



Plant-based milk alternatives

ADD LIFESTYLE AND VARIETY TO THE BEVERAGE MENU.

VEGAN COFFEE SPECIALITIES MARKET FIGURES AND DEVELOPMENT

Indulgence with a clear conscience

For more and more people, their mental and physical well-being and a desire for responsible and resource-efficient consumerism play a significant role in their lifestyle. Indulgence with a clear conscience is becoming increasingly important. This has motivated many people to reduce their consumption of meat and animal products or even do without them completely. This social change is making plant-based foods increasingly popular, as well as boosting the market for vegan milk alternatives based on soy, oats, almonds, peas and other plant varieties.



PLANT-BASED MILK ALTERNATIVES SIGNIFICANCE FOR COFFEE SPECIAL-ARE BOOMING

The growing demand for plant-based Today, coffee is much more than a between 2021 and 2028. The younger from any beverage menu. generation in particular, also known as Gen Z or post-millennials, is the main driver of this development. According to the Euromonitor Health and Nutrition Survey³, 54% of Gen Z consumers avoid meat and other animal products. For baby boomers, on the other hand, the figure is 34%.

Alongside a conscious decision in favour of plant-based foods, the increasing number of people with lactose intolerance is also fuelling demand. According to the Plant Milk Report⁴ by ProVeg e.V., 75% of the world's adult population is lactose intolerant

ITIES

dairy products worldwide is under- morning pick-me-up. The versatile bevpinned by surveys, market analyses erage has become a trend-oriented lifeand trend studies. For example, Ariz- style product that coffee drinkers use to ton's report "Non-Dairy Milk Market underscore their individuality and atti-- Global Outlook and Forecast 2019- tude to life. The increasing popularity of 2024" believes the global market is vegan foods is also reflected by higher likely to exceed \$38 billion by 2024, demand for coffee specialities based on growing at a compound annual growth plant-based milk alternatives. Vegan rate (CAGR) of 14% from 2018 to 2024. variations on the classic cappuccino or Data Bridge Market Research's² industry latte macchiato, as well as entirely new analysis comes to a similar conclusion, creations with soy, oat, almond, pea forecasting that the global market for and other plant-based dairy products, dairy alternatives will grow by 11.4% should therefore no longer be missing

of Gen Z consumers avoid meat and other animal products.³

www.arizton.com/market-reports/non-dairy-milk-market-size-analysis (March 2022)

² www.databridgemarketresearch.com/reports/global-dairy-alternative-market (March 2022)

nitor.com/article/the-rise-of-vegan-and-vegetarian-food (March 2022)

⁴ Source: Silanikove, N., G. Leitner & U. Merin (2015): The Interrelationships between Lactose Intolerance and the Modern Dairy Industry: Global Perspectives in Evolutional and Historical Backgrounds. (März 2022)

VEGAN COFFEE SPECIALITIES A CLOSER LOOK AT PLANT-BASED DAIRY ALTERNATIVES

A cappuccino please – but make it vegan!



Anyone who orders a coffee these days expects the best quality and a wide variety of options from which they can choose their personal favourite. With vegan milk alternatives, the beverage menu can be expanded to include new coffee creations, which helps tap into a larger customer base. The market has grown to offer a wide range of vegan milk alternatives. The experts at WMF took a closer look at four popular plant-based dairy products made from soy, oats, almonds and peas.

THE POPULAR PLANT-BASED MILK ALTERNATIVES FOR **SPECIALITY COFFEES**

ural variant* than oat drinks. To produce could cause the beverage to curdle. a better foaming quality of plant-based

The soy, oat, almond and pea drinks fre- dairy alternatives, manufacturers offer quently used for speciality coffees are so-called barista editions. Stabilisers are generally available in sweetened and added to these varieties, which results unsweetened varieties. Each of these in better foaming, thereby ensuring dairy alternatives is characterised by the desired foam consistency for the its individual taste, aroma, consistency respective coffee specialities or latte and foaming ability, which influences art creations. On the other hand, the the flavour and appearance of the cof- stabilisers ensure that the plant-based fee specialities prepared with it. The fat alternative retains its consistency when content also contributes to creaminess, combined with coffee. This is because with soy and pea alternatives in par- the acidity of the coffee or too great a ticular but also almond drinks contain- difference in temperature between the ing more fat in their unsweetened, nat- coffee and the plant-based alternative

^{*} May vary depending on the manufacturer.

VEGAN COFFEE SPECIALITIES

A CLOSER LOOK AT PLANT-BASED DAIRY ALTERNATIVES



FLAVOUR PROFILE

Depending on which manufacturer produces the soy drink, the products can differ significantly in taste, aroma, and consistency. Some taste neutral, some sweet and cereal-like, while others impart a bean-like, nutty and also earthy aroma. In addition, soy drinks are characterised by a long-lasting aftertaste. The consistency can vary from watery to creamy.

SUITABILITY WITH COFFEE SPECIALITIES

Soy drinks harmonise very well in principle with coffee and are well suited for creating a wide variety of coffee specialities. For products with a strong inherent flavour, care should be taken to use coffee beans with a medium to dark roast – this will not mask the coffee flavour.

FOAMING

As a legume, soybeans have a particularly high protein content and exhibit a high proportion of natural stabilisers and acidity regulators, which ensure good foaming stability at temperatures of up to 65 °C. In addition, the fat content of soy drinks makes for a really creamy foam and gives the coffee-soy beverage a nice texture. Thanks to these properties, soy drinks can also be used to create imaginative latte art designs.



