





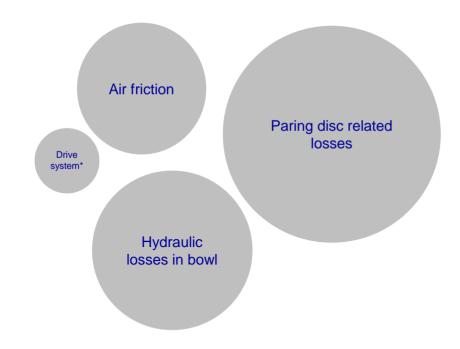




Look for energy savings that matter

AirTight and Encapt[™] is a winning combination

Energy losses in semi-open separators



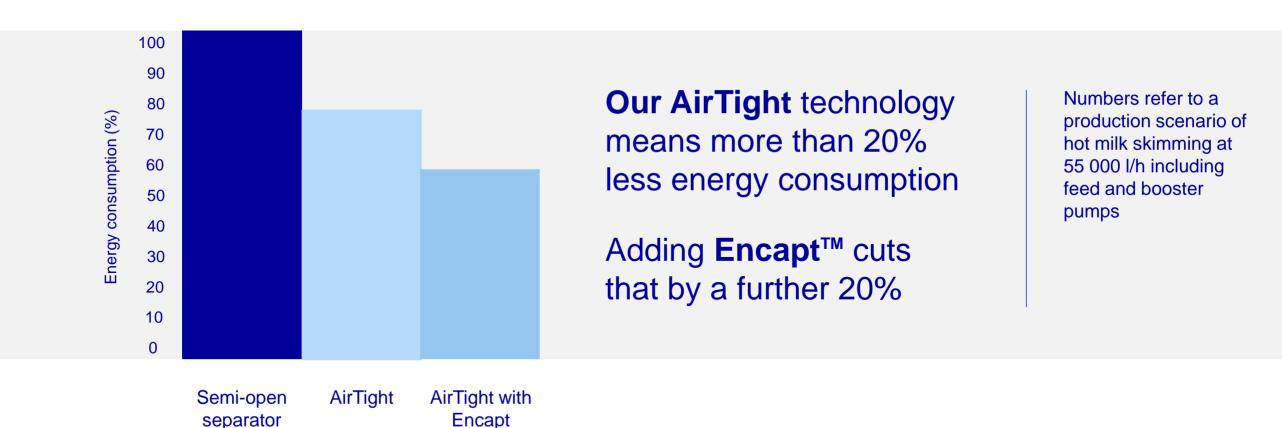
- **AirTight:** design is optimised for most efficient inlet and outlet, as well as efficient outlet pumps
- **Encapt™:** low pressure around the bowl reduces air friction
- **Drive system** has a very small impact on energy savings: Less than 1 kW difference between gear and direct drive**

^{*} Total losses in drive system (motor, bearings, transmission etc)



