



Cherish your life, Cherish your health!

ELK-HD-1900 HEMODIALYSIS DEVICE



Be applicable of hemodialysis treatment, hemoperfusion, Plasma Exchange. Pure UF treatments; touch screen display, with Na⁺ and UF profiles, backup power supply, Kt/V, HCO₃⁻ adjustment, single needle, acetate treatment.

Clinical Application

Hemodialysis therapy

- Mainly suitable for all kinds of acute and chronic kidney failure patient

Pure ultrafiltration therapy

- Mainly suitable for patients with excessive water stored in the body due to acute, chronic kidney failure or incomplete heart function

Hemoperfusion therapy

- Mainly applies in the acute drug poisoning, especially those accompanied by the brain function barrier or stupor, liver and kidney function barrier, old patients and those who take medicine oversized which had achieved the toxic lethal dose density or exceed 30% of their own elimination ability

Plasma exchange therapy

- Mainly suitable for the immunity diseases; acute nephritis, lupous nephritis, frequent myeloma nephrosis, serious myasthenia, acute liver function failure, thyroid gland crisis, ethnic hypercholesterolemia, HVS etc

Feature

Bicarb Dry Powder cartridge

- Producing bicarbonate dialysis solution on line to reach a pure and full-complete dialysis treatment.

Na⁺ and UF profiling

- Be applicable for reducing the cases during dialysis treatment such as low/high pressure, muscle convulsion, headache, nausea, vomit and the occurrence rate of high pressure after dialysis treatment etc

Kt/V function

- The sufficiency of dialysis can be reflected by Kt/V

HCO₃ adjustment

- Be applicable for serious acid toxicosis patient.
- Be capable to calibrate the acid toxicosis status according to patient's state of illness

Pyrogen filter port: (optional)

- Completely filtering the remained bacteria and endotoxin

Network connection: (optional)

- One computer can audit and control the treatment of maximum 20 units hemodialysis machine

ELK-HD-1900 Technical Specification:

Volume:	(length x width x height) 370mmx340mm x 1450mm
Weight:	About 90kg
Power supply voltage:	AC220V±10% AC110V(optional)
Frequency:	50HZ- 60 HZ
Power:	1700W Blood pump/spare pump
Flux:	20 - 340ml/min (φ 6mm) 20 - 620 ml/min (φ 8mm) Heparin pump
Flux:	0.1 ml/h-1.0ml/h(±5%)
Precise:	0.1 ml/h
Injector size:	10ml/20ml/30ml 20ml/30ml/50ml(optional) Arterial pressure
Display scope:	-300mmHg ~ +400mmHg (±10mmHg) Venous pressure
Display scope:	-50mmHg ~ +300mmHg (±10mmHg)
Dialysate Flow	300ml/min ~ 800ml/min linearity adjustable (+10%) (-5%)
Temperature:	35°0 -39°0
Resolving rate:	0.1
Conductivity:	12.3mS/cm ~ 15.8mS/cm (±0.1 mS/cm)
UF flow scope:	0-4000ml/h
ISO UF flow scope:	0-4000ml/h (±30ml/h)
TMP Scope:	-100mmHg-+600mmHg
Blood leakage monitor:	(±20mmHg} over 1 ml blood per liter dialysate (flow: 500ml/min}
Blood level monitor:	ultrasonic sensor Air bubble monitor
Infrared and response threshold value:	Single air bubble of 200µl exists when Blood flux is 200ml/min
Inflow pressure:	0MPa-0.6MPa
Inflow temperature:	5 ~ 30°C
Environment temperature:	10 -30°C
Relative humidity:	≤70%
Rinse/disinfection:	chemical disinfection (citric acid, peracetic acid and sodium hypochlorite)
Hot rinse:	90°C
Back-up power supply:	last for 15-30m in after electric-cut



