



# PCI CLARIFLOCCULATOR

A range of clariflocculator scraper mechanisms is available for use in the pre-treatment of raw water for potable use. The scraper mechanisms are purpose designed to suit circular tanks with sloping floors and can be supplied in a number of different materials.

Inflow normally enters the tank through a concrete column which doubles up as the bridge support at the centre. A circular flocculation chamber surrounds the column and disperses the flow evenly into the tank. Alternative feed arrangements can be accommodated where an underfloor feed is not possible.

The flocculation chamber extends from water level to a level marginally above the scrapers. A number of flocculator paddles can be installed on extensions to the bridge and these depend into the water from slowly rotating shafts.

Flocculated sludge deposits on the floor of the tank and is scraped to the sludge hopper at the centre. From this point it is withdrawn under hydrostatic head through an underfloor pipe to a sump at the side of the tank. Desludging can be automated where this is preferred.



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A rotating bridge carrying the scraper mechanism and flocculator paddles is powered by a drive unit running on the peripheral wall and this is fed from a cable passing under the tank floor to a slip ring collector at the centre. The inboard end of the bridge rests on a robust centre pivot bearing which is accessible from the platform on top of the centre support column.

With the tank floor sloping to the centre, scrapers depending from the bridge, are normally arranged in echelon formation but volute type scrapers are available where preferred.

PCI AFRICA

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