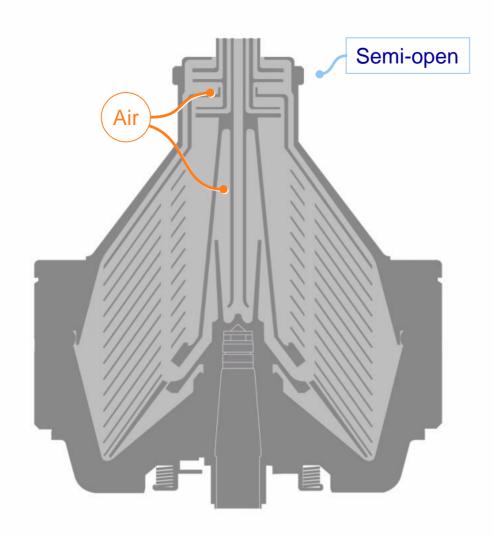
Up to 40% energy savings

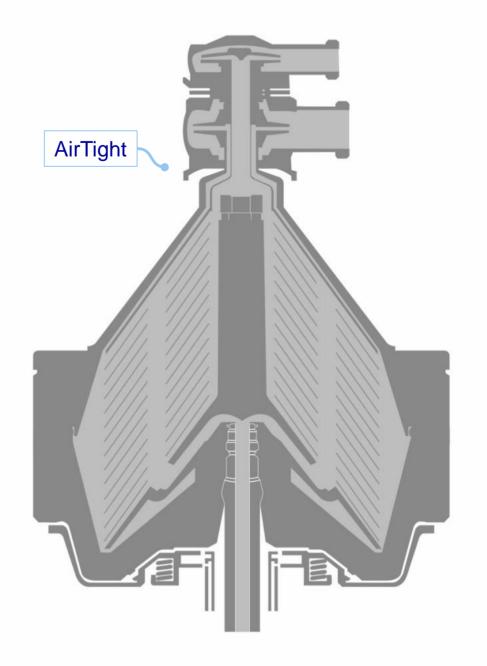
Far ahead of the competition





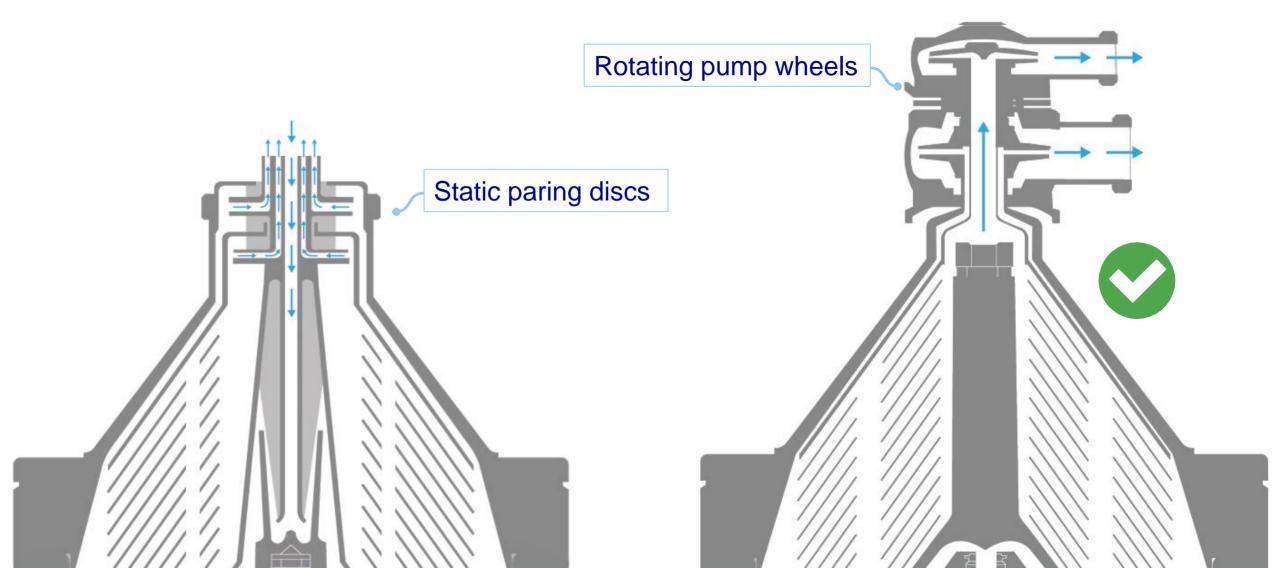
How does AirTight work?







Support the outlet flow even further



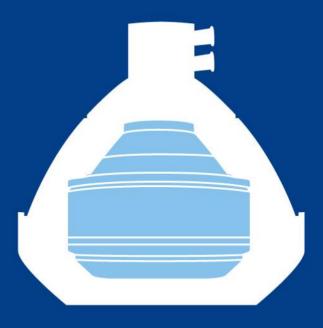


Encapt™ – inspired by low friction in space

The further away from Earth, the lower the atmospheric pressure

- ► The closer to Earth the higher the pressure
- Lowering the atmospheric pressure reduces the friction
- Less air friction around the bowl means less energy required to spin

