

# Copeland Scroll™

## ZRK5 compressor

### The latest in technology and innovation

For more than 25 years – and over 100 million installations around the world – Copeland Scroll compressors have been setting the standard for excellence. This line of compressors incorporates all of the latest advances, bringing you the quality and dependability that only Copeland Scroll technology can deliver. It includes 20 new design features, nine of them patented, that combine to offer:

#### Added efficiency

- Optimized scroll and seal design
- High-efficiency motor

#### Improved reliability

- Improved temperature protection
- Larger shaft-bearing system
- Internal pressure protection

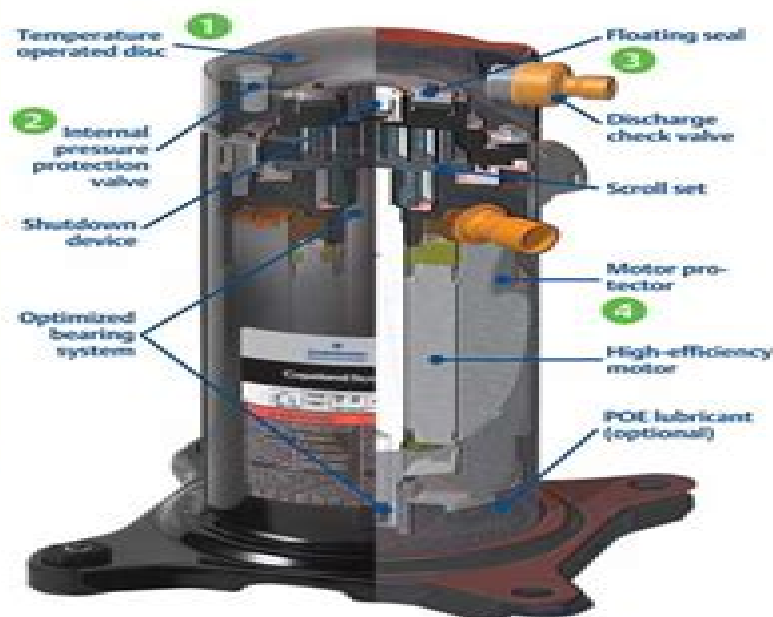
#### Quiet operation

- New shutdown solution
- Redesigned shell

Copeland Scroll compressors feature a variety of internal safety controls, designed to ensure proper actuation of the internal line-break motor protection. These safety features include:

- 1 Temperature operated disc – Features a bimetallic disc that senses discharge temperature and opens at approximately 270°F internal plenum temperature.
- 2 Internal pressure relief – Opens at approximately 400 +/- 50 pounds differential.
- 3 Floating seal – Separates the high side from the low side and also prevents the compressor from drawing into a vacuum, damaging the electrical terminal.
- 4 Internal motor protector – Senses both internal temperature and amperage. A tripped motor protector will exhibit a high shell temperature. Allow the compressor to cool to reset the motor protector.

The Copeland Scroll ZRK5 compressor is designed for both residential and light commercial markets. It's also been optimized for post-2010 R-22 service and continued OEM system production for exports. Copeland Scroll ZRK5 compressors use polyol ester (POE) lubricant to further increase application compatibility with both R-22 and hydrofluorocarbon (HFC) refrigerant applications like R-407C.



# Copeland Scroll Compressor Selection Guide

**Royce N. Brown**



## **Copeland Scroll Compressor Selection Guide:**

*Regional Industrial Buying Guide*, 2005      Guide to Refrigeration CFC's Carl E. Salas, Marianne Salas, 1992 This timely guide brings together in one convenient source the information you need to assess CFC related alternatives requirements and restrictions The information presented will enable you to assess how the mandated phaseout of chlorofluorocarbons CFCs will impact your own operations You'll find out what regulations and guidelines currently impact CFC use including the revised Clean Air Act Montreal Protocols and state and local regulations and what changes and enforcement policies are likely in the future You'll find out what refrigeration alternatives are available as well as what costs and risks are associated with each You'll learn what factors you must take into account in selecting new equipment such as chillers screw compressors and heat pumps Technologies for CFC recycling reclamation and reuse are also detailed Loaded with both practical information and technical details this reference will guide the reader in addressing difficult questions assessing complex alternatives and developing the optimum long term strategy for meeting the challenge of CFC phaseout      Popular Science, 1989-07 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better      **Troubleshooting Guide to Residential Construction** Steven Bliss, 2005-08-26 Avoid pitfalls with these expert tips techniques for diagnosing and preventing the most common residential building defects More than 50 experts in the field describe their proven techniques for preventing building problems

