

How to get the best out of coconuts?

All you need is an ANDRITZ separator



ANDRITZ separators for coconut water processing

When you think about tropical beaches with blue sea and white sand, relaxing in the shade of a palm tree, you're not only dreaming about a relaxing experience. In fact, those palms – coconut palm trees – can give you one of the healthiest and most refreshing drinks you have ever tasted – coconut water. In order to get the best out of coconuts, you have to remove the impurities from the liquid; thanks to ANDRITZ separators, you can do that efficiently and still keep all the natural properties of the coconut water.

Why is coconut water so healthy?

Coconut water is the sweet liquid present inside young, tender coconuts. It is rich in electrolytes, such as calcium, potassium, magnesium, and sodium. These minerals have essential functions, affecting body fluids for instance, blood pH, and muscle functions. It is naturally very low in fat and sugar, meaning that it is cholesterol-free and low in calories. Coconut water is a natural, isotonic beverage with the same level of electrolytic balance as we have in our blood. It is the "fluid of life" and can be injected intravenously in an emergency.



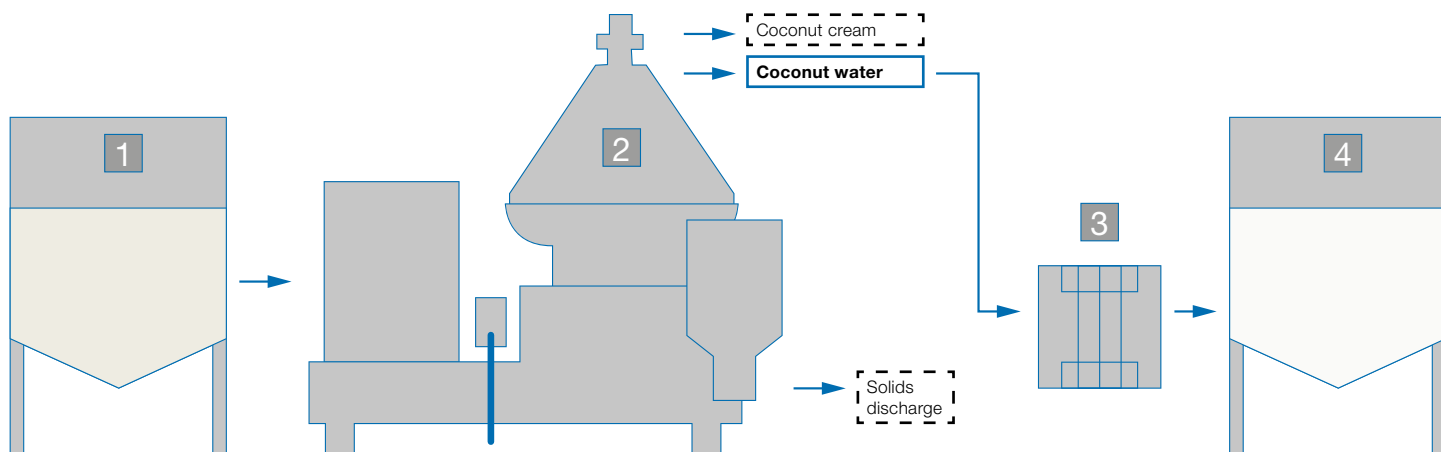
ANDRITZ separators help you get the best out of coconut water

In a coconut water processing line, water is collected in tanks after the coconuts have been cracked. As this liquid contains oil and small particles like coconut meat, a separator is needed to separate and remove solids and to separate the oil from the water, preventing oxidation and discoloration. The separators specially designed by ANDRITZ SEPARATION are able to maintain the highest nutritional value and all the healthy properties of the water present inside the coconuts. And the water flavor profile is maintained without compromise. We provide a plug-and-play solution that fits perfectly into the processing line. Our separators are easy to install, operate, and maintain, with the high g-force ensuring extremely efficient separation.



Coconut water vs. sports drinks

Component	Sports drinks (mg/100 ml)	Coconut water (mg/100 ml)
Potassium	11.7	294
Sodium	41	25
Chloride	39	118
Magnesium	7	10
Sugars	6	5



▲ 1. Raw coconut water collecting tank, 2. Separator, 3. Pasteurizer system, 4. Coconut water storage tank

Benefits

- Preservation of nutritional properties
- Preservation of flavor
- Easy to install, operate, and maintain
- Easy cleaning thanks to CIP system
- High level of automation guaranteeing safety and efficiency
- Continuous processing

Optional

- Feed unit for operating water
- Clarifier sight glasses
- Turbidity control

Field of application

- Coconut water separation

Standard scope of supply

- Complete, pre-mounted separator skid with all instruments, valves, and controls
- Flow-rate indicator
- Control panel with color touch-screen display



▲ Coconut water separator model CA41 S

Model*	CA51 S	CA71 S	CA91 S	CA152 S	CA201 S	CA301 S	CA401 S
Capacity (l/h)	3,500	5,000	8,000	10,000	15,000	20,000	30,000
Motor (kW)	11	15	18.5	22	30	45	55
Separator weight (kg)	1,060	1,250	1,250	2,100	2,200	3,700	4,100
Footprint (cm)	240 x 98	240 x 98	240 x 98	295 x 135	295 x 135	215 x 130	222 x 135
Height (cm)	180	180	180	260	270	192	201

* Skid-mounted sizes, except for CA301 S and CA401 S

What's your biggest separation challenge?



ANDRITZ SEPARATION is the world's leading separation specialist with the broadest technology portfolio and more than 2,000 specialists in 40 countries. For more than 150 years we have been a driving force in the evolution of separation solutions and services for industries ranging from environment to food, chemicals and mining & minerals.

As the OEM for many of the world's leading brands, we have the solutions and services to transform your business to meet tomorrow's changing demands – wherever you are and whatever your separation challenge.

Ask your separation specialist

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