

		1717 Doolittle Dr. San Leandro, CA 94577, USA Phone: 1-510-483-7370	Energy Recovery, Inc. Specifications Sheet PX L140		REV	BY	CKD	REVISION	DATE
					00	KYK	AKP	Initial Release	12/12/24
DESCRIPTION: TECHNICAL DATA SHEET, POSITIVE DISPLACEMENT ENERGY RECOVERY DEVICE			Sheet Page 1 of 1						
			Document number: 80933-01						
1. Part number 40092			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	90 - 140 gpm (20.4-31.8 m3/h)	51					
10		Maximum High-Pressure Inlet Flow	140 gpm (31.8 m3/hr)	52					
11		Maximum Low-Pressure Outlet Flow	140 gpm (31.8 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*	95%	62	INSPECTION	Material Certificates		Standard	
21		Maximum High Pressure Differential*	8.7 psi (0.60 bar)	63		Visual		Standard	
22		Maximum Low Pressure Differential*	8.4 psi (0.58 bar)	64		Packing and Crating		Standard	
23		Maximum Lubrication Flow*	2.0 gpm (0.45 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		47x17x17 inch 119.3x43x43 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 80934-01 & 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.									
PRICE: sales@energyrecovery.com									
MANUFACTURER: Energy Recovery Inc			MODEL: PX L140						