

The Solar® C65 family of gas compressors is designed for applications with the 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 restaging.

The C65 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.



C65 Gas Compressor

dsc65_001



Typical C65 Rotor

dsc65_002

Typical Weights and Dimensions

Length	2.0 - 2.3 m (6' 5" - 7' 8")
Height	2.3 m (7' 5")
Width	2.5 m (8' 4")
Weight	28 350 - 34 473 kg (62,500 - 76,000 lb)

Key Features

Number of Stages	1 - 2
Seals	Tandem dry gas
Bearings	Journal: Tilting-pad Thrust: Self-equalizing, tilting-pad
Inlet/Discharge Flanges	30/30 in. Class 900
Efficiency	> 89% isentropic
Maximum Speed	10,500 rpm
Maximum Flow	680 m ³ /min (24,000 acfm)
Maximum Total Head	108 kJ/kg (36,000 ft-lbf/lbm)
Maximum Casing Press.	11 030 kPag (1600 psig)
Maximum Torque	23 725 Nm (210,000 lbf-in.)
Instrumentation	Fully instrumented with vibration, temperature, and pressure monitoring per API 617
Vibration Limits	Within API 617

Materials

Impeller	15-5PH
Casing	ASTM A216 GR WCC
Diaphragm/Guide Vane	ASTM A36/ASTM A516 Gr 70
Rotor Spacer	AISI 410
Stub Shafts	AISI 4140
Labyrinth Seals	Steel-backed Babbitt

Operation Range (Pressure vs. Flow)

