

Solar Turbines

A Caterpillar Company

C16

Production Gas Compressors

Oil & Gas Applications

The Solar® C16 family of gas compressors is designed for applications with the Saturn® 20, Centaur® 40, Centaur 60, Taurus® 60, Taurus 70, Mars® 90, Mars 100 and Titan® 130 gas turbines. These compressors combine high efficiency and wide flow range with a robust design and ease of retrofitting.

The C16 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.



C16 Gas Compressor

img 01_001



Typical C16 Rotor

img 01_002

Typical Weights and Dimensions

Length	1.2 - 1.3 m (4' 1" - 4' 2")
Height	0.7 - 0.8 m (2' 4" - 2' 7")
Width	0.7 - 1.1 m (2' 4" - 3' 10")
Weight	7000 - 2540 kg (1400 - 5600 lb)

Key Features

Number of Stages	1 - 10
Gases	Double ring oil or tandem dry gas
Bearings	Journal: Tiling-pad Thrust: Self-aligning, tiling-pad
Inlet/Discharge Flanges	60 in. Class 1500
Efficiency	> 75% isentropic
Maximum Speed	23,000 rpm
Maximum Flow	62 m³/min (2200 acfm)
Maximum Total Head	208 kJ/kg (70,000 ft-lb/lbm)
Maximum Casing Press.	24.126 MPa (3500 psig)
Maximum Torque	3600 Nm (34,700 ft-lb)
Instrumentation	Fully instrumented with vibration, temperature, and pressure monitoring per API 617
Vibration Limits	Within API 617

Materials

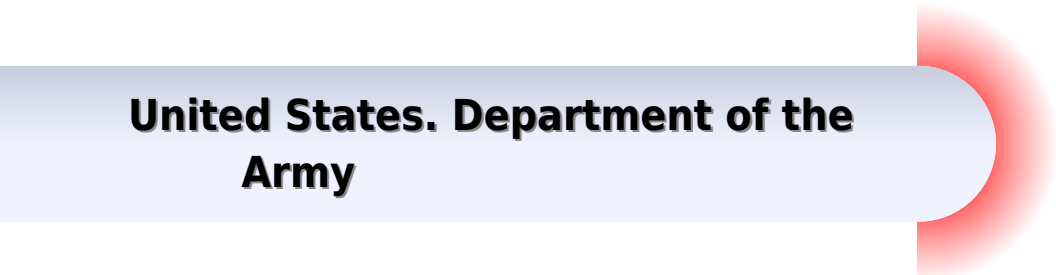
Impeller	AISI 415
Casing	ASTM A216 GR WCC
Diaphragm/Guide Vane	ASTM A305
Rotor Spacer	AISI 415
Shaft Shafts	AISI 4140
Labyrinth Seals	Steel-backed Babbitt

Operation Range (Head vs. Flow)



Solar Gas Turbines Service Manual

**United States. Department of the
Army**



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Australian National Bibliography: 1992 National Library of Australia,1988 **Energy Research Abstracts** ,1984
Monthly Catalog of United States Government Publications ,2004 *Monthly Catalogue, United States Public*
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,1998-08 **Power Plant Engineering** ,1972 **Prime power production specialist** United States. Department of the
Army,1979 ASME Technical Papers ,1995

Solar Gas Turbines Service Manual Book Review: Unveiling the Power of Words

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