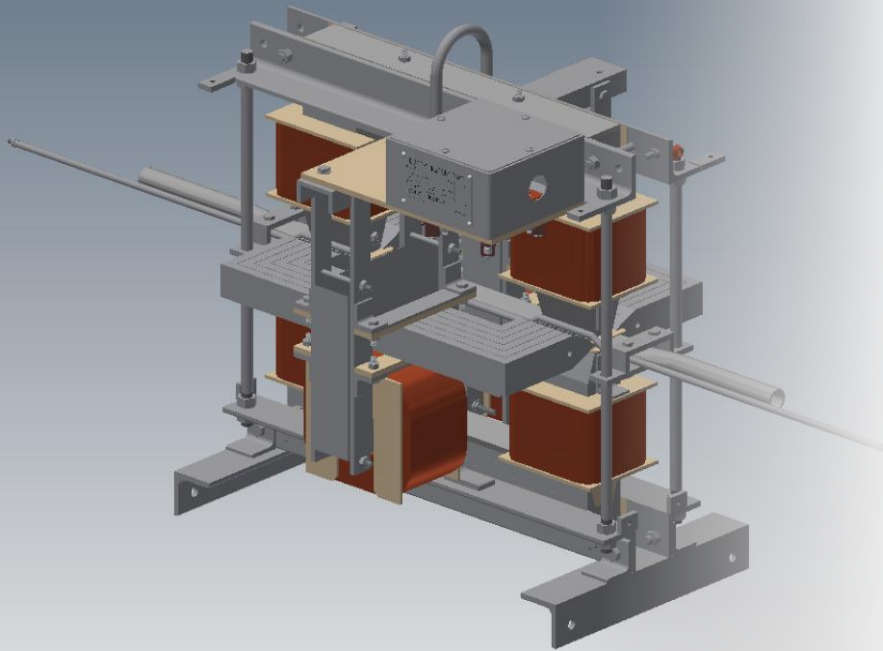




Creative Engineers, Inc.

UNITED STATES | INTERNATIONAL



AC EM PUMPS

Alternating Current Electromagnetic Conduction Pumps

**ACCURATE. RELIABLE.
MAINTENANCE-FREE.**

CEI's AC electromagnetic conduction pumps provide **reliable, leak-free pumping** of liquid sodium, NaK, lithium, potassium, rubidium, and other electrically conductive liquid metals. With **no moving parts or dynamic seals**, they are ideal for demanding nuclear, research, and industrial applications.

WHY CHOOSE CEI EM PUMPS?



NO MOVING PARTS

No seal. No packing glands. No leaks!



UP TO 1600 °F

Continuous operation at liquid metal temperature to 1600 °F / 871 °C.



VARIABLE FLOW CONTROL

10-100% capacity without throttling valves.



BUILT TO LAST

Dependable performance for 20+ years.



RADIATION TOLERANT

Operable in radiation fields.



PROVEN PERFORMANCE

Trusted since the 1950s.
Tested and calibrated.



REVERSIBLE FLOW

Full reversible flow can be achieved within minutes.



HIGH EFFICIENCY

Efficient EM pumping with low operating cost.



