

Technical specification for Heamodialysis machines

Subject	Features	Requirements	Bidders Specification & Comments	index
Technical modality & technical data	Dimensions (HXWXD)	With troily	480×480×1370	
	Weight		86.5 kg	
	Electrical data	AC 110 V- 230V	230V ±10, 63-47 HZ 110V ±10, 63-47 HZ	
		Watt	2 KW	
	Water supply	Temperature	5-30°c	
		Pressure	1.5-6 bar	
		Standard AAMI		
	Function	Sequential dialysis	Yes	
		Single needle (single pump)	Yes	
		Double needle display	Option	
		TOUCH screen display or OCM system	yes	
		Self check	Yes	
		Battery backup	Yes	
	UF/Control	UF rate 0 to 3000 ml/h	0 to 4000 ml/h	
		Accuracy Max ±3%	±1%	
		Volumetric control	1 ml	
	Disinfectant system	Chemical	Yes	
		Thermal	Yes	
		combined	Yes	

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Heparin pump	Delivery range	0.1 to 10 ML/hr	0.1 to 10 ml/hr	
	Syringe size	10,20,30 /ml	10,20,30 ml	
Sensors	Dialysate flow meter	Adjustable from 300 to 800 ml/min with 5 step	300 to 800	
	Bubble detector	100 micro liter/min	100 micro liter 1 min	
	Venous pressure	-200 to 400	-60 to +520	
	Arterials pressure	-300 to +300	-300 to +280	
	Blood lockage detector		$((\text{Hct}=25)) \quad \frac{ML}{min} \leq 0.5$ $800 \frac{ML}{min} \text{ در حداکثر جریان}$	
Should be equipped with		Adaptable to use Rutine bicarbonate Car trige in iran (Max price< 2Euro/bag)	Yes	
		Adaptable to connecting tubes with two segment pump and blood flow monitoring	Yes	
		Thermometer dialysis solution(35-39)c	((35-39°c))	

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System & profiling	Dialysis using	Bicarbonate powder	Yes	
		Bicarbonate solution	Yes	
		Acetate solution	Yes	
	Profiling for	Sodium or Conductivity	Yes (5 program)	
		Bicarbonate	Yes	
		UF	Yes (5 program)	
Blood flow meter adjusting system	50 ml/min – 500 ml/min	Yes		
Standard certificate & guardedly	Qualification	Auto priming system	Yes (1 to 5 min)	
		Automatic and digital troubling detector system	Yes	
	Certificate	CE or FDA	CE	
	Standard	93/42/EEC		