

		1717 Doolittle Dr. San Leandro, CA 94577, USA Phone: 1-510-483-7370 FAX: 1-510-483-7371		Energy Recovery, Inc. Technical Specifications Sheet			REV	BY	CKD	REVISION	DATE		
		SHEET 1 of 1			0	SYB	DKH	Initial Release	8/18/2022				
DESCRIPTION: TECHNICAL DATA SHEET ATMP-893-20 PUMP				Document Number 80834-01									
MANUFACTURER ERI													
1. Part Number		92375-20		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 80854-01	37		Wear Ring	EN 1.4539; SAE 904 L; UNS N08904						
	9	Maximum Flow	See ERI Document 80854-01	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 _R	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 80854-01	43		Shaft Coupling	EN 1.4462; SAF 2205; Duplex SS						
	15	Pump Power	See ERI Document 80854-01	44		Coupling Guard	Stainless Steel						
	DESIGN	16	Number of Stages	20		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	161 HP (120 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							
TESTING		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		105" x 33" x 39" (268cm x 83cm x 100cm)						
Notes: ERI RESERVES THE RIGHT TO MAKE SPECIFICATION CHANGES AT ANY TIME WITHOUT PRIOR NOTICE.													
PRICE: desalsales@energyrecovery.com				SHIPPING:				DELIVERY:					
MANUFACTURER: Energy Recovery, Inc.				MODEL NO. ATMP-893-20				WEIGHT: 1096 lb (497 kg)					



Ordering data: 1PC3106-2BB20-0AA1

Motor type: 1CV3222B

Client order no.:

Item no.: Grundfos PN 98930858

Order no.:

Consignment no.:

Offer no.:

Project:

Remarks:

U	Δ / Y	f	P	P	I	n	M	NOM. EFF at ... load [%]			Power factor at ... load			No. of Poles
[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	4/4			4/4			
400	Δ	184	120	- / -	215	5495	208.0	94.46			0.85			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 ²
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 ²
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