

Solar Turbines

A Caterpillar Company

C40

Pipeline Gas Compressors

Oil & Gas Applications

The Solar® C40 family of pipeline gas compressors is designed for applications with the Centaur® 40, Centaur 60, Taurus® 60, Taurus 70 gas turbines. These compressors combine high efficiency and wide flow range with a robust design and ease of retagging.

The C40 gas compressors have the latest state-of-the-art technology combined with the experience and reliability that comes with building and installing over 5000 compressors. These compressors are designed in compliance with API 617, a requirement for the severe environments and operating conditions this equipment may encounter.



C40 Gas Compressor

02040P_001



Typical C40P Rotor

02040P_002

Typical Weights and Dimensions

Length	5.2 - 16.0 m (17' 3" - 52' 1")
Height	5.4 m (17' 9")
Width	1.8 m (5' 10")
Weight	9000 - 12,200 kg (21,000 - 26,900 lb)

Key Features

Number of Stages	1 - 2
Seals	Tandem dry gas
Bearings	Journal: Tilting-pad Thrust: Self-aligning, tilting-pad
Inlet/Discharge Flanges	2000 in. Class 600
Efficiency	> 90% isentropic
Maximum Speed	15,500 rpm
Maximum Flow	311 m³/min. (11,000 acfm)
Maximum Total Head	108 kJ/kg (38,500 ft-lb/lbm)
Maximum Casing Press.	11,000 kPa(g) (1600 psig)
Maximum Torque	7457 Nm (55,000 lb-ft)
Instrumentation	Fully instrumented with vibration, temperature, and pressure monitoring per API 617
Vibration Limits	Within API 617

Materials

Inpeller	15-5PH
Casing	ASTM A216 GR WCB
Diaphragm/Guide Vane	ASTM A36 Gr. A
Rotor Spacer	AISI 415
Shaft Shafts	AISI 4140
Labyrinth Seals	Steel-backed Babbit

Operation Range (Pressure vs. Flow)



02040P_003

Solar Turbines Manual

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Solar Turbines Manual:

Handbook Of Solar Thermal Technologies: Concentrating Solar Power And Fuels (In 3 Volumes) ,2022-08-11 The three volume handbook showcases the state of the art in the use of concentrated sunlight to produce electricity industrial process heat renewable fuels including hydrogen and low carbon synthesis gas and valuable chemical commodities The handbook illustrates the value and diversity of applications for concentrating solar power to contribute to the expanding decarbonization of multiple cross cutting energy sectors Volume 1 Concentrating Solar Thermal Power provides an overview of key technologies principles and challenges of concentrating solar power CSP as well as the use of concentrating solar thermal for process heating and district markets The ten chapters of this volume provide the reader with the technical background on the solar resource for concentrating solar thermal the principles and design of concentrating optics and descriptions of state of the art and emerging solar collector and receiver technologies thermal storage and thermal to electric conversion and power cycles for CSP It also contains a comprehensive summary of operations and maintenance requirements for CSP plants and commercial CSP plants and markets around the world Volume 2 Solar Thermochemical Processes and Products covers the use of concentrated solar radiation as the heat source to drive endothermic chemical reactions to produce renewable fuels and valuable chemical commodities equivalently storing solar energy in chemical bonds The thermodynamic underpinnings of a number of approaches to produce fuel and results of demonstrations of solar thermochemical reactors for these processes at prototype scale are presented Processes presented include thermochemical metal oxide reduction oxidation cycles to split water and carbon dioxide solar chemical looping reformation of methane to produce synthesis gas high temperature electrochemistry and gasification of biomass Research on the thermochemical storage for CSP and high temperature production of cement and ammonia to illustrate the use concentrated solar energy to produce valuable chemical products are also included Volume 3 contains reprinted archival papers to support and supplement the material in Volumes 1 and 2 These papers provide background information on the economics and alternative use cases of CSP not covered in Volume 1 and expand on the material related to the chapter topics presented in Volume 2 Potential commercialization such as prototype and demonstration projects are highlighted The papers are intended as a starting point for a more in depth study of the topics

The Residential Energy Audit Manual United States. Department of Energy,1981 *Solar Energy Update* ,1982 **Renewable Energy Technology Handbook for Military Engineers** ,1982 **Life-cycle Costing Manual for the Federal Energy Management Program** Rosalie T. Ruegg,1987

Handbook of Energy Efficiency and Renewable Energy D. Yogi Goswami, Frank Kreith, 2007-05-07 Brought to you by the creator of numerous bestselling handbooks the Handbook of Energy Efficiency and Renewable Energy provides a thorough grounding in the analytic techniques and technological developments that underpin renewable energy use and environmental protection The handbook emphasizes the engineering aspects of energy conservation and renewable energy