NEW FREEDOM, PA | GREENVILLE, SC

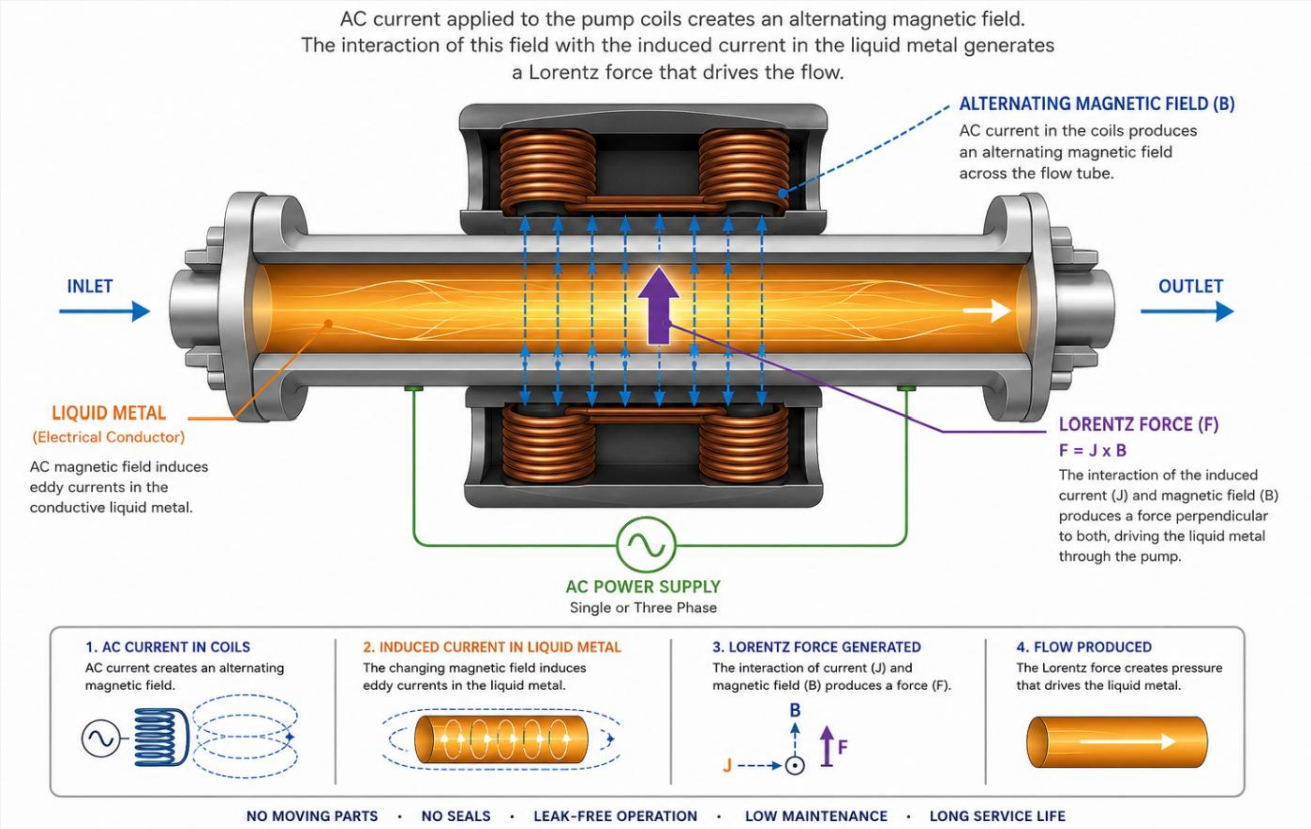


(717)235-5469



www.creativeengineers.com

PRINCIPLE OF OPERATION



EM PUMPS SIZING OPTIONS

EM Pump Style	Capacitor(s)	Flow Tube OD	Input to a Variable Frequency Drive (VFD) or Powerstat (Variac)	Powerstat (Variac) Rated Output	Typical Application
EMP-2-1	2 @ 277 V, 10 KVAR	3/8"	277 VAC, 1-Phase, 2-Wire + Ground, 50/60 Hz	10.4 KVA, 32.2 A	Laboratory & small loops
EMP-2-2	1 @ 277 V, 13 KVAR	3/8"			Research systems
EMP-2-3	1 @ 277 V, 6.7 KVAR	1/2"			
EMP-2-4	1 @ 277 V, 3.3 KVAR	1/2"			
EMP-2-5	1 @ 277 V, 13 KVAR	1"			Pilot-scale systems
EMP-2-6	1 @ 277 V, 10 KVAR	1"			

CEI can specify the most appropriate pump for your application after receiving your process information.

ABOUT CREATIVE ENGINEERS, INC.

Creative Engineers, Inc. (CEI) designs, builds, and operates custom research and pilot-scale systems for alkali and other liquid metals. Backed by decades of specialized experience, our team helps clients move from concept to commercialization faster, safer, and more efficiently.



CUSTOM
DESIGN



ENGINEERING &
MANUFACTURING



TESTING &
QUALIFICATION



INSTALLATION
SUPPORT



Creative Engineers, Inc.
UNITED STATES | INTERNATIONAL

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