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**Energy Recovery, Inc.
Pressure Exchanger
Specifications Sheet
PX-260**

REV	BY	CKD	REVISION	DATE
0	IBC	RLS	Issued for distribution	11/2/07
1	JMP	IBC	Revised HPDP and lub flow	7/7/2008
2	JMP	JGM	Update test, inspection & weights sections	3/10/2009

DESCRIPTION:
TECHNICAL DATA SHEET, POSITIVE
DISPLACEMENT ENERGY RECOVERY
DEVICE

Sheet
Page 1 of 1
Document number:
80087-01

1. Part number 40009			2. Service		3. Reference	
OPERATING CONDITIONS	4	Liquid	Seawater	44	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	1025.18 kg/cu.m	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	260 gpm (59 m3/hr)	49	Witnessed Test	Optional
	10	Maximum Low-Pressure Outlet Flow	260 gpm (59 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
	15	Minimum Discharge Pressure	9 psig (0.6 bar)	55	Internal Components	Standard
	16	Filtration Requirement (Nominal)	10µm	56	Housing Dimensions	Standard
	17			57	Ceramic Dimensions	Standard
PERFORMANCE	18	Peak Efficiency	98%	58	Material Certificates	Standard
	19	Maximum High Pressure Differential	20 psig (1.4 bar) @ 260 gpm	59	Visual	Standard
	20	Maximum Low Pressure Differential	14 psig (0.97 bar) @ 260 gpm	60	Packing and Crating	Standard
	21	Maximum Lubrication Flow	3.8 gpm (0.78 m3/hr)	61		
	22	Maximum Rotational Speed	1400 rpm	62		
	23	Maximum Salinity Increase at Membranes	3% @ 40% Recovery	63		
	24	Sound level	94 dBA	64		
	25			65		
MATERIALS	26	Housing	**GRP	66	PX-260 unit Shipping Dimensions	47x17x14 inch 119.3 43x35.5 cm
	27	Rotor, Sleeve, Endcover Assembly	Ceramic-alumina	67		
	28	Low Pressure Inlet Port Fitting	CN3MN	68	Cartridge Shipping Dimensions	20x12x12 inch 50.8x30.5x30.5 cm
	29	Low Pressure Outlet Port Fitting	CN3MN	69		
	30	High Pressure Inlet Port Fitting	CN3MN	70	PX-260 unit Shipping Weight	196 lbs. (88.9 kg)
	31	High Pressure Outlet Port Fitting	CN3MN	71	Cartridge Weight	65 lbs. (29 kg)
	32	Internal Low Pressure Interconnector	Titanium, *AL6XN or Super Duplex	72	Dry PX-260 unit weight	185 lbs. (83.9 kg)
	33			73		
	34	Fasteners/Hardware (non-wetted)	316SS	74		
	35	Tension Rod Assembly	*AL-6XN / C-276	75		
36	O-rings	EPDM	76			
PIPING CONNECTIONS	37	Low Pressure Inlet Port Fitting	3" Grooved-end Flexible Pipe Coupling	77	MISCELLANEOUS	
	38	Low Pressure Outlet Port Fitting		78		
	39	High Pressure Inlet Port Fitting		79		
	40	High Pressure Outlet Port Fitting		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-260