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**Energy Recovery,
Inc. Pressure
Exchanger
PX - 180**

REV	BY	CKD	REVISION	DATE
0	RBC	RLS	Issued for distribution	3/30/2004
SHEET				
1 of 1				
Document Number				
80005-01				
MANUFACTURER				
ERI				

DESCRIPTION:
**TECHNICAL DATA SHEET,
POSITIVE DISPLACEMENT ENERGY
RECOVERY DEVICE**

1. Tag:	2. Service:	3. Reference:
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Item No.	Category	Property	Value	Item No.	Category	Property	Value	Yes/No	
4	OPERATING CONDITIONS	Liquid	Seawater	42	TEST	Manufacturer's Std.		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5		Operating Temperature	33°F-113°F (0.6-45°C)	43		Performance		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
6		Max Temperature	113°F (45°C)	44		Case Hydrotest		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
7		Specific Gravity	1025.18 kg/cu.m	45		Dismantle and Inspection		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
8		Vapor Pressure [psia]	water=1.0 @ 100°F	46		Cavitation Test		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
9		Viscosity (cP)	1.060 cP @ 70°F	47		Vibration Test		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
10		High Pressure Inlet Max. Rated Flow [gpm]	180 gpm (41m3/hr)	48		Witnessed Test		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
11		Low Pressure Outlet Max. Rated Flow [gpm]	180 gpm (41m3/hr)	49					
12		Rated Max. High Pressure [psig]	1200 psig (82.7 bar)	50	INSPECTIONS	Piping Dimensions		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
13		Rated Max. Low Pressure [psig]	150 psig (10.3 bar)	51		Port Connections		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
14		Maximum High Pressure Suction [psig]	1200 psig (82.7 bar)	52		Vessel Housing Dimensions		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
15		Minimum Low Pressure Suction [psig]	29 psig (2 bar)	53		Ceramic Dimensions		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
16		Minimum Discharge Pressure (MDP)	14.5 psig (1 bar)	54					
17		Peak Efficiency [%]	97%	55					
18		PERFORMANCE	High Pressure Flow Differential [psig]	15 psig @ 180 gpm(41m3/hr)	56	SHIPPING WEIGHT & DIMENSIONS	PX180 Shipping Dimensions	48" x 17" x 13"	
19			Low Pressure Flow Differential [psig]	11 psig @ 180 gpm(41m3/hr)	57		PX180 Shipping Weight	205 lbs. (93 kgs.)	
20	Maximum Lubrication Flow [gpm]		6.5 gpm(1.5 m3/hr)	58	Cartridge Weight				
21	Maximum Speed [rpm]		1400 rpm	59	Cartridge Shipping Dimensions		19" x 11" x 12"		
22	Salinity Increase at Membranes at 40% Recovery		2-3%	60	Spare Parts Kit Weight				
23	Maximum Noise Allowable [dBA]		94 dBA	61	Spare Parts Kit Dimensions				
24				62	65 Series Tool Kit Weight				
25				63	65 Series Tool Kit Dimensions				
26	MATERIALS	**Vessel/ Housing	**GRP	64	MISCELLANEOUS				
27		Rotor, Sleeve, Endcover Assembly	Ceramics-alumina	65					
28		*Low Pressure Inlet Port Fitting	*AL-6XN	66					
29		*Low Pressure Outlet Port Fitting	*AL-6XN	67					
30		*High Pressure Inlet Port Fitting	*AL-6XN	68					
31		*High Pressure Outlet Port Fitting	*AL-6XN	69					
32		Internal Low Pressure Nipple	Titanium/*AL-6XN	70					
33		Fasteners/Hardware (non-wetted)	316SS	71					
34	Tension Rod Assembly	C-276	72						
35	O-rings	EPDM	73						
36	PIPING CONNECTIONS	Low Pressure Inlet Port Fitting	3" flexible type	74					
37		Low Pressure Outlet Port Fitting	3" flexible type	75					
38		High Pressure Inlet Port Fitting	3" flexible type	76					
39		High Pressure Outlet Port Fitting	3" flexible type	77					
40				78					
41			79						

*AL-6XN is a Registered trademark of Allegheny Ludlum

**Vessel designed in accordance with the engineering standards of the Boiler and Pressure Vessel Code of the American Society of Mechanical Engineers. Vessels can be inspected during construction by an ASME Authorized Inspector and ASME Code stamped for an additional cost.

ERI RESERVES THE RIGHT TO MAKE SPECIFICATIONS CHANGES AT ANY TIME WITHOUT PRIOR NOTICE.

PRICE:	sales@energy-recovery.com	SHIPPING:		DELIVERY:	
MANUFACTURER:	Energy Recovery, Inc.	MODEL NO.	PX-180	WEIGHT:	175 lbs.