

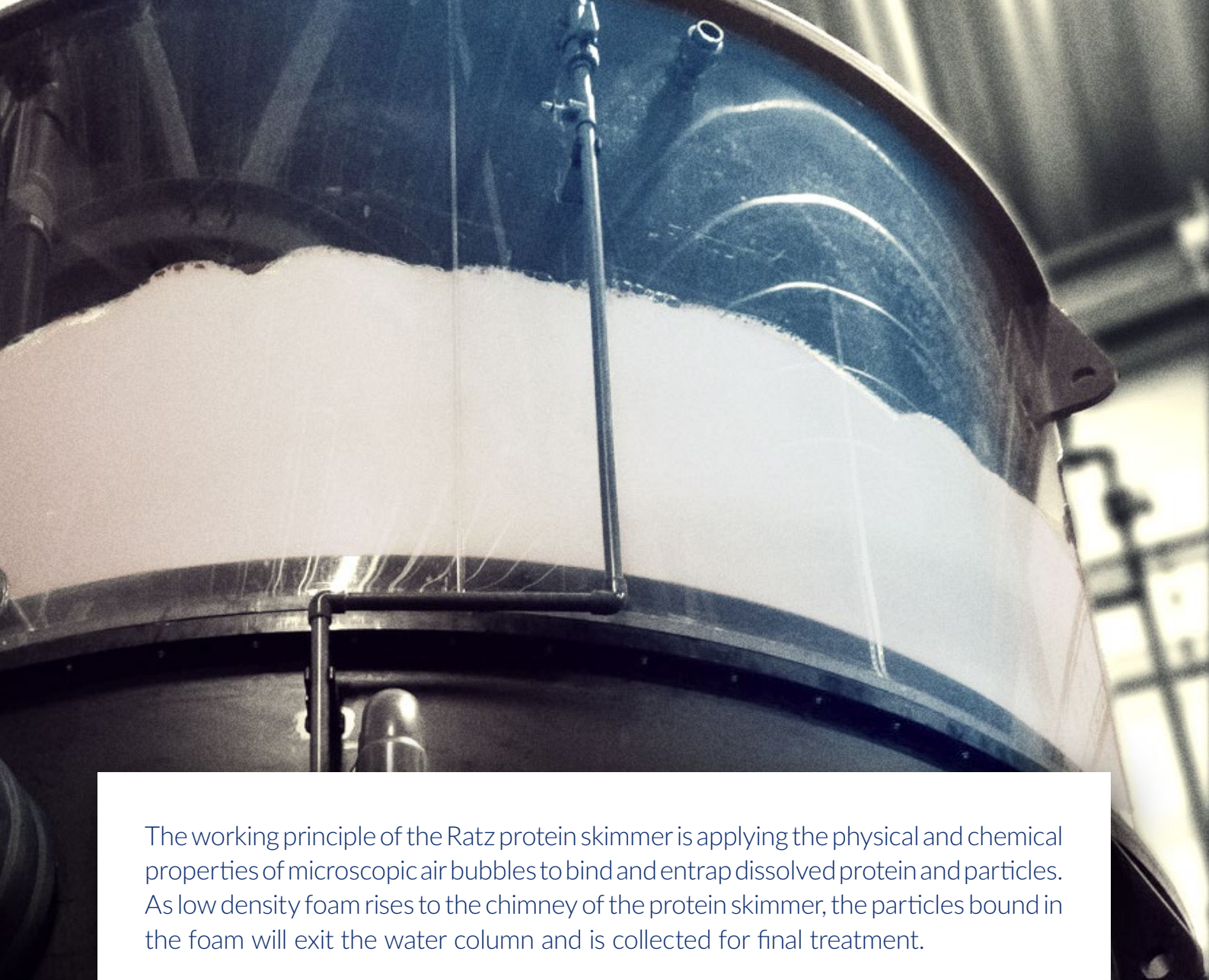
Ratz | Protein skimmer

High performance protein skimming for
Recirculating Aquaculture Systems

Removal
of dissolved
proteins and
particles

Enclosed foam
control unit

Enclosed
and safe unit
for ozone
injection



The working principle of the Ratz protein skimmer is applying the physical and chemical properties of microscopic air bubbles to bind and entrap dissolved protein and particles. As low density foam rises to the chimney of the protein skimmer, the particles bound in the foam will exit the water column and is collected for final treatment.

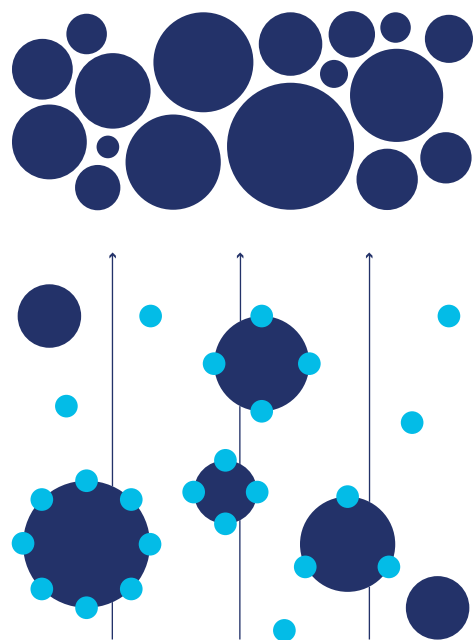
Ratz protein skimmers delivers efficient removal of small particles below 30 micron from water streams with a simple and operator friendly design. All components are made from non-corrosive materials , highly suitable for use in both saltwater and freshwater systems. Ratz protein skimmers are used in public aquaria, aquaculture and waste water treatment world wide

