



Refrigerant Guys PT – Chart R134a

ChemPenn
Refrigerant Gases

Saturation Pressure-Temperature Data for R-134a (psig)*

Temp. (°F)	Pressure (psig)	Temp. (°C)	Temp. (°F)	Pressure (psig)	Temp. (°C)	Temp. (°F)	Pressure (psig)	Temp. (°C)	Temp. (°F)	Pressure (psig)	Temp. (°C)
-49	18.4	-45.0	1	7.0	-17.2	51	46.6	10.6	101	126.3	38.3
-48	18.0	-44.4	2	7.5	-16.7	52	47.7	11.1	102	128.4	38.9
-47	17.6	-43.9	3	8.0	-16.1	53	48.9	11.7	103	130.6	39.4
-46	17.3	-43.3	4	8.5	-15.6	54	50.0	12.2	104	132.8	40.0
-45	16.9	-42.8	5	9.1	-15.0	55	51.2	12.8	105	135.0	40.6
-44	16.5	-42.2	6	9.6	-14.4	56	52.4	13.3	106	137.2	41.1
-43	16.1	-41.7	7	10.2	-13.9	57	53.6	13.9	107	139.5	41.7
-42	15.7	-41.1	8	10.8	-13.3	58	54.9	14.4	108	141.7	42.2
-41	15.2	-40.6	9	11.3	-12.8	59	56.1	15.0	109	144.0	42.8
-40	14.8	-40.0	10	11.9	-12.2	60	57.4	15.6	110	146.4	43.3
-39	14.4	-39.4	11	12.5	-11.7	61	58.7	16.1	111	148.7	43.9
-38	13.9	-38.9	12	13.1	-11.1	62	60.0	16.7	112	151.1	44.4
-37	13.4	-38.3	13	13.8	-10.6	63	61.3	17.2	113	153.5	45.0
-36	13.0	-37.8	14	14.4	-10.0	64	62.7	17.8	114	156.0	45.6
-35	12.5	-37.2	15	15.0	-9.4	65	64.0	18.3	115	158.4	46.1
-34	12.0	-36.7	16	15.7	-8.9	66	65.4	18.9	116	160.9	46.7
-33	11.4	-36.1	17	16.4	-8.3	67	66.8	19.4	117	163.5	47.2
-32	10.9	-35.6	18	17.0	-7.8	68	68.2	20.0	118	166.0	47.8
-31	10.4	-35.0	19	17.7	-7.2	69	69.7	20.6	119	168.6	48.3
-30	9.8	-34.4	20	18.4	-6.7	70	71.1	21.1	120	171.2	48.9
-29	9.3	-33.9	21	19.1	-6.1	71	72.6	21.7	121	173.8	49.4
-28	8.7	-33.3	22	19.9	-5.6	72	74.1	22.2	122	176.5	50.0
-27	8.1	-32.8	23	20.6	-5.0	73	75.6	22.8	123	179.1	50.6
-26	7.5	-32.2	24	21.3	-4.4	74	77.1	23.3	124	181.8	51.1
-25	6.9	-31.7	25	22.1	-3.9	75	78.7	23.9	125	184.6	51.7
-24	6.3	-31.1	26	22.9	-3.3	76	80.2	24.4	126	187.4	52.2
-23	5.7	-30.6	27	23.7	-2.8	77	81.8	25.0	127	190.2	52.8
-22	5.0	-30.0	28	24.5	-2.2	78	83.4	25.6	128	193.0	53.3
-21	4.3	-29.4	29	25.3	-1.7	79	85.0	26.1	129	195.8	53.9
-20	3.7	-28.9	30	26.1	-1.1	80	86.7	26.7	130	198.7	54.4
-19	3.0	-28.3	31	26.9	-0.6	81	88.4	27.2	131	201.6	55.0
-18	2.3	-27.8	32	27.8	0.0	82	90.0	27.8	132	204.6	55.6
-17	1.5	-27.2	33	28.6	0.6	83	91.8	28.3	133	207.6	56.1
-16	0.8	-26.7	34	29.5	1.1	84	93.5	28.9	134	210.6	56.7
-15	0.1	-26.1	35	30.4	1.7	85	95.2	29.4	135	213.6	57.2
-14	0.4	-25.6	36	31.3	2.2	86	97.0	30.0	136	216.7	57.8
-13	0.7	-25.0	37	32.2	2.8	87	98.8	30.6	137	219.8	58.3
-12	1.1	-24.4	38	33.1	3.3	88	100.6	31.1	138	222.9	58.9
-11	1.5	-23.9	39	34.1	3.9	89	102.5	31.7	139	226.0	59.4
-10	1.9	-23.3	40	35.0	4.4	90	104.3	32.2	140	229.2	60.0
-9	2.4	-22.8	41	36.0	5.0	91	106.2	32.8	141	232.5	60.6
-8	2.8	-22.2	42	37.0	5.6	92	108.1	33.3	142	235.7	61.1
-7	3.2	-21.7	43	38.0	6.1	93	110.0	33.9	143	239.0	61.7
-6	3.6	-21.1	44	39.0	6.7	94	112.0	34.4	144	242.3	62.2
-5	4.1	-20.6	45	40.1	7.2	95	114.0	35.0	145	245.7	62.8
-4	4.6	-20.0	46	41.1	7.8	96	115.9	35.6	146	249.1	63.3
-3	5.0	-19.4	47	42.2	8.3	97	118.0	36.1	147	252.5	63.9
-2	5.5	-18.9	48	43.2	8.9	98	120.0	36.7	148	255.9	64.4
-1	6.0	-18.3	49	44.3	9.4	99	122.1	37.2	149	259.4	65.0
0	6.5	-17.8	50	45.4	10.0	100	124.2	37.8	150	262.9	65.6

