

# R-134a TEMPERATURE PRESSURE CHART

*(Tabla de Temperaturas y Lecturas)*

| Ambient Temperature °F/°C<br>(Temperatura Ambiental) | Low-Pressure Gauge<br>(Puerto de Servicio del Lado de Baja Presión) | High-Pressure Gauge<br>(Puerto de Servicio del Lado de Alta Presión) |
|------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|
| 65°F (18°C)                                          | 25-35 psi / 172-241 kPa                                             | 135-155 psi / 931-1069 kPa                                           |
| 70°F (21°C)                                          | 35-40 psi / 241-276 kPa                                             | 145-160 psi / 1000-1103 kPa                                          |
| 75°F (24°C)                                          | 35-45 psi / 241-310 kPa                                             | 150-170 psi / 1034-1172 kPa                                          |
| 80°F (27°C)                                          | 40-50 psi / 276-345 kPa                                             | 175-210 psi / 1207-1448 kPa                                          |
| 85°F (29°C)                                          | 45-55 psi / 310-379 kPa                                             | 225-250 psi / 1551-1724 kPa                                          |
| 90°F (32°C)                                          | 45-55 psi / 310-379 kPa                                             | 250-270 psi / 1724-1862 kPa                                          |
| 95°F (35°C)                                          | 50-55 psi / 345-379 kPa                                             | 275-300 psi / 1896-2068 kPa                                          |
| 100°F (38°C)                                         | 50-55 psi / 345-379 kPa                                             | 315-325 psi / 2172-2241 kPa                                          |
| 105°F (41°C)                                         | 50-55 psi / 345-379 kPa                                             | 330-335 psi / 2275-2310 kPa                                          |
| 110°F (43°C)                                         | 50-55 psi / 345-379 kPa                                             | 340-345 psi / 2344-2379 kPa                                          |

Ambient temp is the outside atmospheric temperature.

## INTERPRETING PRESSURE READINGS

| Low-pressure Gauge | High-pressure Gauge | Action Required                                                              |
|--------------------|---------------------|------------------------------------------------------------------------------|
| In Range           | In Range            | A/C is working properly.                                                     |
| Low                | Low                 | Add Refrigerant.                                                             |
| Low                | High                | Need service, possibly blockage of the expansion valve or orifice tube.      |
| High               | Low                 | Needs service, possibly faulty compressor.                                   |
| High               | High                | System is overcharged. Slowly remove refrigerant. Venting is illegal in USA. |

It is illegal to vent 134a refrigerant into the atmosphere.

# R134a Refrigerant Charge Guide For Refrigerator

**Food and Agriculture Organization of  
the United Nations, Deutsche  
Gesellschaft für Internationale  
Zusammenarbeit**

### **R134a Refrigerant Charge Guide For Refrigerator:**

**Tribology Data Handbook** E. Richard Booser, 1997-09-26 This handbook is a useful aid for anyone working to achieve more effective lubrication better control of friction and wear and a better understanding of the complex field of tribology Developed in cooperation with the Society of Tribologists and Lubrication Engineers and containing contributions from 74 experts in the field the Tribology Data Handbook covers properties of materials lubricant viscosities and design friction and wear formulae The broad scope of this handbook includes military industrial and automotive lubricant specifications evolving areas of friction and wear performance and design considerations for machine elements computer storage units and metal working and more Important guidelines for the monitoring maintenance and failure assessment of lubrication in automotive industrial and aircraft equipment are also included Current environmental and toxicological concerns complete this one stop reference With hundreds of figures tables and equations as well as essential background information explaining the information presented this is the only source you need to find virtually any tribology information **Methodological guide to reduce carbon and water footprints in banana plantations** Food and Agriculture Organization of the United Nations, Deutsche Gesellschaft für Internationale Zusammenarbeit, 2018-10-30 The World Banana Forum WBF publication developed a methodological guide to reduce water and carbon footprints in banana plantations worldwide Members of the Working Group WG on Sustainable Production Systems and Environmental Impact acknowledged the contribution of banana production in the total global GHG emissions and the consumption of freshwater in the economic activity both stressed in the 2015 Paris Climate Conference COP21 having the agricultural sector a high mitigation potential Therefore the WG wishes to contribute to the global fight against climate change and promote the sustainable use of natural resources developing practical tools to strengthen the efforts of the global banana industry to reduce its carbon and water footprint CWF Since banana farmers are struggling to adapt to climate change the project aims to mainstream and support the adoption of best climate smart practices and efficient water management in the banana value chain as part of the environmental strategy of organizations Efforts to promote CWF reduction programs in the banana industry are still incipient and carried out mostly by multinationals due in part to the implementation costs the complexity of the topic for farmers the lack of user friendly tools to measure them efficiently and that is still a B2B driven strategy not yet recognized by consumers Even though the need for supporting carbon and water footprint analysis CWF in the banana industry remains strong there is still an apparent lack of sufficient financial incentives by both the governments and the global market **Refrigeration and Air-Conditioning** G F Hundy, A. R. Trott, T C Welch, 2008-06-23 Now in its fourth edition this respected text delivers a comprehensive introduction to the principles and practice of refrigeration Clear and straightforward it is designed for students NVQ vocational level and professional HVAC engineers including those on short or CPD courses Inexperienced readers are provided with a comprehensive introduction to the fundamentals of the technology With its concise style yet broad sweep the book covers

