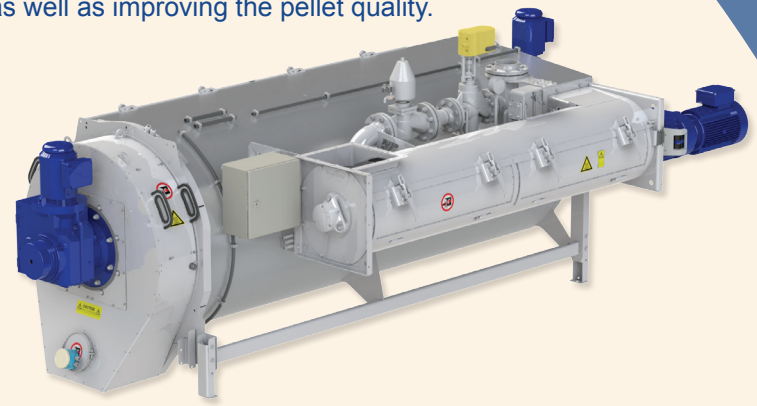
Datasheet

Long Term Conditioner

innovative process technologies

Process

Conditioning is the result of the variables moisture, temperature and time. As moisture and temperature are related, time is the ultimate variable to enhance the process. Time can be gained with the application of a Long Term Conditioner (LTC). The LTC, consisting of a steam mixer, automatic steam quantity control and a Long Term Vessel (LTV), significantly improves the process of feed conditioning. This has a major effect on biosecurity, optimizing the nutritional quality of the feed and enhancing the pelletability of the product as well as improving the pellet quality.

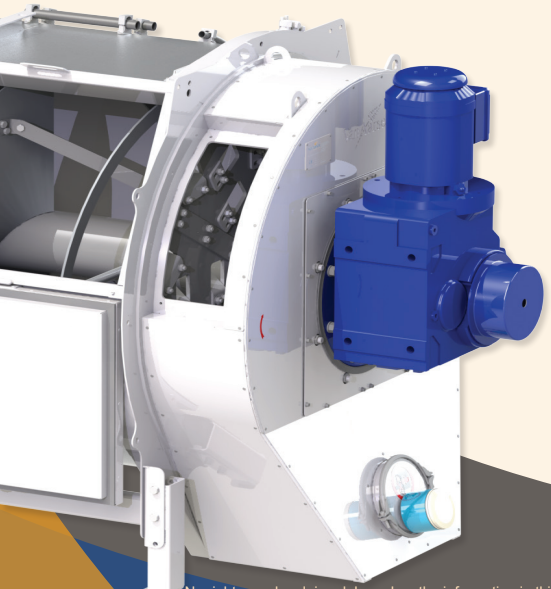


Benefits

- Better physical (hardness and durability) and chemical (gelatinisation, pathogenic germs, etc.) quality of the mash and pellets are possible, in combination with a tuned recipe and die configuration
- Variable retention time up to 4 min at a temperature up to 90°C
- Optimal product treatment due to LTC screw, guarantees first in - first out principle
- Very low energy consumption (less than 0.25 kWh/ton possible)
- Up to 20% higher capacity of the pellet mill
- Up to 20% less energy consumption of the pellet mill
- Wide range of raw materials, with more difficult gelatinization, can be processed
- Optimal operation of LTC is fully integrated with pellet mill control
- Ensures equal, continuous and accurate feeding of the pellet mill
- Better performance of the animals (production, feed conversion as well as health status)
- Low construction height, distance between inlet and outlet is only 1230 mm

Features

- The LTC consists of the following main components, which are built together as one unit:
  - Steam mixer
  - Automatic steam quantity control, consisting of an electric-pneumatic valve, water separator, motor-operated control valve and connection for steam piping



  A digital temperature controller actuates the motor-operated control valve
  - Retention vessel with build in pellet mill feeding disk
- Individually driven pellet mill-feeding disc, which guarantees a constant and optimal load of the pellet mill
- Level switch in the outlet for detecting overload on pellet mill
- Automatically self-cleaning PT100 in the outlet for product temperature registration
- Frequency controlled drives to achieve necessary retention times and equal filling of the pellet mill
- All parts that come into contact with product are manufactured out of stainless steel for prevention of corrosion and minimizing contamination
- The outer vessel body is provided with an electrical heated system and insulation to prevent condensation inside the LTC and maintain optimal temperature
- Large, hinged doors for easy cleaning
- Doors provided with safety switches
- Height-adjustable feet, to accommodate optimal placement
- Transport frame under the LTC, with detachable wheels for easy transportation
- Designed and constructed according to CE and ATEX safety regulations

