



Pet Food Processing SYSTEM SOLUTIONS

Pet Food Processing Success



Focused on solving your challenges

Since 1992, APEC has developed processing systems to improve performance for a number of pet food manufacturers. Whether it is assembled from our large product line or a customized processing solution, our pet food customers have found APEC products improve their bottom line. In the past twenty-five years we have discovered the challenges the pet food industry faces and developed solutions to assist in meeting them. When our in-house engineers are developing process equipment and systems primary focuses are reducing costs from downtime and errors, as well as providing detailed tracking of inventory and product.

Increased Accuracy and Productivity

Our micro ingredient scales eliminate operator error from hand scooping, as well as reducing the risk of injury from repetitive tasks and exposure to harmful ingredients.

We prevent incorrect bin usage with our bin lid locks. When the ingredient for the proper bin is scanned that bin automatically unlocks. This procedure prevents mistakes because the operator is alerted to the correct bin to add the ingredient.

Our active free fall compensation weighing process increase the accuracy of weighments.

Seamless interfacing with your existing enterprise software avoids redundant data entry during the uploading and downloading of data.

Improved Tracking and Product Safety

Our Automation Pro provides a control system that precisely monitors and manages your process with durable and easily maintained components. It offers:

Bar coded confirmation of ingredients to assure they have arrived at the correct location.

Lot tracking of ingredients identify the arrival and usage of ingredients. Quality control and inventory is maintained by monitoring expiration dates through first in first out usage.

Every transaction is Time & Date Stamped providing detailed reports of usage and production throughout the entire process.

Pet Food System Solutions

The source for your process solutions

Our one source approach gives us the ability to customize the equipment and systems you require, as opposed to an “off the rack” answer. Over the years, we have found the following APEC processing equipment and systems to be exceptionally effective for our pet food manufacturing clients.

Liquid Coating

The Mistcoater SST is completely food safe. It is manufactured with all food grade components and all stainless steel contact surfaces. The design provides easier cleaning and maintenance for less risk of contamination. It offers a significant improvement over traditional spray systems to apply fat, flavorings, mold inhibitors or enzymes - which can quickly clog spray nozzles. Because we use spinning disks to atomize the liquid you never have to worry about clogged nozzles affecting the performance of the machine.

Weighing and Batching

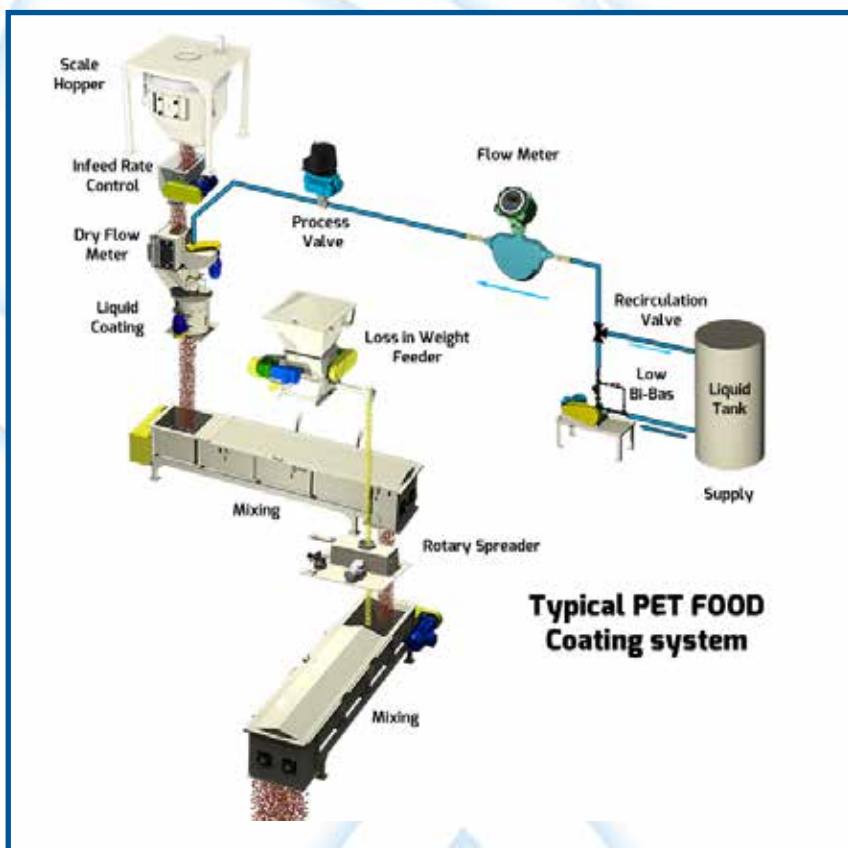
Micro Ingredient Scales are available in conical and rectangular scale hoppers with capacities from 55-550 liters with roll over hopper, slide gate, butterfly valve, or knife gate discharge. They include flanged inlet, solid top cover, flanged outlet, load cell mounts, load cells with mounting hardware, and summing box.

Automation Control

APEC Automation Pro allows formulas to be manually or electronically entered into the system. The system will automatically control the proper measurement of ingredient amounts into each scale.

The material is then transferred to the mixing operation where proper mixing cycle is handled, including mix time and transfer of ingredients to packaging or bulk load out.

With our large product line, our in-house engineers are able to design complete systems to meet your specific pet food processing needs.





Pet Food Case Studies

The Challenge

The tumble drum coater used to add fat and flavorings to the pet food was resulting in higher labor and downtime. This was due to many factors, such as:

- Suspended solids caused clogged spray nozzles and poor uniformity of coatings
- Excessive backpressure resulted in premature failure of the pumps and valves
- Fugitive particles from open ends created a slipping hazard and the need for constant cleaning
- A person had to enter drum for cleaning due to the excessive length of the coating drum and lack of access

The Solution

We outfitted the customer with the APEC Mistcoater; working within the available footprint. This machine is totally enclosed and uses spinning disks instead of spray nozzles to apply liquid to kibble. It is designed with full length access doors for easy access to all areas of the machine for cleaning.

The Result

Downtime required for cleaning the surrounding area was virtually eliminated, as well as the safety hazard. The product coating uniformity was greatly improved, since the fat and flavorings were atomized properly due to the Mistcoater's spinning disks. The customer has since replaced all of their tumble drum coaters with APEC Mistcoaters and utilized Mistcoaters in their new facility.

PROCESSING the ingredients for SUCCESS



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