most of the applications professionals will encounter enabling them to understand specify commission use and maintain these systems Many readers will appreciate the clarity with which the book covers the subject without swamping them with detailed technical or product specific information New material in this edition includes the latest developments in refrigerants and lubricants together with updated information on compressors heat exchangers liquid chillers electronic expansion valves controls and cold storage Topics also covered include efficiency environmental impact split systems retail refrigeration supermarket systems and cold rooms industrial systems fans air infiltration and noise Author Information Guy Hundy studied Mechanical Engineering at Leeds University UK He started his career in the refrigeration industry with J E Hall Ltd Dartford In 1985 he joined Copeland Europe and in 1998 he was appointed Director Application Engineering Copeland Europe He has authored and co authored papers and articles on compressors applications and refrigerant changeover topics Guy Hundy is a Chartered Engineer and works as a Technical Consultant He is past President of the Institute of Refrigeration Covers principles methods and application of refrigeration air conditioning and heat pumps in a concise volume without the encumbrance of handbook information found in other volumes Ideal for students and professionals in other disciplines not too theoretical but with sufficient depth to give an understanding of the issues this book takes the reader from the fundamentals through to system design applications contract specifications and maintenance Full revision by Guy Hundy with new diagrams and illustrations

**Sustainable Retail Refrigeration** Judith A. Evans, Alan M. Foster, 2016-01-19 Carbon emissions from the retail segment of the food cold chain are relatively high compared to other parts of the food cold chain Studies have also shown that food temperature is less well controlled at the retail and consumer end of the cold chain There is therefore considerable potential to optimize performance of refrigerated display cabinets and the refrigeration systems that are used to operate them to reduce carbon emissions and to improve food temperature control Sustainable Retail Refrigeration draws together world experts on retail refrigeration In a single resource the authors cover the latest technologies and best current knowledge in the field With increasing concerns about energy use and global warming gasses retailers are increasingly being called to account for their actions Sustainable Retail Refrigeration is a valuable reference to manufacturers managers and policy makers incorporating both a design and an operational perspective

**Refrigeration, Air Conditioning and Heat Pumps** G F Hundy, 2016-03-07 Refrigeration Air Conditioning and Heat Pumps Fifth Edition provides a comprehensive introduction to the principles and practice of refrigeration Clear and comprehensive it is suitable for both trainee and professional HVAC engineers with a straightforward approach that also helps inexperienced readers gain a comprehensive introduction to the fundamentals of the technology With its concise style and broad scope the book covers most of the equipment and applications professionals will encounter The simplicity of the descriptions helps users understand specify commission use and maintain these systems It is a must have text for anyone who needs thorough foundational information on refrigeration and air conditioning but without textbook pedagogy It includes

detailed technicalities or product specific information New material to this edition includes the latest developments in refrigerants and lubricants together with updated information on compressors heat exchangers liquid chillers electronic expansion valves controls and cold storage In addition efficiency environmental impact split systems retail refrigeration supermarket systems and cold rooms industrial systems fans air infiltration and noise are also included Full theoretical and practical treatment of current issues and trends in refrigeration and air conditioning technology Meets the needs of industry practitioners and system designers who need a rigorous but accessible reference to the latest developments in refrigeration and AC that is supported by coverage at a level not found in typical course textbooks New edition features updated content on refrigerants microchannel technology noise condensers data centers and electronic control

**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

Low-GWP Commercial Refrigeration Feasibility and Cost-benefit Engineering Evaluation A. S. (Ed) Cheng, Kyle Larson, 2018

**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 Although refrigerant mixtures have long been used in commercial products to improve environmental impact there are few resources available that address the use of fluid mixtures in vapor compression systems *Vapor Compression Heat Pumps with Refrigerant Mixtures* provides a comprehensive background and thorough discussion of the thermodynamics of working fluid mixtures and their applications It covers the fundamentals of various refrigeration cycles as well as a basic background in the thermodynamics related to these mixtures It also provides important data on heat transfer and pressure drop correlations as well as critical operational issues related to refrigerant mixtures

*Practical Guide to Energy Management for Facilities Engineers and Managers* Thomas E. Mull, 2001 This guide examines practical applications and presents examples for conserving energy and reducing energy costs in commercial institutional and industrial plants and facilities Registered Mechanical Engineer Mull provides an introduction to the basic scientific principles and economics of energy management Then commonly used energy consuming equipment and systems are profiled Some of the topics covered include steam and hydronic boilers and pumping chilled water air distribution HVAC electrical lighting compressed air refrigeration heat recovery cogeneration energy management and thermal storage systems c Book News Inc

