



0086 16601757347  
inquiry@yukelab.com  
www.yukelab.com  
0086 021 59570209

# Automatic COD analyzer YKHHC100

## Product Overview:

Traditional COD detection and analysis is not only time-consuming, but also complicated and tedious. It also requires high skills from operators. Water sample detection and recording can hardly meet the needs of large-volume sample analysis and testing. The fully automatic COD water quality analyzer is used for the automatic digestion and determination of COD, which automates the tedious and complex COD analysis. The analysis is unattended and water samples are processed in batches, freeing the hands of the testers and providing accurate COD water quality analysis, which meets the requirements of "HJ/T 399-2007 Rapid Digestion Spectrophotometric Method for the Determination of Chemical Oxygen Demand in Water".





0086 16601757347  
inquiry@yukelab.com  
www.yukelab.com  
0086 021 59570209

### Instrument features:

1. The analysis system consists of four units, namely, automatic three-dimensional sampling unit, automatic digestion unit, high-precision spectrophotometer unit, and automatic control display unit. It has fault detection alarm function and memory function. After power failure, restarting the instrument can determine the unfinished analysis status and continue to complete the analysis, increasing the safety of system operation.
2. Automatic analysis, simple process, input sample information into the control unit, the automatic sampler automatically injects samples into the digestion and analysis unit, with sample addition function, you can add samples at any time, each measurement interval, the pipeline can be automatically cleaned, to ensure the accuracy of the measurement results and the pollution-free sampling.
3. The instrument is equipped with a digester and cooling system. The analyst only needs to accurately extract the water sample and set the information of the sample to be tested on the instrument interface to avoid editing the sample information individually, improve work efficiency, and automatically measure the remaining steps, automatically digest, automatically quickly cool, automatically discharge waste, and automatically generate and save reports. The closed structure design and automatic waste liquid discharge program avoid pollution to the environment during the test process.
4. No sample preparation process is required, and pre-made reagents are used, which can greatly shorten the preparation time of reagents.
5. The instrument can digest 16 samples at the same time, and has a fast water circulation cooling system, which improves the efficiency of analysis and testing. The analysis system adopts a fully automatic high-precision spectrophotometer with high wavelength accuracy and good stability. Corrosion-resistant and long-life design: It can repeatedly transfer various corrosive organic and inorganic liquids such as 98% concentrated sulfuric acid, strong alkali, organic solvents, etc. for a long time (corrosion-resistant DuPont polytetrafluoroethylene pipes, patented air-to-liquid transfer technology, greatly extending the life of the precision injection pump).
6. With a wide measurement range and strong anti-interference ability, the instrument has the function of automatic sample dilution (dilution method needs to be confirmed) and automatic calibration, which has higher reliability and accuracy.
7. IoT cloud data upload function, Bluetooth transmission, USB interface, wifi module, support for cloud storage, WeChat applet, greatly facilitates the customer's application scenarios.

### Instrument parameters:

Screen size: 7-inch color capacitive touch screen  
Measurement items: Chemical oxygen demand COD  
Measurement range: 4-10000mg/L segmented test  
Anti-chlorine interference: 5000mg/L  
Measurement time: 40 minutes/16  
Detection limit: 4mg/L  
Wavelength accuracy:  $\pm 0.1\text{nm}$  (at 656.1nm),  $\pm 0.3\text{nm}$  full area  
Repeatability:  $\leq 0.1\text{nm}$



0086 16601757347  
inquiry@yukelab.com  
www.yukelab.com  
0086 021 59570209

Accuracy: 0.2%T (0-100%T),  $\pm 0.002A$  (0-0.5A),  $\pm 0.004A$  (0.5-1A)  
Repeatability:  $\leq 0.15\%T$  (0-100%T),  $\pm 0.001A$  (0-0.5A),  $\pm 0.002A$  (0.5-1A)  
Stray light:  $\leq 0.03\%T@220nm, 360nm$   
Stability:  $\pm 0.001A/h@500nm$



Main Interface



Menu



Sample injection configuration



Sample analysis



0086 16601757347  
inquiry@yukelab.com  
www.yukelab.com  
0086 021 59570209