**Official Gazette of the United States Patent and Trademark Office** United States. Patent and Trademark Office, 1997      *Popular Science*, 1989      *America's Best* Theodore B. Kinni, 1996-10-25 In 1990 Industry Week magazine established a prestigious new competition the America's Best Plants Award designed to recognize and honor the top manufacturing operations in the nation Now these award winning plants are profiled in America's Best a unique reference that takes an in depth look at leading edge manufacturing while providing personal experience from the field America's Best offers practical guidelines that will help managers make strategic decisions regarding their own organizations      *Scientific American*, 1877 Monthly magazine devoted to topics of general scientific interest      **Thomas Register of American Manufacturers**, 2003 Vols for 1970-71 includes manufacturers catalogs      **Indexes to ... Publications** American Society of Mechanical Engineers, 1978      *Rotary Air Compressor Selection Guide* Compressed Air and Gas Institute. Rotary Positive Compressor Section, 1983\*      Process Fan and Compressor Selection John Davidson, Otto von Bertele, 2005-10-14 Process Fan and Compressor Selection is ideal reference material for engineers managers and designers in mechanical and chemical engineering equipment manufacturers those training to be engineers and anyone working in the process industries

COMPLETE CONTENTS Introduction Preliminary choice of fan or compressor type Fans Centrifugal compressors Axial compressors Reciprocating compressors Twin screw compressors general Oil free twin screw compressors Oil injected twin

screw compressors Positive displacement blowers Rotary sliding vane compressors Drives and transmissions Lubrication  
Seals for rotary machines Inspection and testing Containment safety The units used throughout this guide are SI units     **A**

**Practical Guide to Compressor Technology** Heinz P. Bloch, 2006-10-25 A Complete overview of theory selection design  
operation and maintenance This text offers a thorough overview of the operating characteristics efficiencies design features  
troubleshooting and maintenance of dynamic and positive displacement process gas compressors The author examines a  
wide spectrum of compressors used in heavy process industries with an emphasis on improving reliability and avoiding  
failure Readers learn both the theory underlying compressors as well as the myriad day to day practical issues and  
challenges that chemical engineers and plant operation personnel must address The text features Latest design and  
manufacturing details of dynamic and positive displacement process gas compressors Examination of the full range of  
machines available for the heavy process industries Thorough presentation of the arrangements material composition and  
basic laws governing the design of all important process gas compressors Guidance on selecting optimum compressor  
configurations controls components and auxiliaries to maximize reliability Monitoring and performance analysis for optimal  
machinery condition Systematic methods to avoid failure through the application of field tested reliability enhancement  
concepts Fluid instability and externally pressurized bearings Reliability driven asset management strategies for compressors  
Upstream separator and filter issues The text s structure is carefully designed to build knowledge and skills by starting with  
key principles and then moving to more advanced material Hundreds of photos depicting various types of compressors  
components and processes are provided throughout Compressors often represent a multi million dollar investment for such  
applications as petrochemical processing and refining refrigeration pipeline transport and turbochargers and superchargers  
for internal combustion engines This text enables the broad range of engineers and plant managers who work with these  
compressors to make the most of the investment by leading them to the best decisions for selecting operating upgrading  
maintaining and troubleshooting     *Compressors* Royce N. Brown, 1997 This practical reference provides in depth  
information required to understand and properly estimate compressor capabilities and to select the proper designs The many  
examples clearly illustrate key aspects to help readers understand the real world of compressor technology Compressors  
Selection and Sizing Third Edition is completely updated with new API standards The latest technology is presented in the  
areas of efficiency 3 D geometry electronics and CAD The critical chapter on negotiating the purchase of a compressor now  
reflects current industry practices for preparing detailed specifications bid evaluations engineering reviews and installation  
Book jacket     Compressors and Modern Process Applications Heinz P. Bloch, Arvind Godse, 2006-09-30 A modern reference  
to the principles operation and applications of the most important compressor types Thoroughly addressing process related  
information and a wider variety of the major compressor types of interest to process plants Compressors and Modern Process  
Applications uniquely covers the systematic linkage of fluid processing machinery to the processes they serve This book is a

highly practical resource for professionals responsible for purchasing servicing or operating compressors It describes the main features of over 300 petrochemical and refining schematics and associated process descriptions involving compressors and expanders in modern industry The organized presentation of this reference covers first the basics of compressors and what they are and then progresses to important operational and process issues It then explains the underlying principles operating modes selection issues and major hardware elements for compressors Topics include double acting positive displacement compressors rotary positive displacement compressors understanding centrifugal process gas compressors power transmission and advanced bearing technology centrifugal compressor performance gas processing and turbo expander applications and compressors typically found in petroleum refining and other petrochemical processes Suitable for plant operation personnel machinery engineering specialists process engineers as well as undergraduate students of this subject this book s special features include Flow schematics of modern process units and processes used in gas transport gas conditioning petrochemical manufacture and petroleum refining Listings of licensors for each process on the flow schematics Identification of each process flow schematic of compressors cryogenic and hot gas expanders at their respective locations Important overview of surge control estimating compressor performance applications for air separation and gas processing plants petroleum refinery issues and important criteria that govern compressor selection and application Placing hundreds of associated process flow schematics at the fingertips of professionals and students author and industry expert Heinz Bloch facilitates comprehension of the workings of various petrochemical oil refining and product upgrading processes that are served by compressors

