



Ampliflow T-Boost Seal Gas Booster

Continuous dry gas seal protection across all operating phases

Compressors equipped with dry gas seals can deliver outstanding reliability — but only with a permanent supply of clean seal gas.

While this supply is typically available during normal operation, critical phases such as startup, pressurization, recycling, standstill and shutdown often involve insufficient differential pressure to maintain the required seal gas flow. The result can be process gas migration, seal contamination, unplanned downtime and increased operational risk.

The Flowserve Ampliflow T-Boost is an electrically driven seal gas booster designed to close this gap and protect compressor performance whenever differential pressure and flow is low.

Powered by an innovative drive system, the T-Boost combines high energy efficiency with operating times of more than 24,000 hours. Integrated into a complete gas conditioning system, it helps ensure dry gas seals always receive the right amount of clean seal gas — exactly when it is needed most.



Features and benefits

- **Reliable seal gas supply** during low differential pressure conditions to protect dry gas seals and maximize compressor uptime
- **Advanced ceramic shell technology** eliminates eddy current losses, improving energy efficiency, reducing thermal load and avoiding the need for additional cooling
- **Hermetically sealed design** ensures zero gas leakage for maximum process safety and environmental protection
- **High-pressure capability** supports design pressures of up to **350 Barg (5,000 Psig)**
- **Low-maintenance construction** with minimal wear parts helps extend service intervals and achieve operating times of more than **24,000 hours**
- **Simple installation and integration** into existing dry gas seal support systems

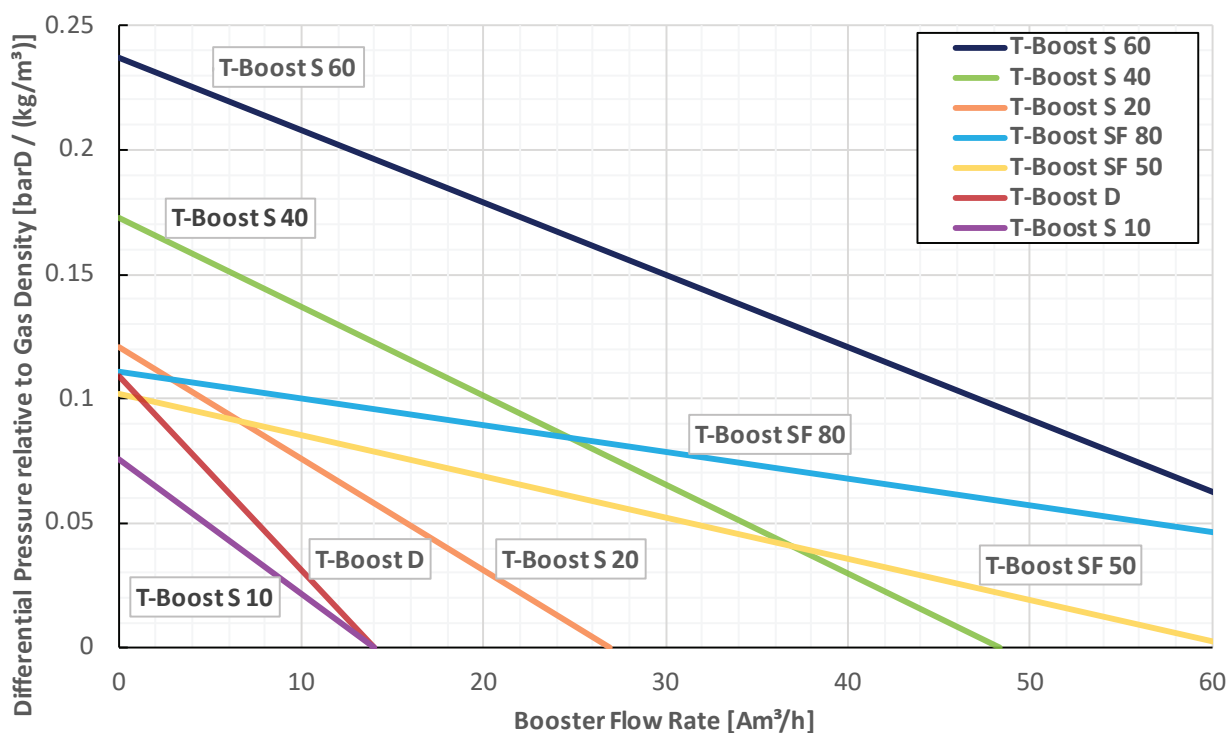
Operating Range				
Pressure	Temperature	Flow	Differential Pressure	Gas Operating Media
0 - 350 bar (5,000 psi)	-46 to 204°C (-50 to 400°F)	Up to 60 Am ³ /h (35 ACFM)	Up to 6 bar	H ₂ to CO ₂

Specifications				
Diameters	Classification	Electric Motor	Certification	Materials
520 - 545 mm (20 - 22")	IECEX, ATEX Zone 1	5.5 to 18 kW	NACE, others upon request	Stainless steel 316 / 316L, others upon request

Ampliflow T-Boost flow and differential pressure diagram

Plan for the reliability that comes with the various Ampliflow T-Boost models delivering the right amount of clean seal gas and pressure at every point along a compressor's operating path.

Ampliflow T-Boost Performances by Model @ 3000 RPM





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Available Models

Model	Impeller Type	Design Pressure At -46 to 204°C (-40 to 400°F)	Dimensions (D x H)	Weight	Motor Size
T-Boost D	Two-stage	Up to 350 bar (5,000 psi)	544 x 1,222 mm (21 x 48")	700 kg (1,540 lbs)	5.5 - 18kW (7.4 - 24HP)
T- Boost S 10	Single-stage	Up to 120 bar (1,740 psi)	520 x 1,340 mm (20 x 53")	540 kg (1,190 lbs)	
T-Boost S 20				540 kg (1,190 lbs)	
T-Boost S 40				540 kg (1,190 lbs)	
T-Boost S 60				575 kg (1,270 lbs)	
T-Boost SF 50				540 kg (1,190 lbs)	
T-Boost SF 80				575 kg (1,270 lbs)	