

# Turbomachinery INTERNATIONAL

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# HANDBOOK 2017

## Turboexpander Specifications

L.A. Turbine, Valencia, California, U.S.A.

MODEL	INLET PRESSURE (BAR A)	INLET TEMPERATURE (°C)	NUMBER OF STAGES (2)	RPM (MAX.)	TYPE OF BEARINGS (6)	TYPE OF CASING SPLIT (3)	TYPE OF SEALS (4)	TYPE OF GAS EXPANDER CAN HANDLE	TYPE OF DESIGN(1)
L1000	up to 206	-195 to 260	1	105,000	Oil	V	L	5	EC/EG/ED(7)
L2000	up to 206	-195 to 260	1 to 2	52,000	Oil / AMB	V	L	5	EC/EG/ED
L3000	up to 206	-195 to 260	1 to 2	31,000	Oil / AMB	V	L/D	5	EC/EG/ED
L4000	up to 206	-195 to 260	1 to 2	29,000	Oil / AMB	V	L/D	5	EC/EG
L5000	up to 206	-195 to 260	1 to 2	18,000	Oil / AMB	V	L/D	5	EC/EG
L6000	up to 206	-195 to 260	1 to 2	15,000	Oil / AMB	V	L/D	5	EC/EG

- (1) Model EC = Expander-Compressor / EG = Expander-Generator / ED = Expander-Dyno (Oil Brake)
- (2) Number of Stages: Multi-Stage is only applicable to the EC model
- (3) Type of Casting Split: V = Vertical
- (4) Type of Seals: L = Labyrinth Seal / D = Dry Gas Seal
- (5) Type of Gas: Hydrocarbons, Industrial Gases, Refrigerant, Steam
- (6) Type of Bearings: AMB = Active Magnetic Bearing, Oil = Oil Bearing. AMB is only applicable for EC model.
- (7) High Pressure/High Power does not apply on ED equipment. A maximum of 105,000 RPM is only applicable to the ED model.



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L.A. Turbine (LAT) delivers innovative turboexpander design, manufacturing and testing of application-specific, highly engineered turboexpanders used in hydrocarbon processing, geothermal power generation and other industrial power recovery or refrigeration applications. The company also provides aftermarket service, repair, redesign, maintenance and production of spare parts for all makes and models of turboexpanders. Global field support is available 24/7/365 at +1 855 FX-TURBO. In 2016, LAT produced its 100th turboexpander unit. LAT turboexpander configurations range from 3kW to 14MW and include expander-compressor, expander-generator, expander-dyno (brake) units and expander-compressors with active magnetic bearings capable of handling up to 3000 PSIG pressure, speeds up to 105,000 RPM and temperatures from -195C to 260C. Frame sizes include L1000-L6000. World headquarters and manufacturing is in Valencia, California with service facilities in California and Belgium. U.S. operations also serve Canada, South America, Asia and Australia. European headquarters in Belgium, serve clients in Europe, Middle East and Africa.

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