



Terms Book Agreement

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AHFrelief

ملحق دفتر الشروط (المواصفات المطلوبة للاجهزة الطبية)

الرقم المرجعي لطلب عروض السعر

AHF-Procurement -2020-037

اسم المادة

Monitor for adults -1

.Multi-monitoring System -1

Power Source: Electricity -2

Display: LCD Digital Display -3

Lead mode : 3-lead or 5-lead -4

Lead selection: I, II, III, aVR, aVL, aVF, V -5

Waveform: 5-lead, dual-channel, 3-lead, single-channel -6

Scan speed: 12.5mm/s, 25 mm/s, 50 mm/s -7

Measurement and alarm range: 15~350 bpm -8

Accuracy: $\pm 1\%$ or ± 1 bpm, whichever is greater -9

Alarm accuracy: ± 2 bpm -10

Resolution: 1 bpm -11

Measurement and alarm range: -2.0 mV ~ +2.0 mV -12

TFT color LCD, multi-language interface "12.1 -13

.Fanless design, quiet, energy-saving and clean, which reduces the possibility of cross-infection -14

.All-round monitor for adult, pediatric and neonate -15

With standard interface, oxygen graph, trend graph, big character interface and view bed, convenient to observe -16

.Finish all operations by keys and knobs -17

.Maximum 8-channel waveform synchronous display -18

Display 7-lead ECG waveform on one screen, cascade ECG waveform display -19

Adopt digital SpO2 technology, anti-motion and anti-ambient light interference, and measurement can be performed under the circumstance of weak filling -20

Heart rate variability (HRV) analysis function -21

.NIBP measurement mode: Manual/AUTO/STAT, storage for 4800-group NIBP data -22

.Review for 71 alarm events of all parameters and 60 arrhythmia alarm events -23

.Drug concentration calculation and titration table functions -24

One-touch printing of trend graph -25

.Connect to Central Monitoring System by 3G, Wi-Fi or wired mode -26

.AC/DC, built-in rechargeable lithium battery achieve uninterrupted monitoring -27

Anti-high frequency surgical unit, defibrillation-proof (special leads are necessary) -28



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Suction device for operations (Chinese) -2

- .The device should be new not renewed of an international famous brand -1
- .Electrical in tput 220 v + 10 % - 50 Hz -2
- The device should have two suction bottles with a capacity of no less than 2.5 liters. (subjected to -3
disinfection)
- .The device should be oil less -4
- .The device should have shifting mechanism between the two bottles, the supplier should mention it -5
- .Negative pressure should be controlled by a switch -6
- .The device should have a floater to prevent fluid leaking into the motor -7
- .The device should have pressure indicators -8
- .The supplier should mention the maximum negative pressure -9
- .The device is loaded on a trolley equipped with antistatic electricity wheels -10
- .The suppliers should provide all accessories for the device -11

Defibrillator for adults with screen and ECG (Chinese) -3

- .The device should be new not renewed of an international famous brand-1
- The maximum output should be no less than 360 joule (when the out wave is monopolar) or around 200 -2
joule (when the out wave is bipolar)
- The supplier should specifies the form of wave and the type of polarity -3
- .It should be provided by the possibility of cardio monitoring through shock poles-4
- .The shock power should be adjustable-5
- The supplier should specify the number of poles of cables, connectors (directions), and possible leads that -6
could be demonstrated
- .The charge symbol is less than 10sec-7
- The average of common refused pattern should -8
Db). < (CMRR 100
- .The discharge should be automatically after a while if it is not discharged in the body -9
- .The screen size should be 10inches, the supplier should specify its features -10
- The screen should be Non fade screen (permanent single demonstration) -11
- .The signal should be freezable -12
- .The device should perform shocking in either synchronized or non- synchronized way -13
- .Scanning screen speed is 25mm/Sec -14
- .The device should show Heart Rate is = or > 240/B/Min -15
- .The device should have Alarm for Low Rate and High Rate, the supplier should specify limits of alarms -16
- .Sensibility 1/2, 1, 2, cm/mv -17
- .The supplier should specify frequent response interval -18
- .The device should be equipped with 1 MV criteria -19
- .The cardiac signal input of the device should be protected from discharge effect -20
- The device should be equipped by a recorder that uses heating matrix, the supplier should specify its type -21
and accuracy
- The device should be equipped with discharge paddles (a pair for kids and another one for adults) -22
- .The recorder should be equipped with an ON/OFF switch -23
- .The paper width should be of standard size, the record speed is at least 25mm /Sec -24
- .The patient circuit should be isolated from other parts of the device -25



