



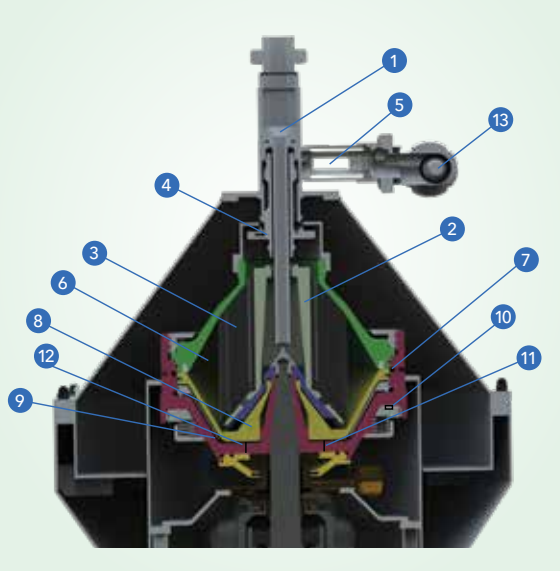
**SELF  
CLEANING JUICE  
CLARIFIER**

**ONER**  
processing  
technology

## WHY ONER SELF CLEANING JUICE CLARIFIER?

Oner Self Cleaning Juice Clarifier provides high performance and yields, making it superior when comparing to another brands. The separators of ONER for fruit juices are expressly studied for maximum separation and cleaning.

### 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**

### CLARIFICATION

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 clarification. The distributor (2) then send the juice to the disk stack (3) where the separation between the light and heavy phase takes place. Light separated phase flows to the center due to its low density. Both phases rise in the disk stack and reach the upper 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 constant pressure valve the pressure is regulated according to product type (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

- Standardization ratio: 25-45% content • Extraction accuracy: +/- 0.2%
- Juice accuracy: 0.03-0.05%

JCM-500	JCM-700
11 KW	15 KW
1000 -3000 LT/H	3000 - 5000 LT/H
7250 RPM	6200 RPM