



Beijing Bianhuadian Chemical analytical instruments Co Ltd.,

Analytical instruments
for boiler water



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○ Certificates ○

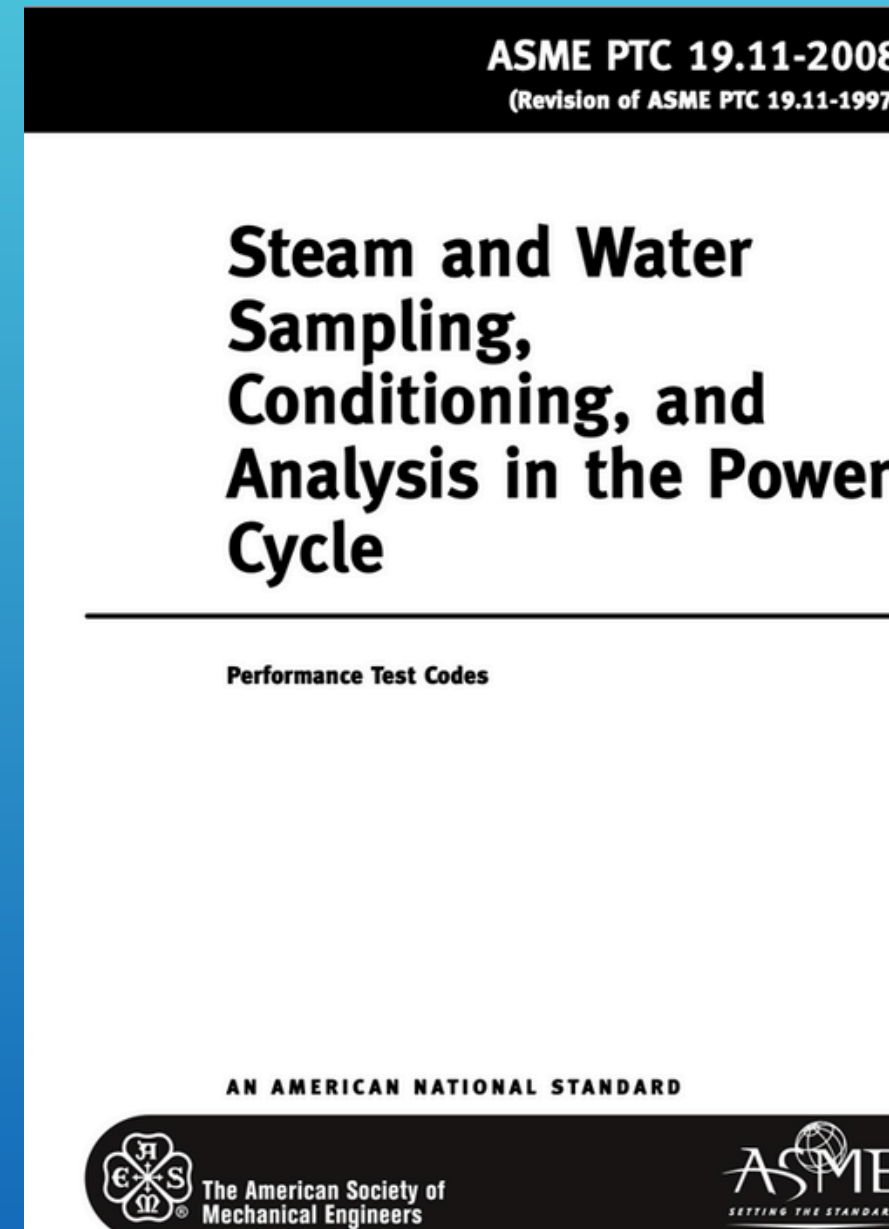


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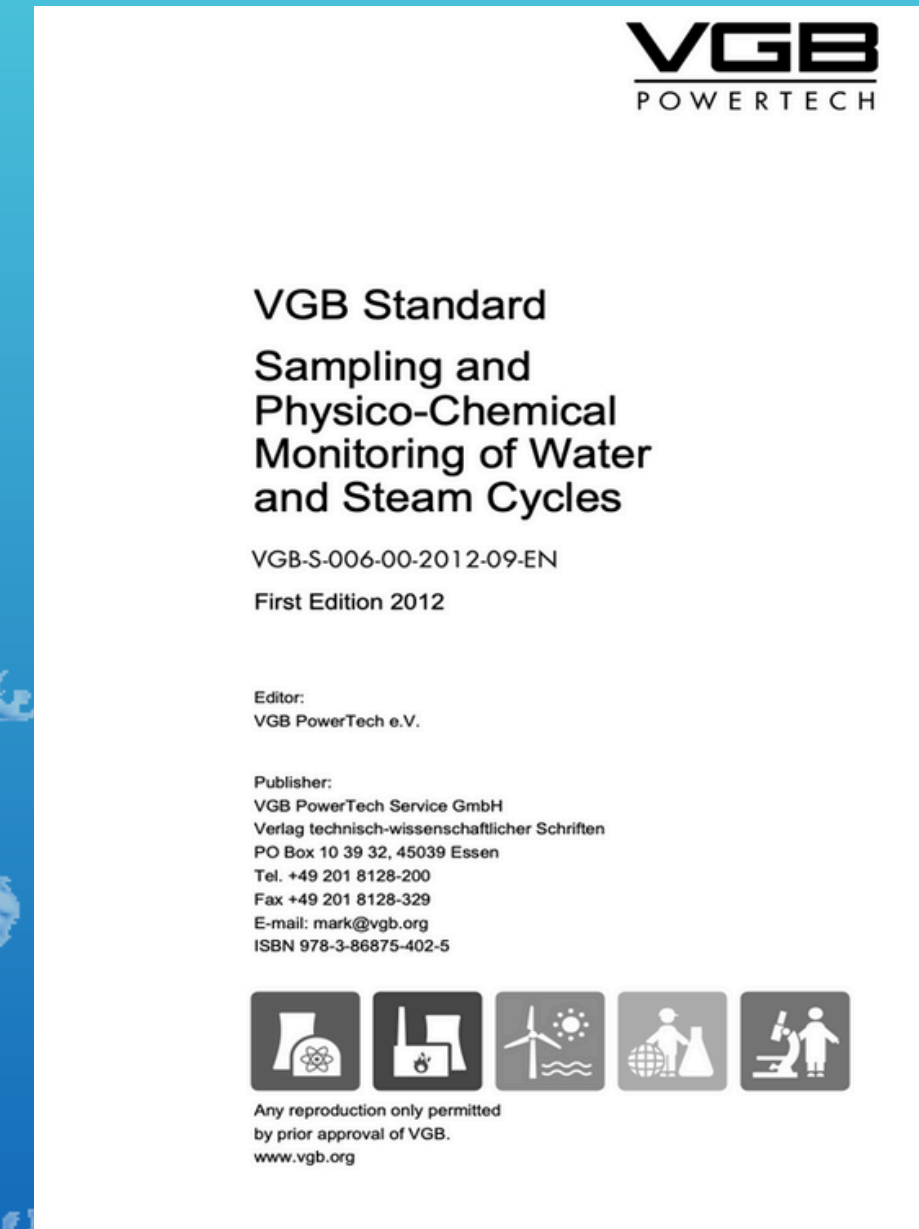
Certifications



Chinese GB certificate



USA ASME certificate



EU VGB certificate

○ Product introduction ○

Automatic monitoring series
Laboratory water analysis series
Portable series
Installation series



02

Automatic monitoring series

Conductivity Monitor—HD-9533



pH Analyzer—HD-9522



Measuring range	0.0~200.0us/cm; 0~2000us/cm; 0.01~20.00ms/cm (adjustable)
Main material	PPS shell
Resolution	0.1us/cm; 1us/cm; 0.01ms/cm
Accuracy	±2%F.S.
Repeatability	±1%
Temperature measurement range	0.0~60.0℃
Electrode withstand pressure	0~0.1 MPa
Power supply	12 VDC
Electrode temperature resistance	0~60℃ (no freezing)
Protection level	IP68/NEMA6P
Dimensions	26mm*166mm
Mounting thread	3/4 inch front and rear threads
Cable length	Standard 10m; can be extended to 200m

