

		1717 Doolittle Dr. San Leandro, CA 94577, USA Phone: 1-510-483-7370		Energy Recovery, Inc. Specifications Sheet PX L180		REV	BY	CKD	REVISION	DATE	
						00	KYK	AKP	Initial Release	9/13/24	
DESCRIPTION: TECHNICAL DATA SHEET, POSITIVE DISPLACEMENT ENERGY RECOVERY DEVICE				Sheet							
				Page 1 of 1							
				Document number:							
				80930-01							
1. Part number 40091				2. Service LPRO		3. Reference					
4	OPERATING CONDITIONS	Liquid	Brackish Water	46	TESTS	Performance	Standard				
5		Operating Temperature	33°F-120°F (0.6-49°C)	47		Rotation Speed Test	Standard				
6		Max. Temperature	120°F (49°C)	48		Dye Penetrant Test (ceramics)	Standard				
7		Specific Gravity	1.01	49		Cavitation Test	Standard				
8		Viscosity	0.991 cP @ 70°F (21.1°C)	50		Witnessed Test	Optional				
9		Flow range	100 - 180 gpm (23-41 m3/h)	51							
10		Maximum High-Pressure Inlet Flow	180 gpm (40.8 m3/hr)	52							
11		Maximum Low-Pressure Outlet Flow	180 gpm (40.8 m3/hr)	53							
12		Maximum Inlet High Pressure	450 psi (31 bar)	54							
13		Maximum Inlet Low Pressure	150 psi (10.3 bar)	55							
14		Minimum Discharge Pressure	9 psi (.62 bar)	56							
15		Filtration Requirement (Nominal)	20 µm	57							
16				58		Outside Dimensions	Standard				
17				59		Internal Components	Standard				
18				60		Housing Dimensions	Standard				
19			61	Ceramic Dimensions	Standard						
20	PERFORMANCE	Peak Efficiency*	94%	62	INSPECTION	Material Certificates	Standard				
21		Maximum High Pressure Differential*	15.5 psi (1.07 bar)	63		Visual	Standard				
22		Maximum Low Pressure Differential*	14.5 psi (1.0 bar)	64		Packing and Crating	Standard				
23		Maximum Lubrication Flow*	2.74 gpm (0.62 m3/hr)	65							
24		Maximum Salinity Increase at Membranes*	3% @ 40% Recovery	66							
25		Noise Per ISO 3744*	Less Than 85 dB(A)	67							
26				68							
27				69							
28	MATERIALS	Housing**	GRP	70	SHIPPING WEIGHT AND DIMENSIONS	PX unit Shipping Dimensions	47x17x14 inch 119.3x43x35.5 cm				
29		Rotor, Sleeve, Endcover Assembly	Ceramic-alumina	71		PX unit Shipping Weight	205 lbs. (93.0 kg)				
30		Low Pressure Inlet Port Fitting	316 SS	72		Dry PX unit weight	196 lbs. (88.9 kg)				
31		Low Pressure Outlet Port Fitting	316 SS	73		Cartridge Shipping Dimensions	20x12x12 inch 50.8x30.5x30.5 cm				
32		High Pressure Inlet Port Fitting	316 SS	74		Cartridge Weight	65 lbs. (29 kg)				
33		High Pressure Outlet Port Fitting	316 SS	75		Shipping and Storage Temperature	33°F-120°F (0.6-49°C)				
34		Internal Low Pressure Interconnector	PVC	76							
35		Fasteners/Hardware (non-wetted)	316 SS	77							
36		Tension Rod Assembly	316 SS	78							
37		O-rings	EPDM	79							
38				80							
39			81								
40	PIPE CONNECTIONS	Low Pressure Inlet Port Fitting	3" Grooved-end Flexible Pipe Coupling	82	MISCELLANEOUS						
41		Low Pressure Outlet Port Fitting		83							
42		High Pressure Inlet Port Fitting		84							
43		High Pressure Outlet Port Fitting									
44											
45											

* Refer to document 80931-01 & 80008-07 for performance curves and definitions.

** Housing designed in accordance with the engineering standards of the Boiler and Pressure Vessel Code of the American Society of Mechanical Engineers.

ERI RESERVES THE RIGHT TO MAKE SPECIFICATION CHANGES AT ANY TIME WITHOUT PRIOR NOTICE.

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MANUFACTURER: Energy Recovery Inc

MODEL: PX L180