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**Energy Recovery,
Inc. Pressure
Exchanger
PX - 30S**

REV	BY	CKD	REVISION	DATE
0	JMP	RLS	Issued for Review	3/7/2007
SHEET 1 of 1				
Document Number 80080-01				
MANUFACTURER ERI				

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

1. Tag:	2. Service:	3. Reference:
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Item No.	Category	Description	Value	Item No.	Category	Description	Value	Yes	No	
4	OPERATING CONDITIONS	Liquid	Seawater	42	TEST	Manufacturer's Std.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5		Operating Temperature	33°F-120°F (0.6-49°C)	43		Performance		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6		Max Temperature	120°F (49°C)	44		Case Hydrotest		<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7		Specific Gravity	1025.18 kg/cu.m	45		Dismantle and Inspection		<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8		Viscosity	1.060 cP @ 70°F	46		Cavitation Test		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9		Maximum High-Pressure Inlet Flow	30 gpm (6.8 m³/hr)	47		Vibration Test		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
10		Maximum Low-Pressure Outlet Flow	30 gpm (6.8 m³/hr)	48		Witnessed Test		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11		Maximum Outlet High Pressure	1200 psig (82.7 bar)	49						
12		Maximum Outlet Low Pressure	150 psig (10.3 bar)	50		INSPECTIONS	Piping Dimensions		<input checked="" type="checkbox"/>	<input type="checkbox"/>
13		Maximum Inlet High Pressure	1200 psig (82.7 bar)	51			Port Connections		<input checked="" type="checkbox"/>	<input type="checkbox"/>
14		Minimum Inlet Low Pressure	N/A	52			Vessel Housing Dimensions		<input checked="" type="checkbox"/>	<input type="checkbox"/>
15		Minimum Discharge Pressure	14.5 psig (1 bar)	53			Ceramic Dimensions		<input checked="" type="checkbox"/>	<input type="checkbox"/>
16		Filtration Requirement (Nominal)	5 µm	54						
17		PERFORMANCE	Peak Efficiency	96%			55			
18			Maximum High Pressure Differential	16 psig (1.1 bar)			56			
19			Maximum Low Pressure Differential	15 psig (1.0 bar)			57			
20	Maximum Lubrication Flow		1.3 gpm (0.3 m³/hr)	58						
21	Maximum Speed		1400 rpm	59						
22	Maximum Salinity Increase at Membranes		4% @ 40% recovery	60	SHIPPING WEIGHT & DIMENSIONS	Shipping Dimensions	30" x 12" x 10"			
23	Maximum Noise Allowable	86 dBA	61	Shipping Weight		55 lbs.				
24			62	Cartridge Weight						
25			63	Cartridge Shipping Dimensions						
26	MATERIALS	Housing	GRP	64		Spare Parts Kit Weight				
27		Rotor, Sleeve, Endcover Assembly	Ceramics-alumina	65	Spare Parts Kit Dimensions					
28		Low Pressure Inlet Port Fitting	AL-6XN *	66	Tool Kit Weight					
29		Low Pressure Outlet Port Fitting	AL-6XN *	67	Tool Kit Dimensions					
30		High Pressure Inlet Port Fitting	254 SMO **	68						
31		High Pressure Outlet Port Fitting	254 SMO **	69						
32		Access Cover, Vessel Endclosure	GRP	70	MISCELLANEOUS					
33		Fasteners/Hardware (non-wetted)	316SS	71						
34	Tension Rod Assembly	Titanium	72							
35	O-rings	EPDM	73							
36	PIPING CONNECTIONS	Low Pressure Inlet Port Fitting	1-1/2" flexible type	74						
37		Low Pressure Outlet Port Fitting	1-1/2" flexible type	75						
38		High Pressure Inlet Port Fitting	1-1/2" flexible type	76						
39		High Pressure Outlet Port Fitting	1-1/2" flexible type	77						
40				78						
41			79							

*AL-6XN is a registered trademark of Allegheny Ludlum ** 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@energy-recovery.com	SHIPPING:	DELIVERY:
MANUFACTURER: Energy Recovery, Inc.	MODEL NO. PX-30S	WEIGHT: 48 lbs.