**HVAC Compressors: A Comprehensive Guide** Charles Nehme, HVAC compressors are essential components of HVAC systems They are responsible for compressing refrigerant gas which is then circulated through the system to absorb heat from the indoor air and transfer it to the outdoor air HVAC compressors are used in a variety of HVAC systems including air conditioners heat pumps and refrigerators There are three main types of HVAC compressors reciprocating screw and scroll Reciprocating compressors are the oldest and most common type of compressor They use a piston mechanism to compress refrigerant gas Screw compressors use two intermeshing screws to compress refrigerant gas Scroll compressors use two intermeshed scrolls to compress refrigerant gas HVAC compressors typically last for 8 10 years but they can last longer with proper maintenance To extend the life of your HVAC compressor it is important to have your HVAC system inspected and serviced by a qualified HVAC technician at least once a year You should also change the air filter in your HVAC system every 1 3 months and keep the outdoor unit of your HVAC system clean and free of debris If you think your HVAC compressor is failing it is important to contact a qualified HVAC technician immediately Early detection and repair of a failing compressor can help to extend the life of your HVAC system and save you money on your energy bills When choosing an HVAC compressor it is important to consider the following factors Efficiency The efficiency of the compressor will affect your energy bills More efficient compressors will use less energy to operate Noise Some

compressors are louder than others If you have a bedroom near your outdoor HVAC unit you may want to choose a quieter compressor Cost The cost of the compressor is also an important consideration Reciprocating compressors are the least expensive type of compressor while scroll compressors are the most expensive It is also important to consider the size of your HVAC system and the climate you live in when choosing an HVAC compressor If you have a large HVAC system or live in a hot climate you may need to choose a more powerful compressor If you are not sure which type of HVAC compressor is right for you it is best to consult with a qualified HVAC technician They can help you to choose the right compressor for your needs and budget By following these tips you can extend the life of your HVAC compressor and choose the best compressor for your needs and budget Q A What is an HVAC compressor An HVAC compressor is a device that compresses refrigerant gas which is then circulated through the HVAC system to absorb heat from the indoor air and transfer it to the outdoor air HVAC compressors are used in a variety of HVAC systems including air conditioners heat pumps and refrigerators How does an HVAC compressor work HVAC compressors work by compressing refrigerant gas This compression process increases the temperature and pressure of the refrigerant gas The refrigerant gas then flows through the condenser coil where it cools and condenses into a liquid The liquid refrigerant then flows through the expansion valve where it expands and evaporates This evaporation process absorbs heat from the indoor air The refrigerant gas then flows through the evaporator coil where it absorbs more heat from the indoor air and cools the home The refrigerant gas then flows back to the compressor where the cycle begins again What are the signs of a failing HVAC compressor There are a number of signs that can indicate that an HVAC compressor is failing These signs include Reduced cooling or heating performance Strange noises coming from the HVAC system Leaking refrigerant Increased energy bills The compressor is running all the time If you notice any of these signs it is important to contact a qualified HVAC technician to diagnose and repair the problem How long do HVAC compressors typically last HVAC compressors typically last for 8 10 years but they can last longer with proper maintenance To extend the life of your HVAC compressor it is important to have your HVAC system inspected and serviced by a qualified HVAC technician at least once a year You should also change the air filter in your HVAC system every 1 3 months and keep the outdoor unit of your HVAC system clean and free of debris How much does it cost to replace an HVAC compressor The cost to replace an HVAC compressor varies depending on the type of compressor the size of your HVAC system and the cost of labor in your area However you can expect to pay between 1 000 and 3 000 to replace an HVAC compressor **Guide to**

**European Compressors and their Applications** Peter Simmons,Brian Nesbitt,David Searle,2003-05-07 The one stop complete technical manual and buyers guide for all those in the power process gas petro chemical nuclear and water industries European Compressors Applications has been designed and written for compressor users It has been designed to provide practical information about the outline design selection and installation of compressors and how these affect performance Contains full principles practice types of equipment suitability for application component details maintenance

manufactures information guidelines for specification and fitting as well as a complete and comprehensive Buyers Guide including contact details for all valve suppliers and manufacturers Ideal for any plant engineer plant manager maintenance manager designer specifiers marketing and sales engineers and others who make buy sell or fit this equipment Uniquely comprehensive source of information Heavily illustrated Easy to use The one stop reference for industry Written by engineers for engineers

**Compressor Handbook** Anthony Giampaolo, 2020-12-18 This book provides a practical introduction to dynamic and positive displacement compressors including compressor performance operation and problem awareness In reading this book readers will learn what is needed to select operate and troubleshoot compressors Complete with real life case histories the book demonstrates investigative techniques for identifying and isolating various contributing causes including design deficiencies manufacturing defects adverse environmental conditions operating errors and intentional or unintentional changes of the machinery process that usually precede failure

*Compressor Performance* M. Theodore Gresh, 1991 Intended for equipment users as a guide in selecting monitoring and enhancing the aerodynamic performance of various types of compressors Some basic theory is included but the emphasis is on day to day performance tending and troubleshooting Includes many examples and abundant reference data A

*Compressor Guide for Selecting Compressors* Ingersoll-Rand Company, 1936

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