Measuring range	0~14 pH
Main material	PPS; Black polypropylene; Ag/AgCl reference gel
Resolution	0.01pH
Accuracy	±0.1pH
Repeatability	±0.1pH
Temperature measurement range	0.0~60.0℃
Electrode withstand pressure	0~0.1MPa
Power supply	12 VDC
Electrode temperature resistance	0.0~60.0℃ (no freezing)
Protection level	IP68/NEMA6P
Dimensions	26mm*166mm
Mounting thread	3/4 inch front and rear threads
Cable length	Standard 10m; can be extended to 200m

Automatic monitoring series

Polarographic Dissolved
Oxygen Analyzer---HD-2110Z



Measuring range

Dissolved oxygen: 0~200 $\mu\text{g/L}$

Temperature: 0~45°C

Accuracy

Dissolved oxygen: $\pm 2\%$ of measured value

Temperature: $\pm 0.5^\circ\text{C}$

Pressure range

$\leq 0.3\text{MPa}$

Calibration

Automatic air calibration, sample calibration

Storage temperature

-15~60°C

Operating temperature

0~45°C

Protection level

IP68/NEMA6P

Cable length

Standard 10m, can be extended to 100m

Fluorescence Dissolved
Oxygen Analyzer—HD-2110Z



Dissolved oxygen: 0~20 mg/L ; 0~20ppm

Temperature: 0~45°C

Dissolved oxygen: $\pm 3\%$ of measured value

Temperature: $\pm 0.5^\circ\text{C}$

$\leq 0.3\text{MPa}$

Automatic air calibration, sample calibration

-15~60°C

0~45°C

IP68/NEMA6P

Standard 10m, can be extended to 100m

Automatic monitoring series

Water treatment workshop high-precision
turbidity analyzer HD-2125Z (high precision)



Spectroscopic circulating water
online turbidity analyzer HD-2015Z



Measuring range	0.001~100NTU
Accuracy	0.001-40NTU±2%; 40-100NTU±5%
Pressure range	
Flow rate	
Water sample flow	300ml/min≤X≤700ml/min
Calibration	Standard solution calibration, water sample calibration, zero point calibration
Fittings	Inlet: 1/4NPT; outlet 1/2NPT
Main materials	Body: ABS+SUS316L; Seal: Nitrile rubber; Cable: PVC
Storage temperature	-15~65℃
Operating temperature	0~45℃
Protection level	IP68/NEMA6P
Cable length	Standard 2m, extension is not recommended

Measuring range	0.01~100NTU; 0.01~4000NTU
Accuracy	Measurement value ±2%, or ±0.1NTU
Pressure range	≤0.4MPa
Flow rate	Less than or equal to 2.5m/s, 8.2ft/s
Water sample flow	
Calibration	Sample calibration, slope calibration
Fittings	
Main materials	Body: SUS316L (ordinary version), titanium alloy (seawater version); upper and lower covers and cables: PVC
Storage temperature	-15~65℃
Operating temperature	0~45℃
Protection level	IP68/NEMA6P
Cable length	Standard 10m, can be extended to 100m

Automatic monitoring series

Colorimetric COD Analyzer



Measuring range	0~1000~5000mg/l
Accuracy	±10%
Repeatability	±5%
Display	7-inch screen
Sampling cycle	0.5~24 hr
Calibration cycle	Manual or automatic (any interval from 1 to 99 days)
Maintenance cycle	Once a month, 30 minutes each time
Power supply	220VA±10%, 50Hz±10%
Output	4~20mA output
Communication method	MODBUS RS-232, RS-485
Measurement interval	Continuous measurement or timed measurement

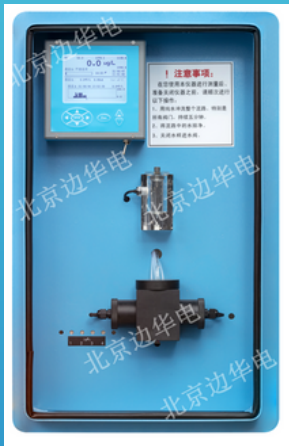
Spectroscopic COD Analyzer



Measuring range	0~2000mg/l
Accuracy	±5%
Measuring interval	Minimum 1min
Pressure range	≤0.4MPa
Sensor material	SUS316L
Storage temperature	-15~65°C
Operating temperature	0~45°C
Protection level	IP68/NEMA6P
Cable length	Standard 10m. Can be extended to 100m