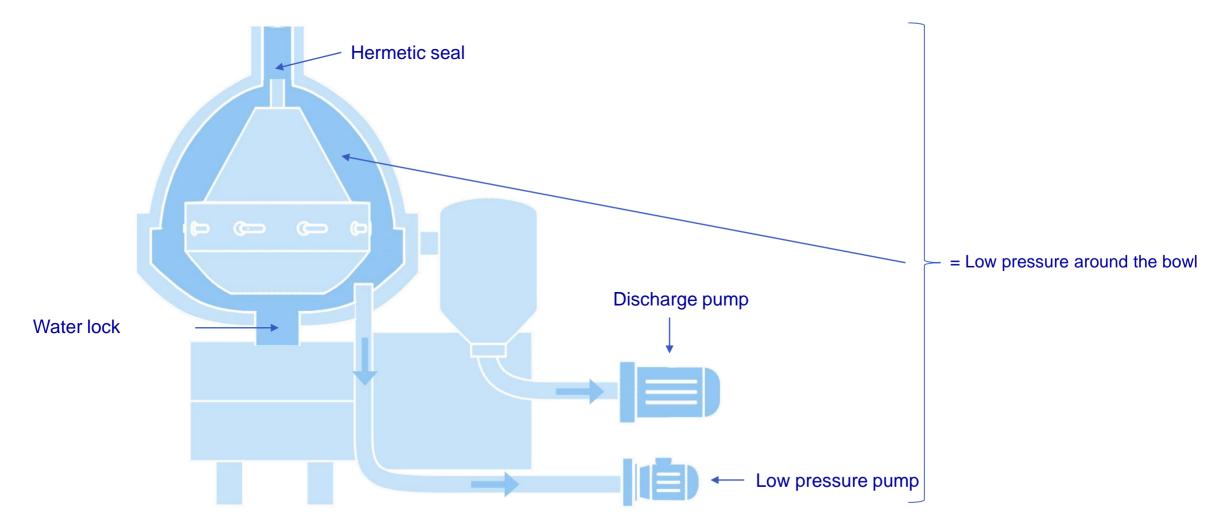






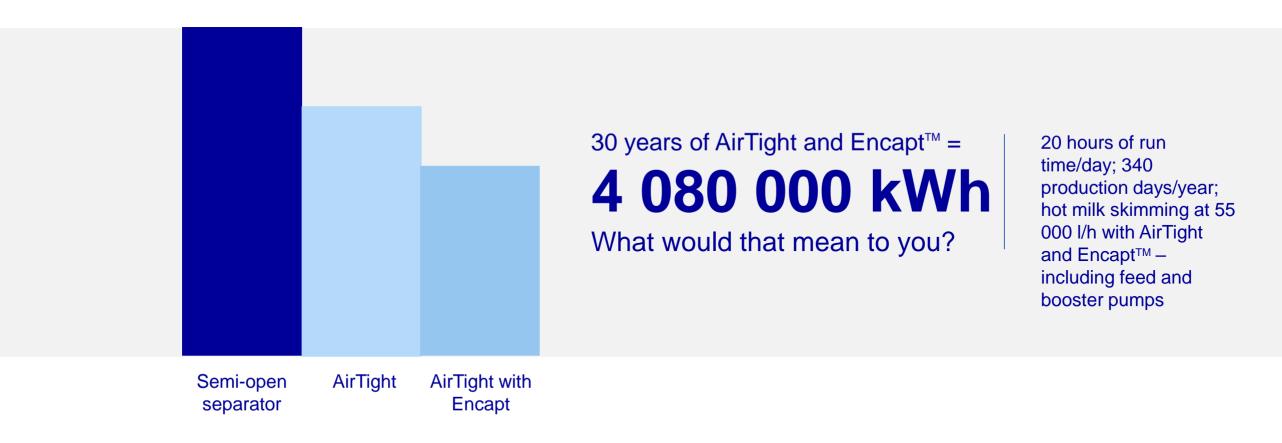
Reduced atmospheric pressure around the spinning bowl

How Encapt[™] technology saves energy





Savings in kW Long life time investment





Boost your environmental profile



40% less power

/ Less separation force is needed
/Less air friction
/ Maximum energy recovery
/ Efficient co-rotating pumps



