



1908 Doolittle Dr.
San Leandro, CA
94577, USA
Phone: 510-483-7370
FAX: 510-483-7371

**Energy Recovery,
Inc. Pressure
Exchanger
PX - 70S**

REV	BY	CKD	REVISION	DATE
0	RBC	RLS	Issued for distribution	6/24/2004
SHEET 1 of 1				
Document Number 80031-01				
MANUFACTURER ERI				

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

1. Tag:	2. Service:	3. Reference:
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OPERATING CONDITIONS	4	Liquid	Seawater	42	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]	70 gpm (15.9m3/hr)	48	Witnessed Test	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
	11	Low Pressure Outlet Max. Rated Flow [gpm]	70 gpm (15.9m3/hr)	49				
	12	Rated Max. High Pressure [psig]	1200 psig (82.7 bar)	50	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]	N/A	53	Ceramic Dimensions	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
	16	Minimum Discharge Pressure (MDP)	14.5 psig (1 bar)	54				
	PERFORMANCE	17	Peak Efficiency [%]	96%	55			
		18	High Pressure Flow Differential Max. [psig]	18 psig (1.2 bar)	56			
		19	Low Pressure Flow Differential Max. [psig]	15 psig (1.0 bar)	57			
20		Maximum Lubrication Flow [gpm]	1.80 gpm (0.41m3/hr)	58				
21		Maximum Speed [rpm]	1500 rpm	59				
22		Salinity Increase at Membranes at 40% Recovery	2-3%	60	Shipping Dimensions	30" x 12" x 10"		
MATERIALS	23	Maximum Noise Allowable [dBA]	87 dBA	61	Shipping Weight	55 lbs.		
	24			62	Cartridge Weight			
	25			63	Cartridge Shipping Dimensions			
	26	Vessel/ 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	254SMO	68				
	31	High Pressure Outlet Port Fitting	254SMO	69				
	32	Access Cover, Vessel Endclosure	GRP	70				
PIPING CONNECTIONS	33	Fasteners/Hardware (non-wetted)	316SS	71				
	34	Tension Rod Assembly	Titanium	72				
	35	O-rings	EPDM	73				
	36	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

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-70S	WEIGHT: 55 lbs.