



1717 Doolittle Dr.
San Leandro, CA
94577, USA
Phone: 1-510-483-7370

Energy Recovery, Inc.
Technical Data Sheet
CPXP 72

REV	BY	CKD
00	SYB	EK

REVISION

Initial Release

DATE

11/20/2025

Sheet
Page 1 of 1

DESCRIPTION:
TECHNICAL DATA SHEET
CPXP 72 High-Pressure Pump

Document number:
81016-01

1. Part number 81016-01		2. Service SWRO		3. Reference				
OPERATING CONDITIONS	1	Medium	Seawater	37	Flow -Pressure Curve	See Pump Curve Doc# 81046-01		
	2	Operating Temperature	35.6°F-122°F (2-50°C)	38	Flow-Speed Curve	See Pump Curve Doc# 81046-01		
	3	Operating State	Continuous	39	Shaft Power-Pressure Curve	See Pump Curve Doc# 81046-01		
	4	Medium Characteristics	Corrosive	40				
	5	Specific Gravity	1030 kg/m ³	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		
PUMP PERFORMANCE	9	Geometric Displacement	195 cm ³ /rev	45	Fasteners	2507		
	10	Max Outlet Pressure	1200 psi (83 bar)	46	Required Motor Power* *	Refer to pump calculation results		
	11	Min Outlet Pressure	290 psi (20 bar)	47	Motor Technical Details	Refer to Motor TDS document		
	12	Inlet Pressure	29-72.5 psi (2-5 bar)	48				
	13	Min Speed	700 rpm	49	Space Heater/Fungus Proof/Tropicalization	Optional		
	14	Max Speed	1,500 rpm	50	Thermal Protection	Optional		
	15	Rated Flow@1500rpm&80bar	16.4 m ³ /h	51				
	16	Flow Control	Speed Regulated	52				
PUMP DESIGN	17	Inlet	M52X1.5 (DN 50) Female Thread	53	Shipping Dimensions & Weight	See Packaging Drawing Doc# 92516-01		
	18	Outlet	M52X1.5 (DN 50) Female Thread	54				
	19	Inlet & Outlet Piping Connections	Grooved-End Flexible Coupling DN50 (Optional)	55				
	20	Discharge High-Pressure Flexible Hose	DN50, 1m (Optional)	57				
	21	Pump Base	NO	58	Scope of Supply	Pump Head, Motor, Bell Housing, Shaft Coupling. (Optional: Inlet Joint, Outlet Check Valve, Discharge High-Pressure Flexible Hose)		
	22	Internal Intergrated Flushing Valve	YES	59				
	23	Sealing Cooling Method	Self-cooling	60				
	24	Bearing Lubrication Method	Self-lubricating	61				
	25	Rotation Direction	Clockwise (viewed from the motor towards the pump head)	62				
	26			63				
27			64	INSPECTION & TESTS	Material Conformance	Material Certificate		
28			65				Dimensional and Visual Inspection	Certified Drawing
29			66				External Leakage Test	Test Reports
30			67				Performance Test	Test Reports
31			68				Shipping Authorization	Client Shipment Release
32			69					
33			70					
34			71					
35			72					
36			73					

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 72