



Characteristics

Harvest a top quality Algae paste
Low shear through smooth discharge mechanism
High separation effectiveness through Spiral Plate Technology
Designed for 24/7 processing and includes remote monitoring

Evodos type 25

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The Evodos type 25 is our full automatic machine for continuous operations. With the Evodos type 25 you can harvest up to 50 kg Algae paste per hour. The Evodos type 25 will be delivered with a remote monitoring function. Critical machine functions and parameters will be controlled, captured and made available to you via the internet.

Capacity

- The feed pump is operated from the PLC and can be run from 250 to 4.000 liters/hour.
- The unit can discharge up to 50 liters of Algae paste per hour.

Dimensions

Dimensions of the unit, excluding the sub frame:

	Unit	Box
Height	2.179 mm	2.560 mm
Width	1.208 mm	1.570 mm
Length	1.195 mm	1.570 mm
Weight	1.600 kg	2.000 kg

Power requirements

- Evodos delivers units which are compliant to local voltage and frequency requirements.
- Standard power is 380V-480V, 50-60 Hz, 32A.
- Control voltage: 24 Volts DC.
- Drive motor: 5.5 kW (7.5 HP).

Energy requirements

- Separation: 0.95 kWh per m³.
- Pump: 0.25 kWh per m³.
- Discharge: 0.2 kWh with a maximum of 5 discharges per hour.

Security class

- IP55 and CE certification.

Process fluids

- The Evodos type 25 is a two-phase separator.
- The equipment can process Algaeculture from 5°C to 45°C.
- All fluid connections are 1" BSP.

Feed pump

- The feedpump is a monotype pump.
- The pump discharge pressure is max 0.2 bar.
- The feed pump is placed externally.
- The feed pump is controlled from the control cabinet.
- The electrical wiring remains connected during transport, so it is "ready to go" upon arrival.

Construction materials

- Wet surfaces: 316L Stainless steel.
- Other metal surfaces: 304L stainless steel.
- Drum construction: Wound carbon with 316L interior.
- Siemens PLC, integrated, touch screen operated.
- External contacts for automatic start / stop and alarm.
- All seals and gaskets are made of NBR.

Compressed air

- Pressurized air requirement: 6 bar.
- Air consumption: < 5 liter / hour.
- Connection: 1/4".

Discharge

- The discharge method is mechanical.
- The discharge time is 3 1/2 minutes.
- The discharged Algae paste is almost free of extracellular water.

Algae paste disposal

- The Algae paste is disposed downwards to the bottom of the machine. Optionally, the Algae paste can be transported on a third party supplied conveyor, dropped into a container or a bin or it can be pumped.

Operations

- The process is PLC controlled.
- Remote monitoring functionality via internet.

Delivery

The standard delivery includes:

- Evodos type 25, two-phase separator equipment, packed in a crate.
- Feed pump, which is attached with a 3 meter cable to the Evodos Dynamic Settler.
- 90/90 SPT vane package.
Optional: 60/120 SPT vane package.
Optional: Lower G-force adjustment ring.
- Power cable, 9 meter.
- One set of wear parts.

Optional delivery

- Air compressor.
- Sub frame to be placed under the Evodos.