO2 concentration levels, so the average planet temperature is rising, causing a greenhouse effect, as the CO2 is trapping in the heat and not releasing it. Consequently, ocean levels are rising, because of the shrinking polar ice caps. We also have seen an increase in the frequency of extreme atmosphere events around the globe. The refrigeration industry has contributed a lot to the global ozone depletion and global warming. To reduce the environmental impact by the heating, ventilation, air conditioning and refrigeration industry – both commercial and domestic – there is an urgent need to look for solutions that are both ozone friendly and CO2 friendly (greenhouse effect friendly). Eradicating the damage to the environment has encouraged the industrial and commercial refrigeration industry to investigate refrigerant alternatives that reduce the environmental impact although a good transition to them will also depend on the training that technicians acquire, as well as the understanding of the current and future benefits for the companies and the end users. This thesis aims at such a system which is both above mentioned. Once such a system is designed, it is of the utmost importance to test it and compare it with the systems that are being used currently to assess the benefits of using such system. The thesis has a focus on the liquid cooling systems such as water coolers and small commercial systems that help attain cooling of the liquids to a set temperature. In this thesis, the improvement of energy consumption and environmental degradation prevention is attained by switching the refrigerant used from R134a (current) to R290 (Propane) which is a natural refrigerant and Hydro Carbon Blend which is a mixture of refrigerants but is safer and environmentally friendlier. A comparison of both systems is done against the current system in terms of efficiency, energy consumption and chemical properties with respect to global warming potential and ozone depletion potential and ultimately proven that natural refrigerants and HC Blends are the refrigerants of the future.

**Protecting the Ozone Layer: Refrigerants** ,1992

**Replacing Chlorofluorocarbon Refrigerants** ,1998

**Water (R718) Turbo Compressor and Ejector Refrigeration / Heat Pump Technology** Milan N. Šarevski, Vasko N. Šarevski, 2016-02-03

Water (R718) Turbo Compressor and Ejector Refrigeration/Heat Pump Technology provides the latest information on efficiency improvements, a main topic in recent investigations of thermal energy machines, plants, and systems that include turbo compressors, ejectors, and refrigeration/heat pump systems. This, when coupled with environmental concerns, has led to the application of eco-friendly refrigerants and to a renewed interest in natural refrigerants. Within this context, readers will find valuable information that explores refrigeration and heat pump systems using natural refrigerants, polygeneration systems, the energy efficiency of thermal systems, the utilization of low temperature waste heat, and cleaner production. The book also examines the technical, economic, and environmental reasons of R718 refrigeration/heat pump systems and how they are competitive with traditional systems, serving as a valuable reference for engineers who work in the design and construction of thermal plants and systems, and those who wish to specialize in the use of R718 as a refrigerant in these systems. Describes existing novel R718 turbo compressor and ejector refrigeration/heat pump systems and technologies Provides procedures calculating and optimizing cycles, system components, and system structures Estimates the performance characteristics of the thermal systems Exposes the possibilities for wider applications of R718 systems in the field of refrigeration and heat pumps

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