*Red Italics Indicate Inches of Mercury Below Atmospheric Pressure

R134a Refrigerant Charging Chart

Craig Migliaccio

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

R134a Refrigerant Charging Chart:

, *Refrigeration and Air Conditioning Technician (Practical)* - I Mr. Rohit Manglik, 2024-05-18 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels AIR CONDITIONING NARAYAN

CHANGDER, 2024-03-12 Note Anyone can request the PDF version of this practice set workbook by emailing me at cbsenet4u@gmail.com You can also get full PDF books in quiz format on our youtube channel <https://www.youtube.com/SmartQuizWorldn2q> I will send you a PDF version of this workbook This book has been designed for candidates preparing for various competitive examinations It contains many objective questions specifically designed for different exams Answer keys are provided at the end of each page It will undoubtedly serve as the best preparation material for aspirants This book is an engaging quiz eBook for all and offers something for everyone This book will satisfy the curiosity of most students while also challenging their trivia skills and introducing them to new information Use this invaluable book to test your subject matter expertise Multiple choice exams are a common assessment method that all prospective candidates must be familiar with in today's academic environment Although the majority of students are accustomed to this MCQ format many are not well versed in it To achieve success in MCQ tests quizzes and trivia challenges one requires test taking techniques and skills in addition to subject knowledge It also provides you with the skills and information you need to achieve a good score in challenging tests or competitive examinations Whether you have studied the subject on your own read for pleasure or completed coursework it will assess your knowledge and prepare you for competitive exams quizzes trivia and more

