



LONG-SHELF LIQUID DAIRY PRODUCTS: TRADITIONAL AND INNOVATIVE

TRENDS AND PROSPECTS









ABOUT THE SPEAKER

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EXPERIENCE IN SALES AND MARKETING MANAGEMENT OF OVER 20 YEARS OF WHICH IN THE DAIRY INDUSTRY – 14 YEARS



Find in any social networks # TDNT_Engineering

EXPERIENCE IN COMPANIES







ABOUT THE COMPANY

Extensive expertise in the production of aseptic beverages: dairy industry, plant-based beverages, beverage industry, baby food, including solutions for warm shelves and cold supply chains





SUPPLY OF PROCESSING AND PACKAGING EQUIPMENT BASED ON REFURBISHED **TETRA PAK EQUIPMENT**



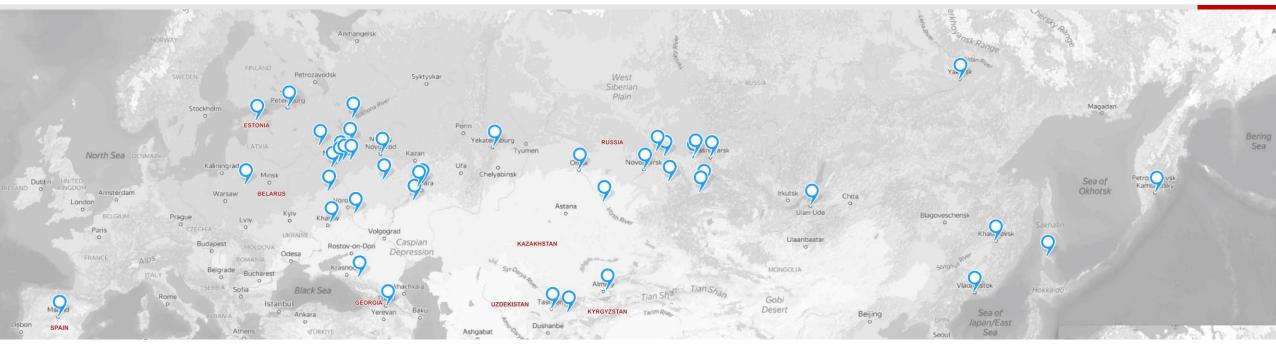
TECHNICAL MAINTENANCE, REFURBISHMENT AND MODERNIZATION OF TETRA PAK EQUIPMENT



PROCESSING EQUIPMENT OF OUR OWN PRODUCTION







ABOUT THE COMPANY

Extensive expertise in the production of aseptic beverages:

dairy products, juices and nectars, plant-based beverages, etc.

TDNT ENGINEERING DEPARTMENTS

- Krasnodar (Head office, Production site №1)
- Krasnoyarsk (Refurbishment center, Production site №2)
- Moscow (Project office)
- Rostov-on-Don (Representative office)
- Omsk (Representative office)

GEOGRAPHY OF COMPLETED PROJECTS

- Russia
- **CIS** (Belarus, Georgia, Kazakhstan, Kyrgyzstan, Uzbekistan)
- Europe (Spain, Estonia)





