

		1717 Doolittle Dr. San Leandro, CA 94577, USA Phone: 1-510-483-7370 FAX: 1-510-483-7371	Energy Recovery, Inc. Specifications Sheet PX-45SB		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: 80161-02		02	KYK	DKH	Updated Performance and Format	6/7/22
1. Part number 40019-01			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	30 - 45 gpm (6.8-10 m3/h)	51						
10		Maximum High-Pressure Inlet Flow	45 gpm (10 m3/h)	52						
11		Maximum Low-Pressure Outlet Flow	45 gpm (10 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	10 psi (.7 bar)	63		Visual	Standard			
22		Maximum Low Pressure Differential	11 psi (.8 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						
39				81						
40	PIPE CONNECTIONS	Low Pressure Inlet Port Fitting	1-1/2" 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										
* 254 SMO is a registered trademark of Avesta Sheffield Aktiebolag Corporation										
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PRICE: sales@energyrecovery.com										
MANUFACTURER: Energy Recovery Inc			MODEL: PX-45SB							