

O. How do you explain that result?

A. Cooking oil can be heated to a much higher temperature than water. Water, of course, boils at 212° F in an open atmosphere, such as that of an open fryer. As moisture in foods is heated beyond 212° F in an open fryer, it is converted to steam, which in turn is released into the air. The moisture is then replaced in the heated food by cooking oil. However, when steam is trapped and pressure is created, the boiling point of water is changed (to 241° F at 12-15 lbs. of pressure). This means that as heat penetrates the product, the outer area loses enough moisture to crispen, while moisture and natural juices deeper in are retained, preventing the absorption of cooking oil while fully cooking the product. (continued on other side)

Why Broaster® pressure frying is superior to open frying.

(continued from other side)

Q. In addition to its effect on product appearance and taste, what are some other issues related to oil absorption that pressure frying improves?

As less oil is absorbed into pressure-fried foods – and because cooking occurs in a sealed environment which reduces cooking oil evaporation – pressure frying significantly reduces overall oil usage in comparison to open frying. Decreasing the amount of oil absorption also results in extending the oil's useful life. Over time this can result in substantial savings in cooking oil usage, which is often one of the most expensive aspects of preparing fried food. Additionally, because very little oil is transferred into foods, there is virtually no flavor transfer among products. This means that products like fish can be cooked in a pressure fryer without a "fishy" taste being left in the oil or transferred to other foods. While the oil does need to be filtered between such changes to prevent flavor transfer from crumb drop off, the need to change oil to prevent flavor transfer is thereby eliminated as well.

Q. Besides better tasting foods that absorb significantly less oil are there other advantages to the pressure frying process?

A. Most definitely. Pressure frying provides a gentle product turbulence and tumbling action that results in more even cooking. Additionally, by sealing the cooking vessel and building just the right amount of pressure, foods can be cooked significantly faster and at lower temperatures, which in turn results in dramatically less energy consumption. In the above referenced Southern California Gas Company study, energy consumption per pound of chicken cooked was found to be reduced up to 48% with pressure frying while the maximum production rate of cooked chicken per hour was found to be 2 to 3 times greater than that of open frying. (The Broaster Company offers both gas and electric models – the results are similar for electric versions.) That means greater food production per machine for a more efficient investment. Pressure frying is cleaner too. Because the fryer is closed and sealed during the cooking process, the opportunity for grease transmission to surrounding areas is significantly less. While a pressure frver is cooking, vapors are exhausted directly to the hood system above the unit, reducing greasy film and odors common with open fryers. The sealed cover and smaller opening of our round cooking well also result in reduced heat loss while providing a consistent, noguesswork cooking cycle, so operators can tend to other appliances at the same time for additional labor savings. Oil filtration is simplified too with a built-in system that makes the process fast, simple, and trouble-free. Various products are also available to aid oil filtration and extend useful oil life by extracting soluble liquid impurities that contribute to the bad taste and smell of used cooking oil.

Q. Does pressure-frying improve the nutritional values of fried chicken?

A. It can. The Broaster Company offers a unique process for preparing chicken. It begins with a proprietary marinade which provides an uncommonly delicious flavor which is driven right down to the bone through the pressure frying process. Because this delicious flavor profile results from the marinade rather than the outside breading, a much thinner coating of breading can be used. That in turn results in chicken with fewer calories, less fat, and a fraction of the carbs of the leading national brands.

An innovative marinade and seasoning combination available from The Broaster Company called "Broasterie®" takes full advantage of this fact, producing juicier, more flavorful rotisserie-style chicken via pressure frying while retaining the favorable lower levels of calorie, fat, and carbohydrate content of rotisserie oven cooked chicken, all in a fraction of the cooking time!

Broaster also offers two specially blended high-quality cooking oils — Bro-Oil® Rice Bran Oil and Bro-Oil® Canola Oil — both of which have \underline{no} trans fats, \underline{no} cholesterol, and are \underline{low} in saturated fat, for an even healthier end product.

Q. I want to cook more than just chicken in my operation. Do these advantages extend to other foods as well?

A. Absolutely. Broaster operators have discovered that the benefits of pressure frying can be extended to a wide range of products including potatoes, seafood, ribs, pork, vegetables, whole turkeys, corn-on-thecob, and even desserts like cheesecake! The list is limited only by one's imagination. And, you can work from either fresh or frozen product. In addition to our Chickite® Plus premarinated fresh chicken, The Broaster Company also offers a wide range of delicious frozen foods under the Broaster® Recipe brand name, all of which can be cooked to perfection quickly and simply in a Broaster® pressure fryer. Current offerings include cod, shrimp, corndogs, mozzarella sticks, pork tenderloins, hot wings, mini cheesecakes, and 8-piece-cut bone-in chicken, in addition to an assortment of boneless chicken products such as fillets, tenders, and popcorn chicken, the latter two of which are available in both traditional and spicy flavor profiles.

O. Why should I trust Broaster for my frying equipment needs?

A. The Broaster Company has been an expert in pressure frying since 1954, when our founder, L.A.M. Phalen, invented "broasting," as he originally called the process. In the more than 50 years since, The Broaster Company has developed as a leading manufacturer and supplier of pressure fryers along with other specialty foodservice equipment, accessories, and food product ingredients. Today's Broaster® pressure fryers build upon this proud history of innovation with the inclusion of advanced solid-state controls featuring 10 time and temperature presets, a round cooking well design with a specially engineered cold zone for superior heat distribution and improved oil filtration, and a reputation for durability beyond compare. Over 10,000 foodservice operators across North America and thousands more worldwide depend on their Broaster® pressure fryers to produce the world's finest chicken and other pressure-fried fresh and frozen foods.

See the difference for yourself ... contact your authorized Broaster distributor for a free demonstration!