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- The electricity input should be 220 v + 10 % - 50 Hz, and a built in rechargeable battery, the supplier -26
.should specify the type of battery, its capacity....etc
- The supplier should specify numbers of shocks at the maximum power, number of monitoring hours, and -27
.number of recharging hours
- .The device should be equipped with all indicators, photic/sonic, that show the device status -28
- The supplier should provide specified trolley which is equipped with breakable and antistatic electricity -29
.wheels
- .The screen brightness, alarms, and volume are adjustable -30
- The device should be equipped with one spare patient cable (all connectors between the device and the -31
.patient)
- The supplier should provide 1000 disposable electrodes, 5 gel C234bottles, and ten rolls of ECG papers per -32
.device
- .The supplier should specify the possibility of adding an outer fault corrector for the device -33

Medication trolley -4

- .Steel and aluminum structure inside, ABS and antibacterial materials outside, easy to clean
- .Double sided medicine trolley,which can suitable for 50pcs max *
- Have place to insert patient name or information. easy to notify the information *
- High quality aluminum alloy drawer handle *
- With abs medicine boxes inserts inside, each box can be devided into 4parts *
- nylon wheels Ø 125 mm with non-marking tires and plain bearings, with one brakes 4 *
- Adopt central locking safe lock, make medicine storage safer *
- ABS trash can with lid 2 *

ECG device (Chinese) -5

- Portable 12 channel ECG machine -1
- Work modes: Manual/Auto/Arrhythmia analysis modes -2
- inch colour LCD with Alphabet keyboard 10 -3
- Alphabetic keyboard for patient information -4
- Built in rechargeable Li-ion battery -5
- Adaptor 110-230V, 50/60Hz AC power supply -6
- Real-time ECG waveform, 250 patients save/replay -7
- Built in USB/RS232 interface(ECGNET software Optional) -8
- Lead standard 12leads -9
- Calibrating voltage: 1mV±2% -10
- Voltage tolerance: ≥±500mV -11
- Inter-channel interference:≤0.5mm -12
- Frequency response: 0.05~160Hz(-3db) -13
- Patient current leakage: <10µA -14
- Noise level: <15µVp-p -15
- Sensitivity valve: ≤20µV -16
- (%3±)Paper speed:6.25,12.5, 25,50mm/s -17
- Time constant: ≥3.2s -18
- Input dynamic range: ±10Vpp -19



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Medication pumps (Syringe pump) -6

Drug Library	20 drug list with drug code display		
Accuracy	±2%		
Time Preset	00:01~99: 59 (Hour: Min)		
Volume Range	0~9999.9ml		
Flow Rate Step by	0.1 ml/h when Rate <100ml/h, 1ml/h when Rate ≥100ml/h		
Flow Rate Range	5ml Syringe	0.1ml/h-150ml/h	
	10ml Syringe	0.1ml/h-300ml/h	
	20ml Syringe	0.1ml/h-600ml/h	
	30ml Syringe	0.1ml/h-900ml/h	
	50/60ml Syringe	0.1ml/h-1200ml/h	
Purge/Bolus Rate/Top Flow Rate	5ml Syringe	150ml/h	
	10ml Syringe	300ml/h	
	20ml Syringe	600ml/h	
	30ml Syringe	900ml/h	
	50/60ml Syringe	1200ml/h	
Audible & Visible Alarms	Auto Seft-Test, Syringe Dislocation, Occlusion, Near End,Syringe Empty, VTBI Completion, Low Battery, Battery Exausted, Motor Malfunction, Incorrect Syringe Specification, Circuit Malfunction, Master CPU Malfunction, Monitoring CPU Malfunction, Parameters Over Limitation, A.C Disconnection, A.C connection		
KVO	0.1-5.0ml/h Adjustable		
Occlusion Pressure	High:	40 KPa±20KPa	
	Middle:	60 KPa±20KPa	
	Low:	100KPa±20KPa	
Max Infusion Pressure	120KPa		
Battery	≥8 hours		≥4 hours
Power Consumption	30VA		45VA
Power Supply	AC: 100-240V, 50Hz/60Hz		
Battery	Lithium battery,11.1/2000mAh		
Classification	Class I,type CF,IPX4		
Dimension	26×21.5×11cm		32×21.5×20cm
Weight	2kg		3kg
Optional Function	Ambulance DC: 12V		

Oxygen Concentrator 5 Liter\Min. (Chinese or Turkish) -7

Voltage: 220V
Dimension(L*W*H): 38*32*59cm
Flow: 1-10L
Power supply:750 VA
Core Components: Motor, Pump
Purity: 93±3%@ 1-8L
Input voltage: AC 100V-230V 50Hz-60Hz
Output Pressure: 30-70 kPa
.oil-free compressor free of maintenance. Low noise, light weight, slow temperature rising and high-efficiency
Five level filter
High definition LED screen
high performance spring on the bottom of machine, so that it will reduce shake
.Foam filter on the oxygen concentrator is detachable, washable and re-usability
External humidifier bottle design
Multiple alarm structure design
High-efficiency, durable and low failure rate Pure copper core