Automotive Heating, Ventilation, and Air Conditioning Systems, 1999 Refrigeration and Air Conditioning S. N. SAPALI, 2009-02-11 This book provides a first course in Refrigeration and Air Conditioning The subject matter has been developed in a logical and coherent manner with neat illustrations and a fairly large number of solved examples and unsolved problems The text developed from the author's teaching experience of many years is suitable for the senior level undergraduate and first year postgraduate students of mechanical engineering automobile engineering as well as chemical engineering The text commences with an introduction to the fundamentals of thermodynamics and a brief treatment of the various methods of refrigeration Then follows the detailed discussion and analysis of air refrigeration systems vapour compression and vapour absorption refrigeration systems with special emphasis on developing sound physical concepts and gaining problem solving skills Refrigerants are exhaustively dealt with in a separate chapter The remainder chapters of the book deal with psychrometry and various processes required for the analysis of air conditioning systems Technical descriptions of compressors evaporators condensers expansion devices and ducts are provided along with design practices for cooling and heating load calculations Finally a brief review of the basic principles and applications of cryogenic gases and

air liquefaction systems are given **Applied Environmental Materials Science for Sustainability** Kobayashi, Takaomi, 2016-12-21 The growing presence of biomass and waste has caused significant changes to the environment With the ubiquity of these materials there is an increasing need for proper disposal and reuse of these resources Applied Environmental Materials Science for Sustainability is a key resource on the latest advancements in environmental materials including the utilization of biomass and waste for advanced materials Highlighting innovative studies on renewable resources green technology and chemical modification this book is an ideal reference source for academics researchers professionals and graduate students in the field of environmental and materials sciences and technologies **Refrigerant Charging and Service Procedures for Air Conditioning** Craig Migliaccio, 2019-04-24 This Ebook is dedicated to those who are eager to learn the HVACR Trade and Refrigerant Charging Troubleshooting Practices In this book you will find Step by Step Procedures for preparing an air conditioning and heat pump system for refrigerant reading the manifold gauge set measuring the refrigerants charge level and troubleshooting problems with the system s refrigerant flow This book differs from others as it gives key insights into each procedure along with tool use from a technician s perspective in language that the technician can understand This book explains the refrigeration cycle of air conditioners and heat pumps refrigerant properties heat transfer the components included in the system the roles of each component airflow requirements and common problems Procedures Included Pump Down Vacuum and Standing Vacuum Test Recovery and Recovery Bottle Use Refrigerant Manifold Gauge Set and Hose Connections Service Valve Positions and Port Access Preparation of the System for Refrigerant Refrigerant Charging and Recovery on an Active System Troubleshooting the Refrigerant Charge and System Operation *R134a Refrigerant Charge Determination Test Method* HFTC6, Operator Accommodation, 2018 The purpose of this document is to establish guidelines for determining the critical R134a refrigerant charge for off road self propelled work machines as defined in SAE J1116 and Agricultural Tractors as defined in ANSI ASAE S390 It will develop a minimum to maximum refrigerant charge range in which the HVAC system can maintain proper operation Operating conditions and characteristics of the equipment will influence the optimum charge Since these conditions and characteristics vary greatly from one application to another careful consideration should be taken to determine the optimum R134a refrigerant charge for the HVAC system This standard was developed to ensure that off road self propelled work machines will have the proper refrigerant charge suitable for optimum cab cooling performance *Refrigerant Charging and Service Procedures for Air Conditioning* AC Service Tech LLC, 2025 This book contains step by step procedures that include preparing air conditioning and heat pump systems for refrigerant measuring system refrigerant charges and troubleshooting systems by measuring refrigerant charge indicators air temperature measurements and airflow Manifold gauge sets digital manifold sets digital gauge stubs and wireless probes are discussed and utilized in examples This book differs from others in that it provides key insights into each procedure along with tool usage from a technician s perspective in language that is easy to understand

Concepts are examined such as refrigerant properties the refrigeration cycle of an air conditioner and heat pump energy transfer airflow requirements components within systems and common problems Procedures Included Checking the Charge Charging and Recovery Airflow Measurements Leak Testing and Vacuuming Connection and Disconnection at Ports Troubleshooting Refrigerant and Airflow Problems

