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Energy Recovery, Inc.  
Technical Data Sheet  
CPXP 10

REV	BY	CKD
00	SYB	EK

REVISION

Initial Release

DATE

11/20/2025

Sheet  
Page 1 of 1

**DESCRIPTION:**  
**TECHNICAL DATA SHEET**  
**CPXP 10 High-Pressure Pump**

Document number:  
81004-01

1. Part number <b>81004-01</b>		2. Service <b>SWRO</b>		3. Reference						
OPERATING CONDITIONS	1	Medium	Seawater	37	CURVES	Flow -Pressure Curve	See Pump Curve Doc# 81034-01			
	2	Operating Temperature	35.6°F-122°F (2-50°C)	38		Flow-Speed Curve	See Pump Curve Doc# 81034-01			
	3	Operating State	Continuous	39		Shaft Power-Pressure Curve	See Pump Curve Doc# 81034-01			
	4	Medium Characteristics	Corrosive	40	MATERIALS					
	5	Specific Gravity	1030 kg/m <sup>3</sup>	41		Shaft / Shell / Wetted Metals	2507			
	6	Viscosity	1.060 cP @ 70°F (21.1°C)	42		Shaft Coupling	Galv. Steel w/ Zn-Ni Alloy			
	7	Filtration Requirement*	10 µm	43		Gaskets	FKM			
	8			44		Mechanical Seal	Hastelloy Alloy			
9			45	Fasteners		2507				
PUMP PERFORMANCE	10	Geometric Displacement	14 cm <sup>3</sup> /rev	46		TYPICAL MOTOR SIZE	Required Motor Power* *	Refer to pump calculation results		
	11	Max Outlet Pressure	1200 psi (83 bar)	47			Motor Technical Details	Refer to Motor TDS document		
	12	Min Outlet Pressure	290 psi (20 bar)	48						
	13	Inlet Pressure	14.5-72.5 psi (1-5 bar)	49	Space Heater/Fungus Proof/Tropicalization		Optional			
	14	Min Speed	1500 rpm	50	Thermal Protection		Optional			
	15	Max Speed	3000 rpm	51						
	16	Rated Flow@3000rpm&80bar	2.3 m <sup>3</sup> /h	52						
	17	Flow Control	Speed Regulated	53	DIMENSIONS		Shipping Dimensions & Weight	See Packaging Drawing Doc# 92504-01		
PUMP DESIGN	18	Inlet	G3/4 (DN 25) Female Thread	54		INSPECTION & TESTS			Scope of Supply	Pump Head, Motor, Bell Housing, Shaft Coupling. (Optional: Inlet Joint, Outlet Check Valve, Discharge High-Pressure Flexible Hose)
	19	Outlet	G3/4 (DN 25) Female Thread	55						
	20	Inlet & Outlet Piping Connections	Grooved-End Flexible Coupling DN25 (Optional)	56						
	21	Discharge High-Pressure Flexible Hose	DN25, 1m (Optional)	57						
	22	Pump Base	NO	58						
	23	Internal Intergrated Flushing Valve	YES	59						
	24	Sealing Cooling Method	Self-cooling	60						
	25	Bearing Lubrication Method	Self-lubricating	61						
26	Rotation Direction	Clockwise (viewed from the motor towards the pump head)	62	Material Conformance	Material Certificate					
27			63	Dimensional and Visual Inspection	Certified Drawing					
28			64	External Leakage Test	Test Reports					
29			65	Performance Test	Test Reports					
30			66	Shipping Authorization	Client Shipment Release					
31			67							
32			68							
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**NOTES:**  
 \* ERI recommends to use a precision depth filter cartridge with efficiency of 99.98% at 10 micron and β10>5000 to protect the key components of the pump. Bag filters or string-wound filter cartridges are not recommended.  
 \*\* The required motor power depends on your flow rate and pressure. Please contact ERII for accurate motor power information.

PRICE: sales@energyrecovery.com	
MANUFACTURER: Energy Recovery, Inc	MODEL: CPXP 10