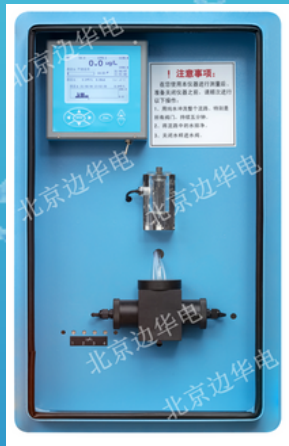
Automatic monitoring series

Silicate Monitor——HD-2011



Measuring range	0~200μg/L, 0~2000μg/L
Accuracy	2%
Display	400mm*600mm LCD display
Calibration	Use default calibration curve
Flow rate	200~400ml/min
Inlet pressure	0.1~5bar
Storage temperature	5~60℃
Storage humidity	10~90% non-condensing
Operating temperature	5~40℃
Power supply	220~230VAC, 50/60Hz
Output	4~20mA
Communication method	MODBUS RS485
Relay	Two groups, concentration alarm can be set
Dimensions	380mm*630mm
Weight	≈12kg
Mounting method	Wall-mounted, tray-mounted

Phosphate Monitor - HD-2012



Measuring range	0~20mg/L
Accuracy	2%
Display	400mm*600mm LCD display
Calibration	Use default calibration curve
Flow rate	200~400ml/min
Inlet pressure	0.1~5bar
Storage temperature	5~60℃
Storage humidity	10~90% non-condensing
Operating temperature	5~40℃
Power supply	220~230VAC, 50/60Hz
Output	4~20mA
Communication method	MODBUS RS485
Relay	Two groups, concentration alarm can be set
Dimensions	380mm*630mm
Weight	≈12kg
Mounting method	Wall-mounted, tray-mounted

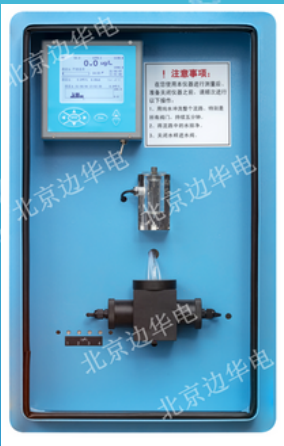
Automatic monitoring series

Sodium Ion Analyzer——HD-2123Z



Measuring range	pNa: 0~9.36, Na+: 0.01μg/l~23mg/l
Accuracy	pNa±0.025, Na concentration value ±3%
Display	400mm*600mm LCD display
Response time	90% in 2min
Flow rate	200~400ml/min
Inlet pressure	0.1~5bar
Storage temperature	5~60℃
Storage humidity	10~90% non-condensing
Operating temperature	5~40℃
Power supply	220~230VAC, 50/60Hz
Output	4~20mA
Communication method	MODBUS RS485
Relay	Two groups, concentration alarm can be set
Dimensions	380mm*630mm
Weight	≈12kg
Mounting method	Wall-mounted, tray-mounted

Online Alkalinity Monitor——HDDG-9533B



Measuring range	0~50mg, 0~500μmol/L
Accuracy	5%
Display	400mm*600mm LCD display
Response time	8min
Flow rate	200~400ml/min
Inlet pressure	0.1~5bar
Storage temperature	5~60℃
Storage humidity	10~90% non-condensing
Operating temperature	5~40℃
Power supply	220~230VAC, 50/60Hz
Output	4~20mA
Communication method	MODBUS RS485
Relay	Two groups, concentration alarm can be set
Dimensions	380mm*630mm
Weight	≈12kg
Mounting method	Wall-mounted, tray-mounted

Automatic monitoring series

Total Phosphorus Analyzer HD-2012



Measuring range	0~20mg/l
Accuracy	±10%
Repeatability	±10%
Display	7-inch display
Sampling cycle	60~9999min adjustable, hourly measurement, external trigger three modes
Calibration cycle	Manual calibration or automatic calibration (1~99 days adjustable)
Maintenance cycle	Once a month, 30 minutes each time
Power supply	220~230VAC, 50/60Hz
Output	4~20mA
Communication method	MODBUS RS-232, RS485

