

CASE STUDY

Turboexpander Design

LAT528EC Turboexpander-Compressor

L.A. Turbine designed and manufactured this turboexpander-compressor for use in ethane recovery and rejection at a 120 MMSCFD gas plant in Oklahoma, USA. Built on a L.A. Turbine L2000 frame, the LAT528EC unit features a single-stage expander-compressor with oil bearing.



Your On-Call
Turboexpander
Experts

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

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Specifications	
Frame Size	L2000
Speed	33,000 RPM
Flow Rate	60.94 MMSCFD 123,952 lb./hr.
Inlet Pressure/Temperature	847.7 PSIA/-23.7°F
Outlet Pressure/Temperature	234.7 PSIA/-112.7°F
Wheel Power	1557 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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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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