

# 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.



*50 Series*

## Features

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

## Sludge Thickening System (50 Series)

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 (lbs)	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 (gallons)	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'-3" 3,353 x 4,648 mm	12'-0" x 15'-0" 3,658 x 4,572 mm	12'-0" x 16'-2" 3,658 x 4,928 mm	12'-0" x 17'-4" 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

Siemens  
Water Technologies  
2000 Ericsson Drive  
Warrendale, PA 15086  
866.525.0621 Toll Free  
724.772.6520 Phone  
724.772.6521 Fax

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