Resin regeneration device HD-8021



Resin regeneration degree	≥98%
Maximum single regeneration volume	20l
Maximum single regeneration acid consumption	60l (5% HCl)
Single regeneration time	≈3 hrs
Material	Stainless steel frame, organic glass body, PVC pipe
Operating temperature	5~40℃
Power supply	220V
Power supply	229VAC±10%, 50Hz±10%

Laboratory water analysis series

	HD-2021 Silicate	HD-2022 Phosphate	HD-2022 Total P	HD-2023 Total Copper Ion	HD-2024 Total Iron Ion
Measuring range	0.0~50.0; 0.0~100.0; 0.0~2000.0μg/l	0.0~0.50; 0.0~2.0; 0.0~20.0mg/l 等5档	0.0~2.0; 0~20.0; 0.0~50.0mg/l	0.0~50.0; 0.0~100.0; 0.0~200.0μg/l	0.0~50.0; 0.0~100.0; 0.0~200.0μg/l
Resolution	0.01	0.01	0.01	0.01	0.01
Basic error	±2.0% F.S ±1.0% F.S (25℃±2℃)	±2.0% F.S ±1.0% F.S (25℃±2℃)	±3.0% F.S	±2.0% F.S	±2.0% F.S
Repeatability	≤1.0	≤1.0	≤1.5	≤1.0	≤1.0
Stability	±1.0*10 ⁻² /8h (Reagent-free water)	±1.0*10 ⁻² /8h (Reagent-free water)	±1.5*10 ⁻² /8h (Reagent-free water)	±1.0*10 ⁻² /8h (Reagent-free water)	±1.0*10 ⁻² /8h (Reagent-free water)
Storage temperature	-25~55℃ without standard solution, standard solution must be higher than 0℃				
Ambient temperature	10~45℃				
Ambient humidity	≤85%RH				
Space	No direct sunlight, no corrosive gas, no electromagnetic interference				
Water sample temperature	10~40℃				
Allowable solid content of water sample	≤5μm (no colloid and grease allowed)				
Power supply	AC: 220V±22V, 50Hz±1Hz, 200VA (no temperature control), 400VA (temperature control)				
Dimensions	240mm*340mm*230mm				
Weight	4kg				

Laboratory water analysis series

	HD-2025COD	HD-2026 Hydrazine	HD-2027 Hardness	HD-2028 Ammonia Nitrogen	HD-2029 Residual Chlorine
Measuring range	0~150mg/l 150~1500mg/l	0.0~100.0; 0.0~200.0; 0.0~400.0μg/l	0.0~20.0; 0~100.0μmol/l	0.01~5mg/l	0.01~5mg/l
Resolution	0.01	0.01	0.01	0.01	0.01
Basic error	±3.0% F.S) ±1.5	±2.0% F.S ≤1.0	±2.0% F.S ≤1.5	±3.0% F.S ≤1.5	±3.0% F.S ≤1.5
Repeatability Stability	±1.5*10 ⁻² /4h	±1.0*10 ⁻² /8h (Reagent-free water)	±1.5*10 ⁻² /8h	±1.5*10 ⁻² /8h	±1.5*10 ⁻² /8h
Storage temperature	-25~55°C without standard solution, standard solution must be higher than 0°C				
Ambient temperature					
Ambient humidity					
Space					
Water sample temperature					
Allowable solid content of water sample	10~45°C ≤85%RH No direct sunlight, no corrosive gas, no electromagnetic interference 10~40°C ≤5μm (no colloid and grease allowed)				
Power supply	AC: 220V±22V, 50Hz±1Hz, 200VA (no temperature control), 400VA (temperature control)				
Dimensions	240mm*340mm*230mm				
Weight	4kg				

