

CASE STUDY

Turboexpander Design for API-617 Compliance

Your On-Call Turboexpander Experts

Contact us today for
turboexpander design,
repair or 24/7/365
support services.

24/7/365
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L.A. Turbine designed and manufactured this turboexpander-compressor to meet API-617 standards for use in natural gas liquids extraction at an NGL gas plant in Venezuela. In order for the machine to be API-617 compliant, specific performance standards, design materials, manufacturing methods and processes, as well as testing procedures and results were met. Built on the L.A. Turbine L3000 sized frame, the LAT502EC features a very wide flow range design from 58 MMSCFD to 170 MMSCFD, operating with high performance for the range.

Specifications

Frame Size	L3000
Speed	23,000 RPM
Flow Rate	170 MMSCFD
Inlet Pressure/Temperature	837.5 PSIA/-11.07°F
Outlet Pressure/Temperature	302.7 PSIA/-84.5°F
Wheel Power	3803 hp


Rethinking Turboexpanders

www.LATurbine.com

L.A. Turbine designs and manufactures application-specific, highly engineered turboexpanders used in hydrocarbon processing, geothermal power generation and other industrial power recovery or refrigeration applications.

The company is also a recognized leader in aftermarket repair, redesign, maintenance and production of spare parts for all brands and configurations of turboexpanders worldwide.

A global field service team provides diagnostics, maintenance and emergency support 24/7/365.

24/7/365
Support Services

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L.A. Turbine: Your On-Call Turboexpander Experts

Turboexpanders

Turboexpander configurations include expander-compressor, expander-generator, expander-dyno (oil brake) and expander-compressors with active magnetic bearing units. Turboexpanders range from 3kW to 14MW, are capable of handling up to 3,000 PSIG pressure, can operate at speeds up to 105,000 RPM, and accommodate temperatures between -195°C to 260°C.

Ability to Deliver

From concept to commissioning, L.A. Turbine controls and manages the entire design, engineering manufacturing, assembly and testing process for all new and aftermarket equipment. As a result, we are able to deliver faster-to-market customized solutions than competitive firms, and our equipment not only meets but often exceeds clients' output performance requirements. All engineering design and development processes comply with ISO 9001:2008.

Global Presence

L.A. Turbine has established a global presence on five continents, in 16 world offices and partner locations. U.S. headquarters and manufacturing is located in Valencia, California, with sales and service facilities in California, Texas and Belgium. U.S. operations also support the needs of Canada, South America, Asia and Australia. European headquarters in Belgium serve Europe, the Middle East and Africa.

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