

		1717 Doolittle Dr. San Leandro, CA 94577, USA Phone: 1-510-483-7370 FAX: 1-510-483-7371		<b>Energy Recovery, Inc.</b> <b>Technical</b> <b>Specifications Sheet</b>			REV	BY	CKD	REVISION	DATE
		SHEET 1 of 1			0	SYB	DKH	Initial Release	8/18/2022		
DESCRIPTION: <b>TECHNICAL DATA SHEET</b> <b>ATMP-893-17 PUMP</b>				Document Number <b>80833-01</b>			MANUFACTURER <b>ERI</b>				
1. Part Number		92375-17		2. Service:			3. Reference:				
OPERATING DATA	4	Liquid	Seawater	33	MATERIALS	Shaft Seal Housing	SAF 2507 Super Duplex SS				
	5	Specific Gravity	1.03	34		Bell Housing	Epoxy Coated GG25 Cast Iron				
	6	Viscosity	1.060 cP @ 70°F (21.1°C)	35		Impeller	EN 1.4539; SAE 904 L; UNS N08904				
	7	Operating Temperature	33°F - 104°F (0.6°C - 40°C)	36		Impeller Bushing	EN 1.4539; SAE 904 L; UNS N08904				
	8	Minimum Flow	See ERI Document 80853-01	37		Wear Ring	EN 1.4539; SAE 904 L; UNS N08904				
	9	Maximum Flow	See ERI Document 80853-01	38		Integrated Check Valve	EN 1.4539; SAE 904 L; UNS N08904				
	10	Minimum Inlet Pressure	14.5psi (1 bar)	39		Sleeve	EN 1.4462; SAF 2205; Duplex SS				
	11	Maximum Outlet Pressure	1200 psi (83 bar)	40		Shaft	EN 1.4462; SAF 2205; Duplex SS				
	12	NPSH <sub>R</sub>	14.5psi (1 bar)	41		Inlet/Outlet	SAF 2507 Super Duplex SS				
	13	Maximum Design Speed	VFD Operated up to 5500 RPM	42		Elastomeric Seals	NBR (neoprene) Rubber				
	14	Efficiency	See ERI Document 80853-01	43		Shaft Coupling	EN 1.4462; SAF 2205; Duplex SS				
	15	Pump Power	See ERI Document 80853-01	44		Coupling Guard	Stainless Steel				
	DESIGN	16	Number of Stages	17		45	MOTOR	Motor Support	Steel with Epoxy Paint		
		17	Inlet Size	3" (DN 80)		46		Fasteners (non wetted)	Stainless Steel (EN 1.4301) - 304 SS		
		18	Outlet Size	3" (DN 80)		47		Frame Size	225M		
19		Inlet Connection	Grooved Pipe	48	Frequency	50/60 Hz - Inverter Duty					
20		Outlet Connection	Grooved Pipe	49	Maximum Rated Power	134 HP (100 kW)					
21		Impeller Diameter	3.5" (89.3 mm)	50	Type	Horizontal FF-400 C-face IEC, IP54					
22		Minimum Impeller Diameter	N/A	51	Voltage	380-440/441-500 Volts at 50/50/60 Hz					
23		Maximum Impeller Diameter	N/A	52	Phase	3					
24		Seal Lubrication	API Plan 02	53	Manufacturer	Siemens					
25		Shaft Seal	Pressure Balance Mechanical Seal	54	Tropicalization	Optional					
26		Seal Face Materials	Ceramic/Silicon Carbide	55	Paint System	Manufacturer Standard C2					
27		Shaft Seal Manufacturer	Manufacturer's standard	56	TESTING	Case Hydrostatic		1750 psi (120 bar)			
28	Shaft Coupling	Torsionally Flexible	57	Impeller Balance		N/A					
29	Thrust Bearing Housing	SAF 2507 Super Duplex Stainless Steel	58	Motor Test		See Motor TDS					
30	Direction of Rotation	CW facing pump drive end	59	Witness Test		Optional					
31	Casing Split	Radial	60	Material Certs		Optional					
32	Thrust Bearing	Ceramic and Carbon	61	Curve Tolerance		ISO9906:2012 3B					
33	Casing Drain	N/A		Shipping Dimensions		97" x 33" x 38" (248cm x 83cm x 98cm)					
<b>Notes:</b> <b>ERI RESERVES THE RIGHT TO MAKE SPECIFICATION CHANGES AT ANY TIME WITHOUT PRIOR NOTICE.</b>											
PRICE: <a href="mailto:desalsales@energyrecovery.com">desalsales@energyrecovery.com</a>				SHIPPING:				DELIVERY:			
MANUFACTURER: <b>Energy Recovery, Inc.</b>				MODEL NO. <b>ATMP-893-17</b>				WEIGHT: <b>1076 lb (488 kg)</b>			



Ordering data: 1PC3106-2BB20-0AA0

Motor type: 1CV3222B

Client order no.:

Item no.: Grundfos PN 98996174

Order no.:

Consignment no.:

Offer no.:

Project:

Remarks:

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	NOM. EFF at ... load [%]			Power factor at ... load			No. of Poles
								4/4			4/4			
400	Δ	184	100	- / -	179	5495	174	93.46			0.86			4
IM B35 / IM 2001			FS 225 M		335 kg	IP54	IEC/EN 60034	IEC, EN, UL, CSA			S9 Inverter duty			

### Mechanical data

Sound pressure level 50Hz/60Hz (load)	91 db(A)
Moment of inertia	0.47 kg m <sup>2</sup>
Bearing DE   NDE	6213/HC5 C4   6213/HC5 C4
Relubrication interval/quantity	20 g   20 g 2000 h
Lubricants	Mobilith SHC100
Regreasing device	with regreasing nipple
Grease nipple	M10x1 DIN 71412 A
Type of bearing	Locating bearing NDE
Condensate drainage holes	Yes
External earthing terminal	Yes
Vibration class	A
Insulation	180(H) to 155(F)
Duty type	S9 Inverter duty
Direction of rotation	bidirectional
Frame material	cast iron
Data of anti condensation heating	-/-
Coating	Standard paint finish C2
Color	RAL9005
Motor protection	3 resistance thermometers PT100
Method of cooling	IC411 - self ventilated, surface cooled

### Terminal box

Terminal box position	top
Material of terminal box	cast iron
Type of terminal box	TB1 N01
Contact screw thread	M10
Max. cross-sectional area	120.0 mm <sup>2</sup>
Cable diameter from ... to ...	34.0 mm - 42.0 mm
Cable entry	1xM63x1,5
Cable gland	- / -

### Environmental conditions

Ambient temperature	-20 °C - +40 °C
Altitude above sea level	1000 m

### Special design