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Energy Recovery, Inc.
Turbocharger Specifications Sheet
LPT-1000

Sheet
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Document number:
80238-01

DESCRIPTION:
TECHNICAL DATA SHEET, CENTRIFUGAL ENERGY RECOVERY DEVICE

REV	BY	CKD	DESCRIPTION	DATE
0	RBC	ERK	INITIAL RELEASE	10/31/10
1	PMF	ERK	Auth., Notes sec. add, flow, MOC chg.	8/15/11
2	ERK	RBC	MOC changes	2/15/12
3	ERK	RBC	Section changes, weights updated	7/6/12

1.Part number **LPT1000-2** **S/N:** 2. Service 3. Reference

4	OPERATING CONDITIONS	Liquid	**Brackish**
5		Operating Temperature	**33°F-120°F (0.6-49°C)**
6		Max. Temperature	**120°F (49°C)**
7		Specific Gravity (Nominal)	**1030 kg/m3**
8		Allowable Hydraulic Envelope	**See Turbocharger Projection**
9		Maximum Turbocharger Operating Pressure	**600 psig (41.4 bar)**
10		Maximum Outlet Low Pressure, Turbine-Side	**N/A**
11		Minimum Exhaust Pressure	**14.5 psig (1.0 bar)**
12		Filtration Requirement (Nominal)	**10µm**
13		Bearing Lubrication	**Process Lubricated**
14	PERFORMANCE	Peak Efficiency	**Contact ERI**
15		Maximum Boost Pressure	**Contact ERI**
16		Maximum Salinity Increase at Membranes	**0%**
17		Nominal Sound level	**85 dBA**
18			
19			
20			
21	MATERIALS	Casing	**Duplex 2205**
22		Rotating Assembly	**Duplex 2205**
23		Bearings	**Carbon Graphite**
24		Fasteners/Hardware (non-wetted)	**316SS**
25		O-rings	**BUNA**
26		Thrust Line Assembly	**316SS or better**
27		Auxillary Valve Assembly	**316SS or better**
28		Auxillary Valve	**316SS or better**
29		Base	**Powder-Coated Steel**
30			
31	PIPING CONNECTIONS	Pump-Side Inlet Port Fitting	**6" Grooved-end Flexible Pipe Coupling**
32		Pump-Side Outlet Port Fitting	
33		Turbine-Side Inlet Port Fitting	**4" Grooved-end Flexible Pipe Coupling**
34		Turbine-Side Outlet Port Fitting	
35			
36			
37			

38	TESTS	Performance	**Standard**
39		Case Hydrotest	**Standard**
40		Balance Test Rotating Assy	**Standard**
41		Witnessed Test	**Optional**
42		Certified Test Data	**Optional**
43			
44	INSPECTION	Outside Dimensions	**Standard**
45		Internal Components	**Standard**
46		Casing Dimensions	**Standard**
47		Bearing Dimensions	**Standard**
48		Visual	**Standard**
49		Packing and Crating	**Standard**
50		Material Certificates	**Optional**
51			
52			
53			
54			
55	SHIPPING WEIGHT & DIMENSIONS	Estimated Unit Weight	**425lbs. (192.8 kgs.)**
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57		Unit Dimensions	**SEE DRAWING**
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59		Estimated Shipping Weight	**468lbs. (212kgs.)**
60		Estimated Shipping Dimensions	**28" x 24" x 23"**
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64			
65	* OPTIONAL	*Casing	**316SS, Super Duplex 2507**
66		*Rotating Assembly	**Super Duplex 2507**
67		*Thrust/Aux Lines	**Super Duplex 2507**
68		*Auxiliary Valve	**Super Duplex 2507**
69		*Pipe Connections	**Flanges**
70			
71			

Notes:

Flow capacities are typical or nominal for the selected model. Variations in pressures may shift the flow capacities up or down. Please contact ERI for final sizing. ERI reserves the right to make specification changes at any time without prior notice.

PRICE: sales@energyrecovery.com

Authorization:

MANUFACTURER: Energy Recovery Inc

MODEL: LPT-1000