



Encapt™ technology for Tetra Pak® Separators

For high-capacity separators



Highlights

Tetra Pak® Separators with AirTight technology are already the most competitive separators on the market with regards to energy consumption.

Adding Encapt™ technology enables even further energy savings.

Encapt™ technology lowers the energy consumption of the Tetra Pak Separator by 7-9 kW, depending on the machine, running conditions and application. For a hot milk skimming process at 55,000 l/h this equals an additional savings of 25%.

The use of Encapt™ technology enables

- Lower operational cost
- Lower environmental impact

Application

Encapt™ technology is available as an option for Tetra Pak Separator H60, H75, H80, D70, BB45, BB55, BM40, BM50, C40, C50, W50, W60, WD50, T45 and A16.

Working principle

Air friction around the separator bowl is one of the most energy-intensive parameters for a separator. By creating low pressure around the bowl, air friction is reduced and energy consumption considerably lowered.

The low pressure around the bowl is created and secured by three key factors:

1. Two pumps placed on a frame (submodule) next to the separator (a low pressure pump and discharge pump)
2. A water lock below the bowl that works as a seal
3. Hermetically sealed outlet at the top of the separator

With the discharge pump installed on the submodule, no additional pump is required to convey sludge further downstream.

Basic unit

The scope of supply for Encapt™ technology includes:

Submodule

- Low pressure pump
- Discharge pump
- Valves
- Pressure transmitter
- Level transmitter
- Sludge reclaim (optional)

Connections to the separator

Control system

Options

To shorten the installation time, the separator, auxiliary equipment and submodule can be delivered as a pre-assembled module that has been tested at Tetra Pak and is ready for installation and commissioning.

Technical data (submodule)

Dimensions

Depth (mm)	780
Width (mm)	720
Height above floor level (mm)	987

Consumption

Required air pressure supply for valves*	≥ 4 bar
Operating water**	2 l/h
Low pressure pump (kW/h)**	< 0.05
Sludge pump (kW/h)**	< 0.05

* Same requirement as for separator

** Based on 2 discharges/hour

1. Discharge pump
2. Low pressure pump
3. Water lock
4. Hermetic seal

