



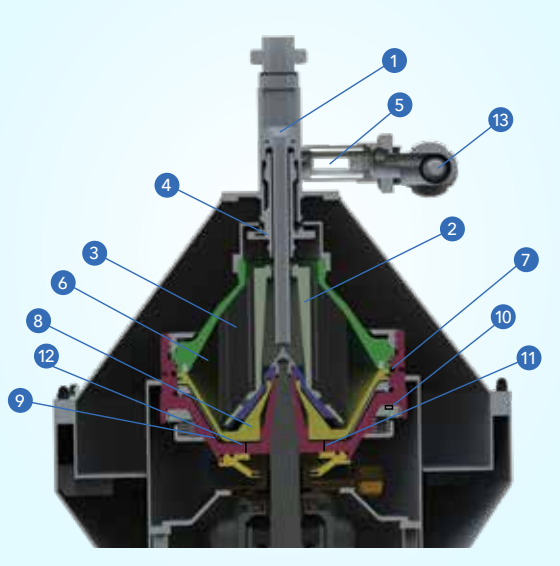
SELF
CLEANING
CLARIFIER

ONER
processing
technology

Why oner dairy self cleaning machine?

Oner Dairy Self Cleaning Machine provides high performance and yields, making it superior when comparing to another brands. Easy installation and automatic pressure adjustment according to product can be counted as priority of machine.

MACHINE FEATURES



- 1- Product Inlet**
- 2- Distributor
- 3- Disc Stack**
- 4- Light Phase Centripetal Pump
- 5- Light Phase Outlet**
- 6- Impurity Chamber
- 7- Discharge Holes**
- 8- Moving Ram
- 9- Water Closing Chamber**
- 10- Bowl Valve
- 11- Operating Water Inlet For Bowl Opening**
- 12- Operating Water Inlet For Bowl Closing
- 13- Constant Pressure Valve**

Cleaning

The product flows to the bowl through a feed pipe (1) and into the distributor (2). It then goes acceleration until it reaches the bowl rotating speed for cleaning. The distributor (2) then send the milk to the disk stack (3) where the cleaning between the milk and solid impurities takes place. Light separated phase flows to the center due to its low density. Milk rise in the disk stack and reach the one chamber of the bowl where one fixed centripetal turbine (4) convert kinetic energy to pressure energy, enabling product to convey outlet pipe with high pressure (5). Thanks to automatic constant pressure valve the pressure is regulated according to product type and saved in display. (13)

SOLID DISCHARGE

The separated solids are collected in the inner wall of the bowl and are periodically discharged through the discharge holes (7). The discharged solids are collected into an outer annular chamber connected to a damping sludge tank where they are drained away by gravity through a pipe. The pressure produced by water in chamber (9) keeps the hydraulically operated ram (8) in a closed position. By feeding water into pipeline (11), the bowl valve (10) allows water in chamber (9) to flow away; the product pressure pushes down the hydraulic ram and the solids are immediately ejected through the discharge holes (7). By stopping the opening water feed (11) and filling the closing water line (12) into the chamber opening (9), the hydraulic ram goes back to the closed position.

AUTOMATIC CONTROL

The periodic solids discharge is carried out automatically by means of a PLC which controls the opening and closing water solenoid valves and the solenoid valves of the operating water circuit. Various automatic, independent working cycles may be selected to perform partial and/or total discharges during separation and cleaning procedures. By setting the PLC it is possible to adjust PLC

PERFORMANCE

Without disrupting, natural structure of milk can be saved and thanks to centripetal turbines, maximum clarification can be obtained.

CLARIFIER TYPE	MODEL	CAPACITY(L/H)	MOTOR(kw)
SELF CLEANING	SAIT 350 TXL	10000	11
SELF CLEANING	POWERPLUS 400TXL	12000	15
SELF CLEANING	SAIT 450TXL	20000	18,5