

		1717 Doolittle Dr. San Leandro, CA 94577, USA Phone: 1-510-483-7370	Energy Recovery, Inc. Specifications Sheet PX Q400		REV	BY	CKD	REVISION	DATE
					00	AKP	CD	Initial Release	12-Dec-22
					01	AKP	KYK	Updated Shipping Weights and dim. Added Interconnect Spacer Material	8-May-23
DESCRIPTION: TECHNICAL DATA SHEET, POSITIVE DISPLACEMENT ENERGY RECOVERY DEVICE			Sheet Page 1 of 1		02	AKP	KYK	Added warranted Eff. & Cavitation Test	2-Feb-24
			Document number: 80872-01		03	AKP	KYK	Updated Interconnect Material	12-Mar-24
					04	AKP	RF	Updated Performance	14-Oct-24
					05	SW	MP	Updated References	18-Jun-25
					06	YR	AKP	Updated Performance	2-Oct-25
1.Part number 40083 & 40085			2. Service SWRO		3. Reference				
4	OPERATING CONDITIONS	Liquid	Seawater	45	TESTS	Performance	Standard		
5		Operating Temperature	33°F-120°F (0.6-49°C)	46		Case Hydrotest	Standard		
6		Max. Temperature	120°F (49°C)	47		Rotation Speed Test	Standard		
7		Specific Gravity	1.03	48		Witnessed Test	Optional		
8		Viscosity	1.060 cP @ 70°F (21.1°C)	49		Cavitation Test	Standard		
9		Flow range	250 - 400 gpm (56.8-90.8 m3/h)	50					
10		Maximum High-Pressure Inlet Flow	400 gpm (90.8 m3/h)	51					
11		Maximum Low-Pressure Outlet Flow	400 gpm (90.8 m3/h)	52					
12		Maximum Inlet High Pressure	1200 psi (82.7 bar)	53					
13		Maximum Inlet Low Pressure	145 psi (10 bar)	54					
14	PERFORMANCE	Minimum Discharge Pressure *****	11.6 psi (0.8 bar)	55	INSPECTION				
15		Filtration Requirement (Nominal)	20 µm	56					
16				57		Outside Dimensions	Standard		
17				58		Internal Components	Standard		
18		Peak Efficiency *	98.6%	59		Housing Dimensions	Standard		
19		Maximum High Pressure Differential *	10.39 psi (0.72 bar)	60		Ceramic Dimensions	Standard		
20		Maximum Low Pressure Differential *	10.45 psi (0.72 bar)	61		Material Certificates	Standard		
21		Maximum Lubrication Flow *	3.24 gpm (0.74 m3/hr)	62		Visual	Standard		
22		Maximum Salinity Increase at Membranes *	See ERI projections	63		Packing and Crating	Standard		
23		Noise Per ISO 3744 *	Less Than 85 dB(A)	64					
24	MATERIALS	Warranted Efficiency ***	97.4% at standard conditions	65	SHIPPING WEIGHT AND DIMENSIONS				
25				66					
26				67					
27		Housing	GRP	68					
28		Rotor, Sleeve, Endcover Assembly	Ceramic-alumina	69		PX Q400 unit Shipping Dimensions	49.5X18X18 inch 125.7X45.7X45.7cm		
29		Low Pressure Inlet Port Fitting	2507 Super Duplex	70		PX Q400 unit Shipping Weight	370 lbs (167.8kg)		
30		Low Pressure Outlet Port Fitting	2507 Super Duplex	71		Dry PX Q400 unit weight	360 lbs. (164 kg)		
31		High Pressure Inlet Port Fitting	2507 Super Duplex	72		Wet PX Q400 unit weight	407 lbs. (184.6kg)		
32		High Pressure Outlet Port Fitting	2507 Super Duplex	73		Cartridge Shipping Dimensions	14X14X22 inch 35.6X35.6X55.8 cm		
33		Internal Low Pressure Interconnector****	2507 Super Duplex or better	74		Cartridge Weight	50 lbs. (22.7 kg)		
34	PIPING CONNECTION	Fasteners/Hardware (non-wetted)	316 SS	75	MISCELLANEOUS	Shipping and Storage Temperature	33°F-120°F (0.6-49°C)		
35		Tension Rod Assembly	2507 Super Duplex	76					
36		Interconnect Spacers	Noryl	77					
37		O-rings	EPDM	78					
38		Low Pressure Inlet Port Fitting	4" Pipe Grooved-End	79					
39		Low Pressure Outlet Port Fitting		80					
40		High Pressure Inlet Port Fitting		81					
41		High Pressure Outlet Port Fitting		82					
42									
43									
44									
* Refer to document 80871-01 & 80008-06 for performance curves and definitions. ** 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 project specific projections. **** 2507 Super Duplex material is standard. Materials with greater corossion resistance maybe substituted at ERI's discretion. ***** Refer to Power Model Pro for details.									
PRICE: sales@energyrecovery.com									
MANUFACTURER: Energy Recovery Inc			MODEL: PX Q400						