

# Tetra Pak<sup>®</sup> Cheese Vat OO SH9

Curd-making vat for semi-hard cheeses



## Application

Tetra Pak<sup>®</sup> Cheese Vat OO SH9 is specifically designed for the production of high quality semi-hard types of cheese. It has all required functions for a controlled and predictable process, including cheese milk filling, ingredient mixing, milk coagulation, coagulum cutting, stirring, whey discharge, water addition, emptying and Cleaning in Place (CIP).

The design of Tetra Pak<sup>®</sup> Cheese Vat OO SH9 is based on the double circle principle, which ensures an optimal and efficient, yet careful, treatment of the cheese curd.

# Highlights

- Wide range of cheese types
- Up to 60 % whey pre-draw of nominal filling level
- Excellent cutting and stirring performance
- High vat performance at any fill level
- Outstanding emptying capability

# Working principles

First, add milk, starter culture and rennet to the vat. Then, the rotation of the combined cutting and stirring frame gently mixes all the ingredients. After proper coagulation time, the curd is cut to the right curd particle size. The vat then gently stirs the curd and whey mixture and whey pre-draw is possible at this point if desired.

A tubular whey strainer with a pivoted pipe connection is suspended from the top of the vat. The strainer is immersed just below liquid level for efficient whey drainage.

The vat is equipped with a dimple jacket on the bottom cones, to facilitate heating and/or cooling of the product with water.

When the cheese reaches the right firmness, the curd and whey mixture empties through the double outlet. The conical bottom design ensures outstanding emptying perfomance, thus minimizing the need for flushing.

#### Standard equipment

- Vertical cylindrical double O shaped body with cone bottoms
- Dimple jacket on both cone bottoms
- Water supply manifold to both dimple jackets
- Two shafts with welded-on knife frames and stirring blades
- Frequency-controlled E-motor (IE3) for cutting/stirring tool
- Whey strainer (80 m $^{3}$ /h) with E-motor (IE1) and gearbox
- Internal LED lighting
- Manhole with non-transparent sliding door on top position
- Air vent
- CIP nozzles with interconnecting pipe work
- Temperature electrode
- Two level electrodes (LL)
- Two curd-whey outlets/milk inlets, with valves
- Outlet manifold
- Adjustable legs (-50/+100 mm)
- Sanitary DIN 11864 couplings
- Siemens-based control system
- Operator panel
- Control panel
- MCC panel

#### **Options, mechanical**

- 01 Top milk inlet
- 03 Flexible knife configuration
- 06 Extra level electrode
- 07 Content measurement
- 21 Coagulation sensor
- 22 Cordless whey sieve
- 25 Outlet manifold with T-piece for water flush

#### **Options**, automation

- 32 I/O communication (hardwired communication)
- 35 Operator panel in non-EU language

#### Capacity/range

The Tetra Pak<sup>®</sup> Cheese Vat OO SH9 is available in the following sizes (nominal filling volume in litres):

- 11 000, 14 000, 19 000
- 24 000 and 30 000 ltr available on request

## **Consumption data**

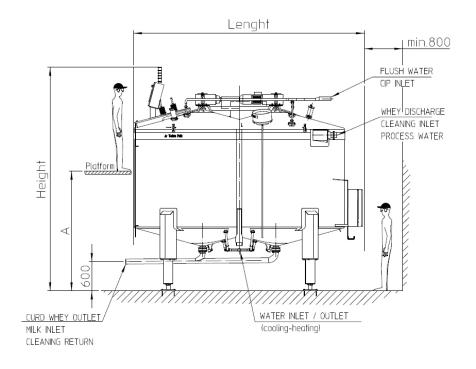
Capacity, litres	11 000 - 19 000
CIP supply	45 m³/h
Electricity	4kVA
Compressed air	1 NL/h
Heating water*	25 m³/h

 $^{\ast}$  Dependent on required heating rate and  $\Delta T.$ 

Values are average and subject to process parameters.

## Dimensions and shipping data

Size litres	L x W x H m	A mm	Weight net kg	Load pro leg kg	L x W x H unpacked app- rox m	L x W x H seaworthy case m	Weight gross kg
11 000	4.8 x 2.9 x 4.15	1700	3 600	3 650	5.3 x 3.1 x 2.9	5.6 x 3.4 x 3.2	4 800
14 000	4.8 x 2.9 x 4.4	1950	3 800	4 450	5.3 x 3.1 x 3.1	5.6 x 3.4 x 3.4	5 000
19 000	4.8 x 2.9 x 4.9	2 450	4 000	5 750	5.3 x 3.1 x 3.6	5.6 x 3.4 x 3.9	5 200
24 000	5.4 x 3.25 x 5.0	2 550	4 800	7 200	5.8 x 3.5 x 3.6	5.8 x 3.5 x 3.6	6 300
30 000	5.4 x 3.25 x 5.5	3 050	5 100	8 775	5.8 x 3.5 x 4.1	5.8 x 3.5 x 4.1	6 600





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