Daicen Membrane System LTD.

Oil-water Separation Wastewater Treatment System

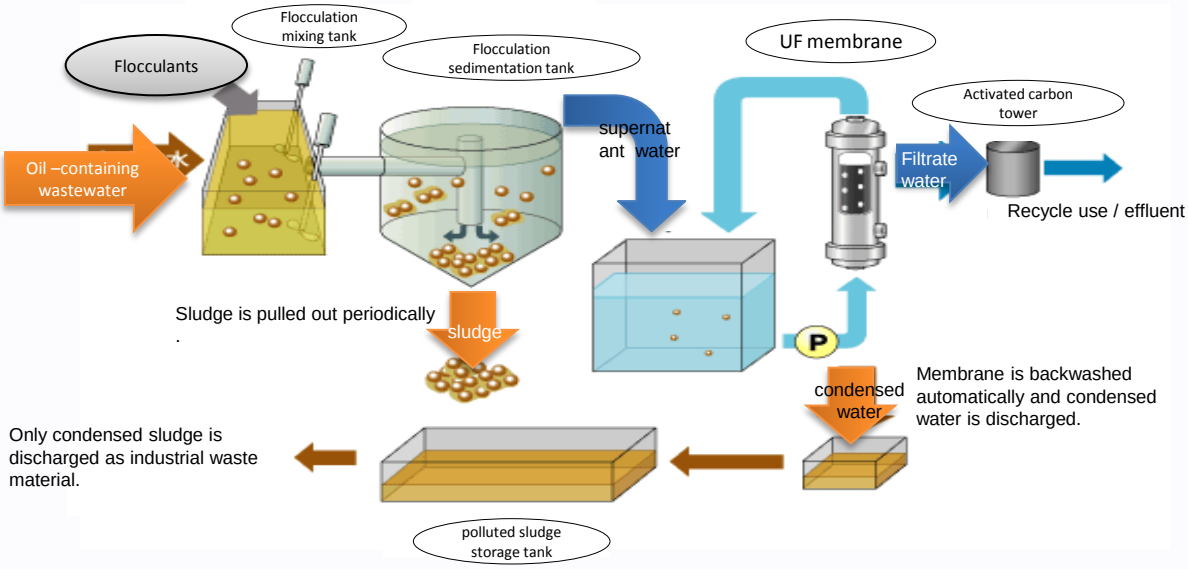
・Advanced wastewater treatment system with flocculation and UF membrane filtration

Features

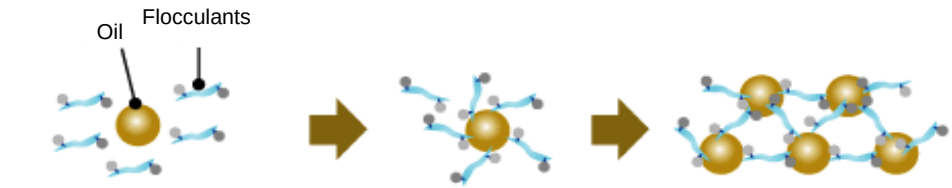
・Processed water can be recycled.
・Oil and suspended solids (SS) can be removed from the wastewater.
・The levels of normal-hexane, biochemical oxygen demand (BOD) and chemical oxygen demand (COD) of wastewater can be reduced.
・The equipment is compact, featuring high treating ability.
・By using wastewater discarded as industrial waste, the cost of industrial waste disposal can be reduced.
・Emission is only a small amount of sludge.
・Equipment can be operated automatically.

Overview (Technical principles, operation, etc.)

As protection of the earth's environment by factories and ISO certification acquisition are increasingly being focused on, oil-containing wastewater treatment is an important issue in promoting companies' environmental protection activities, improvement in production efficiency, and cost reduction. Recently, many factories have adopted a membrane separation system as a form of oil-containing wastewater treatment, but many problems have occurred, such as an unexpectedly short lifespan of the system as well as excessive maintenance work and cost.
A wastewater treatment system using a special flocculating agent and a UF membrane, developed by our company, can solve these problems. The processed water can be used again, and the water, the quality of which is improved to the dischargeable regulation level, can be discharged directly to rivers or sewage. We propose comprehensive treatment of oil-containing wastewater.



Principle of flocculation sedimentation



Flocculants is added to the oil-containing wastewater.

Flocculants is bonded to the oil.

Flock is formed.

		Raw water	Final treated sewage
COD	mg/L	420	4
BOD	mg/L	200	Less than 1
Level of n-hexane	mg/L	580	Less than 2

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