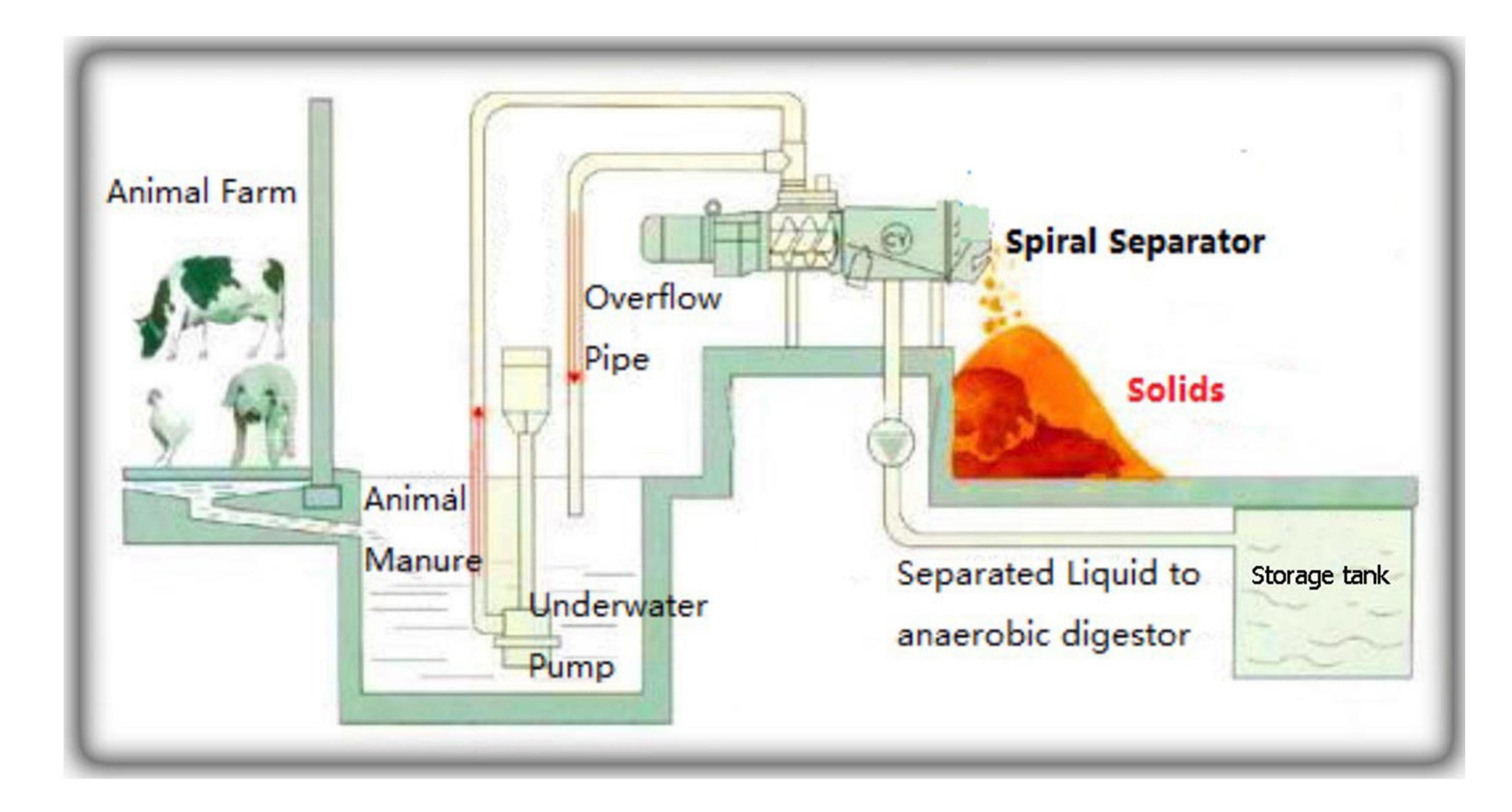
## ZK Series solid-liquid separator

#### **Brief introduction**

Extrusion-type separator, also known as spiral extrusion solid-liquid separator, mainly consists of mainframe, motor, sewage pump, control cabinet and pipes. Mainframe is composed of machine block, extrusion spiral shaft, sieving screen, gear reducer and discharging devices. It is widely used for solid-liquid separation of high concentration of organic sewage from all kinds of livestock farms, vinasse, coction dregs, paper pulp, starch residue, soya residue and slaughterhouse.





#### Working Principle:

Liquid material with high solids content is pumped into separating system by no-clogging pump. Spiral shaft push material to the front of machine, to increase the pressure on the front edge to force the water in material extruded and flows out of sieving screen and get out of the drain. As separator working constantly, material is pumped into system constantly, the pressure on the front edge is being increased higher and higher, when it reaches a certain of degree, the solids discharge port would be open and solids would be extruded out of separator.

### Features:

## 1, Practicality

High separation speed, applicable to different concentrations of livestock manure and sewage, the separated solid could reach 50~60% of TS%, easy for transportation, is suitable as raw materials for fish feed or organic fertilizer.

#### 2, Advancement

High decontamination ability, no clogging, easy for cleaning. The removal rate of total solids(TS), chemical oxygen demand(COD), total oxygen demand(TOD), nitrogen and phosphorus can reach 70-95%.

