

Thermo-EK

The Disinfection Unit



APPLICATION

ADVANTAGES

In general	✓ In bypass mode and extremely efficient
	✓ Both climate friendly and health friendly
	✓ Autonomous, mobile, can be used inside a factory hall
Disinfection of cooling liquids (bacteria, yeasts, fungi)	✓ Highly efficient disinfection during full production
	✓ No odour nuisance, no health problems
	✓ Entirely without chemistry and/or biocides
Test results	✓ In 90% of tests zero bacteria after disinfection
	✓ In remaining 10% reduction by factor 100 to 10.000
	✓ In 100% of tests zero yeasts or fungi after disinfection
Commercial	✓ Significantly reduced cost for coolant purchase & disposal
	✓ During normal production = no stillstand times
	✓ No chemistry or biocides = less sick days

Further information can be found here:

<https://www.ph-cleantec.de/en/products/thermal-disinfection-of-cooling-lubricants.html>



Bacteria

Fungi

Technical Data Thermo-EK

- Mobile and independent
- 5 liters of coolant throughput per minute
- With heat recovery system
- With intake temperature control
- Significant savings on coolant and disposal
- Disinfection of coolant during full production
- In general, no chemistry and no biocides necessary



Technical Data	Thermo-EK
Working volume disinfection	300 liters coolant / hour
Temperature disinfection	~ 65-70°C
Temperature intake (from coolant bath)	30-50°C
Temperature return	Max. 50°C
Type of current	3P-N-PE / 400V / 50Hz / 16A
Power consumption	5 KW ca. 4 KW average power consumption
Filtration to protect the unit	25µm for suction from emulsion tank
Dimensions	920 x 480 x 450 mm
Weight (empty)	~ 55 kg
Noise level	< 70 dBA
Coolant shortage control	Standard
Connector cable	7.5 meters
Hoses	Suction hose 5 meters Return hose 5 meters
Chassis in custom colour	Option 1000 WF

Subject to technical modifications. As of September 10.02.2024