

PVMS OF MEDICAL EQUIPMENT	
Clinical Specialty	Cardiac Surgery
Generic Name	Heart and Lung Machine
Clinical Purpose	Cardiopulmonary bypass (CPB) is a technique that temporarily takes over the function of the heart and lungs during surgery, maintaining the circulation of blood and the oxygen content of the body. The CPB pump itself is often referred to as a heart–lung machine "the pump".
TECHNICAL SPECIFICATIONS	
<ul style="list-style-type: none"> • 05 Pump Complete Modular Pumps console with all Modular Parameter • 04 Single roller pump+1 Twin Pump or Two Small roller Pump • Dual Pressure module • Temperature module • Monitor interface module • Power supply module • Battery backup minimum 90min. • Level sensor • Ultrasonic Bubble detector • Flexible Led Lamp • Mechanical /Electronic Gas blender • Cardioplegia Monitoring Unit • System Control Panel • Venous occluding clamp. <p>05- Pump Console:</p> <ul style="list-style-type: none"> • Heart Lung machine should have modular system. • The Console should have 05 pump attachment. • Smooth stainless steel, painted metal and aluminum. • Entire system should operate on battery system for a minimum of 90 Minutes For arterial pump battery backup should be 180 minute or more. • Switch over from main power to battery backup should be automatic and immediate. • Battery Unit should be built in to the pump base. • It should recharge automatically when the system is operating with main power supply. • Pump-console should have single cable connection from external power supply. • Provision for a connection to PC. • 24Volt operated socket for all pumps to avoid risk. • Should have hand crank facility as a safety feature with each pump 	

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