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Energy Recovery, Inc.
Technical Specifications Sheet

REV	BY	CKD	REVISION	DATE
0	ABK	JGM	Initial Release	6/4/2009

DESCRIPTION:
TECHNICAL DATA SHEET, HP-8503 CIRCULATION PUMP

SHEET
1 of 1
Document Number
80172-01
MANUFACTURER
ERI

1. Part Number	50000-01	2. Service:		3. Reference:	
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		OPERATING DATA		DESIGN		INSPECTION	
4	Liquid	Seawater	32	Bell Housing	6000 Series Aluminum		
5	Specific Gravity	1.03	33	Inlet / Outlet Castings	CN3MN		
6	Viscosity	1.060 cP @ 70°F (21.1°C)	34	Impeller	Noryl		
7	Operating Temperature	33°F - 120°F (0.6°C - 49°C)	35	Shaft / Shell / Wetted Metals	AL6XN or C-276		
8	Minimum Flow	See ERI Document 80044-01	36	Shaft Bushing	Rulon		
9	Maximum Flow	See ERI Document 80044-01	37	Shaft Coupling	Titanium		
10	Maximum Inlet Pressure	1200 psi (83 bar)	38	Gaskets	EPDM		
11	Maximum Outlet Pressure	1200 psi (83 bar)	39	Seal Body	316 SS		
12	NPSH _r	15 psi (1 bar)	40	Fasteners	316 SS		
13	Maximum Design Speed	VFD Operated up to 3600 RPM	41				
14	Efficiency	See ERI Document 80044-01	42	NEMA Frame	184T		
15	Pump Power	See ERI Document 80044-01	43	Frequency	50/60 Hz		
16	Number of Stages	3	44	Maximum Rated Power	5 HP (3.7 kW)		
17	Inlet	3" (DN 80)	45	Type	TEFC		
18	Outlet	3" (DN 80)	46	Voltage	230/460/575 at 60Hz & 200/380 at 50 Hz		
19	Piping Connections	Grooved-End Flexible Pipe Coupling	47	Phase	3		
20	Seal Lubrication	Plan 01, Internal Recirculation	48	Space Heater	Optional		
21	Shaft Seal	Pressure Balance Mechanical Seal	49	Fungus Proofing/Tropicaliza	Optional		
22	Seal Face Materials	Silicon Carbide / Silicon Carbide	50	Thermal Protection	Optional		
23	Shaft Seal Manufacturer	Manufactured for ERI	51	CE Marking	Optional		
24	Shaft Coupling	Rigid	52	Performance	Tested up to 1200 psi (83 bar)		
25	Thrust Bearing	In Motor	53	Witnessed Test	Optional		
26	Direction of Rotation	CCW from Drive	54				
27	Outside Dimensions	Standard	55	Shipping Dimensions	19 x 20 x 56in. (47 x 50 x 142mm)		
28	Internal Dimensions	Standard	56	Shipping Weight	280 lb (130kg)		
29	Material Certificates	Standard	57				
30	Visual	Standard	58				
31	Packing and Crating	Standard	59				

Notes:
AL-6XN is a registered trademark of Alleghany Ludlum
ERI RESERVES THE RIGHT TO MAKE SPECIFICATION CHANGES AT ANY TIME WITHOUT PRIOR NOTICE.

PRICE:	sales@energyrecovery.com		
MANUFACTURER:	Energy Recovery, Inc.	MODEL NO.	50000-01
		WEIGHT:	200 lb. (90kg)