

KleenVent Coolant Evaporation Inhibitor

For Renewable Energy Open-Loop Cooling Systems



Fix a Costly Issue You May Not Know You Have.

If you operate a 1.5 MW wind turbine with an open-loop cooling system, you may have a \$20,000 problem – one you're not even aware of. Water/glycol coolant in the insulated-gate bipolar transducer (IGBT) circuit is a critical issue. Water evaporation elevates the mixture's viscosity, prohibits cooling ability and compromises the IGBT and associated electronic controls. All maintenance solutions take the wind turbine and transformer offline, resulting in significant downtime and revenue loss. Combined with the price of replacement parts, this costs thousands. Parker's KleenVent Coolant Evaporation Inhibitor (KV-CEI) **eliminates water evaporation** in the coolant solution and **stops the ingress of airborne contaminants** by closing the cooling loop. It prevents the need for continuous coolant monitoring during the warm season for a **return on investment in a single calendar year.**



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Product Features:

- Leak-free design contains liquids and vapors
- Integrated relief valve
- Fluid level gauge for preventative maintenance
- Urethane bag to eliminate contamination
- Operating temperatures of -40°F to 200°F (-40°C to 93°C)
- Capacity range of 1 to 5 gallons



ENGINEERING YOUR SUCCESS.

Ensure Optimal Water/Glycol Ratios.

Installed directly in the IGBT's cooling loop, the KV-CEI keeps water from evaporating off of the water/glycol coolant inside the system. This secures the correct water/glycol ratio and eliminates the need to introduce new water into the system – a step that often results in further concentration errors. When cooled, water vapor

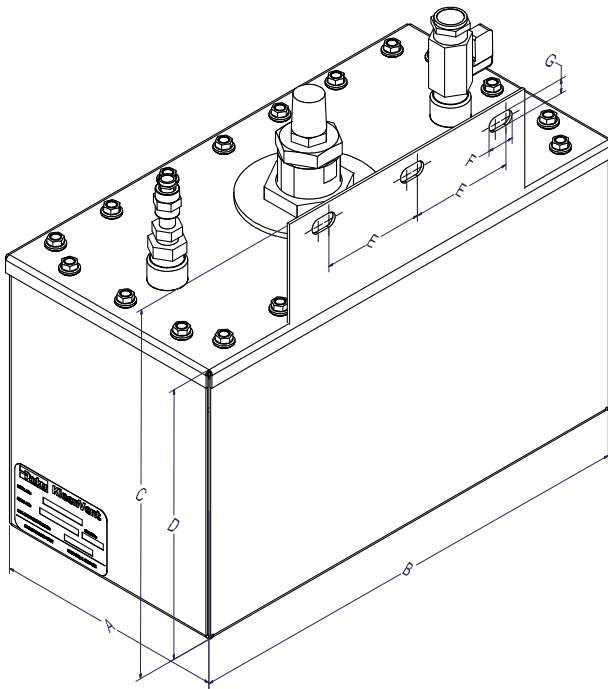
returns to its liquid state and naturally remixes at the correct concentration level.

Safe, Leak-Free Construction
Engineered to be leak free for both liquids and vapors, the KV-CEI features an integrated relief valve. It also provides a fluid level gauge to allow quick

fluid level checks and integrate with preventative maintenance schedules. Internally, the inhibitor's design incorporates a durable urethane bag that keeps vapor and fluid level changes in check during standard system cycles. It also blocks contamination from entering coolant circuit. Parker experts work with you to design mounting brackets tailored to your application for fast, easy installation.

Backed by Proven Parker Technology

This cost-saving coolant isolator technology is based on Parker's KleenVent KVE Series of hydraulic reservoir isolators. The innovative KleenVent design has been used in a wide variety of power unit systems made by leading manufacturers to isolate hydraulic fluid from atmospheric contamination. In fact, in units with KleenVent isolators, Parker has witnessed up to 20 years of hydraulic fluid life.



Dimensions and Materials

Part #	Body Dimensions (in.)				Mounting Dimensions (in.)			Dry Weight (lbs.)	Body Material	Bladder Material	Seal Material
	A	B	C	D	E	F	G				
KVIU0034MXX7501117	7.1	14.1	11.4	8.3	3.1	0.81	0.44	20	300 Series Stainless Steel	Urethane	EPR

