AMERICAN
LUBRICATION EQUIPMENT CORPORATION®

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DEF-1000 SERIES

AC BARREL PUMP
USER'S MANUAL



Superior Technology at an Affordable Price®

1. SAFETY

All safety instructions must be observed and followed.

1.1 Before Using

1. There are high speed rotating components. Failure to follow the safety instructions may lead to serious injury. All safety instructions must be followed.
2. The installation and maintenance must be done strictly according to the current machinery and electrical standard.

2. MACHINE DESCRIPTION

MOTOR: The outlet is G1-1/4 male thread.

⚠ATTENTION

- **Never operate the motors without pump.**
- **Never leave the pump unattended.**
- **Never dry run the pump.**
- **The pump should not be immersed deeper into the liquid than the outlet connection.**

3. TECHNICAL DATA

3.1 Motor Data

Motor Model	Electrical Power			Load Speed	Rated Speed
	Current	Voltage	Power		
DEF-1000-A	AC	120V	450W	3000~11000RPM	20000RPM

3.2 Pump Tube Data

Pump Tube Model	Pump Tube Material					Length	Compatible Fluids
	Pump Tube	Shaft	O Ring	Sliding Bearing	Impeller		
DEF-1000-B	PP	304SS	FKM	PTFE	ETFE	1000mm	DEF,Water

3.3 Hose adapter Data

Hose Adapter Threads
G1-1/4 x 3/4" hose barb

3.4 Bung Adapter Data

Bung Adapter Model	Thread
DEF-1000-ADP	2" NPT

4. OPERATING CONDITIONS

4.1 Environmental Conditions

Electro-Motor operating environment: -25~40°C.

4.2 Viscosity

The maximum allowed viscosity is 200cps.

⚠ATTENTION

Over the rated viscosity, the motor will be overloaded which may damage the motor.

5. START
Check all the connections for leakage.

6. RUNNING
1. Normally, the pump needs 3 minutes to pump approximately 55 gallons , pump dry running is prohibited.

7. DAILY USE
Long term, continuous running of the motor may cause overheating, at which time the overheating protection system automatically will cut the power. The motor can be restarted by pressing the on/off button after it has cooled down.

⚠ATTENTION

The suggested duty cycle is 2 hours. Do not exceed one hour when the environment temperature more than 30˚C.

8. PROBLEMS AND SOLUTIONS

Problem	Possible Cause	Corrective Action
No flow rate or slow flow rate.	Blocked inlet or outlet.	Clear inlet and/or outlet.