*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 CO<sub>2</sub> 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 *CFCs, HCFCs, HFCs and Halons* ,2000

**Bulletin de L'Institut International Du Froid** ,2010      **Publications of the National Institute of Standards and Technology ... Catalog** National Institute of Standards and Technology (U.S.),1991      Refrigeration units in marine vessels Prof. Dr.-Ing. A. Hafner,Dr. C.H. Gabriell,Dr. K. Widell,2019-04-02 Fishing vessels can be equipped with energy efficient refrigeration technology applying natural working fluids Ammonia refrigeration systems have been the first choice but CO<sub>2</sub> units have also become increasingly common in the maritime sector in the last few years When retrofitting or implementing CO<sub>2</sub> refrigeration plants less space on board is required and such units allow good service and maintenance Nowadays cruise ship owners prefer CO<sub>2</sub> units for the provision refrigeration plants Ship owners responsible for the health and safety of the crew and passengers must carefully evaluate the usage of flammable low GWP working fluids due to a high risk that toxic decomposition products are formed even without the presence of an open flame Suggestions for further work include a Nordic Technology Hub for global marine refrigeration R D and development support for key components      **Trends in Mechanical and Biomedical Design** Esther Titilayo Akinlabi,P. Ramkumar,M. Selvaraj,2020-08-20 This book comprises select papers presented at the International Conference on Mechanical Engineering Design ICMechD 2019 The volume focuses on the recent trends in design research and their applications across the mechanical and biomedical domain The book covers topics like tribology design mechanism and machine design wear and surface engineering vibration and noise engineering biomechanics and biomedical engineering industrial thermodynamics and thermal engineering Case studies citing practical challenges and their solutions using appropriate techniques and modern engineering tools are also discussed Given its contents this book will prove useful to students researchers as well as practitioners      SAE Interior Climate Control Standards Manual ,1994      **Advances in Heat Pump-Assisted Drying Technology** Vasile Minea,2016-09-15 Drying of solids is one of the most common complex and energy intensive industrial processes Conventional dryers offer limited opportunities to increase energy efficiency Heat pump dryers are more energy and cost effective as they can recycle

drying thermal energy and reduce CO<sub>2</sub> particulate and VOC emissions due to drying This book provides an introduction to the technology and current best practices and aims to increase the successful industrial implementation of heat pump assisted dryers It enables the reader to engage confidently with the technology and provides a wealth of information on theories current practices and future directions of the technology It emphasizes several new design concepts and operating and control strategies which can be applied to improve the economic and environmental efficiency of the drying process It answers questions about risks advantages vs disadvantages and impediments and offers solutions to current problems Discusses heat pump technology in general and its present and future challenges Describes interesting and promising innovations in drying food agricultural and wood products with various heat pump technologies Treats several technical aspects from modeling and simulation of drying processes to industrial applications Emphasizes new design concepts and operating and control strategies to improve the efficiency of the drying process

### **Air Conditioning and Refrigeration**

Rex Miller, Mark Miller, 2006-04-20 BE AN AC AND REFRIGERATION ACE NO MATTER WHAT YOUR PRESENT LEVEL OF SKILL Air Conditioning and Refrigeration helps you understand today's cooling and climate control systems so expertly that you can use it as the foundation for a career Clear instructions with over 800 photographs and illustrations offer step by step guidance to learning the trade for students professionals and homeowners who want to do their own installations or repairs LEARN WITH THE PROS Written by experienced teachers Rex and Mark R Miller whose Carpentry Construction has been a building classic for more than 25 years Air Conditioning and Refrigeration has all the task simplifying details you need for any project In the popular Miller style this complete and current guide helps New and student technicians Build on the job skills and the knowledge needed to succeed in a fast growing lucrative field AC and refrigeration pros Refine and update skills with full information on the latest cost cutting technologies refrigerants and tools Do it yourselfers and homeowners Make expert equipment and tool choices and achieve superior results economically Service personnel technicians contractors engineers and facility managers Find up to date information on codes standards safety tips and methods Anyone who needs clear illustrated step by step instructions for efficient cost effective and current methods in choosing installing maintaining troubleshooting servicing and repairing today's AC and refrigeration equipment

### **Recent Trends in Mechanical**

**Engineering** Amitava De, Partha P. Mukherjee, Sukumar Pati, Agnimitra Biswas, 2024-12-27 This book presents the select proceedings of the 5th International Conference on Recent Advancements in Mechanical Engineering ICRAME 2024 Various topics covered in this book are thermal engineering design engineering manufacturing production engineering engineering design novel materials for thin film solar cells solar thermal hydrogen cryogenic applications renewable energy conventional and non conventional machining ergonomics and many more The book is useful for researchers and professionals working in the various areas of mechanical engineering

### **SAE Surface Vehicle Emissions Standards Manual**, 1998

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