

SOVEMA by MAC CURING SYSTEMS

MAC Engineering is proud to offer the Sovema by MAC Curing Systems.

- Cutting edge in curing/ drying technology
- ◆ Total control over atmospheric conditions
- Self cleaning atomizers, steam injection, or both
- Precision Tetra and Tri-Basic lead sulfate seeding
- Unparalleled drying capability
- Excellent design

Consider the Sovema by MAC Curing Systems as the next logical step to gain control of the curing and drying operation and to maximize your production and quality control.

At long last, the battery manufacturer can now have the ability to dictate the curing profiles and quality of cured plates in the curing process while slashing production times, inventory in process, and floor space requirements.

Historically, manufacturers have had to cure plates of different paste weight and grid thickness the same way.

The Sovema by MAC Curing System gives the manufacturer control over the process so that each plate is cured at a level of quality and uniformity unmatched by other systems. The Sovema by MAC Curing System is a true systems approach to curing.

The key elements include:

- Powered exhaust from the bottom of the chamber where the humidity is at its highest in the dry mode.
- Air flow supplied from two sides to provide complete coverage of all plate surfaces.
- Excellent construction design.
- Emphasis placed on timing and volume of air flow.

The air flow design, coupled with the control package, allows for tighter and more

consistent control on the environment inside the chamber.

The air flow is engineered for each application dependent on the customers needs to achieve consistent flow rates throughout the entire chamber. This includes the customers pallet or rack size, size requirements (12 pallet to 52 pallet) and if the customer is stacking the plates on pallets or hanging them on racks.

The variable speed fan, which is standard equipment on all Sovema by MAC Systems, gives an optimum range of air flow for the curing and drying cycles. The variable speed in curing allows for little air flow to destratify the chamber. In drying, accelerated air flow is required. Nothing can dry as fast as a Sovema by MAC Curing System.



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ADVANTAGES OF SOVEMA BY MAC CURING AND DRYING SYSTEMS INCLUDE:

Design Build means we design our chambers specifically around your needs. No two battery manufacturers have the exact same plate so your curing and drying chamber should be unique to you. The recirculation rate, exhaust rate, heat input, humidity controls, chamber size, chamber access, and plenum locations should be specific to your plate, racks and curing/drying requirements. Only Sovema by MAC designs each and every chamber specifically around your needs with rugged stainless steel fabrication.

Air flow - designing an air flow pattern specifically for your needs is our first priority. In the dry mode, we subject the plates into the very highest re-circulation rates in the industry (3 to 5 times greater than our nearest competitor).

An emphasis on laminar air flow so that all plates are subjected to the very same conditions, allows us to cure and dry your plates with great consistency and quality.

The Automatic Fabric Fold Up Door is not only a tremendous space saver, but allows for ease of operation and the two-ply construction creates an air lock, which adds insulation value to the door. A tight seal between the door and the frame is a must, and the door is designed for a very tight fit with weather seals on both sides and on the bottom beam to seal to the floor, providing the very best seal for humidity and temperature for any door system in the industry. The Fabric Fold Up Door has been on units for over five years without any need for adjustments.

Variable Frequency Drive For Re-circulation means that you can have a very low re-circulation rate during the curing phase.

Power Exhaust Pulling
From The Bottom Of The
Chamber - The highest
relative humidity in the
chamber will always be at
the floor level. During the
drying phase, we are
exhausting the air with the
highest relative humidity
first. By ducting the powered
exhaust from the floor, we
are removing the wet air
from the chamber quicker
and with more efficiency.

Proven Experience Sovema by MAC is the
highest standard of
excellence in the lead acid
battery manufacturing
industry. Our emphasis on
exact atmospheric controls
and knowledge of air flow is
why the battery industry
chooses SOVEMA BY
MAC as their curing and
drying
partner.



Helping to make the best batteries...yours.

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For a preview of our equipment visit: www.mac-eng.com