

	Energy Recovery, Inc 1908 Doolittle Drive San Leandro CA 94577 USA Tel: +1 510 483 7370 Fax: +1 510 483 7371	Technical Data Sheet: VP-3471 Circulation Pump		REV	BY	CKD	REVISION	DATE
				000	IBC	JGM	Initial release	07/18/2008
	Doc. No.	80125-01						
	Sheet	1 of 1						

Operating Data

Liquid	Seawater	Specific Gravity	1025 kg/m ³
Operating Temp.	33°F-120°F (0.6°C-49°C)	Viscosity	1.060 cP @ 70°F (21.1°C)
Max Inlet Pressure	1200 psi (82.7 bar)	Max Outlet Pressure	1290 psi (89 bar)
Design Speed	VFD ops. Up to 3797rpm	NPSHR	See ERI Document 80122-01
Max. Flow	See ERI Document 80122-01	Min. Flow	See ERI Document 80122-01
Efficiency	See ERI Document 80122-01	Pump Power:	See ERI Document 80122-01

Design

Inlet Size	4"	Inlet Flange	ASME 600#
Outlet Size	3"	Outlet Flange	ASME 600#
Impeller Diameter	7"	Casing Split	Radial
No. Stages	1	Direction of Rotation from Drive	CCW.
Max. Impeller Dia.	n/a	Min. Impeller Dia.	n/a
Casing Drain	Threaded Plug	Thrust bearing	In Motor
Seal Lubrication	Process liquid - Plan 13	Seal Vent	Valve
Shaft Seal	Pressure-balanced mechanical seal	Shaft Seal Manufacturer	mfg for ERI
Seal Face Materials	Silicon Carbide/Carbon	Coupling	Rigid

Materials

Volute Casing	Grade 3A duplex	Gaskets	EPDM
Impeller	Grade 3A duplex	Coupling	Stainless Steel
Bearing Bracket	Grade 3A duplex	Coupling Guard	Anodized Aluminum
Casing-Impeller wear ring	Grade 3A duplex	Motor Support	Steel
Shaft	Grade 3A duplex	Fasteners	Coated Steel

Motor

NEMA Frame	Depends on HP	Voltage	460 @ 60 Hz
Frequency	50/60 Hz Dual rated	Phase	3
Max. Rated Power	Depends on HP	VFD Rated	Yes
Type	TEFC	Manufacturer	WEG

Testing

Witness test	optional	Case Hydrostatic:	1800 psi
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