

# Solar<sup>®</sup> Turbines

A Caterpillar Company

Powering the Future Through Sustainable, Innovative Energy Solutions

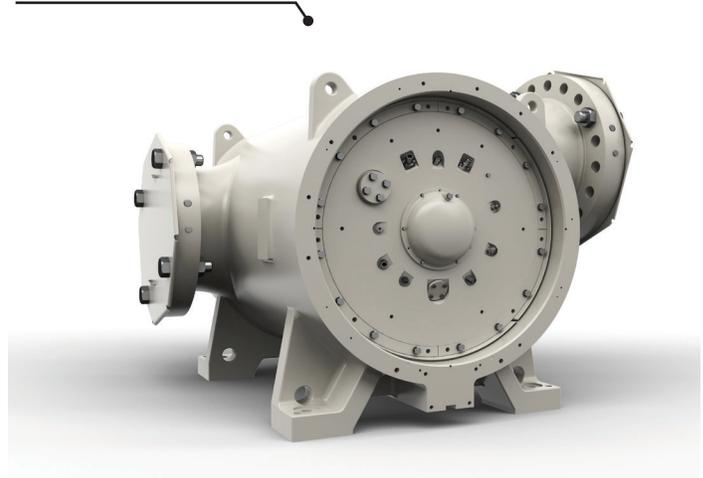
## C65 PIPELINE GAS COMPRESSOR

The Solar<sup>®</sup> C65 family of gas compressors is designed for oil and gas pipeline applications with the Mars<sup>®</sup> and Titan<sup>™</sup> gas turbine families. Solar Turbines has built, installed and serviced more than 7,000 gas compressors worldwide, delivering proven reliability and decades of field-tested expertise.

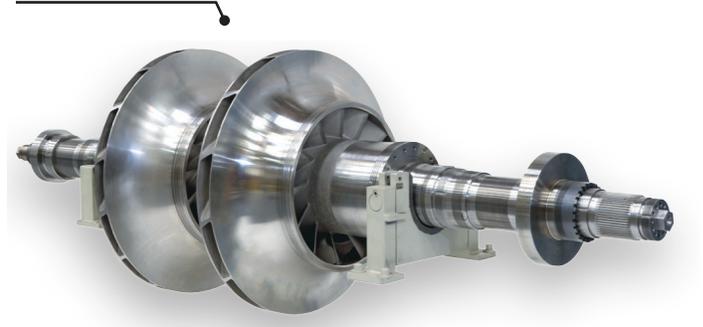
### BENEFITS

- 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

C65 Gas Compressor



Typical C65 Rotor



### 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 <sup>3</sup> /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	15-5 PH
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

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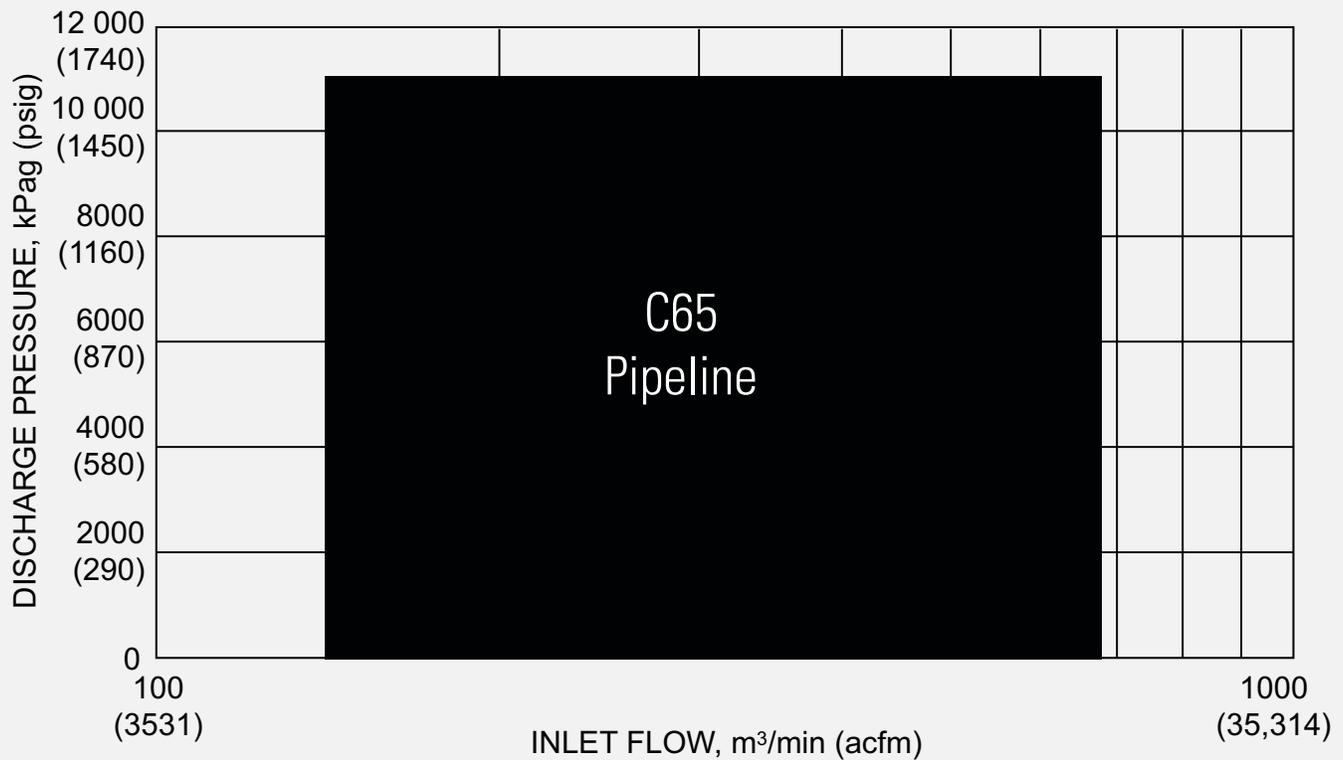
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## Typical Weights and Dimensions

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)

## Operation Range (Head vs Flow)



### Additional Information:

[www.solarturbines.com](http://www.solarturbines.com)

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