Taking a world view the editors discuss key topics underpinning energy efficiency and renewable energy systems They provide content at the forefront of the contemporary debate about energy and environmental futures This is vital information for planning a secure energy future Practical in approach the book covers technologies currently available or expected to be ready for implementation in the near future It sets the stage with a survey of current and future world wide energy issues then explores energy policies and incentives for conservation and renewable energy covers economic assessment methods for conservation and generation technologies and discusses the environmental costs of various energy generation technologies The book goes on to examine distributed generation and demand side management procedures and gives a perspective on the efficiencies economics and environmental costs of fossil and nuclear technologies Highlighting energy conservation as the cornerstone of a successful national energy strategy the book covers energy management strategies for industry and buildings HVAC controls co generation and advances in specific technologies such as motors lighting appliances and heat pumps It explores energy storage and generation from renewable sources and underlines the role of infrastructure security and risk analysis in planning future energy transmission and storage systems These features and more make the Handbook of Energy Efficiency and Renewable Energy the tool for designing the energy sources of the future

Energy Research Abstracts ,1985 *CRC Handbook of Energy Efficiency* Frank Kreith,Ronald E. West,1996-10-24 Addressing the needs of engineers energy planners and policy makers CRC Handbook of Energy Efficiency provides up to date information on all important issues related to efficient energy use including Efficient energy technologies Economics Utility restructuring Integrated resource planning Energy efficient building design Industrial energy conservation Wind energy Solar thermal systems Photovoltaics Renewable energy Cogeneration Fossil fuel cost projections The rapid changes that characterize the technology of energy generation systems and the forthcoming competition among energy producers make this handbook a must for anyone involved in the science technology or policy of energy The 53 expert contributors from industry government and universities and the 600 figures and tables make CRC Handbook of Energy Efficiency a professional and valuable resource

Handbook of Industrial Drying, Fourth Edition Arun S. Mujumdar,2014-07-11 By far the most commonly encountered and energy intensive unit operation in almost all industrial sectors industrial drying continues to attract the interest of scientists researchers and engineers The Handbook of Industrial Drying Fourth Edition not only delivers a comprehensive treatment of the current state of the art but also serves as a consultative reference for streamlining industrial drying operations New to the Fourth Edition Computational fluid dynamic simulation Solar impingement and pulse combustion drying Drying of fruits vegetables sugar biomass and coal Physicochemical aspects of sludge drying Life cycle assessment of drying systems Covering commonly encountered dryers as well as innovative dryers with future potential the Handbook of Industrial Drying Fourth Edition not only details the latest developments in the field but also explains how improvements in dryer design and operation can increase energy efficiency and cost effectiveness

Solar Energy

Computer Models Directory ,1985 *The Residential Energy Audit Manual* Dale Schueman,1992 This fully updated edition is a guide for techniques and guidelines on implementing a residential energy audit programme Step by step the manual shows how to perform an energy audit of the home offering authoritative advice from energy specialists **Renewable Energy Focus e-Mega Handbook** Bent Sorensen,Mukesh Doble,Michel Broussely,Preben Maegaard,Frano Barbir,Gianfranco Pistoia,Soteris Kalogirou,Truman Storvick,Paul Breeze,Galen J. Suppes,Nasir El Bassam,Dr. Semida Silveira,Shang-Tian Yang,Aldo Vieira da Rosa,Harsh K. Gupta,Sukanta Roy,2008-12-29 A one stop Desk Reference for engineers involved in renewable energies this is a book that will not gather dust on the shelf It brings together the essential professional reference content from leading international contributors in the field Material ranges from basic to advanced topics A fully searchable Mega Reference Ebook providing all the essential material needed by Energy and Environmental Engineers on a day to day basis Fundamentals key techniques engineering best practice and rules of thumb together in one quick reference Over 2 500 pages of reference material including over 1 500 pages not included in the print edition

Energy Abstracts for Policy Analysis ,1983 **Monthly Catalog of United States Government Publications** United States. Superintendent of Documents,1977 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index **ERDA.** ,1976 *ERDA Energy Research Abstracts* United States. Energy Research and Development Administration,1977 *Turbomachinery International Handbook* ,1984 **Compendium of Research Reports** ,1981 **Handbook of Heating, Ventilation, and Air Conditioning** Jan F. Kreider,2000-12-26 The building industry accounts for about 25 percent of the US gross national product through the design construction operation and maintenance of commercial institutional and residential buildings The Handbook of Heating Ventilation and Air Conditioning provides a current comprehensive review of the latest procedures and trends in the industry It combines practice and theory systems and control and modern methods and technologies to provide in one volume all of the design and operation information needed by HVAC engineers Through a link on the CRC Web site owners of the handbook can access new material periodically posted by the author **Monthly Catalogue, United States Public Documents** ,1980

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