

ODEN PROCESS EQUIPMENT GROUP

**Automated Alternatives
for Liquid Products Blending**



*Helping Companies Increase Profits
While Protecting the Environment*

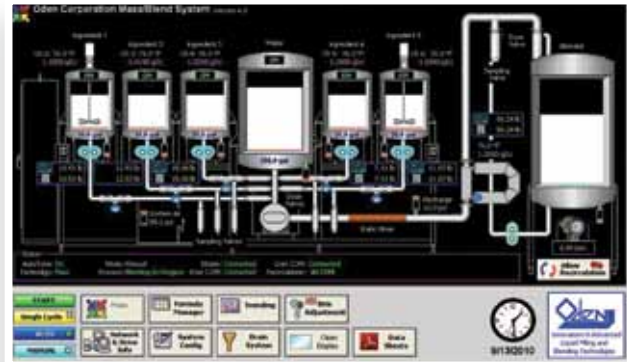


PROCESS EQUIPMENT GROUP

GEN3 Mass/Blend®

Continuous Stream Digital Blending Systems

The MASS/BLEND® Continuous Stream Digital Blending System represents a quantum leap forward in blending system design, eliminating many of the problems associated with large liquid batch preparation and providing more compounding flexibility, faster product turnarounds, shorter practical run capabilities, and superior product quality.



Scaleable Pilot Plant Unit

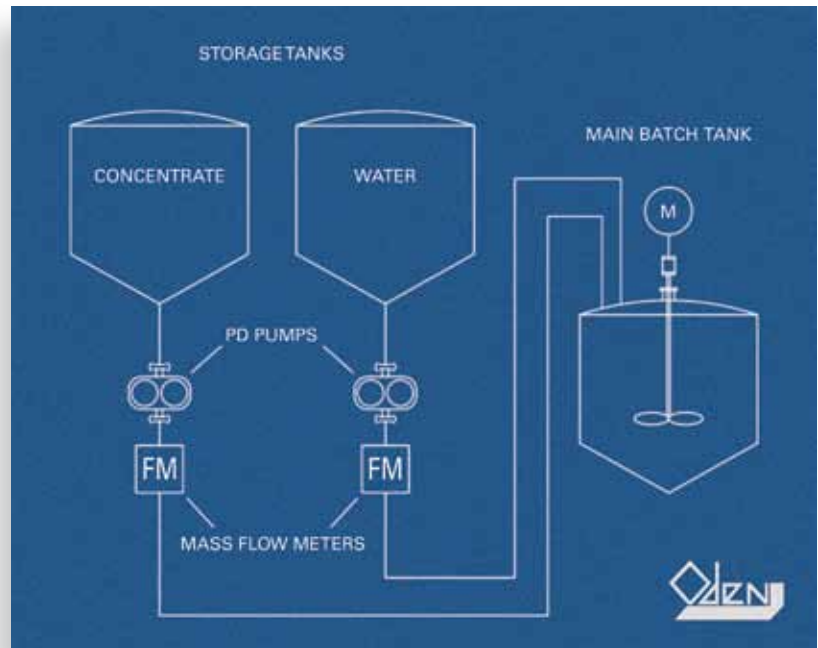
Sustainability By Design

- Maximize plant capacity
- No start/stop problems or penalties assure accuracy, and ease of use, while reducing waste
- Reduce cleaning effluents
- Reduce labor costs
- System operates only on demand reducing utility costs
- Reduce component waste
- Reduce inventory
- Achieves steady state immediately
- Expandable by design for future growth requirements or ingredient stream recipe changes



Automated Batch Addition Systems

- Reduce batch cycle times and associated operating costs
- Boost accuracy of bulk additions
- Enhance bulk product repeatability
- Improve adherence to established specifications
- Fully and semi-automatic single or multiple channel precision liquid product metering – pretested, performance guaranteed
- Mass meter and loss in weight scale-based systems for net weight applications or SPC requirements.
- Simultaneous bulk raw ingredient addition
- Precision metering and dosing of color, fragrance, vitamins, actives and claim ingredients
- Concentrate dilution
- Your choice of factory standard OEM component brands
- Full installation, integration and commissioning support



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Turnkey Liquid Product Transfer Systems

- Oden Process Equipment Group supplies turnkey transfer systems from raw material bulk supply to blending equipment and batching vessels and on to your packaging lines
- Systems are available for flow rates ranging from microliters to 300 gallons per minute without sacrificing accuracy
- Rugged, durable and flexible designs are available for a wide range of viscosities, temperatures, particulated products and are engineered for your unique chemical compatibility requirements
- Systems equipped with your choice of servo, PMDC motor, or AC variable frequency pump drives and fully integrated volumetric or mass flow meters
- Solutions include micro pump, CleanGear® sanitary gear pump, rotary lobe, progressive cavity and air operated diaphragm pump configurations
- Available with stainless steel bases, NEMA 4 washdown enclosures, and Class 1, Division 1, Group D explosion proof construction
- Electronic controls and software, level control integration and actuated valves to complete turnkey installations
- Highly proven state of the art systems prevent “re-inventing the wheel”



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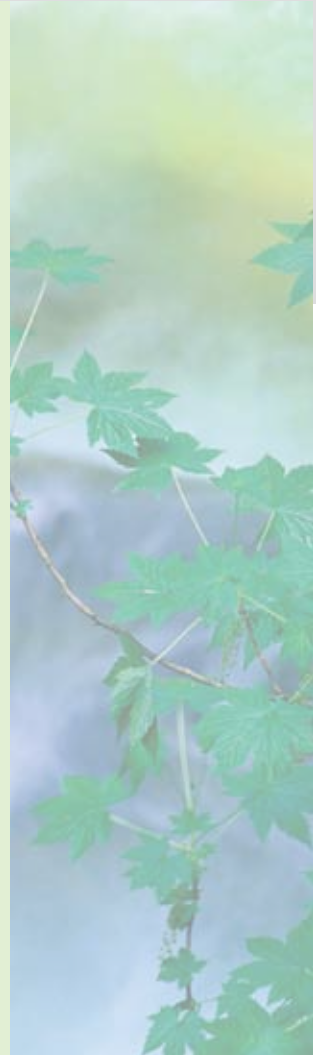
DRIVE VALUE THROUGHOUT YOUR ORGANIZATION

Oden Corporation/Green Frontier: a strategic corporate alliance that assists companies seeking to optimize their liquid products processing operations and at the same time reduce their impact on the environment and improve their sustainability performance.

The Oden/Green Frontier alliance provides sustainability and equipment solutions to companies of all sizes involved in liquid products processing. Market sectors include food and beverage, personal care, household products, pharmaceutical, and general industrial.

Benefits realized by our clients include: reduced labor costs, enhanced product quality, increased production capacity, and decreased generation of waste and scrap. This alliance combines industry specialists and world-class equipment to provide clients with turnkey offerings that drive value throughout their organizations.

Green Frontier advises companies of all sizes how to craft and implement unique sustainability strategies tailored to improve their environmental and social performance while creating value. Their primary services include Process Optimization/Design, Life Cycle Analysis, Environmental Footprinting, and Waste Elimination. Oden's Process Equipment Group designs and manufactures Mass/Blend® continuous stream digital blending systems, automated batch addition systems and turnkey liquid products transfer systems.



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Trademarks and Patents

Oden and Mass/Blend are registered trademarks of Oden Corporation.

CleanGear is a registered trademark of Niagara Pump Corporation.

US Patent Nos. 4,917,348, 5,186,905, 5,797,436, 5,878,796, 5,996,650, 6,186,193, 6,808,374 and 7,357,563 apply. Foreign patents pending.

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