20% less water

/ Minimal use of make-up water
/ Minimal use of cooling water



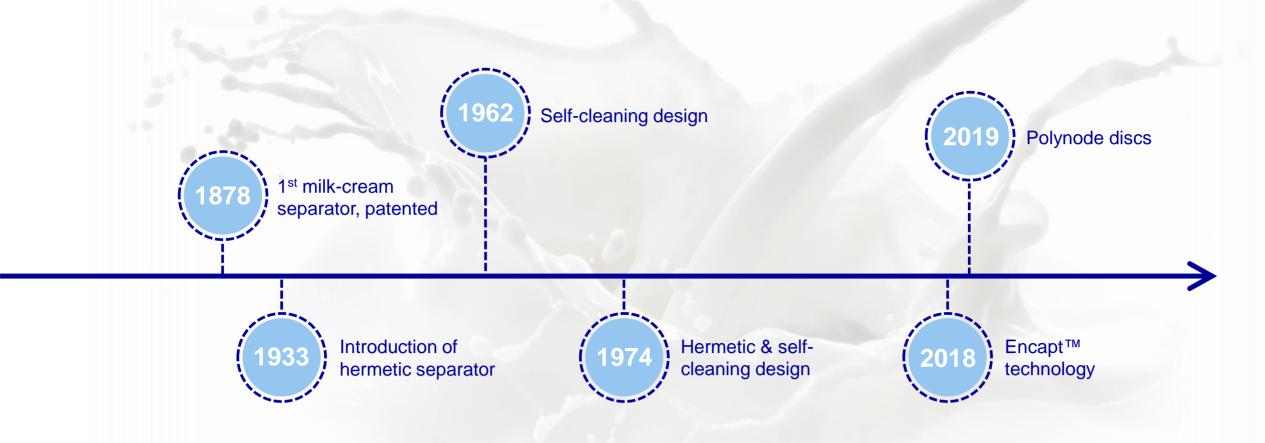
Less waste

/ Accurate discharges
/ No overflow





Milestones in the history of separation technology





A new technological leap delivering higher capacity separation for milk





Revolutionary new disc design

Featuring polynodes

- Weld-free, machine-embossing manufacturing process
- Replaced welded spacers (caulks) with micro-embossed polynodes

more spacers than traditional designs, increasing stability

94% less total contact area (<0,5% per contact point vs traditional design)

Increasing separation surface





Polynode discs

How it works

REDUCED HEIGHT

Polynodes are **35%** lower than traditional spacers, allowing more discs in the stack.





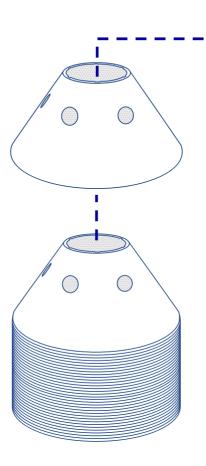
Polynodes

Traditional spacer

SMALL SHAPE

The tapered shape of polynodes means reduced point of contact per disc by **94%.**

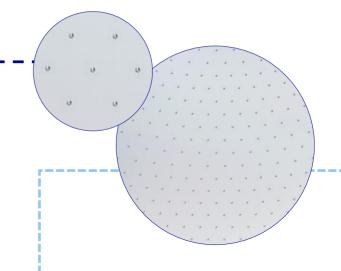




HIGHER CAPACITY

Polynode technology allows for more discs in the stack = higher capacity with maintained separation efficiency



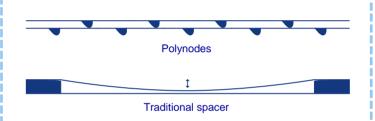


MORE, EVENLY SPACED

Improved stability by increased number of evenly distributed polynode spacers.

EQUIDISTANT DISCS

The many and evenly distributed polynodes secures equidistance between discs.





Higher capacity through more separation surface 60 000 l/h

We've achieved more separation surface by increasing the number of discs in the disc stack

- One-piece, embossed discs (no welds)
- ► With 38x more polynodes
 - smaller, micro-embossed, rounded
- Polynodes have a minimal point of contact with the disc
- A lower height than welded spacers used on traditional disc designs







Robust design

UP TO

2x as long operational lifetime





Robust design The bowl is constructed of a superior corrosive-resistant material which is more durable than competition