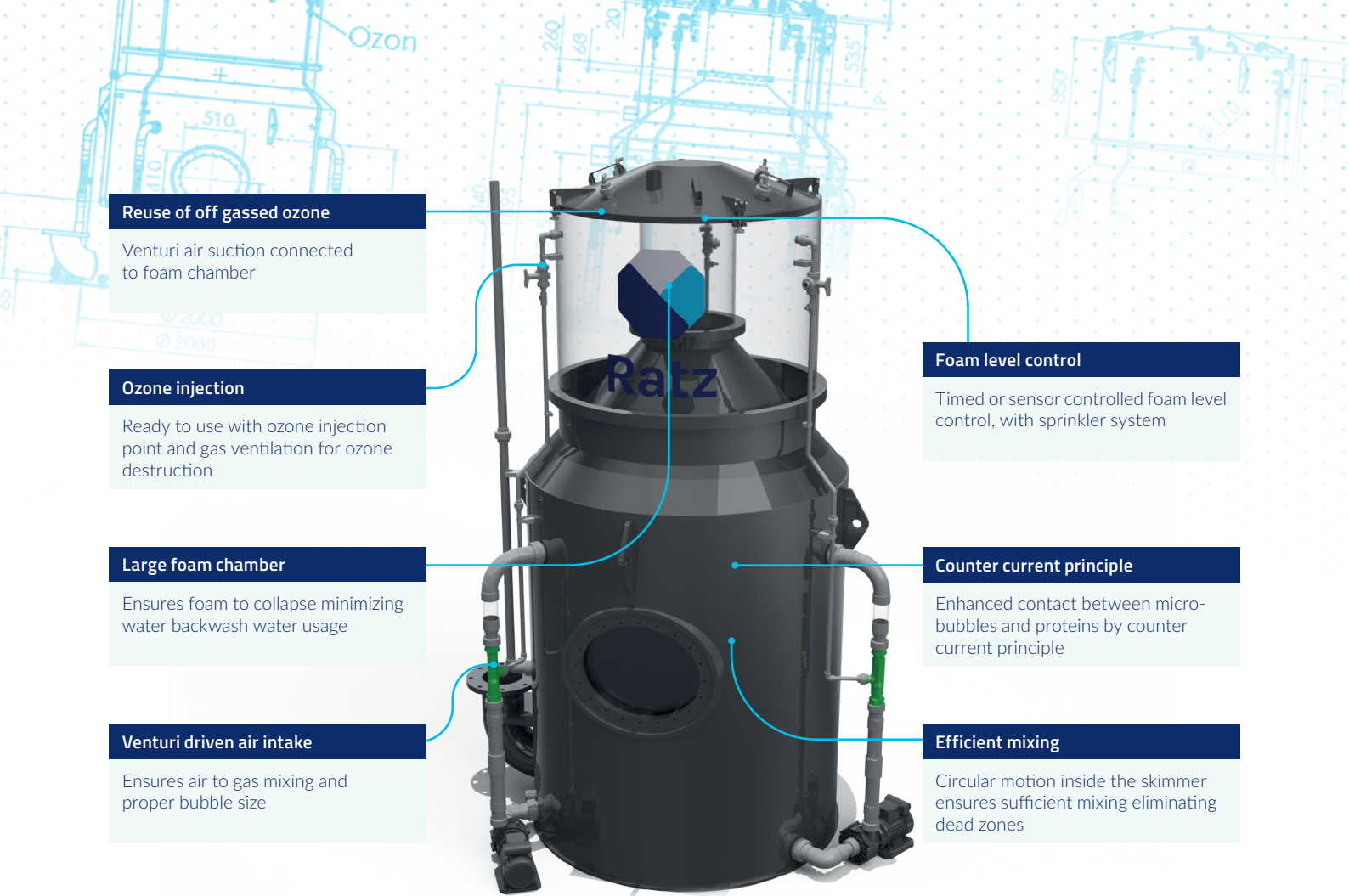
Air injection is delivered by centrifugal pumps and venturi drives ensuring cost efficient operation without addition of pressurized air.

The Ratz protein skimmer is designed to be incorporated with ozone gas (O_3) to optimize removal efficiency and reuse of any degassed ozone.

Ratz protein skimmers are built with non-corrosive materials: HDPE, Simolux and PVC.

All parts are designed for optimized functionality with respect to user convenience and power consumption.





Reuse of off gassed ozone

Venturi air suction connected to foam chamber

Ozone injection

Ready to use with ozone injection point and gas ventilation for ozone destruction

Large foam chamber

Ensures foam to collapse minimizing water backwash water usage

Venturi driven air intake

Ensures air to gas mixing and proper bubble size

Foam level control

Timed or sensor controlled foam level control, with sprinkler system

Counter current principle

Enhanced contact between micro-bubbles and proteins by counter current principle

Efficient mixing

Circular motion inside the skimmer ensures sufficient mixing eliminating dead zones

Enclosed unit for foam control in RAS systems.

Removal of dissolved proteins and organic matter.

Enclosed and safe unit for ozone injection.

Built for your application

Various size configurations available.



Ratz 500

15 m³/h



Ratz 600

20 m³/h



Ratz 750

35 m³/h



Ratz 950

60 m³/h



Ratz 1400

120 m³/h



Ratz 2000

240 m³/h



Ratz 2500

460 m³/h



Want to know more about
Ratz protein skimmers?

Contact Philip Haargaard

Philip Haargaard,
Aquaculture engineer



ph@cmaqua.dk

info@cmaqua.dk
+45 21 17 56 00

