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Energy Recovery, Inc.  
Technical Data Sheet  
CPXP 24

REV	BY	CKD	REVISION	DATE
00	SYB	EK	Initial Release	11/20/2025

**DESCRIPTION:**  
**TECHNICAL DATA SHEET**  
**CPXP 24 High-Pressure Pump**

Sheet  
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Document number:  
81009-01

1. Part number **81009-01**      2. Service **SWRO**      3. Reference

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
OPERATING CONDITIONS	Medium	Seawater	37	CURVES	Flow -Pressure Curve	See Pump Curve Doc# 81039-01																													
	Operating Temperature	35.6°F-122°F (2-50°C)	38		Flow-Speed Curve	See Pump Curve Doc# 81039-01																													
	Operating State	Continuous	39		Shaft Power-Pressure Curve	See Pump Curve Doc# 81039-01																													
	Medium Characteristics	Corrosive	40	MATERIALS	Shaft / Shell / Wetted Metals	2507																													
	Specific Gravity	1030 kg/m³	41		Shaft Coupling	Galv. Steel w/ Zn-Ni Alloy																													
	Viscosity	1.060 cP @ 70°F (21.1°C)	42		Gaskets	FKM																													
	Filtration Requirement*	10 µm	43		Mechanical Seal	Hastelloy Alloy																													
			44		Fasteners	2507																													
PUMP PERFORMANCE	Geometric Displacement	65 cm³/rev	45		TYPICAL MOTOR SIZE	Required Motor Power* *	Refer to pump calculation results																												
	Max Outlet Pressure	1200 psi (83 bar)	46			Motor Technical Details	Refer to Motor TDS document																												
	Min Outlet Pressure	290 psi (20 bar)	47			Space Heater/Fungus Proof/Tropicalization	Optional																												
	Inlet Pressure	29-72.5 psi (2-5 bar)	48	Thermal Protection		Optional																													
	Min Speed	700 rpm	49																																
	Max Speed	1,800 rpm	50																																
	Rated Flow@1500rpm&80bar	5.4 m³/h	51																																
	Flow Control	Speed Regulated	52																																
PUMP DESIGN	Inlet	M42X1.5 (DN 40) Female Thread	53	DIMENSIONS	Shipping Dimensions & Weight	See Packaging Drawing Doc# 92509-01																													
	Outlet	M42X1.5 (DN 40) Female Thread	54																																
	Inlet & Outlet Piping Connections	Grooved-End Flexible Coupling DN40 (Optional)	55		SCOPE OF SUPPLY	Pump Head, Motor, Bell Housing, Shaft Coupling. (Optional: Inlet Joint, Outlet Check Valve, Discharge High-Pressure Flexible Hose)																													
	Discharge High-Pressure Flexible Hose	DN40, 1m (Optional)	57																																
	Pump Base	NO	58																																
	Internal Intergrated Flushing Valve	YES	59																																
	Sealing Cooling Method	Self-cooling	60																																
	Bearing Lubrication Method	Self-lubricating	61																																
	Rotation Direction	Clockwise (viewed from the motor towards the pump head)	62																																
			63																																
		64																																	
		65	INSPECTION & TESTS	Material Conformance	Material Certificate																														
		66		Dimensional and Visual Inspection	Certified Drawing																														
		67		External Leakage Test	Test Reports																														
		68		Performance Test	Test Reports																														
		69		Shipping Authorization	Client Shipment Release																														
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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 24