WE ARE TRUSTED BY







HUMANITY HAS BEEN DEVELOPING FOOD PRESERVATION TECHNOLOGIES FOR THOUSANDS OF YEARS







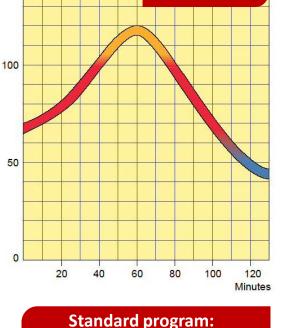
Temp.ºC

150

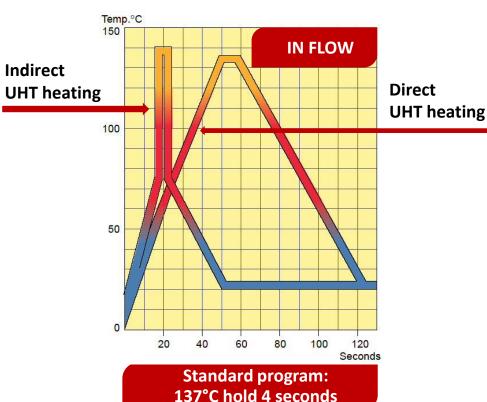


A REVOLUTIONARY BREAKTHROUGH FOR LIQUID DAIRY PRODUCTS UHT TECHNOLOGY

TEMPERATURE PROGRAMS



121°C hold 20 minutes







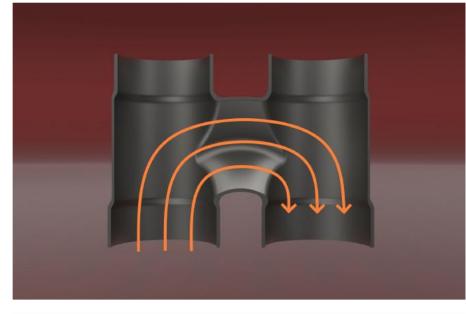


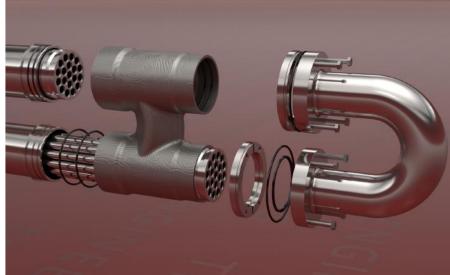
A REVOLUTIONARY BREAKTHROUGH FOR LIQUID DAIRY PRODUCTS UHT TECHNOLOGY

IMPLEMENTATION OF INNOVATIVE SOLUTIONS

Thanks to the use of SLM technology, it was possible to create a unique form of nodal connections in the circuit of heat exchanger service media

This made it possible to reduce the risks of increased pressure and mixing with the product









A REVOLUTIONARY BREAKTHROUGH FOR LIQUID DAIRY PRODUCTS Light, smell, **UHT TECHNOLOGY** air Moisture, Internal water splashes tightness PACKAGING COMPOSITION 2 1. Outer coating 2. Cardboard 3. Lamination 4. Aluminum foil 5. Inner coating 1 Package 6. Inner coating 2 rigidity 7. Product Microbiological barrier





GLOBAL TRENDS: UHT MILK

- The market size in 2024 is estimated from 67.81 / 74 to 130.77 billion USD
- BUT! All experts see (CAGR) 2025-2033 from 5.1 to 6.1%
- During the forecast period, the global share of UHT milk according to various estimates is from 25 to 35%
- The main growth region is the countries of the Asia-Pacific region
- The main world markets for UHT milk:
 - Asia-Pacific
 - North American
- Key global players: Nestle SA, Groupe Lactaliis SA, Fonterra, Danone Group and others

GLOBAL REASONS FOR GROWTH:

- Retail and marketplace needs («warm shelf»)
- Consumption growth in developing countries («low base effect») and change in consumption type
- Lifestyle change («consumption on the go», etc.)
- Innovative products (lactose-free, fortified)
- Consumption growth through HoReCa (LSC packaging growth trend)











GLOBAL TRENDS: UHT MILK

RUSSIAN FEDERATION MARKET

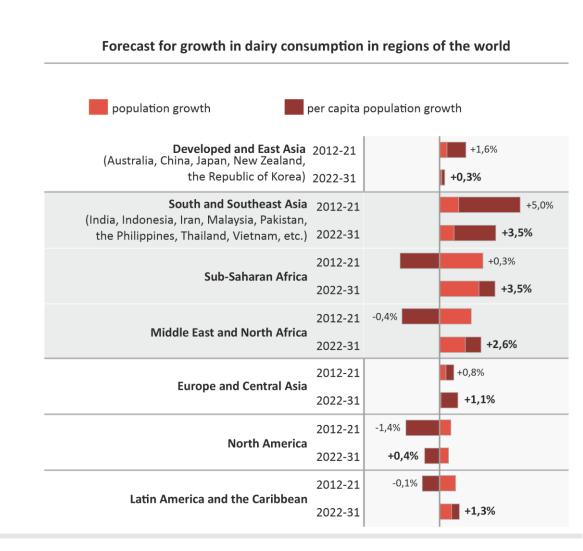
- The share of UHT milk is stable, according to various estimates, it is from 22 to 24%, with 1.03% (GAGR)
 BUT! Growth of the UHT cream category: 7.2% in 2024, CAGR - 6.8%
- Growth of the lactose-free milk category (**by 55%** in 2024, share of **1.2%** in drinking milk)
- Fortified (functional) drinks the start of a new category
- Growth of LSC for HoReCa

