

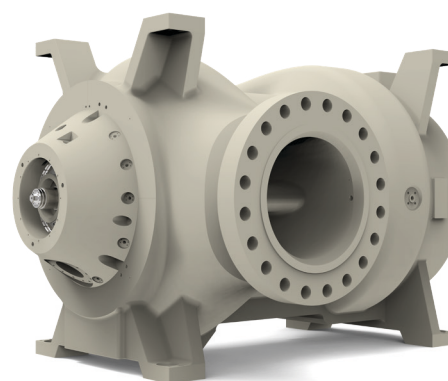
C71 GAS COMPRESSOR

The Solar® C71 is a multistage gas compressor designed for applications with the Titan™ gas turbines or Spartan™ EMD electric motor drives.

BENEFITS

- High efficiency and wide flow range
- Robust design and ease of restaging
- State-of-the-art technology
- Proven reliability
- Designed durability in compliance with API 617

C71 Gas Compressor



Materials

Impeller	15 - 5 PH
Casing	ASTM A-216 WCC
Diaphragm/Guide Vane	AISI 4140, ASTM A516/A36
Stub Shafts	AISI 4140
Labyrinth Seals	Steel-backed Babbitt

Typical Weight and Dimensions

Length	3.0 - 3.9 m (9' 10" - 12' 9")
Height	2.7 m (8' 8")
Width	3.8 m (12' 4")
Weight	67 900 - 87 950 kg (149,700 - 193,900 lb)

Key Features

Number of Stages	3 - 10
Seals	Tandem dry gas
Bearings	Journal: tilting pad Thrust: self-equalizing, tilting pad
Inlet/Discharge Flanges	36/30 in. Class 900
Efficiency	Up to 85% isentropic
Maximum Speed	8250 rpm
Maximum Flow	1132 m³/min (40,000 acfm)
Maximum Total Head	269 kJ/kg (90,000 ft-lbf/lbm)
Maximum Casing Press.	13,790 kPag (2,000 psig)
Maximum Torque	119,605 Nm (1,058,600 lbf-in.)
Instrumentation	Fully instrumented with vibration, temperature and pressure monitoring per API 617
Vibration Limits	Within API 617

Operation Range (Head vs. Flow)

