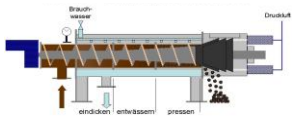
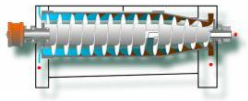
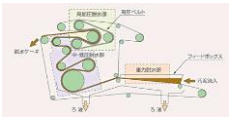
COMPARISON TABLE - VOLUTE and Other Dewatering Equipment in USA - "Currency:USD"

VOLUTE™

		VOLUTE Dewatering Press	Screw Press	Centrifuge	Belt Press
Overall Image					
Model (Throughput - 30 kg - DS/h)		FS-301	Inner Diameter ： 500mm	Inner Diameter ： 800mm	Standard Model : Belt 1 m wide
Principle		- The main body is composed of accumulated Rings and screw. - The accumulated Rings work as filter. The solids and The liquid are separated by The pressure caused by The screw. - The screw pushes The edge of The Moving Rings (diameter smaller than The screw) so that they move continuously in The gaps between The Fixed Rings as It rotates. This cleans The gaps and prevents clogging.	- The main body composed of The punching metal or wedge wire and screw. - The punching metal or wedge wire works as filter. The solids and The liquid are separated by The pressure caused by The screw. - The gravity dehydration and The pressuring dehydration are done to The floc made by The coagulant.	-The screw is built in The closure body. -It separates by The specific gravity difference of liquid and solids. -The sludge is introduced into a bowl rotaing at high speed. Centrifugal force causes liquid-solid paration.	- The main body is composed of filter cloth. - After gravity dewatering, The sludge is sandwiched between two filter cloths. dewatering is carried out by compression and application of pressure, using rollers and belts.
Dewatering Performance (sludge cake solids content)		★★★★ 15 - 20 %	★★★ 15 - 18 %	★★ 10 - 15 %	★ 10 - 15 %
Installation	Footprint	★★★★ 3395 mm × 1150 mm (Including a control panel and a flocculation tank)	★ 3350 mm × 3100 mm (Excluding a control panel and a flocculation tank)	★★ 2910 mm × 1485 mm (Excluding a control panel and a flocculation tank)	★ 3150 mm × 1950 mm (Excluding a control panel and a flocculation tank)
	Dry Weight	★★★★ 910 kg (Including a control panel and a flocculation tank)	★★★ 700 kg (Excluding a control panel and a flocculation tank)	★★ 1900 kg (Excluding a control panel and a flocculation tank)	★ 3000 kg (Excluding a control panel and a flocculation tank)
	Ease	★★★★	★★★	★	★
Noise and Vibration		★★★★	★★★	★	★★
Oily Sludge		★★★★	★	★★	★
Dairy Maintenance		★★★★	★★	★★	★
Initinal Cost		*Please Ask*	★★	★★	★★★★
*Power Consumption		*1.00 kW* USD 575/year	2.00 kW USD 1,150/year	20.50 kW USD 11,788/year	1.20 kW USD 690/year
*Water Consumption		*0.04 m3/h* USD 321/year	0.5 m3/h USD 4,013/year	2.5 m3/h USD 20,063/year	4.6 m3/h USD 36,915/year
Total Consumption		USD 896/year	USD 5,163/year	USD 31,850/year	USD 37,605/year

★★★★ very good, ★★★ good, ★★ normal, ★ not good

* Power Price: *USD 0.23/kWh*
* Water Price: *USD 3.21/m3*
* Operation Cycle: 10.0 hours/day 5.0 days/week 50 weeks/year
* Above data is an example based on a specific operational condition. Please understand that it varies depending on target sludge and operational condition.

Amenity Convenience AMCON®