MARKET OF THE REPUBLIC OF KAZAKHSTAN

• The share of UHT milk is stable at about 48%, with 3% (CAGR)

MARKET OF THE REPUBLIC OF UZBEKISTAN

The most promising market in terms of its development.
Consumption growth is about 8-10% per year. Large population and reorientation to packaged milk, as well as a change in the structure of consumption under the influence of Westernization







TREND: LSC (LARGE SIZE CONTAINERS) – HORECA

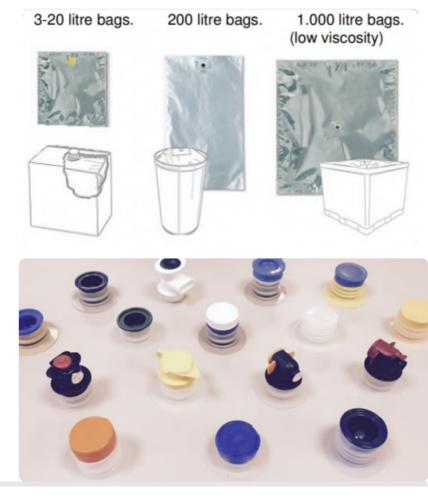
Large fast food chains with large-scale consumption are faced with the inefficiency of using UHT milk, milkshakes and soft ice cream in 1L and 2L packages

Main problems: high cost of packaging, large volume of waste, etc.

Large HoReCa (fast-food) establishments are moving towards aseptic BiB (**3-20 L**) formats and returnable sterile containers (**B2B 500/1000 L**)



At the moment, the TDNT Engineering team has implemented 2 similar projects in the Russian Federation. Another project is at the implementation stage





TREND: GROWTH OF UHT CREAM

One of the fastest growing segments on the Russian dairy market is ultra-pasteurized cream

High growth rate of the category (GAGR)



Of the 16 projects implemented over the past three years, 15 projects have a cream program













· СЛИВОЧНОЕ ·

TREND: CONSUMER AND RETAIL -GROWTH OF PORTION FORMAT

Changing lifestyle – **«Life on the go and consumption on the go»** Growth of **«on the go»** consumption formats: different types of snacks for one-time consumption

2

Changing socio-demographic portrait within the framework of modern post-industrial society

Reduction in the number of family households and increase in the number of single householders









THERMIZED YOGURT: A SUCCESS STORY

THE FIRST INNOVATIVE YOGURT IN CHINA

In 2010, Bright company launched the production of the first aseptic yogurt **Mosili'an** in China. TPA 200 ml packaging format

Market estimate of the growth of the aseptic yogurt market share in the yogurt category from **0% to 86%** as of 2023 (at least 11.5 billion packs per year)



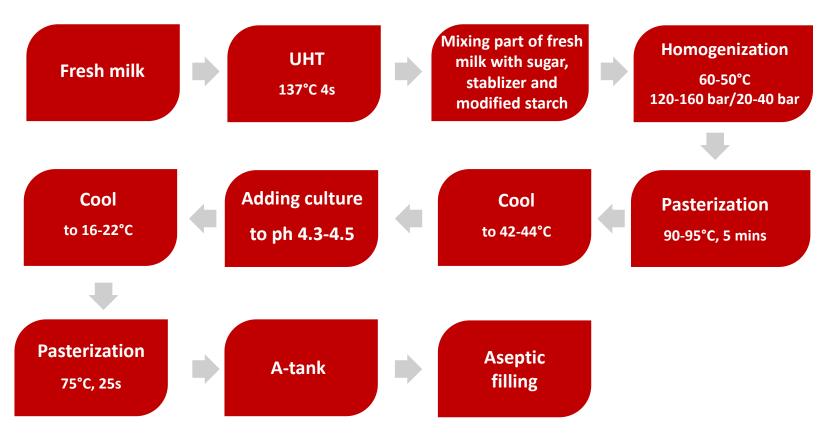






THERMIZED YOGURT: TECHNOLOGY

TECHNOLOGICAL ASPECTS USING THE EXAMPLE OF ASEPTIC YOGURT (PRC)







