

SYSTEMIZER® Xpress

Traction energy systems
with electrolyte circulation



Motive Power Systems

Reserve Power Systems

Special Power Systems

Service

Your benefits with HOPPECKE SYSTEMIZER® Xpress

- **Faster battery and vehicle availability**
- **Reduced energy costs** by up to 30 %
- **Reduced water consumption** by up to 70 %
- **Longer life expectancy**

Typical applications of HOPPECKE SYSTEMIZER® Xpress

- Light-duty operation
- Normal operation
- Heavy-duty operation
- Shift-plus operation without equalizing charges



SYSTEMIZER® Xpress-System



Features and benefits

If you wish to minimize operating costs through reduced energy consumption and increased availability of your battery system, then HOPPECKE SYSTEMIZER® Xpress is the ideal solution for you.

The high-quality SYSTEMIZER® Xpress system comprises a HOPPECKE traction battery with electrolyte circulation and a micro-processor-regulated charger to ensure rapid and gentle charging of the battery.

HOPPECKE SYSTEMIZER® Xpress principle

When a battery is charged, concentrated sulphuric acid is formed.

In comparison with “normal acid”, concentrated sulphuric acid is heavier, and sinks towards the bottom of the cell, resulting in acid stratification. To cancel out this stratification, mixing of the electrolyte is usually achieved through rising gas bubbles. In standard systems, this gas is produced by defined overcharging of the electrodes. However, this deliberate overcharging means increased energy and water consumption, extended charging times and higher temperatures.

The HOPPECKE SYSTEMIZER® Xpress concept avoids these negative consequences.

Air is introduced into the battery right at the main charging stage. The rising air bubbles circulate the electrolyte, thereby preventing stratification of the acid.

In comparison with other mixing methods, mixing of the acid by in-blown air gives the greatest efficiency combined with minimal stress on the plate group, and eliminates the need for the otherwise necessary weekly equalizing charges.



The singular SYSTEMIZER® Xpress principle

Up to 75% less overcharge

through SYSTEMIZER® Xpress electrolyte circulation and system-optimized charging technology

■ Reduced power consumption

- Lower energy costs

■ Charging times cut by up to 2.5 hours

- Higher battery availability
- Fewer changeover batteries needed

■ Up to 70% less water consumption

- Lower water and topping up costs

■ Battery temperature level reduced by approx. 10 °C

- Longer life expectancy

■ Reduced mechanical load on the electrodes

- Longer life in cyclic use

■ Compensation for the effects of mains power fluctuations through the use of regulated chargers

- Avoidance of insufficient charging and of overcharging

■ Pressure-monitored charging factor adaptation to ensure full charging

- Enhanced safety in operation

■ Capacity for opportunity charging without equalizing charges

- Extended duration of battery usage time

■ Compensation for varying battery charging performance through the IU1a characteristic

- Ensures optimal charging throughout the whole life of the battery

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