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**Energy Recovery, Inc.
Specifications Sheet
PX-300**

REV	BY	CKD	REVISION	DATE
0	JMP	RLS	Preliminary release	7/2/09
1	JMP	RLS	Performance update	9/30/2009
2	JGM	RBC	Performance update	6/8/2010

DESCRIPTION:
TECHNICAL DATA SHEET, POSITIVE
DISPLACEMENT ENERGY RECOVERY
DEVICE

Sheet
Page 1 of 1
Document number:
80179-01

1. Part number 40027			2. Service		3. Reference		
OPERATING CONDITIONS	4	Liquid	Seawater	45	Performance	Standard	
	5	Operating Temperature	33°F-120°F (0.6-49°C)	46	Case Hydrotest	Standard	
	6	Max. Temperature	120°F (49°C)	47	Rotation Speed Test	Standard	
	7	Specific Gravity	1.03	48	Die Penetrant Test (ceramics)	Standard	
	8	Viscosity	1.060 cP @ 70°F (21.1°C)	49	Cavitation Test	Standard	
	9	Flow range	200 - 300 gpm (45 - 68m3/h)	50	Witnessed Test	Optional	
				51			
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				57			
				58	Outside Dimensions	Standard	
				59	Internal Components	Standard	
				60	Housing Dimensions	Standard	
	PERFORMANCE	19	Peak Efficiency	98%	61	Ceramic Dimensions	Standard
		20	Maximum High Pressure Differential	14.5 psi (1 bar) @ 300 gpm	62	Material Certificates	Standard
21		Maximum Low Pressure Differential	14.5 psi (1 bar) @ 300 gpm	63	Visual	Standard	
22		Maximum Lubrication Flow	4.4 gpm (1 m3/h) @ 300 gpm	64	Packing and Crating	Standard	
23		Maximum Rotational Speed	800 rpm @ 300 gpm	65			
24		Maximum Salinity Increase at Membranes	3% @ 40% Recovery	66			
25		Sound level	93 dBA	67			
26				68			
MATERIALS	27	Housing	GRP**	69	SHIPPING WEIGHT AND DIMENSIONS	PX-300 unit Shipping Dimensions	47x17x17 inch 119x43x43 cm
	28	Rotor, Sleeve, Endcover Assembly	Ceramic-alumina	70		PX-300 unit Shipping Weight	205 lbs. (93 kg)
	29	Low Pressure Inlet Port Fitting	PVC	71		Dry PX-300 unit weight	195 lbs. (88 kg)
	30	Low Pressure Outlet Port Fitting	PVC	72		Cartridge Shipping Dimensions	20x12x12 inch 51x31x31 cm
	31	High Pressure Inlet Port Fitting	Superduplex	73		Cartridge Weight	44 lbs. (20 kg)
	32	High Pressure Outlet Port Fitting	Superduplex	74		Shipping and Storage Temperature	33°F-120°F (0.6-49°C)
	33	Internal Low Pressure Interconnector	Titanium	75			
	34	Fasteners/Hardware (non-wetted)	316SS	76			
	35	Tension Rod Assembly	AL-6XN* / C-276	77			
	36	O-rings	EPDM	78			
PIPING CONNECTIONS	37			79	MISCELLANEOUS		
	38	Low Pressure Inlet Port Fitting	4" (DN100) Grooved-end Flexible Pipe Coupling	80			
	39	Low Pressure Outlet Port Fitting		81			
	40	High Pressure Inlet Port Fitting	3" (DN80) Grooved-end Flexible Pipe Coupling	82			
	41	High Pressure Outlet Port Fitting		83			
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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.
 ERI RESERVES THE RIGHT TO MAKE SPECIFICATION CHANGES AT ANY TIME WITHOUT PRIOR NOTICE.

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MANUFACTURER: Energy Recovery Inc

MODEL: PX-300