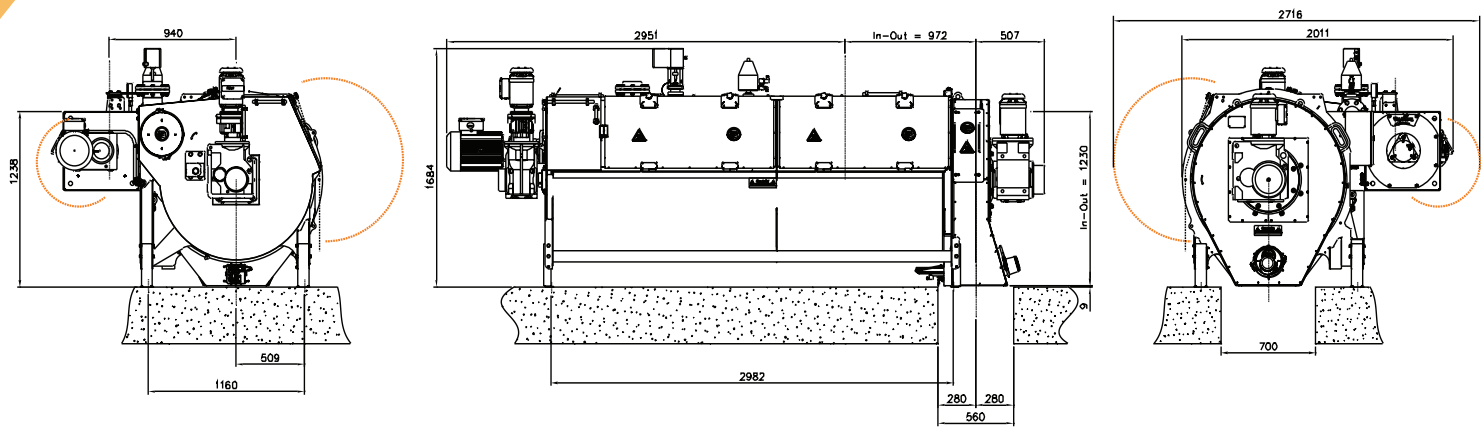
Options

The LTC is a functional, complete machine, in which all safety devices, optimal control requirements and other necessary features are included.

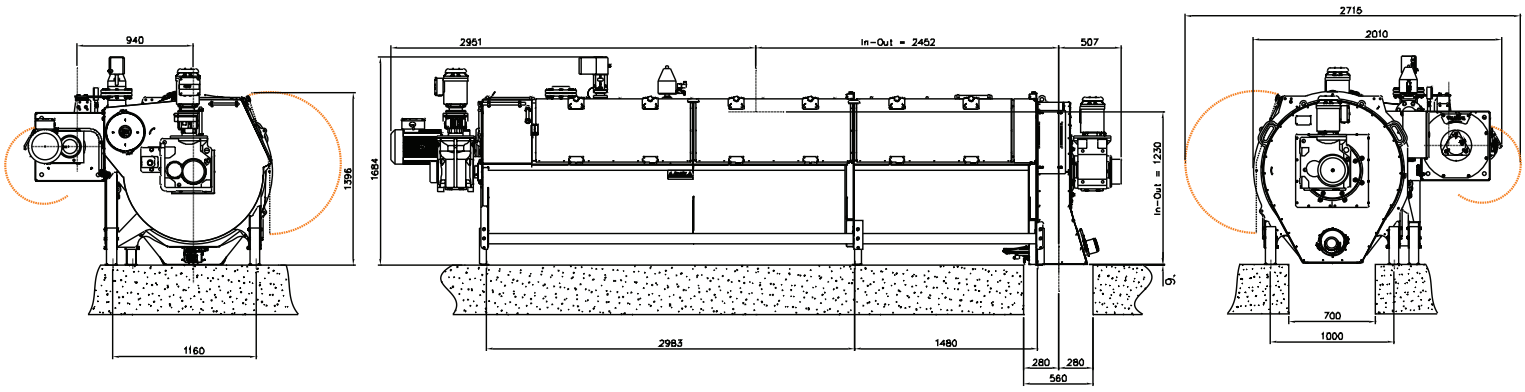
Datasheet

LTC 4500

LTC 3000. Retention time 1-4 minutes (1.5 minute: 72 m3/h and 4 minutes: 24 m3/h).



LTC 4500. Retention time 2-4 minutes (2 minutes: 72 m3/h and 4 minutes: 36 m3/h).



	LTC 3000	LTC 4500
Weight (without product)	2400 kg	2900 kg
Maximum product volume inside	1600 l	2400 l
Drive retention vessel	1.5 kW	2.2 kW
Drive pellet mill feeding disc	2.2 kW	2.2 kW
Drive steam mixer	9 kW	9 kW

VanAarsen SINCE 1949

Heelderweg 11 Panheel P.O. Box 5010 6097 ZG Heel The Netherlands
Phone +31 (0)475 579 444 Fax +31 (0)475 579 223 info@aarsen.com www.aarsen.com