EKOMILK® AMP
Complete system for accurate mastitis and milk quality control

Hybrid Milk Analyzer
EKOMILK HORIZON UNLIMITED (EHU)

Somatic Cell Count (SCC) and Milk Parameters Measurement
- Automated and reliable;
- Fast and cost-effective;
- High accuracy for SCC threshold of 200K cells/ml;
- Integrated Wi-Fi module for remote monitoring

Flexible process automation;
- Autonomous processing of 49 milk samples;
- Processing time around 1 hour;
- Auto cleaning function

ANIMAL MONITORING PLATFORM AMP
Cloud-based bulk tank, dairy herd & cow health management and instrument maintenance
www.animalmonitoring.com

SAMPLE FEEDER
Peripheral device for automatic milk sampling and feeding

approx. €0.03 per test

System Applications:
- dairy farms with a conventional milking parlor
- dairy farms with robotic milking machines
- large laboratories testing over 100,000 samples/year
- small labs, vet cabinets, milk processors
- mobile labs for milk collection

Certificate delivered by the European Commission, as the institution managing Horizon 2020, the EU Framework Programme for Research and Innovation 2014-2020
**EKOMILK® AMP**

**Milk parameters** | **Cow / Tank** | **Measuring Range and Accuracy**
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Somatic Cell Count | Cow / Tank | $80,000 \div 15,000,000$ cells/ml ± 8%
Fat | Cow / Tank | 0.5% ± 12% ± 0.04%
Protein | Cow / Tank | 1.0% ± 9.0% ± 0.14%
Solids not fat (SNF) | Cow / Tank | 6% ± 12% ± 0.2%
Temperature | Cow / Tank | $0°C \div 50°C ± 0.1°C$
Conductivity | Cow / Tank | 1.0 mS/cm ± 10 mS/cm ± 0.2 mS/cm
Density | Tank only | $1,0200 \div 1,0400$ g/cm³ ± 0.0005 g/cm³
Freezing point | Tank only | $-1,000°C \div -0,000°C ± 0.015°C$
Added water | Tank only | 0.0% ± 60% ± 5%
Lactose | Cow / Tank | 0.5% ± 7% ± 0.2%
Acidosis & Ketosis | Cow / Tank | Ultrasound and AI based detection

- The accuracy of SCC, Protein, Fat and SNF are achieved after AMP calibration finetuning and valid for ICAR-compliant milk samplers;
- Lactose, Acidosis & Ketosis indicators are available only via AMP on demand;
- All specifications are preliminary and can be changed without prior notice.

**SYSTEM CONFIGURATIONS**

**EKOMILK® AMP**

- **ESSENTIAL (EHE) + AMP**
  Automated milk analyzer for fast and effective control of SCC in dairy farms and processing plants

- **UNLIMITED (EHU) + AMP**
  Automated hybrid milk analyzer for SCC and milk parameters measurement

- **ROBOT VERSION (EHR) + AMP**
  Direct simple connection to milking robots; Real-time analysis allowing immediate action for sick animals

- **SAMPLE FEEDER (SF) + AMP**
  Peripheral device for automatic milk sampling and feeding to the analyzer for fast milk parameters’ analysis

**Animal Monitoring Platform - Result Transfer, Workflow Integration and Measurement Supervision**

**AMP Standard package:**
- Admin User Account with up to 1000 cows per farm;
- Automatic Data Transfer via integrated solid Wifi and USB stick workflow support;
- Powerful online calibration engine which allows to obtain unparalleled accuracy over an extended range of milk parameters;
- Automatic dashboards on bulk tank, on individual cow and on herd level;
- Real-time raw results viewing; mastitis visualization and monitoring;
- Efficient sample identification processes;
- Instrument maintenance program;
- Comprehensive notification platform via SMS, email and apps - receive measurement results and instrument warnings on any device anywhere

**Optional:**
- Up to 20,000 cows per farm and unlimited farms;
- Customized calibration services incl. automatic seasonal calibration update;
- Extra animal health indicators - lactose, acidosis and ketosis;
- Custom branding admin interface & 3rd party modules & APIs

*1-year standard AMP admin account is included with every system*

**Buy online at www.ekomilkhorizon.com**

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