

CENTRIFUGE

Brand: APACO

Model:CFA600

Made in: iran

Basic sediment and water (BS&W) is a both a technical specification of certain impurities in crude oil and the method for measuring it. When extracted from an oil reservoir, the crude oil will contain some amount of water and suspended solids from the reservoir formation. The particulate matter is known as sediment or mud. The water content can vary greatly from field to field, and may be present in large quantities for older fields, or if oil extraction is enhanced using water injection technology. The bulk of the water and sediment is usually separated at the field to minimize the quantity that needs to be transported further. The residual content of these unwanted impurities is measured as BS&W. Oil refineries may either buy crude to a certain BS&W specification or may alternatively have initial crude oil dehydration and desalting process units that reduce the BS&W to acceptable limits, or a combination thereof.

The APACO CF600 Oil Test Centrifuge is a heated chamber centrifuge used to determine water and sediment in oils. The large diameter chamber, with four place rotor and cushioned adaptors allows the use of 8 inch conical, pear-shaped, trace sediment and 12.5 ml tubes.

The swing out rotor ensures that samples are held near vertical when at rest allowing precise measurement of sediment. The centrifuge features a hinged lid that opens to the fully upright position to allow easy loading and unloading of tubes between tests. Speed, temperature and timing are microprocessor controlled. Run parameters are entered via a liquid proof 'touch panel' and digital display

- so thermal heaters fitted internally to the centrifuge chamber
- 4 place swing out rotor
- Static, near vertical bucket positioning
- Specifically designed for testing oils
- Heated chamber, ambient to 70 °C
- Universal buckets for 12.5 ml, 8 inch glassware
- Microprocessor control



MAXIMUM RELATIVE CENTRIFUGAL FORCE (RCF)	2210 g
MAXIMUM ROTATIONAL SPEED	3000 rpm
TEMPERATURE RANGE	20 to 70 °C ±1 °C
TIMER RANGE	10 seconds to 1 hour
CONTROL	Microprocessor
CAPACITY	4 Samples ,(100cc Tube) according to ASTM D96.
VOLTAGE RANGE	230 V, 50/60 Hz (Optional transformer for 110/120 V)
POWER	1000 W

ASTM method D4007or API Manual of Petroleum Measurement Standards chapter 10.4 are commonly used to measure BS&W. These methods both consist of mixing equal volumes of solvent and crude oil then centrifuging in order to separate any solids, free water, or suspended particles.

More precise methods beyond BS&W are available to independently measure water or solids present in a sample of crude oil.