



50 Series

## **SLUDGE THICKENING SYSTEM (50 SERIES)**

The Sludge Thickening System is designed to take low concentrated sludge (1 - 2% solids) and increase the sludge concentration to 4 - 5% solids by means of gravity settling. Sludges from a Memtek® Microfilter System, a solids separator (clarifier) or a TotalTreat® Continuous Precipitation System that does not incorporate an integrated sludge aging tank can be further thickened by using a Sludge Thickening System. The system is operated in a continuous mode. It includes a coned bottom FRP tank, FRP inlet baffle, effluent weir trough and a flanged sludge withdrawal nozzle.

### **Features**

- Non-corrosive FRP construction
- Integrate with other wastewater products

## SLUDGE THICKENING SYSTEM

Model Number	50-7105-3	50-7108-3	50-7112-3	50-7118-3	50-7125-3	50-7130-3	50-7135-3	50-7140-3	50-7145-3
Tank Volume	500 gallons 1.9 m <sup>3</sup>	800 gallons 3.0 m <sup>3</sup>	1,200 gallons 4.5 m <sup>3</sup>	1,800 gallons 6.8 m <sup>3</sup>	2,500 gallons 9.5 m <sup>3</sup>	3,000 gallons 11.4 m <sup>3</sup>	3,500 gallons 13.3 m <sup>3</sup>	4,000 gallons 15.1 m <sup>3</sup>	4,500 gallons 17.0 m <sup>3</sup>
Effluent Nozzle	3" (76 mm) Flanged	3" (76 mm) Flanged	3" (76 mm) Flanged	3" (76 mm) Flanged	3" (76 mm) Flanged	3" (76 mm) Flanged	4" (101 mm) Flanged	4" (101 mm) Flanged	4" (101 mm) Flanged
Sludge Withdrawal Nozzle	2" (50 mm) Flanged	2" (50 mm) Flanged	2" (50 mm) Flanged	2" (50 mm) Flanged	2" (50 mm) Flanged	2" (50 mm) Flanged	2" (50 mm) Flanged	2" (50 mm) Flanged	2" (50 mm) Flanged
Drain Valve	2" (50 mm) True Union Ball Valve	2" (50 mm) True Union Ball Valve	2" (50 mm) True Union Ball Valve	2" (50 mm) True Union Ball Valve	2" (50 mm) True Union Ball Valve	2" (50 mm) True Union Ball Valve	2" (50 mm) True Union Ball Valve	2" (50 mm) True Union Ball Valve	2" (50 mm) True Union Ball Valve
Dimensions (Dia. x H)	3'-0" x 10'-8" (914 x 3,251 mm)	4'-0" x 10'-8" (1,219 x 3,251 mm)	5'-0" x 10'-8" (1,524 x 3,251 mm)	6'-0" x 10'-8" (1,829 x 3,251 mm)	7'-0" x 10'-8" (2,134 x 3,251 mm)	8'-0" x 10'-8" (2,438 x 3,251 mm)	8'-0" x 13'-9" (2,438 x 4,191 mm)	9'-0" x 13'-6" (2,743 x 4,115 mm)	9'-0" x 14'-6" (2,743 x 4,420 mm)
Shipping Weight	432 lbs (196 kg)	560 lbs (254 kg)	722 lbs (328 kg)	834 lbs (378 kg)	955 lbs (433 kg)	1,095 lbs (497 kg)	2,640 lbs (1,197 kg)	2,726 lbs (1,237 kg)	2,800 lbs (1,270 kg)
Operating Weight	5,935 lbs (2,692 kg)	9,815 lbs (4,452 kg)	14,315 lbs (6,493 kg)	18,985 lbs (8,612 kg)	23,880 lbs (10,832 kg)	28,665 lbs (13,002 kg)	37,640 lbs (17,073 kg)	42,725 lbs (19,380 kg)	47,800 lbs (21,682 kg)

Model Number	50-7150-3	50-7155-3	50-7160-3	50-7165-3	50-7170-3	50-7180-3	50-7190-3	50-71100-3
Tank Capacity	5,000 gallons 18.9 kg	5,500 gallons 20.8 kg	6,000 gallons 22.7 kg	6,500 gallons 24.6 kg	7,000 gallons 26.5 kg	8,000 gallons 30.3 kg	9,000 gallons 34.0 kg	10,000 gallons 37.9 kg
Effluent Nozzle	4" (101 mm) Flanged	4" (101 mm) Flanged	4" (101 mm) Flanged	4" (101 mm) Flanged	4" (101 mm) Flanged	4" (101 mm) Flanged	4" (101 mm) Flanged	4" (101 mm) Flanged
Sludge Withdrawal Nozzle	2" (50 mm) Flanged	2" (50 mm) Flanged	2" (50 mm) Flanged	2" (50 mm) Flanged	2" (50 mm) Flanged	2" (50 mm) Flanged	2" (50 mm) Flanged	2" (50 mm) Flanged
Dimensions (Dia. x H)	10'-0" x 14'-0" (3,048 x 4,267 mm)	10'-0" x 15'-0" (3,048 x 4,572 mm)	11'-0" x 14'-6" (3,353 x 4,420 mm)	11'-0" x 15'-0" (3,353 x 4,648 mm)	12'-0" x 15'-0" (3,658 x 4,572 mm)	12'-0" x 16'-0" (3,658 x 4,928 mm)	12'-0" x 17'-0" (3,658 x 5,283 mm)	12'-0" x 18'-6" (3,658 x 5,639 mm)
Shipping Weight	3,280 lbs (1,488 kg)	3,370 lbs (1,529 kg)	3,980 lbs (1,805 kg)	4,050 lbs (1,837 kg)	4,465 lbs (2,025 kg)	4,975 lbs (2,257 kg)	5,490 lbs (2,490 kg)	6,000 lbs (2,722 kg)
Operating Weight	53,280 lbs (24,167 kg)	58,370 lbs (26,476 kg)	63,980 lbs (29,021 kg)	69,050 lbs (31,321 kg)	74,465 lbs (33,777 kg)	84,965 lbs (38,540 kg)	95,465 lbs (43,302 kg)	106,000 lbs (48,081 kg)



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