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

REV	BY	CKD	REVISION	DATE
0	JMP	RLS	Preliminary release	7/2/09

DESCRIPTION:
TECHNICAL DATA SHEET, POSITIVE
DISPLACEMENT ENERGY RECOVERY
DEVICE

Sheet
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Document number:
80179-01

1. Part number 40025-01			2. Service		3. Reference			
OPERATING CONDITIONS	4	Liquid	Seawater	44	TESTS	Performance	Standard	
	5	Operating Temperature	33°F-120°F (0.6-49°C)	45		Case Hydrotest	Standard	
	6	Max. Temperature	120°F (49°C)	46		Rotation Speed Test	Standard	
	7	Specific Gravity	1.03	47		Die Penetrant Test (ceramics)	Standard	
	8	Viscosity	1.060 cP @ 70°F (21.1°C)	48		Cavitation Test	Standard	
	9	Maximum High-Pressure Inlet Flow	300 gpm (68 m3/hr)	49		Witnessed Test	Optional	
	10	Maximum Low-Pressure Outlet Flow	300 gpm (68 m3/hr)	50				
	11	Maximum Outlet High Pressure	1200 psig (82.7 bar)	51				
	12	Maximum Outlet Low Pressure	300 psig (20.7 bar)	52				
	13	Maximum Inlet High Pressure	1200 psig (82.7 bar)	53				
	14	Minimum Inlet Low Pressure	N/A	54		Outside Dimensions	Standard	
	PERFORMANCE	15	Minimum Discharge Pressure	12 psig (0.8 bar)		55	Internal Components	Standard
		16	Filtration Requirement (Nominal)	10 µm		56	Housing Dimensions	Standard
17				57	Ceramic Dimensions	Standard		
18		Peak Efficiency	98%	58	Material Certificates	Standard		
19		Maximum High Pressure Differential	17 psig (1.2 bar) @ 300 gpm	59	Visual	Standard		
20		Maximum Low Pressure Differential	14 psig (0.97 bar) @ 300 gpm	60	Packing and Crating	Standard		
21		Maximum Lubrication Flow	4.4 gpm (1 m3/hr)	61				
22		Maximum Rotational Speed	850 rpm	62				
MATERIALS	23	Maximum Salinity Increase at Membranes	3% @ 40% Recovery	63	INSPECTION			
	24	Sound level	94 dBA	64				
	25			65				
	26	Housing	**GRP	66		SHIPPING WEIGHT AND DIMENSIONS	PX-300 unit Shipping Dimensions	47x17x17 inch 119.3x43x43 cm
	27	Rotor, Sleeve, Endcover Assembly	Ceramic-alumina	67			PX-300 unit Shipping Weight	205 lbs. (93 kg)
	28	Low Pressure Inlet Port Fitting	PVC	68			Dry PX-300 unit weight	195 lbs. (88 kg)
	29	Low Pressure Outlet Port Fitting	PVC	69				
	30	High Pressure Inlet Port Fitting	Superduplex	70			Cartridge Shipping Dimensions	20x12x12 inch 50.8x30.5x30.5 cm
	31	High Pressure Outlet Port Fitting	Superduplex	71			Cartridge Weight	44 lbs. (20 kg)
	32			72			Shipping and Storage Temperature	33°F-120°F (0.6-49°C)
33	Internal Low Pressure Interconnector	Titanium, *AL6XN or Super Duplex	73					
34	Fasteners/Hardware (non-wetted)	316SS	74					
35	Tension Rod Assembly	*AL-6XN / C-276	75					
PIPING CONNECTIONS	36	O-rings	EPDM	76	MISCELLANEOUS			
	37	Low Pressure Inlet Port Fitting	4" (DN100) Grooved-end Flexible Pipe Coupling	77				
	38	Low Pressure Outlet Port Fitting	3" (DN80) Grooved-end Flexible Pipe Coupling	78				
	39	High Pressure Inlet Port Fitting	4" (DN100) Grooved-end Flexible Pipe Coupling	79				
	40	High Pressure Outlet Port Fitting	3" (DN80) Grooved-end Flexible Pipe Coupling	80				
	41			81				
	42			82				
	43			83				

*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