

RDT

ROTARY DRUM THICKENER

Continuous, automatic thickening of municipal and industrial sludge.

Nine models, capacity from 4.4 to 440 GPM.



Small space
requirement



Closed, no odor
or splashing



Simple operation,
low maintenance



Call Us Today
1-855-650-2214



Email Us
info@aqualitec.com

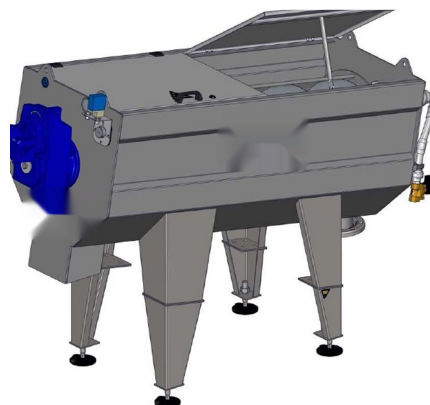


Aqualitec Corp. - 3415 S. Sepulveda Blvd,
Suite 1100, Los Angeles, CA 90034

OPERATING MODE

Flocculated sludge is led inside and through the drum over the flow edge. Water flows out through the surface of the drum and the sludge is transported by the spiral screw along the drum and out from the end.

The central shaft, spiral screw and drum surface together prevent direct sludge flow from the inlet to the discharge end. Filtrate is collected in the bottom frame-integrated tank and discharged through a single flange. Drum rotation speed is adjustable by frequency converter, and the machine can be tilted up to 10 degrees with the outlet side higher.



- 1 **Sludge inlet** — flocculated sludge enters over the flow edge
- 2 **Filtering drum** — water passes through the drum surface
- 3 **Spiral screw** — carries thickened sludge to the discharge end

FEATURES & BENEFITS



1 Closed, compact construction

The drum runs inside a full set of covers, which keeps the equipment easy to locate and avoids nuisance from odour and splashing. The feet are adjustable.

2 Flexible installation

The RDT can be mounted on a sludge silo, on civil works inside a building, on a trailer, in front of a belt filter press, or on a skid supporting frame.



FEATURES & BENEFITS



3 Drum washing system

The drum surface is cleaned by pressure water jet from a spraybar inside the basin. Washing runs to an adjustable timer program, so the filtering surface stays clear without operator attention.

4 Simple operation

Continuous and automatic thickening with no requirement for a highly qualified operator. Drum speed is set by frequency converter to suit the sludge.

5 Low operating cost

Low energy consumption and low maintenance cost, with a small space requirement compared with equivalent thickening capacity in other technologies.

6 Stainless steel construction

The machine comprises a stainless steel structural frame, sludge distribution system, filtering drum, drum washing system, drum drive system and a full set of covers. An electric control panel is available as an option.



INSTALLATIONS



In service

RDT units thicken municipal and industrial sludge at wastewater, sewage and drinking water treatment plants.



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SELECTION TABLE

Model	Drum diameter	Drum length
RDT 5-15	19.7"	4'-11"
RDT 5-23	19.7"	7'-7"
RDT 5-27	19.7"	8'-10"
RDT 6-27	23.6"	8'-10"
RDT 6-32	23.6"	10'-6"
RDT 6-37	23.6"	12'-2"
RDT 7-32	27.6"	10'-6"
RDT 7-37	27.6"	12'-2"
RDT 8-37	31.5"	12'-2"

Capacity range 4.4 to 440 GPM. Model selection must be confirmed against sludge characteristics: type of sludge, inlet DS concentration, required outlet concentration, sludge volume, dry solids quantity and organic matter content.

DESIGN GUIDELINES

MATERIALS	Drum drive system and full set of covers
Structural frame : stainless steel	Electric control panel : optional
Filtering drum : stainless steel	INSTALLATION
EQUIPMENT	Tilt : up to 10 degrees, outlet side higher
Sludge distribution system	Feet : adjustable
Drum washing system with spraybar and timer	Mounting : silo, civil works, trailer or skid frame

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DAF units

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