Production Gas Compressors

A Caterpillar Company

Solar Turbines

Oil & Gas Applications

The Solar® C40 family of multi-stage gas compressors is designed for applications with the Centaur® 40, Centaur 50, Taurus™ 60, Taurus 70, Mars® 90, Mars 100, Titan™ 130 and Titan 250 gas turbines. These compressors combine high efficiency and wide flow range with a robust design and ease of restaging.

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

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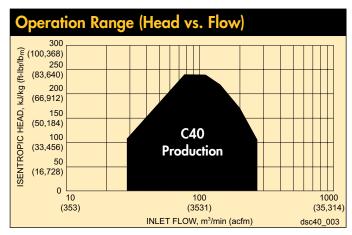


Typical C40 Rotor

Typical Weights and Dimensions		
Length	1.8 - 2.0 m (5' 9" - 6' 7")	
Height	1.1 m (3' 9")	
Width	1.7 m (5' 8")	
Weight	10 070 - 12 066 kg (22 200 - 26 600 lb)	

Key Features	
Number of Stages	1 - 6
Seals	Tandem dry gas
Bearings	Journal: Tilting-pad Thrust: Self-equalizing, tilting-pad
Inlet/Discharge Flanges	16/16 in. Class 900 16/16 in. Class 1500
Efficiency	> 85% isentropic
Maximum Speed	14,300 rpm
Maximum Flow	269 m ³ /min (9500 acfm)
Maximum Total Head	239 kJ/kg (80,000 ft-lb _f /lb _m)
Maximum Casing Press.	13 790 kPag (2000 psig) and 17 235 kPag (2500 psig) models
Maximum Torque	14 690 Nm (130,000 lb _f -in.)
Instrumentation	Fully instrumented with vibration, temperature, and pressure monitoring per API 617
Vibration Limits	Within API 617

Materials		
Impeller	15 - 5 PH	
Casing	ASTM A216 GR WCC	
Diaphragm/Guide Vane	ASTM A487/AISI 4140	
Rotor Spacer	AISI 410	
Stub Shafts	AISI 4140	
Labyrinth Seals	Steel-backed Babbitt	



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