



Tetra Pak® Separator H845

Hot milk separator with AirTight technology



Application

Tetra Pak® Separator H845 is ideal for separation, standardization and clarification of hot milk. The separator is designed for continuous operation and CIP.

Highlights

- Excellent product quality
- Superior separation efficiency
- Unmatched energy efficiency
- High production flexibility
- Lower operational cost
- Low noise level

Working principle

The separator is hermetically sealed, both at the inlet and outlet. This prevents intake of destructive air. From the inlet, the product is gently fed into the separator bowl through the hollow spindle. As the spindle rotates with the bowl, the product enters the bowl smoothly. This assures that the size of the fat globules and particles is consistently maintained.

The separated cream is led all the way to the centre of the bowl, while the skim exits the bowl over the top disc. Any unwanted particles are collected and emptied accurately and hydraulically at regular intervals.

At the outlets, co-rotating pumps efficiently discharge the separated products from the centre. The co-rotating pumps and the completely filled bowl are key to production flexibility; with an unmatched capacity range (without mechanical alteration) and no risk of air intake or overflow.

The cream fat content in a hot milk separator can be increased up to 60% with maintained skimming efficiency. If cream is pre-concentrated in an AMF line, for example, up to 75% cream fat can be achieved starting from cream. All in all, the AirTight technology enables gentle and efficient separation with low operational cost and reduced environmental impact.

Material

All parts in contact with the product, as well as motor casing and sediment cyclone, are made of stainless steel. Bowl material is of high-grade corrosion-resistant stainless steel (Super Duplex). The frame is clad with stainless steel.

Standard equipment

Included are motor, foundation plate, discharge control system, cyclone, vibration sensor, temperature sensor for neck bearing and oil, and a service kit.

Options

- Pre-assembled module – in-house tested and ready for installation
- Encapt™ – further improved energy efficiency
- Asset health monitoring kit
- Total discharge functionality
- Control panel (PLC)
- Standardization device
- Base frame
- Light phase control
- Heavy phase control
- Inlet components
- Flushing arrangement for seals
- Auxiliary box
- 3A design

Specifications

Motor size* (kW)	30
Sediment space (l)	18
Air pressure (kPa)	600
Inlet pressure, max (kPa)	600
Outlet pressure, max (kPa)	600

*for actual energy consumption during production, please contact Tetra Pak representatives

Capacity

Flow rate skimming (l/h)	30 000
Flow rate standardization (l/h)	40 000

Service media

Water per discharge (l)	14
Cooling water for seals and oil cooler (l/h)	180
Hood cooling water (l/h)	100

Environment

Water consumption / 1000 l product (l)	7
Noise, dB(A) (ISO 3744) Encapt™ Yes/No	72/78
Carbon footprint / 1000 l product (kg CO ₂)*	0.2

*CO₂ emissions are based on electricity production generating 0.477 kg CO₂ – eq./kWh (world average)

Process Connections

Connection, inlet (mm)	
Connection, light phase (mm)	63.5
Connection, heavy phase (mm)	

Dimensions

Depth (mm)	1268
Width (mm)	1703
Height, above floor level (mm)	1870
Service area (mm)	2800x2800
Service area, height (mm)	2800
Overhead hoist (kN)	15
Net weight, without motor (kg)	2200
Net weight, only motor (kg)	176-398*

*depending on motor type