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**Energy Recovery,
Inc. Pressure
Exchanger
PX - 140S**

REV	BY	CKD	REVISION	DATE
0	RBC	RLS	Issued for distribution	6/24/2004
1	IBC	RLS	Added filter requirement	3/7/2007

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

SHEET
1 of 1
Document Number
80029-01
MANUFACTURER
ERI

Part Number	40012-01-2	Service:	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	water=1.0 @ 100°F (37.8°C)	45		Dismantle and Inspection		<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8		Viscosity	1.060 cP @ 70°F (21.1°C)	46		Cavitation Test		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9		Maximum High-Pressure Inlet Flow	140 gpm (31.8 m ³ /hr)	47		Vibration Test		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
10		Maximum Low-Pressure Outlet Flow	140 gpm (31.8 m ³ /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				55						
18		PERFORMANCE	Peak Efficiency	96%			56			
19			Maximum High Pressure Differential	19 psig (1.3 bar) @ 140 gpm		57				
20			Maximum Low Pressure Differential	18 psig (1.2 bar) @ 140 gpm		58				
21	Maximum Lubrication Flow		3.9 gpm (0.89 m ³ /hr)	59						
22	Maximum Speed		1500 rpm	60	SHIPPING WEIGHT & DIMENSIONS	PX-220 Shipping Dimensions	46" x 11" x 12"			
23	Maximum Salinity Increase at Membranes		3% @ 40% recovery	61		PX-220 Shipping Weight	105 lbs. (48 kgs.)			
24	Maximum Noise Allowable		91 dBA	62		Cartridge Weight				
25			63	Cartridge Shipping Dimensions						
26	** 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	AL-6XN*	68							
31	High Pressure Outlet Port Fitting	254 SMO ²	69	MISCELLANEOUS						
32	Access Cover, Vessel Endclosure	GRP	70							
33	Internal Low Pressure Interconnector/nipple	Titanium	71							
34	Fasteners/Hardware (non-wetted)	316SS	72							
35	Tension Rod Assembly	Titanium	73							
36	O-rings	EPDM	74							
37	PIPE CONNECTIONS	Low Pressure Inlet Port Fitting	1-1/2" flexible type		75					
38		Low Pressure Outlet Port Fitting	2" flexible type		76					
39		High Pressure Inlet Port Fitting	2" flexible type		77					
40		High Pressure Outlet Port Fitting	1-1/2" flexible type		78					
41					79					

*AL-6XN is a registered trademark of Allegheny Ludlum; ² 254 SMO is a registered trademark of Avesta Sheffield Aktiebolag Corporation
 **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.

PRICE: sales@energy-recovery.com	SHIPPING:	DELIVERY:
MANUFACTURER: Energy Recovery, Inc.	MODEL NO. PX-140S	WEIGHT: 105 lbs. (48 kgs.)