

INDUSTRIAL DEHYDRATOR

SOLUTIONS




Smart Balance Precision for
Process Repeatability


MARLEN
A DURAVANT COMPANY

UNIFORM DEHYDRATION. REPEATABLE RESULTS.

PERMANENT AIR BALANCE ENSURES REPEATABLE AND CONSISTENT PROCESSING CONDITIONS DAY AFTER DAY.

ur innovative thermal processing technology delivers the uniformity and efficiency no other industrial dehydrator can match. Featuring the most robust sanitary construction and most efficient mechanical design, its fans, ducts, air plenum, and alternating dampers work together to enhance airflow, resulting in consistent processing conditions for precise, repeatable results.

ADVANTAGES OF MARLEN DEHYDRATORS

UNIFORM PROCESSING CONDITIONS

Permanent balance of supply and return air results in full control of the all-important “breakpoint” – the physical point at which the high velocity air mass collides with the low velocity air mass. Marlen’s permanently balanced system ensures that the breakpoint stays where it’s supposed to be, which is essential for repeatable process, quality, and uniform product.

EASE OF OPERATION AND MAINTENANCE

Efficient air handling system eliminates the need for balancing or adjustment of any kind, while control is made easy with Powis Corporation technology, the most responsive and intelligent computer control system in the industry. An ‘Auto-Report’ feature collects and emails completed cook-cycle data so that plant management can stay in the loop, even when they are not in the plant. A generous service access area enables change-out of wet bulb wicks while the oven is loaded with product. Now, this is truly easier operation and maintenance.

LESS ENERGY CONSUMPTION

Unique design requires 20-25% less horsepower to deliver the same air flow as other single-fan dehydrators and up to 50% less horsepower than multi-fan ovens. Efficient management of process air ensures that product and process minimize energy consumption.





INNOVATIVE DESIGN FEATURES



Single-inlet, backward-incline fan uses less horsepower to achieve required airflow for uniform cooking



Shaft and gearbox driven damper design replaces unreliable roller-chain drives



Pitched roof allows drainage from center to sides and drains to front side of oven



Hinged supply ducts allow for safe and easy access to dampers and/or CIP nozzles



Wall skins welded to internal frame to prevent wall distortion



45° wall-to-floor deflectors enhance airflow



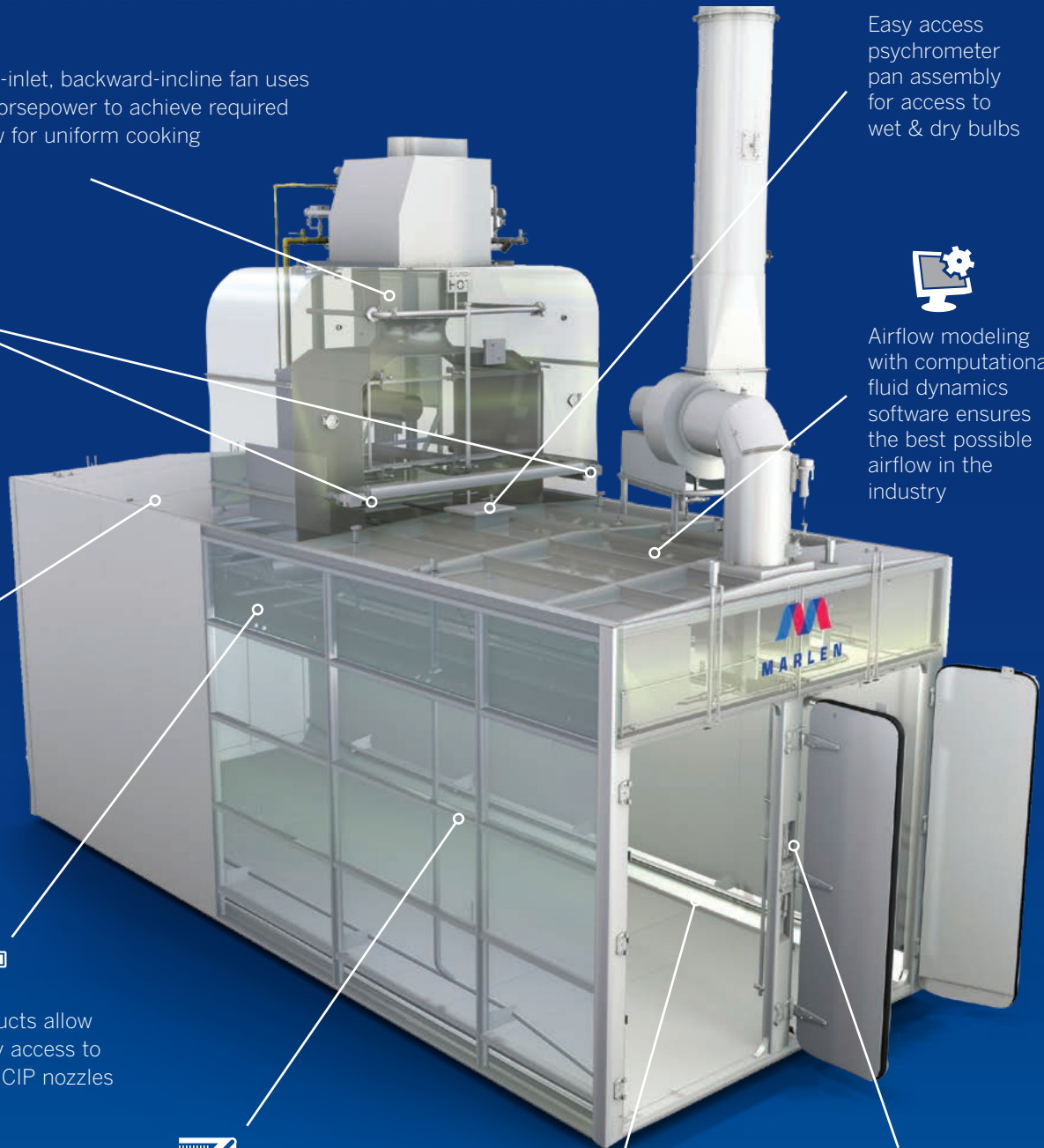
Easy access psychrometer pan assembly for access to wet & dry bulbs



Airflow modeling with computational fluid dynamics software ensures the best possible airflow in the industry



Recessed door handles, inflation switchgear, and flow meter ensure longer life



ABOUT MARLEN

Recognized as a global manufacturer of highly engineered food processing equipment and systems, Marlen designs and builds innovative solutions for the food processing industry.

Our premium products have long set the standard for quality and performance in vacuum stuffing and pumping, portioning, size reduction, thermal processing, and food handling.

We assure value to our customers through the highest consistency, accuracy, and product integrity. Our teams of expert engineering, design, and technical personnel consult, collaborate, and partner with you to create custom solutions for your business.

Marlen has been trusted by leading food brands for over 60 years. Our world-class Solution Centers strategically located across the globe, allow processors to lean on our highly experienced food processing technologists to develop and test unique solutions for your products. Marlen is a Duravant Company and is backed by SupportPro, a complete lifecycle management program for parts and service.



It's the Company behind the machine that makes the difference.



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