

		1717 Doolittle Dr. San Leandro, CA 94577, USA Phone: 1-510-483-7370 FAX: 1-510-483-7371	Energy Recovery, Inc. Specifications Sheet PX-70SB		REV	BY	CKD	REVISION	DATE
DESCRIPTION: TECHNICAL DATA SHEET, POSITIVE DISPLACEMENT ENERGY RECOVERY DEVICE		Sheet Page 1 of 1		00	JMP	JGM	Initial Release	4/1/09	
				01	RC	RBC	Updated Filtration	8/5/10	
		Document number: 80161-01		02	KYK	DKH	Updated Performance and Format	6/7/22	
1. Part number 40019-02			2. Service BWRO		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	40 - 70 gpm (9.1-15.9 m3/h)	51					
10		Maximum High-Pressure Inlet Flow	70 gpm (15.9 m3/h)	52					
11		Maximum Low-Pressure Outlet Flow	70 gpm (15.9 m3/h)	53					
12		Maximum Inlet High Pressure	400 psi (27.6 bar)	54					
13		Maximum Inlet Low Pressure	150 psi (10.3 bar)	55					
14		Minimum Discharge Pressure	14.5 psi (1 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	93%	62	INSPECTION	Material Certificates	Standard		
21		Maximum High Pressure Differential	15 psi (1 bar)	63		Visual	Standard		
22		Maximum Low Pressure Differential	16 psi (1.1 bar)	64		Packing and Crating	Standard		
23		Maximum Lubrication Flow	1.3 gpm (.3 m3/hr)	65					
24		Maximum Salinity Increase at Membranes	3% @ 40% Recovery	66					
25		Noise Per ISO 3744	83 dB (A)	67					
26				68					
27				69					
28	MATERIALS	Housing	GRP	70	SHIPPING WEIGHT AND DIMENSIONS	PX unit Shipping Dimensions	30x11x12 inch 76x28x30 cm		
29		Rotor, Sleeve, Endcover Assembly	Ceramic-alumina	71		PX unit Shipping Weight	55 lbs. (25 kg)		
30		Low Pressure Inlet Port Fitting	GRP	72		Dry PX unit weight	46 lbs. (21 kg)		
31		Low Pressure Outlet Port Fitting	GRP	73		Cartridge Shipping Dimensions	15x11x12 inch 38x28x30 cm		
32		High Pressure Inlet Port Fitting	254 SMO*	74		Cartridge Weight	15 lbs. (7 kg)		
33		High Pressure Outlet Port Fitting	254 SMO*	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)	316SS	77					
36		Tension Rod Assembly*	Ti / C-276	78					
37		O-rings	EPDM	79					
38			80	MISCELLANEOUS					
39			81						
40	Low Pressure Inlet Port Fitting	1-1/2" Grooved-end Flexible Pipe Coupling	82						
41	Low Pressure Outlet Port Fitting		83						
42	High Pressure Inlet Port Fitting		84						
43	High Pressure Outlet Port Fitting								
44									
45									
* 254 SMO is a registered trademark of Avesta Sheffield Aktiebolag Corporation									
ERI RESERVES THE RIGHT TO MAKE SPECIFICATION CHANGES AT ANY TIME WITHOUT PRIOR NOTICE.									
PRICE: sales@energyrecovery.com									
MANUFACTURER: Energy Recovery Inc			MODEL: PX-70SB						