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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-**  
**8504 CIRCULATION PUMP**

**SHEET**  
**1 of 1**  
**Document Number**  
**80172-02**  
**MANUFACTURER**  
**ERI**

1. Part Number	<b>50001-01</b>	2. Service:		3. Reference:	
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OPERATING DATA		DESIGN		MATERIALS		MOTOR		TESTS		DIMENSIONS	
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 80044-02	36	Shaft Bushing	Rulon						
9	Maximum Flow	See ERI Document 80044-02	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 <sub>r</sub>	15 psi (1 bar)	40	Fasteners	316 SS						
13	Maximum Design Speed	VFD Operated up to 3600 RPM	41								
14	Efficiency	See ERI Document 80044-02	42	NEMA Frame	213T						
15	Pump Power	See ERI Document 80044-02	43	Frequency	50/60 Hz						
16	Number of Stages	3	44	Maximum Rated Power	7.5 HP (5.5 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	300 lb (136kg)						
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:	<a href="mailto:sales@energyrecovery.com">sales@energyrecovery.com</a>		
MANUFACTURER:	<b>Energy Recovery, Inc.</b>	MODEL NO.	<b>50001-01</b>
		WEIGHT:	<b>220 lb (100kg)</b>