WASTE WATER TREATMENT

Peripheral Traction Clarifiers With Sludge Suction

PTA







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Peripheral Traction Clarifiers
With sludge suction
PTA

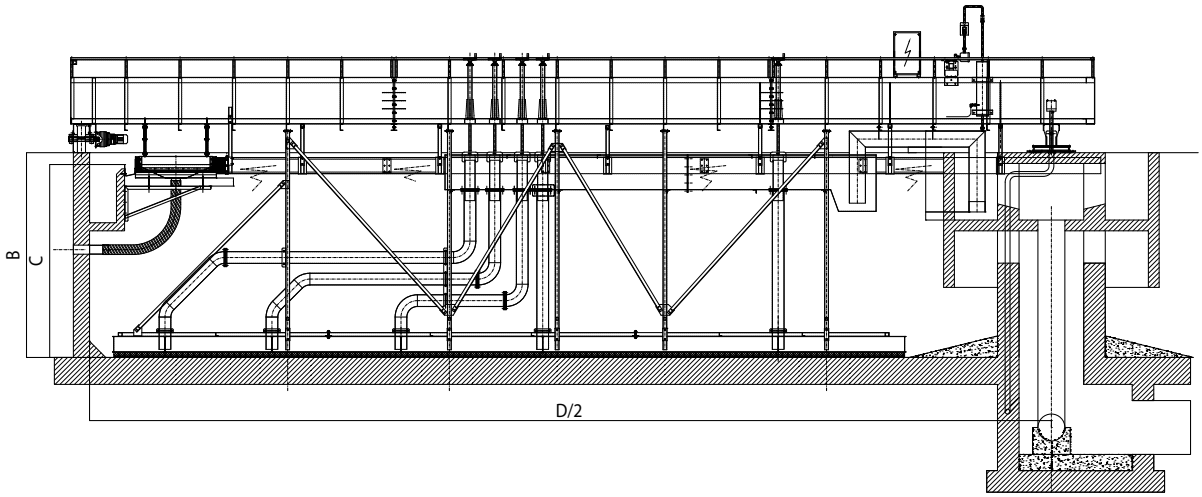
HIGHLY EFFICIENT BIOLOGICAL SLUDGE AND FLOATING PARTICLES REMOVAL

PTA Peripheral Traction Clarifiers are used to remove biological sludge and floating particles in circular primary and secondary settling tanks in both municipal and industrial waste water treatment plants.

This equipment is composed of a movable truck lying in the centre on a rotating central support and at its periphery on a traction trolley. The clarifier is operated by a gear motor connected to a slip ring placed in the central support. Waste water enters the concrete tank by means of a central cylinder, which spreads the liquid. Sludge settles on the tank bottom, while light particles and scum float. Thanks to the slow truck movement, special syphon pipes equipped with scraper blades suck the settled sludge. The syphon pipes are adjusted by means of telescopic valves installed on the walkway. Floating particles are collected by the surface scraper and conveyed into the scum box.

Clean water flows into the peripheral launder through the Thompson profile weirs.

Overall Dimensions



MODEL	INTERNAL TANK DIAMETER D m	TANK DEPTH B m	WATER LEVEL C m	PERIPHERAL SPEED m/1'	DRIVE POWER kW
PTA 5	5	2.00 ~ 4.50	1.60 ~ 4.00	1.2	0.37
PTA 6	6	2.00 ~ 4.50	1.60 ~ 4.00	1.2	0.37
PTA 8	8	2.00 ~ 4.50	1.60 ~ 4.00	1.2	0.37
PTA 10	10	2.00 ~ 4.50	1.60 ~ 4.00	1.2	0.37
PTA 12	12	2.00 ~ 4.50	1.60 ~ 4.00	1.2	0.75
PTA 14	14	2.00 ~ 4.50	1.60 ~ 4.00	1.2	0.75
PTA 16	16	2.00 ~ 4.50	1.60 ~ 4.00	1.2	0.75
PTA 18	18	2.00 ~ 4.50	1.60 ~ 4.00	1.2	0.75
PTA 20	20	2.00 ~ 4.50	1.60 ~ 4.00	1.8	0.75
PTA 22	22	2.00 ~ 4.50	1.60 ~ 4.00	1.8	0.75
PTA 24	24	2.00 ~ 4.50	1.60 ~ 4.00	1.8	0.75
PTA 26	26	2.00 ~ 4.50	1.60 ~ 4.00	1.8	0.75
PTA 28	28	2.00 ~ 4.50	1.60 ~ 4.00	1.8	1.1
PTA 30	30	2.00 ~ 4.50	1.60 ~ 4.00	1.8	1.1
PTA 32	32	2.00 ~ 4.50	1.60 ~ 4.00	1.8	1.1

Benefits

- ✓ **Quick installation**
- ✓ **High removal efficiency of sludge and floating matter**
- ✓ **Easy installation even in existing tanks**

Technical Features

- Available for tanks up to 60m in diameter
- Scum removal device
- Carbon steel hot dip galvanized / 304 L / 316 L SS
- As an alternative, PTA with walkway length radius +1/3 with bottom scraper and back bottom scraper
- As an alternative, double traction clarifier with diametric walkway and double scrapers



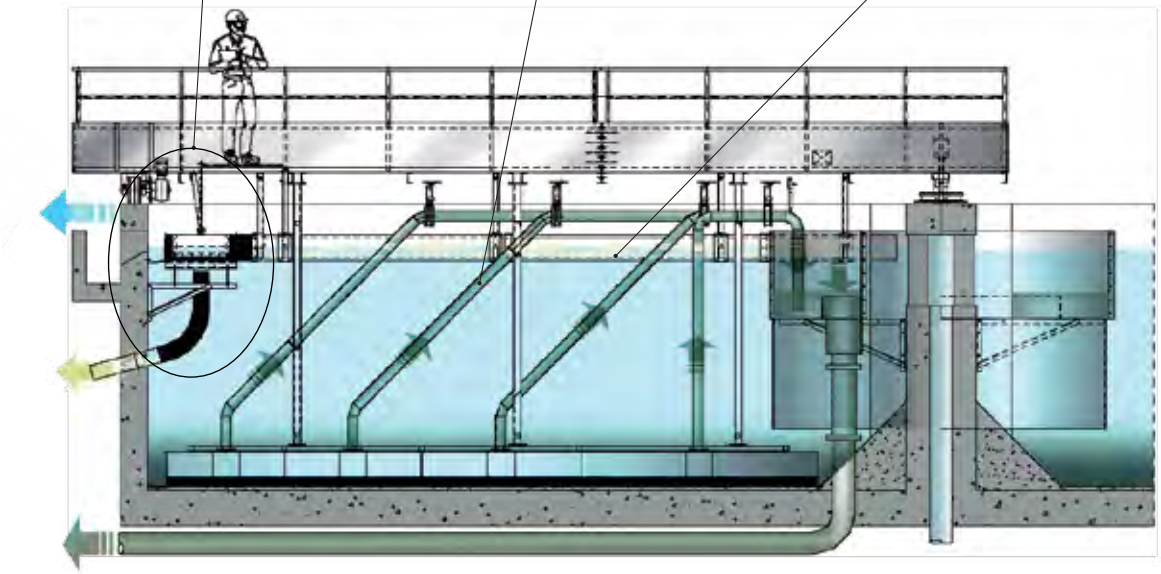
Scum Removal System



Syphons



Scum Removal



Accessories

- Scum removal by means of “rotoling pipe” system
- Stainless steel clean water launder
- Electric torque limit switch
- Motorized rotating brush for weirs/launder cleaning

Application







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