More comprehensive features

Integrity

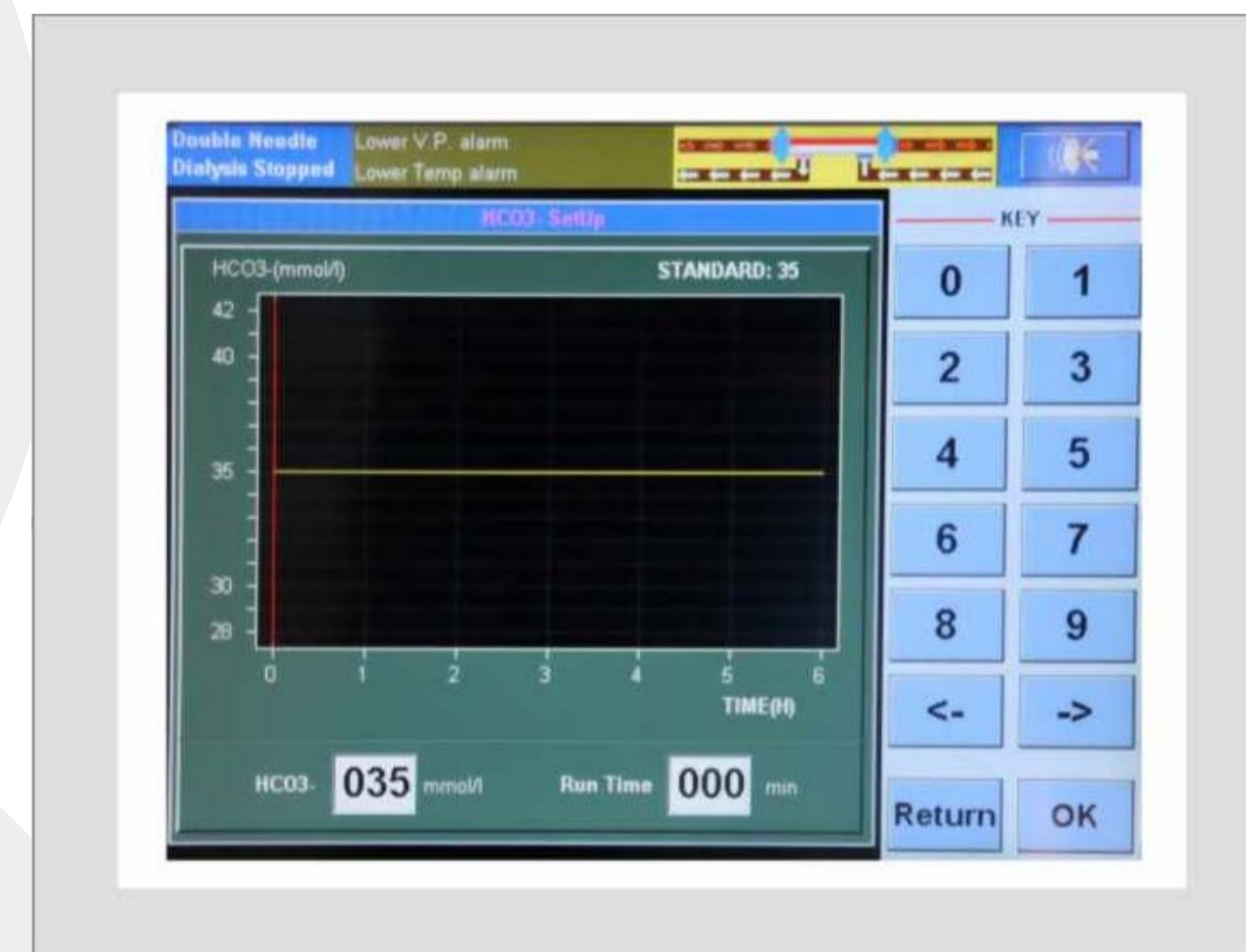
- Combine with Hemodialysis, Hemoperfusion, ISO UF, Hemoperfusion, Piasa Exchange all-in-one.
- Multi-language LCD touch screen with high definition display interface
- Double pump: blood pump and spare pump can be replaced by each other, compatible to different size diameter bloodline.



Bicarb Cartridge (option)



KTV Operation Interface



HCO3- Profile Interface

Practicability

- In-built battery backup to support 30 minutes after power off
- Disinfection: Rinse, hot disinfection and chemic disinfection. Circulated and closed disinfection system.
- Automatically turn off machine once disinfection process completes.
- Diameter of blood pump can be adjusted to be flexible for adult and child
- Be applicable for various concentration ratio formula
- Store treatments information in form of curve profile
- Full function digital selftest process
- With visual and auditive alarm, character message shows alarm item and troubleshooting on screen



Safety

- Air bubble monitor: optical and ultrasonic double control, can monitor blood level and accumulate air bubble
- With safe and sensitive blood leakage monitor device
- Complete water-way and electric way apart design, individual waterway control system to ensure the security
- Dialysate temperature with high precision, safety control at 35-39°C
- Protection from intercross infection, fluid supply loop and return loop is completely divided during disinfection to avoid pollution of whole machine in the case of mis-sucking disinfection liquid.
- Conductivity control and protection: conductivity A, mix conductivity, water outlet conductivity, insure patient's security
- Adjustable Na⁺ curve profile, with multiplicate optional auto-adjust program can realize individual dialysis and ensure patient's safety
- Out-built UF test port, can test precision of UF pump and running status



UF Profile Interface



Na+ Profile Interface