Portable series

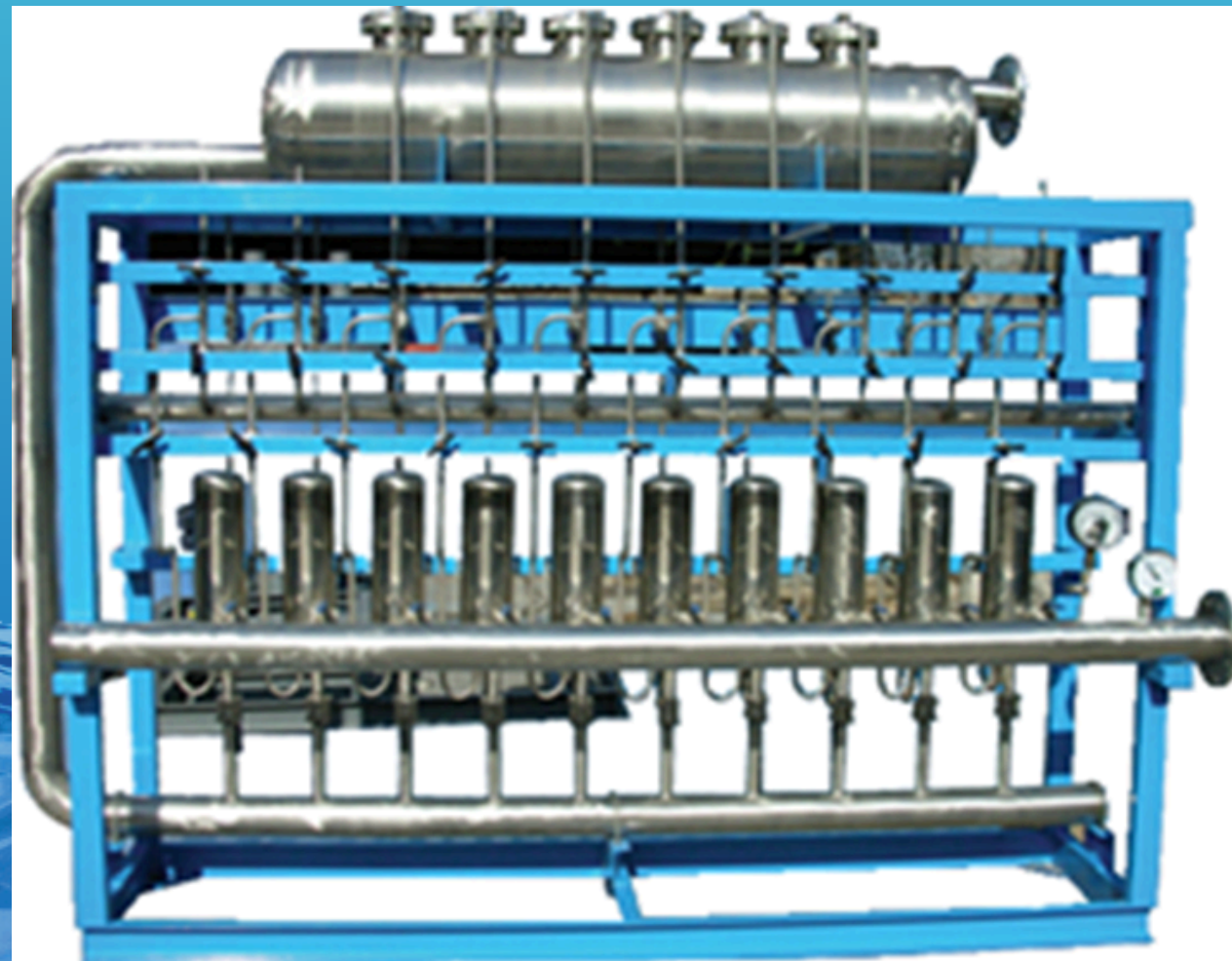


HD-9533 S
HD-9522
HDDG-9533
HDY-2110S

Conductivity meter
pH monitor
Salt density meter
Dissolved oxygen monitor

1. Original wireless workstation function, which can realize wireless signal transmission within 800M.
2. Adopt microelectronic technology, 32-bit ultra-large-scale integrated circuit. Realize ultra-small circuit board.
3. IP55 protection standard, all-plastic mold shell, fully sealed and dustproof. Ultra-small shell. Easy to carry.
4. English and Chinese menu, ultra-long history memory, with notepad function.
5. Lithium battery power supply can achieve 72 hours of standby.