THERMIZED KEFIR

IT IS MORE PROFITABLE FOR RETAIL TO WORK WITH «WARM SHELF» PRODUCTS

REQUEST FOR ASEPTIC KEFIR DRINKS, YOGURT AND SOUR CREAM

These products are already presented on the market of the Republic of Kazakhstan

TDNT Engineering has implemented the first project in Russia – a kefir drink with a long shelf life (4 months) for the «warm shelf»



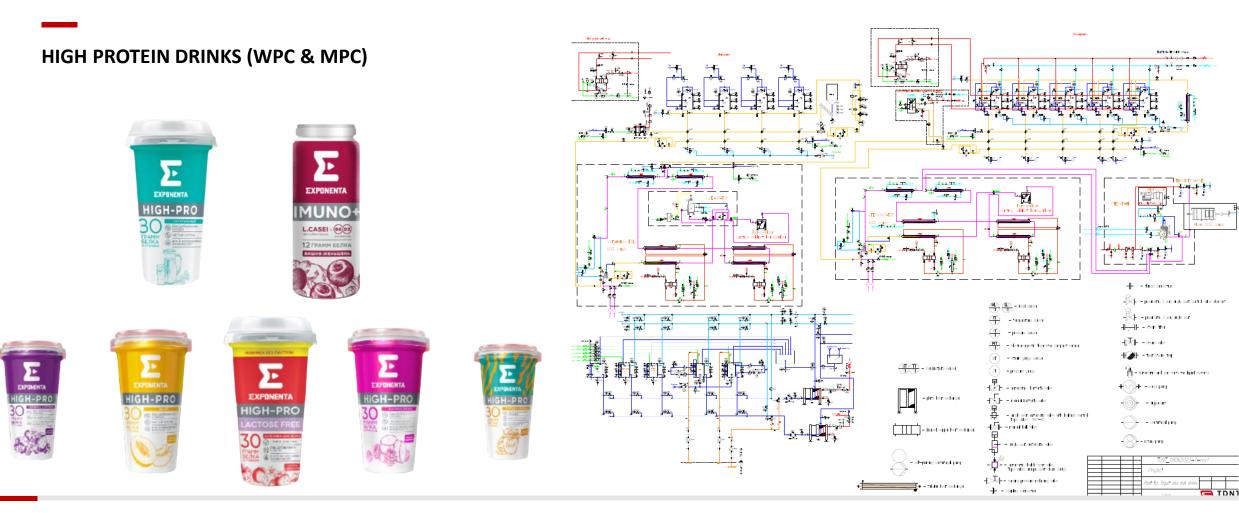








NEW CATEGORY: FUNCTIONAL DRINKS







FUNCTIONAL DRINKS

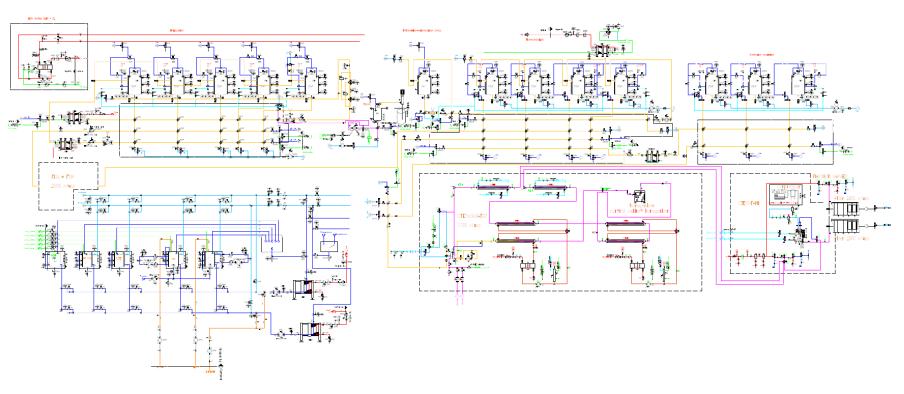
MAIN INGREDIENTS:

• Milk proteins:

WPC – whey protein concentrate for thermized fermented milk products

MPC – milk protein concentrate for UHT

- Vitamins
- Minerals
- Flavourings



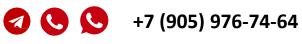




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