

# **Encapt™ technology for Tetra Pak® Separators**

For high-capacity separators



# **Highlights**

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

Adding Encapt<sup>™</sup> technology enables even further energy savings.

Encapt<sup>™</sup> technology lowers the energy consumption of the Tetra Pak Separator by approximately 7-9 kW. For a hot-milk-skimming process at 55,000 l/h this equals an additional savings of 25%.

The use of Encapt<sup>™</sup> technology enables

- Lower operational cost
- Lower environmental impact

## **Application**

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

# 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<sup>™</sup> 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 preassembled 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

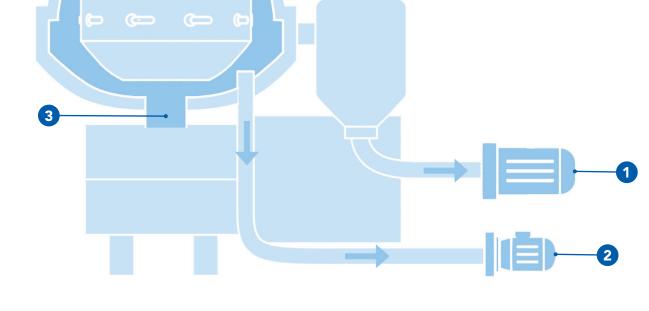
Required air pressure supply for valves*	≥4 bar
Operating water**	2 l/h
Low pressure pump (kW/h)**	< 0.05
Sludge pump (kW/h)**	< 0.05

\* Same requirement as for separator

\*\* Based on 2 discharges/hour

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

**Ar Tetra Pak**<sup>®</sup>



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