Installation series



○ Case display ○



03

Case display



Case display



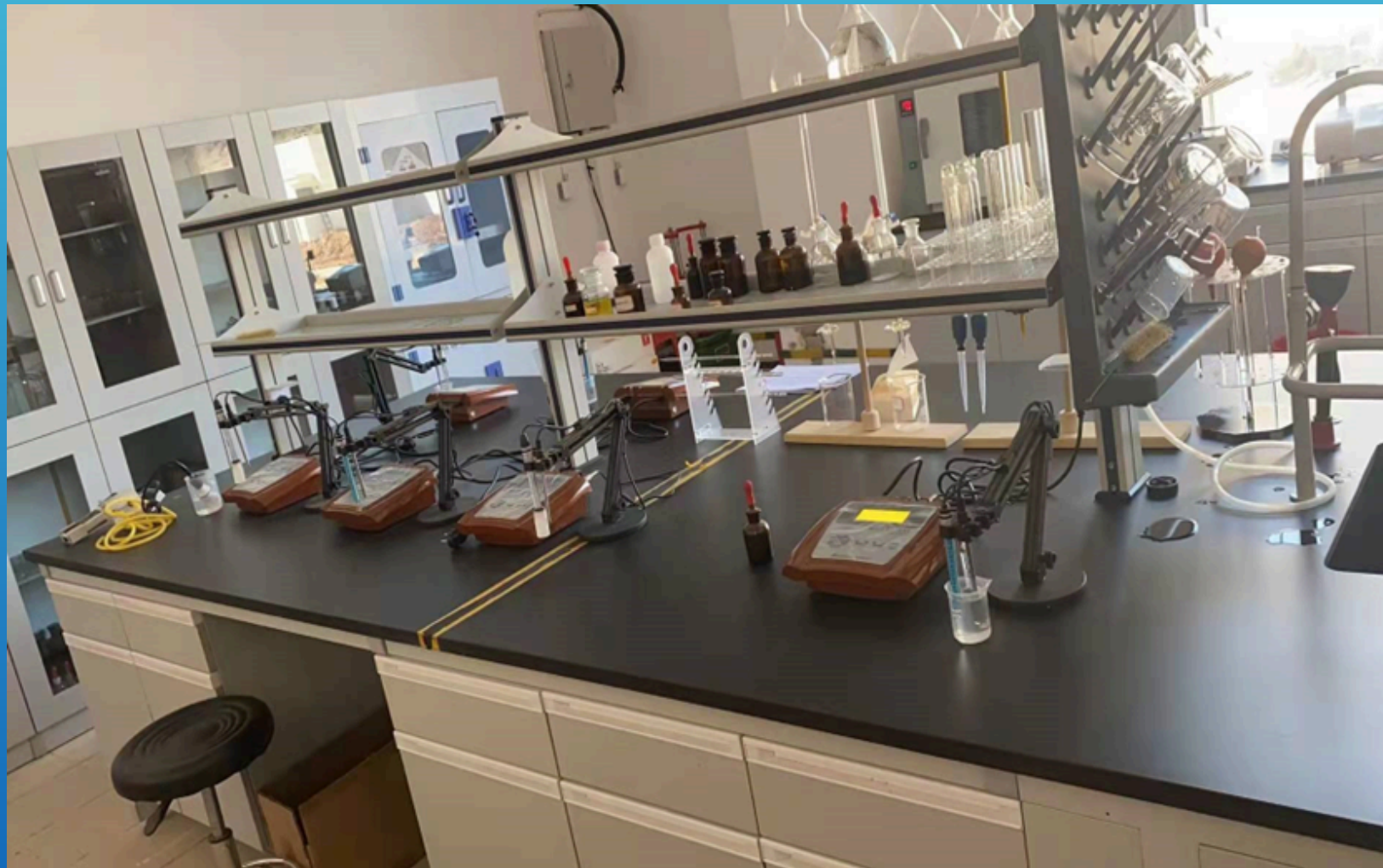
Case display



Case display



Case display



Case display



○ Our customers ○



04

Our customers





**Technology safeguards the source of life,
Make every drop of water gets hope!**

Thanks for watching!