R134a Mobile Air Conditioning System Leakage Chart Interior Climate Control Steering Committee, 2005 Current industry standards do not exist for determining refrigerant emissions from mobile air conditioning systems Test procedures are not common between production component suppliers in establishing leakage values This System Leakage Chart has been developed from industry experience of expected refrigerant leakage gains from system design resulting from technology changes It provides a rating value of various technologies that are currently available The Leakage Chart can be expanded as new technologies are offered and or developed This document provides the information to develop an Excel file template Leakage Chart for making system analysis It is not the intent of this Standard to define the refrigerant emissions from a mobile air conditioning system It is to only define a system rating based upon the technology used Future development of SAE Standards for determining mobile air conditioning refrigerant emissions such as system static and dynamic min shed test procedures will provide a procedure for determining system emissions

Refrigerant Charging and Service Procedures for Air Conditioning WORKBOOK AC Service Tech LLC, 2025-04-07 This workbook is a direct compliment to the Refrigerant Charging and Service Procedures for Air Conditioning text Each copy of the book includes a removable answer key for quick reference and use This workbook follows the text chapter by chapter providing over 1 000 supportive questions and problems to test your understanding of the various procedures methods and steps stated in the book This workbook can also help readers retain information such as the refrigeration cycle and components used in each system Custom images are used to display charging scenarios and troubleshooting Test your knowledge as you solve each problem and question

Mobile Air Conditioning System Refrigerant Emission Charts for R-134a and R-1234yf Interior Climate Control Steering Committee, Interior Climate Control Vehicle OEM Committee, 2012 The System Emissions Chart contained herein is intended to serve as a means of estimating the annual refrigerant emission rate grams per year from new production A C systems equipped with specified component technologies It provides emission values for various component technologies that are currently available and can be expanded as new technologies are commercialized This document provides the information to develop an Excel file template System Emissions Chart for system emission analysis The chart includes automotive compressor technologies for conventional mobile air conditioning systems as well as those using semi hermetic compressors This standard can be considered a companion document to SAE J2763 Test Procedure for Determining Refrigerant Emissions from Mobile Air Conditioning Systems SAE J2727 estimates system emissions taking into account production assembly variation and accounts for components that are 100% helium leak tested prior to vehicle final assembly The results from SAE J2064 are used to

better represent permeation emissions from different hose material and coupling configurations in this version SAE J2763 may be used to quantify emissions from properly assembled systems The revisions in this document provide more detailed component emission ratings for existing production manufacturing processes This update includes APPENDIX A Rationale for Modifying A C Hose Permeation from 2008 Default Values to Utilizing Actual SAE J2064 Permeation Appendix B includes Comparison of Correlation Factors for various refrigerant hose constructions This standard has had a comprehensive ongoing relationship of vehicle and laboratory SAE testing procedures that has resulted in correlation of MAC system refrigerant emissions used in this document Mobile Air Conditioning System Refrigerant Emission Charts for R-134a, R-1234yf, and R-152a Interior Climate Control Vehicle OEM Committee,2020 The system emissions chart contained herein is intended to serve as a means of estimating the annual refrigerant emission rate grams per year from new production A C systems equipped with specified component technologies It provides emission values for various component technologies that are currently available and can be expanded as new technologies are commercialized This document provides the information to develop an Excel file template system emissions chart for system emission analysis The chart includes automotive compressor technologies for conventional mobile air conditioning systems as well as those using semi hermetic compressors This standard can be considered a companion document to SAE J2763 SAE J2727 estimates system emissions taking into account production assembly variation and accounts for components that are 100% helium leak tested prior to vehicle final assembly The results from SAE J2064 are used to better represent permeation emissions from different hose material and coupling configurations in this version SAE J2763 may be used to quantify emissions from properly assembled systems This document is being updated to include leakage calculations for R 152a HFC 152a and to add formal and consistent Excel worksheets that shall be used in calculating leak rates of various refrigerants **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 *Refrigerant Charging and Service Procedures for Air Conditioning* Poe Eden,2025-08-06 Refrigerant Charging and Service Procedures for Air Conditioning by Poe Eden Become the tech everyone

