

*A reliable energy package useable
in any kind of applications*



System
Fiamm Motive Power
energy LM 70

Fiamm Motive Power Systems

System Fiamm Motive Power energy LM 70 offers a reliable energy package useable in any kind of applications

You would never think that “heavy duty” could be associated with “reduced maintenance”. Fiamm Motive Power energy Low Maintenance 70 demonstrates that this is achievable!

Fiamm Motive Power energy Low Maintenance 70 is a brand new system that offers the customer a reliable energy package suitable for all kinds of applications from low duty to heavy duty, with greatly reduced maintenance. This solution comprises of a battery with air mixing and aquamatic system and a HF charger communicating with the battery through an electronic device mounted on the battery.

Fiamm Motive Power energy Low Maintenance 70 is a unique motive power system which combines many benefits for the customer very low maintenance solution.

The widest range of applications

The flooded technology with integrated airmixing system on the battery provides a robust and reliable solution for all kinds of applications and duties. Suitable for use in cold stores. The PzX cells with airmix offer higher capacities and a full range ensuring suitability in all types of electric trucks. The PzX cells of the Fiamm Motive Power energy Low Maintenance 70 system meet dimensions of standards EN 60254-2 and IEC 60254-2. The Fiamm Motive Power energy Low Maintenance 70 battery is capable of accepting opportunity charges due to its electrolyte circulation system.

Reduced maintenance

The low charging factor results in lower water consumption this means a maintenance interval of up to 70 cycles between watering. This corresponds to 3 months in a single shift



application. The maintenance period will be even longer if the battery is discharged less than 80% C₅. The single point watering system, Aqualevel, fitted as standard on the Fiamm Motive Power energy Low Maintenance 70 batteries, allows single point topping up of all cells to the correct level. The Aqualevel vent plugs permit the measurement of electrolyte specific gravity. Fiamm Motive Power electronic device mounted on the battery integrates an electrolyte level indicator, that monitors and alerts of the need for topping up. The Fiamm Motive Power energy LM charger can be optionally equipped with a solenoid valve kit that automatically manages the topping up with a specific coupling. With such a feature, the battery is then self maintained, as the configuration of the system automatically takes care of the maintenance for you. Alternatively, Fiamm Motive Power Service can offer you a service contract to meet your requirements.

Benefits

- **Widest range of applications**
For all kinds of applications and duties. Suitable for use in cold stores.
- **Low maintenance costs**
The configuration of the system automatically takes care of the maintenance for you.
- **Intelligent charger**
The charger automatically adapts the charging regime and profile,
- **Recharge energy savings**
Up to 20 % (compared with conventional type motive power chargers).

- **Optional**
The battery can be equipped with a central degassing system for applications where the battery is kept in the truck during charge or is covered by a lid. This system brings improved safety in this type of operation.

Fiamm Motive Power energy dry
 Fiamm Motive Power energy plus
 Fiamm Motive Power energy plus with electrolyte mixing
 Fiamm Motive Power System energy LM 200
 Fiamm Motive Power System energy LM 70

Low duty	Normal duty	Heavy duty
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Intelligent charger and communication

Fiamm Motive Power energy Low Maintenance 70 is a system. The easyplus, electronic device located on the battery, stores data about the battery (identity, technology, capacity, temperature, voltage) and communicates this information to the Fiamm Motive Power energy LM charger. It then automatically adapts the charging regime and profile, in relation to the battery temperature to ensure accurate charging everytime.

Optimum charge by efficient high technology chargers

The Fiamm Motive Power energy LM charger offers a charging time of 8 or 12 hours (other charging times on demand). The charger automatically monitors the integrated air pump, ensuring air mixing. Any pressure fluctuations detected in the air circuit are transmitted to the charger which will automatically adapt the charging profile. These chargers provide the benefits of managing multicapacities, multivoltages (Serie Premium HF flex), and multiple battery technologies.

Best Combination

The Fiamm Motive Power energy LM 70 system is the result of in depth analysis of customers needs. It provides the best combination of efficiency and reduced maintenance available on the market today.

Its ability to communicate broadens the concept of e.maintenance and fleet management. Intelligent products for a sound financial investment.



energy Low Maintenance 70



Definition of application fields

1. Low Duty

- Single shift with light operation and discharge lower than 60% C₅
- Electrolyte T°C about 30°C

2. Normal Duty

- Single shift with discharge up to 80%
- Electrolyte T°C about 30°C

3. Heavy Duty

- Single shift with discharges of 80% C₅ and high discharging currents
- Opportunity charging to augment the usable capacity
- Multi-shift operation with or without battery changes
- High ambient temperature

European Headquarters:

EnerSys S.r.L.
Viale Europa, 73/A
36075 Montecchio M. (VI) - ITALY
Tel: +39 0444 607811
Fax: +39 0444 607911

www.enersys-fmp.com