CASE STUDY

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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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.

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frame Size</td>
<td>L2000</td>
</tr>
<tr>
<td>Speed</td>
<td>33,000 RPM</td>
</tr>
<tr>
<td>Flow Rate</td>
<td>60.94 MMSCFD 123,952 lb./hr.</td>
</tr>
<tr>
<td>Inlet Pressure/Temperature</td>
<td>847.7 PSIA/-23.7°F</td>
</tr>
<tr>
<td>Outlet Pressure/Temperature</td>
<td>234.7 PSIA/-112.7°F</td>
</tr>
<tr>
<td>Wheel Power</td>
<td>1557 hp</td>
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</tbody>
</table>
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.

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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Rethinking Turboexpanders
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