**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, WDS0, 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 Encap™ technology includes:

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

**Connections to the separator**

**Control system**

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**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

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