



# **WATER IN CRUDE OIL APPARATUS (DISTILLATION METHOD)**

# Water in Crude Oil Apparatus (Distillation Method) TT-4006A

Water in Crude Oil Apparatus (Distillation Method) TT-4006A - Understanding the water content of crude oil is crucial for refining, purchasing, selling, or transferring crude oils.

Water in Crude Oil Apparatus (Distillation Method) TT-4006A adheres to the ASTM D4006 Standard Test Method for Water in Crude Oil by Distillation. It's utilized for distillation-based testing of water content in crude oil.

The TT-4006 apparatus is designed with a single element, while the TT-4006A features double elements for enhanced efficiency and accuracy in water content testing.

## APPLICATIONS

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The primary application of the Water in Crude Oil Apparatus TT-4006A is to determine the **water content in crude oil using the distillation method**, in compliance with the **ASTM D4006** standard. This is a crucial measurement for accurately assessing the quality and purity of crude oil, as water is a significant contaminant that can cause corrosion and processing issues. The test is fundamental for commercial transactions to determine the net volume of pure oil being traded.

### Key Industries

- **Oil and Gas Production (Upstream):** Producers use this test to measure the water content of crude oil as it is extracted. This data is essential for initial quality assessment and for managing production processes before the oil is transported.
- **Pipeline and Transportation (Midstream):** This apparatus is critical for custody transfer points, where ownership of the oil changes hands (e.g., from production facilities to pipelines or from tankers to terminals). The water content must be accurately determined to calculate the net volume of oil for sales and taxation purposes.

- **Petroleum Refining (Downstream):** Refineries are the primary buyers of crude oil and must test incoming shipments for water content. High levels of water can cause significant operational problems, including corrosion in distillation towers and fouling of equipment, making this a vital intake quality control test.

## FEATURES

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- A stepless solid-state voltage regulator ensures heating without an open flame, prioritizing safety and reliability.
- Heating jackets operate without a flame, ensuring safety and reliability in operation.
- The voltmeter provides clear readings, ensuring accurate temperature control and demonstrating excellent insulation properties.
- The apparatus offers simple operation with an elegant structure, enhancing user experience.

## TECHNICAL SPECIFICATIONS

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1. Rated Voltage: AC 220V $\pm$ 10% 50Hz (110V also available)
2. Power: Continuously adjustable from 0 to 650W
3. Heating Method: Heating jacket
4. Display Adjustment: AC voltmeter ranging from 0 to 250V
5. Temperature Control Mode: Stepless voltage solid-state regulator
6. Distillation Flask: 1000ml capacity
7. Accepting Bottles: 5ml with a scale of 0.05ml
8. Liebig Condenser: 400mm length

9. Temperature Accuracy:  $\pm 0.1^{\circ}\text{C}$

10. Ambient Requirements: Temperature range of 10~40°C; Humidity not exceeding 85%



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