trusts This beginner friendly field guide walks you step by step through safe refrigerant handling accurate charging and reliable diagnostics so every service call ends with a system that performs to spec What you ll learn inside Safety handling PPE cylinder use hose management recovery evacuation and leak prevention best practices Tools that matter manifold and digital gauges temperature probes scales micron gauges vacuum pumps recovery machines and leak detectors plus how to use them correctly Charging done right pressure temperature basics weighing in a charge superheat and subcooling methods targets for TXV vs fixed orifice systems and verifying airflow before charging Diagnostics you can trust reading suction head pressures spotting non condensables icing restrictions short cycling compressor faults and electrical or airflow issues with quick decision trees Service procedures maintenance deep vacuum to target microns nitrogen pressure testing filter drier and line set practices moisture acid mitigation and documentation checklists Free video tutorial included Scan the QR code inside or use the link provided to access a concise video series demonstrating the book s core procedures gauging evacuation charging by SH SC and common fault diagnosis so you can see each step before you do it Who it s for Apprentices facility maintenance teams HVAC students and new technicians who want clear repeatable processes backed by practical checklists and reference tables

Refrigerant Tables and Charts, Including Air Conditioning Data C. P. Othandaraman,2011

Refrigerant Charging and Service Procedures for Air Conditioning WORKBOOK Craig Migliaccio,2020-03-02 This workbook is a direct compliment to the Refrigerant Charging and Service Procedures for Air Conditioning text Each copy of the book includes a removable answer key for quick reference and use This workbook follows the text chapter by chapter providing over 1 000 supportive questions and problems to test your understanding of the various procedures methods and steps stated in the book This workbook can also help readers retain information such as the refrigeration cycle and components used in each system Custom images are used to display charging scenarios and troubleshooting Test your knowledge as you solve each problem and question

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

Refrigerant Tables And Charts Including Air Conditioning C P Kothandaraman, *Complete Guide To Refrigerant Charging And Service Procedures For Air Conditioning* Quintrex Mallowfair,2024-05-13 Complete Guide To Refrigerant Charging And Service Procedures For Air Conditioning A Comprehensive Resource For HVAC Service And Repair Complete Guide to Refrigerant Charging and Service Procedures for Air Conditioning is an essential resource for HVAC professionals technicians and students in the field of heating ventilation and air conditioning This comprehensive manual provides a detailed exploration of modern refrigerant charging techniques and service procedures ensuring best practices in HVAC maintenance and operations The book begins with an in depth look at the fundamentals of air conditioning systems explaining the roles and interactions of components such as compressors condensers evaporators and expansion

valves It thoroughly covers the types of refrigerants their environmental impacts and the critical considerations for choosing the right refrigerant for different types of AC systems Safety is paramount in HVAC operations and this guide emphasizes the use of Personal Protective Equipment PPE safe handling practices for refrigerants and the critical steps to avoid accidents and injuries in the workplace Each chapter includes detailed diagrams and step by step instructions to enhance understanding and practical application From the basics of system evaluation and preparation through advanced diagnostics and troubleshooting to the final steps of refrigerant recovery and recycling this book offers clear easy to follow procedures It also delves into regulatory compliance providing updates on the latest laws and regulations affecting refrigerant use including the Montreal Protocol and its amendments With a focus on efficiency and sustainability Complete Guide to Refrigerant Charging and Service Procedures for Air Conditioning addresses the needs of today s HVAC professionals to adapt to new technologies and environmental challenges It serves as both a practical handbook for the field and a valuable reference for preparing for HVAC certification exams Whether you re looking to refine your skills ensure compliance with environmental regulations or simply gain a deeper understanding of air conditioning systems this guide is an indispensable addition to your professional library

Uncover the mysteries within Crafted by is enigmatic creation, **R134a Refrigerant Charging Chart** . This downloadable ebook, shrouded in suspense, is available in a PDF format (Download in PDF: *). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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