#### 3, Durability

Sieving screen and spiral shaft are made of nickel alloy steel or stainless steel with high strength. With high performance of anti-corrosion, high strength and long service life-time.

#### 4, Economy

The machine has high automaticity, low power consumption, high cost performance and easy operation by start/stop button.

#### Parameter Table Selection for ZK series solid-liquid separator

Model	Motor (kW)	Pump (kW)	Capacity (m³/h)	Dimension (L/W/H) (mm)	Weight (kg)
ZK-1	4	3	5 ~ 8	1700/600/1100	350
ZK-2	4	3	10 ~ 15	1800/600/1200	450
ZK-3	5.5	3	20 ~ 25	2000/600/1300	580
ZK-4	7.5	5.5	40 ~ 50	2000/950/2700	680
ZK-7	7.5	5.5	60 ~ 80	2400/1000/2700	700

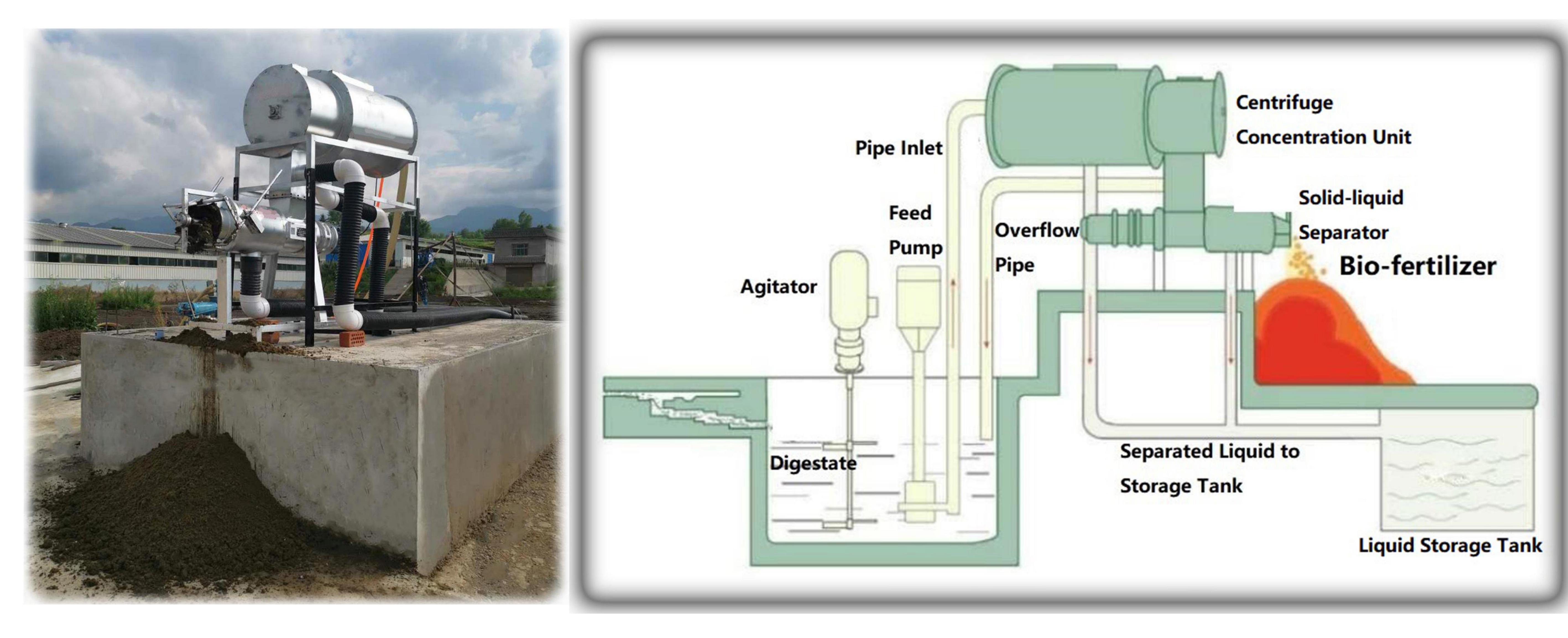


# AZK series solid-liquid separator

Model	Motor (kW)	Centrifugal machine (KW)	Capacity (m³/h)	Dimension (L/W/H) (mm)	Weight (kg)
AYZK20	3.0	1.1	10 ~ 15	2200/830/2200	600
AYZK30	4.0	1.5	15 ~ 20	2500/830/2400	720
AYZK50	5.5	1.5	30 ~ 50	3100/800/2400	900

AZK series solid-liquid separator is a improved model based on ZK series liquid-solid separator, Except the rewater removal function by a extrusion machine, it add a centrifugal machine to filter the water before the extrusion machine.





## Features:

Except the features of the AZK series Solid-Liquid separator, The AYZK series Solid-liquid separator equipped with centrifugal machine, it has increased the efficiency of water removal ratio. There is a filter screen in the tank. Driven by the motor, the waste water keeps rotating in the tank, the water seeps out from the filter screen, and the solid is discharged from the pipeline forward, and then enters the Extrusion process for the second time. So its dehydration efficiency is higher than that of traditional separators