FLAVOUR PROFILE

During the production of oat drinks, the cereal starch is converted into sugar. Therefore, this process lends the milk alternative a slightly sweet taste, even if unsweetened. In addition, oat drinks contribute a cereal-like or nutty aroma that ranges from subtle to pronounced.

SUITABILITY WITH COFFEE SPECIALITIES

The slight sweetness, cereal overtones and creamy consistency of oat drinks allow the coffee to shine and rounds off the flavour profiles of coffee specialities wonderfully. Oat drinks are therefore also well suited for light roasts as well as fruity and acidic roasts. Another advantage of oat drinks: Thanks to the creamy texture, the drinking sensation of oat-based coffee specialities is similar to those prepared with cow's milk, making them ideal for introducing customers to new beverages.

FOAMING

Oat drinks have a rather low protein content. To achieve stable, uniform foaming results, oat drinks must be foamed for a longer period of time. However, thanks to their high stability, even at higher temperatures (higher than cow's milk: 65 °C) oat drinks can be heated for longer periods without causing unpleasant flavours.



FLAVOUR PROFILE

Almond drinks are characterised by a rather watery consistency. In terms of flavour, these milk alternatives definitely exhibit some sweetness and contribute a nutty aroma. Sometimes they can also have a slightly bitter, lingering aftertaste due to the almonds on which they are based.

SUITABILITY WITH COFFEE SPECIALITIES

In speciality coffees, the slightly bitter almond aroma and comparatively high acidity can overpower the flavour profile of the coffee. Aromatically, the milk alternative harmonises well with light roasts, for example, to which it lends its popular almond aroma.

FOAMING

Almond drinks are very difficult to foam because of the protein density. The foam layer becomes rather thin, with large bubbles and high sensitivity to temperature – often the foam collapses at temperatures above 55 °C or when mixed with coffee. This should be taken into account when developing recipes. Almond drinks also come in a variety of barista editions, which may offer better foaming quality.



FLAVOUR PROFILE

Pea drinks are usually made from water, pea protein, canola oil and natural flavours. Depending on the variety and manufacturer, sugar, emulsifiers and stabilisers are also added. In terms of flavour, pea drinks have a slightly cereal-like, nutty aroma, contributing a slight sweetness. Depending on the manufacturer, pea drinks can also be characterised as slightly bitter and tart with a somewhat rough finish.

SUITABILITY WITH COFFEE SPECIALITIES

In combination with coffee specialities, the high fat content of pea drinks adds a particularly creamy and velvety consistency to beverages. Thus, pea drinks complement coffee very well and at the same time leave plenty of room for it to develop its individual flavour.

FOAMING

Pea drinks have a high protein content compared to soy drinks. This makes them particularly easy to foam. A nice, firm and creamy foaming consistency can be achieved at a temperature of around 65 °C – ideal for stable foaming and creative latte art.

Various manufacturers
have developed special barista
editions that, thanks to added
proteins and stabilisers, enable
the desired foaming ability
with the usual ease.

VEGAN COFFEE SPECIALITIES WMF SOLUTIONS

The dream duo for vegan coffee specialities

Whether classics based on cow's milk, vegan alternatives or even trendy drinks such as cold-brewed or flavoured coffee specialities: there should not be any compromises when it comes to beverage quality. This is where WMF coffee machines offer the security that the various beverages are always prepared with the same quality in a process-safe manner, regardless of whether the machine is operated by staff or by a quest.

WMF 2-MILK SOLUTION

WMF's 2-Milk Solution lets you offer your customers greater machine. So customers can select their preferred coffee cre-



variety by giving you the option of connecting two differation with their choice of regular milk or an alternative like ent milk alternatives to the same WMF professional coffee plant-based milk or low-lactose milk. Whatever their preference, they can be sure of savouring the perfect milk or milk foam with every speciality beverage.

HOW WMF 2-MILK SOLUTION WORKS

Available on machines with the WMF Dynamic Milk system, the 2-Milk Solution makes it possible to attach two different milk alternatives to the same machine, for example adding low-fat or low-lactose milk1 to the menu, or plant-based alternatives like soya, oat or almond drinks². Beverages using each alternative are easy to configure in the software, and the choice for the next beverage can also be changed in either Pre-Select or Post-Select mode. WMF Dynamic Milk allows the fully automatic production of four different consistencies of hot milk foam and three variations of cold milk foam, as well as hot and cold milk. The milk is heated by steam and thus resembles the traditional output from a semi-automatic machine, preserving that authentic, milky taste.



STEAM SYSTEMS

Our integrated steam systems add another dimension to your WMF professional coffee machine, allowing you to offer as wide a variety of beverages as possible. Whether the people using your machine are absolute beginners or aspiring baristas, they'll find an advanced but easy-to-use steam system that matches their needs on every WMF machine. You can use it to heat beverages like mulled wine, and to froth milk to perfection, for example when you want to create latte art or froth milk from an external source. Simply choose the system that best matches your business needs, and you'll be ready to satisfy your customers' beverage desires.



This system can be used to quickly and easily warm a variety of beverages from hot chocolate to mulled wine, and to heat and froth milk manually if requested by your customer.



EASY

Designed to prepare hot beverages or to manually froth milk from an external source, this system features a semi-automatic steam wand that switches off on reaching the prescribed temperature, making traditional milk frothing much easier.



AUTO

The separate steam wand of the Auto Steam system allows users to customize milk foam density for each individual coffee creation, and produces three different types of milk foam completely automatically at the side. The system also makes it simple to heat milk and prepare a variety of hot beverages.

^{99.9%} lactose-free, as cross-contamination of the milk types cannot be ruled out

Percentage of milk foam may vary depending on plant-based milk



DESIGNED TO PERFORM