Sustainable manufacturing for healthy living

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EVP Processing Solutions and Equipment
Tetra Pak
Global drivers of change towards 2030

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EXPECTED FACTORS  BRANDS  ADDED VALUE
Health has been a top trend for a long time, but it is now reaching new heights. Consumers are seeking a healthy lifestyle through all of life’s perspectives – which impacts on what we consume, how we work and exercise for mental wellbeing – they all play a major role in projecting a healthy self image.
With continuing population growth and an increase in extreme weather events, the planet and food supply are under a great deal of stress. **Consumers are becoming increasingly aware of the need to preserve and protect the world’s resources** for future generations. There is now almost an expectation that brands ensure what they offer is kind to the planet and to humans.
World’s first fully renewable package
Tetra Rex® Bio-based

The first fully renewable carton package on the market

Using materials from renewable resources for the cap and the packaging material coating

Manufactured solely from a combination of plastics derived from sugarcane and paperboard

10 countries
23 customers
34 brands
9 awards
Strategic development direction
For processing equipment and solutions

Food safety
Ensuring the processing quality and safety

Environment
Improving energy/water efficiency, reducing product losses

Customer cost reduction
Providing operational cost reduction

Flexibility
Providing higher modularity

Today’s energy and environmental concerns call for technology that produces more and consumes less.
Enapt™ Technology – inspired by low friction in space
New Tetra Pak® Separator technology launched in 2018

- The further from Earth – the lower the pressure
- Less air friction around the bowl means less energy required to spin
- Lowering the atmospheric pressure reduces the friction
- Reduced energy consumption 40%
New homogenization technology
- less environmental impact

New digital Tetra Pak® Homogenizer 250 launched in 2018

- Steam barrier solution: 12%
- Water recycling Smart Control: 70%
- ‘Turnable’ parts doubles the life time + self diagnostics: x2

Lower operational costs – lower utility costs
Whey processing – reduces the environmental impact
‘Plug-and-play’ whey filtration units make it easy

What is whey?
- Yellow-green liquid remaining after cheese making
- 1 kg of Cheese production generates 9 kg of Whey
- Nearly 50% of the solids in milk are in the whey
- It’s mainly water
- 75% of the solids is lactose and 5% are valuable whey proteins
- Valuable as food ingredient

Why process whey?
- Reducing food losses
- Reducing effluents loads
- Water savings by water reuse
- Low energy consumption

Membrane filtration
Plug-and-play units for whey filtration
Water savings
Lower energy consumption
Cost-effective way to eliminate volume
New Ice Cream Filler - designed for lesser impact
Tetra Pak® Ice Cream Filler A3

18% Reducing effluents thanks to reduced product waste and “give-away”

25% Fast and easy cleaning reducing detergent and water usage

17% Optimizing equipment and systems secure minimized CO₂ impact
Partnership enables uniform high quality
Tetra Pak® Standardization unit with continuous protein control

Launched 2019:
The only method for the continuous accurate measurement and control of protein and fat

Unique collaboration between the experts in milk standardization and milk analysis

Unique guaranteed ratio performance for continuous fast and accurate data and reaction to data

FOR THE BEST ROI ON THE MARKET

500 measures / 7 sec
A holistic view on line design

Example: ‘OneStep’ UHT line reduces the environmental impact

- Lower operational costs: 20-40%
- Less footprint: 35%
Whatever you produce. Whatever your priorities.
Environmentally sound solutions and equipment

OneStep technology for UHT milk production

Tetra Pak® Separator with Encapt™ and AirTight technology

Tetra Pak® Standardization unit with continuous protein control

Tetra Pak® Homogenizer 250

Membrane filtration in cheese production & whey treatment

Tetra Pak® Tubular Heat Exchanger with P2P technology

Tetra Pak® Ice Cream Filler A3

Minimized product losses

Recovered heat

Reduced waste water

Decreased detergent usage

Reduced water consumption

Reduced electricity and steam utilization

Improved production efficiency

Operational cost and environmental savings
Industry 4.0 & Tetra Pak® PlantMaster for our industry
Fully integrate key process data and secure quality

Cross-site benchmarking, planning optimisation and market-based capacity allocation
A global network of facilities to support customer success
Customer Innovation Centres and Product Development Centres
Thank you!