

# Solar® Turbines

A Caterpillar Company

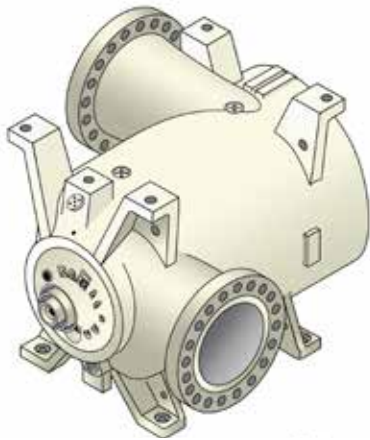
# C75

## Pipeline Gas Compressors

Oil and Gas Applications

The Solar® C75 gas compressor is designed for applications with the Titan™ 130 and Titan 250 gas turbines. The compressor combines high efficiency and wide flow range with a robust design and ease of restaging.

The C75 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.



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**C75 Gas Compressor**



dsc75\_002

**Typical C75 Rotor**

### Typical Weights and Dimensions

Length	2.4 - 2.8 m (7'10" - 9'2")
Height	2.7 m (8' 8")
Width	3.2 m (10' 6")
Weight	61,235 kg (135,000 lb)

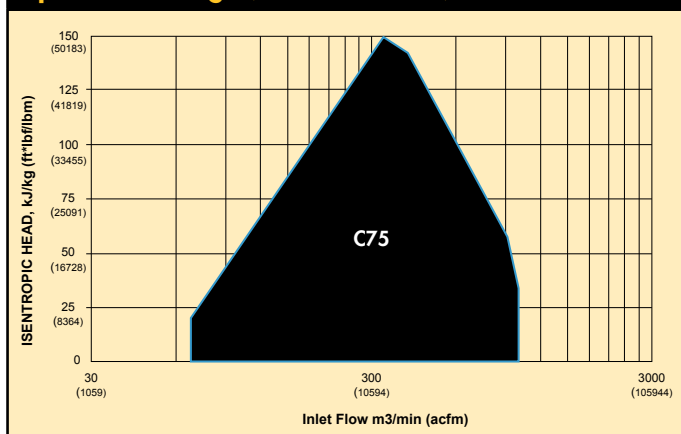
### Key Features

Number of Stages	1 - 3
Seals	Tandem dry gas
Bearings	Journal: Axially-aligned Thrust: Self-equalizing, tilting-pad
Inlet/Discharge Flanges	36/36 in. Class 900
Efficiency	Up to 90% isentropic
Maximum Speed	8000 - 8855 rpm
Maximum Flow	850 m <sup>3</sup> /min (30,000 acfm)
Maximum Total Head	120 kJ/kg (40,000 ft-lbf/lb <sub>m</sub> )
Maximum Casing Press.	15 510 kPag (2250 psig)
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 A36
Rotor Spacer	AISI 410
Stub Shafts	AISI 4140
Labyrinth Seals	Steel-backed Babbitt

### Operation Range (Head vs. Flow)



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### For More Information

