

		1717 Doolittle Dr. San Leandro, CA 94577, USA Phone: 1-510-483-7370 FAX: 1-510-483-7371	Energy Recovery, Inc. Specifications Sheet PX-Q300	REV 02 03 04 05 06 07 08	BY RBC RAB RAB RAB YR AKP SW	CKD RAB RBC RBC DKH SB RF MP	REVISION Corrected typo Updated logo & Material for LP ports Updated P/N Updated Performance Section Added Normalizing Temp. Note Revised Max. speed Revised References	DATE 3/13/2012 8/28/2014 2/2/2015 6/27/2019 10/25/2021 7/16/2024 6/18/2025
DESCRIPTION: TECHNICAL DATA SHEET, POSITIVE DISPLACEMENT ENERGY RECOVERY DEVICE			Document number: 80315-01					
1. Part number 40037			2. Service	3. Reference				
OPERATING CONDITIONS	4	Liquid	Seawater	46	TESTS	Performance	Standard	
	5	Operating Temperature	33°F-120°F (0.6-49°C)	47		Case Hydrotest	Standard	
	6	Max. Temperature	120°F (49°C)	48		Rotation Speed Test	Standard	
	7	Specific Gravity	1.03	49		Cavitation Test	Standard	
	8	Viscosity	1.060 cP @ 70°F (21.1°C)	50		Witnessed Test	Optional	
	9	Flow range	200 - 300 gpm (45 - 68m3/h)	51				
	10	Maximum High-Pressure Inlet Flow	300 gpm (68 m3/h)	52				
	11	Maximum Low-Pressure Outlet Flow	300 gpm (68 m3/h)	53				
	12	Maximum Inlet High Pressure	1200 psi (82.7 bar)	54				
	13	Maximum Inlet Low Pressure	145 psi (10 bar)	55				
PERFORMANCE	14	Minimum Discharge Pressure	12 psi (0.8 bar)	56	INSPECTION	Outside Dimensions	Standard	
	15	Filtration Requirement (Nominal)	20 µm	57		Internal Components	Standard	
	16			58		Housing Dimensions	Standard	
	17			59		Ceramic Dimensions	Standard	
	18			60		Material Certificates	Standard	
	19			61		Visual	Standard	
	20	Peak Efficiency	98%	62		Packing and Crating	Standard	
	21	Maximum High Pressure Differential	14.5 psi (1 bar) @ 300 gpm	63				
	22	Maximum Low Pressure Differential	14.5 psi (1 bar) @ 300 gpm	64				
	23	Maximum Lubrication Flow	4.4 gpm (1 m3/h) @ 300 gpm	65				
MATERIALS	24	Maximum Rotational Speed	640 rpm @ 300 gpm	66	SHIPPING WEIGHT AND DIMENSIONS	PX-Q300 unit Shipping Dimensions	47x17x17 inch 119x43x43 cm	
	25	Salinity Increase at Membranes	Please see ERI Projections	67		PX-Q300 unit Shipping Weight	210 lbs. (95 kg)	
	26	Noise Per ISO 3744	Less Than 85 dB(A)	68		Dry PX-Q300 unit weight	200 lbs. (91 kg)	
	27	Warranted Efficiency***	97.2% at standard conditions	69		Cartridge Shipping Dimensions	20x12x12 inch 51x31x31 cm	
	28	Housing**	GRP	70		Cartridge Weight	49 lbs. (22 kg)	
	29	Rotor, Sleeve, Endcover Assembly	Ceramic-alumina	71		Shipping and Storage Temperature	33°F-120°F (0.6-49°C)	
	30	Low Pressure Inlet Port Fitting	Superduplex (S32750 OR S32760)	72				
	31	Low Pressure Outlet Port Fitting	Superduplex (S32750 OR S32760)	73				
	32	High Pressure Inlet Port Fitting	Superduplex (S32750 OR S32760)	74				
	33	High Pressure Outlet Port Fitting	Superduplex (S32750 OR S32760)	75				
PIPING CONNECTIONS	34	Internal Low Pressure Interconnector	Titanium	76	MISCELLANEOUS	Internal Volume	830 in ³ (13,601 cm ³)	
	35	Fasteners/Hardware (non-wetted)	316SS	77		Wet Weight	230 lbs. (104 kg)	
	36	Tension Rod Assembly*	AL-6XN* / C-276 / SUPER DUPLEX	78				
	37	O-rings	EPDM	79				
	38			80				
	39	Low Pressure Inlet Port Fitting	4" (DN100) Grooved-end Flexible Pipe Coupling	81				
	40	Low Pressure Outlet Port Fitting	3" (DN80) Grooved-end Flexible Pipe Coupling	82				
	41	High Pressure Inlet Port Fitting		83				
	42	High Pressure Outlet Port Fitting		84				
	43							
*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. ***The standard factory test is conducted under conditions of balanced flow, 1000-psi pressure, and the mid-flow for the PX model under test. For on-site performance warranty values, please refer to the ERI project specific projections. ERI RESERVES THE RIGHT TO MAKE SPECIFICATION CHANGES AT ANY TIME WITHOUT PRIOR NOTICE. NOTE: All LPDP, HPDP, Lube Flow, and Rotational Speed limit values apply to measured values normalized for 70 DegF water Temperature.								
PRICE: sales@energyrecovery.com								
MANUFACTURER: Energy Recovery Inc			MODEL: PX-Q300					