

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	100µm 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 May 21, 2025