

		1717 Doolittle Dr. San Leandro, CA 94577, USA Phone: 1-510-483-7370 FAX: 1-510-483-7371	Energy Recovery, Inc. Specifications Sheet PX-Q180		REV	BY	CKD	REVISION	DATE
					0	AKP	RAB	Initial Release	4/12/2018
DESCRIPTION: TECHNICAL DATA SHEET, POSITIVE DISPLACEMENT ENERGY RECOVERY DEVICE			Sheet Page 1 of 1						
			Document number: 80660-01						
1. Part number 40050			2. Service SWRO		3. Reference				
4	OPERATING CONDITIONS	Liquid	Seawater	46	TESTS	Performance	Standard		
5		Operating Temperature	33°F-120°F (0.6-49°C)	47		Case Hydrotest	Standard		
6		Max. Temperature	120°F (49°C)	48		Rotation Speed Test	Standard		
7		Specific Gravity	1.03	49		Die Penetrant Test (ceramics)	Standard		
8		Viscosity	1.060 cP @ 70°F (21.1°C)	50		Cavitation Test	Standard		
9		Flow range	100-180 gpm (22.7-40.8 m3/hr)	51		Witnessed Test	Optional		
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	1200 psi (82.7 bar)	54					
13		Maximum Inlet Low Pressure	300 psi (20.7 bar)	55					
14	PERFORMANCE	Minimum Discharge Pressure	12 psi (0.8 bar)	56	INSPECTION				
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		Peak Efficiency	97%	62		Material Certificates	Standard		
21		Maximum High Pressure Differential	14.1 psi (0.97 bar)	63		Visual	Standard		
22		Maximum Low Pressure Differential	11.8 psi (0.81 bar)	64		Packing and Crating	Standard		
23		Maximum Lubrication Flow	2.6 gpm (0.59 m3/hr)	65					
24	MATERIALS	Maximum Rotational Speed	1400 rpm @ 180 gpm	66	SHIPPING WEIGHT AND DIMENSIONS				
25		Maximum Salinity Increase at Membranes	2.5% @ 40% Recovery	67					
26		Noise Per ISO 3744	Less Than 85 dB(A)	68					
27		Warranted Efficiency***	96.3%	69					
28		Housing**	GRP	70		PX unit Shipping Dimensions	47x17x14 inch 119.3 43x35.5 cm		
29		Rotor, Sleeve, Endcover Assembly	Ceramic-alumina	71		PX unit Shipping Weight	196 lbs. (88.9 kg)		
30		Low Pressure Inlet Port Fitting	CN3MN	72		Dry PX unit weight	185 lbs. (83.9 kg)		
31		Low Pressure Outlet Port Fitting	CN3MN	73		Cartridge Shipping Dimensions	20x12x12 inch 50.8x30.5x30.5 cm		
32		High Pressure Inlet Port Fitting	CN3MN	74		Cartridge Weight	65 lbs. (29 kg)		
33		High Pressure Outlet Port Fitting	CN3MN	75		Shipping and Storage Temperature	33°F-120°F (0.6-49°C)		
34	PIPING CONNECTIONS	Internal Low Pressure Interconnector	Titanium, AL6XN*, or Super Duplex	76	MISCELLANEOUS				
35		Fasteners/Hardware (non-wetted)	316SS	77					
36		Tension Rod Assembly*	AL-6XN* / C-276	78					
37		O-rings	EPDM	79					
38				80					
39		Low Pressure Inlet Port Fitting	3" Grooved-end Flexible Pipe Coupling	81					
40		Low Pressure Outlet Port Fitting		82					
41		High Pressure Inlet Port Fitting		83					
42		High Pressure Outlet Port Fitting		84					
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*AL-6XN is a registered trademark of Allegheny Ludlum **Housing designed in accordance with the engineering standards of the Boiler and Pressure Vessel Code of the American Society of Mechanical Engineers. ***The standardized efficiency test is conducted under conditions of balanced flow, 1000psi pressure and the mid-flow for the PX model under test. ERI RESERVES THE RIGHT TO MAKE SPECIFICATION CHANGES AT ANY TIME WITHOUT PRIOR NOTICE.									
PRICE: sales@energyrecovery.com									
MANUFACTURER: Energy Recovery Inc					MODEL: PX-Q180				