

		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	BY	CKD	REVISION	DATE
DESCRIPTION: TECHNICAL DATA SHEET, POSITIVE DISPLACEMENT ENERGY RECOVERY DEVICE			Sheet Page 1 of 1		2	RBC	RAB	Corrected typo	3/13/2012
					3	RAB	RBC	Updated logo & Material for LP ports	8/28/2014
			Document number: 80315-01		4	RAB	RBC	Updated P/N	2/2/2015
					5	RAB	DKH	Updated Performance Section	6/27/2019
1. Part number 40037			2. Service		3. Reference				
4	OPERATING CONDITIONS	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		Die Penetrant Test (ceramics)	Standard		
8		Viscosity	1.060 cP @ 70°F (21.1°C)	50		Cavitation Test	Standard		
9		Flow range	200 - 300 gpm (45 - 68m3/h)	51		Witnessed Test	Optional		
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					
14		Minimum Discharge Pressure	12 psi (0.8 bar)	56					
15		Filtration Requirement (Nominal)	20 µm	57					
16				58		Outside Dimensions	Standard		
17				59		Internal Components	Standard		
18				60		Housing Dimensions	Standard		
19				61		Ceramic Dimensions	Standard		
20	PERFORMANCE	Peak Efficiency	98%	62	INSPECTION	Material Certificates	Standard		
21		Maximum High Pressure Differential	14.5 psi (1 bar) @ 300 gpm	63		Visual	Standard		
22		Maximum Low Pressure Differential	14.5 psi (1 bar) @ 300 gpm	64		Packing and Crating	Standard		
23		Maximum Lubrication Flow	4.4 gpm (1 m3/h) @ 300 gpm	65					
24		Maximum Rotational Speed	1280 rpm @ 300 gpm	66					
25		Salinity Increase at Membranes	Please see ERI Projections	67					
26		Noise Per ISO 3744	Less Than 85 dB(A)	68					
27		Warranted Efficiency***	97.2% at standard conditions	69					
28	MATERIALS	Housing**	GRP	70	SHIPPING WEIGHT AND DIMENSIONS	PX-Q300 unit Shipping Dimensions	47x17x17 inch 119x43x43 cm		
29		Rotor, Sleeve, Endcover Assembly	Ceramic-alumina	71		PX-Q300 unit Shipping Weight	210 lbs. (95 kg)		
30		Low Pressure Inlet Port Fitting	Superduplex (S32750 OR S32760)	72		Dry PX-Q300 unit weight	200 lbs. (91 kg)		
31		Low Pressure Outlet Port Fitting	Superduplex (S32750 OR S32760)	73		Cartridge Shipping Dimensions	20x12x12 inch 51x31x31 cm		
32		High Pressure Inlet Port Fitting	Superduplex (S32750 OR S32760)	74		Cartridge Weight	49 lbs. (22 kg)		
33		High Pressure Outlet Port Fitting	Superduplex (S32750 OR S32760)	75		Shipping and Storage Temperature	33°F-120°F (0.6-49°C)		
34		Internal Low Pressure Interconnector	Titanium	76					
35		Fasteners/Hardware (non-wetted)	316SS	77					
36		Tension Rod Assembly*	AL-6XN* / C-276	78					
37		O-rings	EPDM	79					
38				80					
39	PIPING CONNECTIONS	Low Pressure Inlet Port Fitting	4" (DN100) Grooved-end Flexible Pipe Coupling	81	MISCELLANEOUS	Internal Volume	830 in ³ (13,601 cm ³)		
40		Low Pressure Outlet Port Fitting	3" (DN80) Grooved-end Flexible Pipe Coupling	82		Wet Weight	230 lbs. (104 kg)		
41		High Pressure Inlet Port Fitting		83					
42		High Pressure Outlet Port Fitting		84					
43									
44									
45									
*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.									
PRICE: sales@energyrecovery.com									
MANUFACTURER: Energy Recovery Inc			MODEL: PX-Q300						