



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

Energy Recovery, Inc.
Technical Data Sheet
CPXP 20

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

DESCRIPTION:
TECHNICAL DATA SHEET
CPXP 20 High-Pressure Pump

Sheet
Page 1 of 1

Document number:
81008-01

1. Part number **81008-01** 2. Service **SWRO** 3. Reference

1	OPERATING CONDITIONS	Medium		37	CURVES	Flow -Pressure Curve		See Pump Curve Doc# 81038-01
		2	Operating Temperature			35.6°F-122°F (2-50°C)		
3	Operating State	Continuous		39	Shaft Power-Pressure Curve	See Pump Curve Doc# 81038-01		
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		
9	Geometric Displacement	54 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	1,800 rpm		50	Thermal Protection	Optional		
15	Rated Flow@1500rpm&80bar	4.5 m ³ /h		51				
16	Flow Control	Speed Regulated		52				
17	Inlet	M42X1.5 (DN 40) Female Thread		53	Shipping Dimensions & Weight	See Packaging Drawing Doc# 92508-01		
18	Outlet	M42X1.5 (DN 40) Female Thread		54				
19	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)		
20	Discharge High-Pressure Flexible Hose	DN40, 1m (Optional)		57				
21	Pump Base	NO		58				
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	INSPECTION & TESTS	Material Conformance Material Certificate		
26				63			Dimensional and Visual Inspection	Certified Drawing
27				64			External Leakage Test	Test Reports
28				65			Performance Test	Test Reports
29				66			Shipping Authorization	Client Shipment Release
30				67				
31				68				
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 20	