

**Model: Neptune Prime**  
**Technical Datasheet**

Name	Parameter	Specification
<b>Performance</b>	Purpose of anesthesia workstation	Anesthetic machine in used to provide an accurate and continuous supply of medical gases mixed with an accurate concentration of anaesthetic vapour and deliver this to the patient at a safe pressure and flow.
		1) It should be based on microprocessor, suitable for low flow, minimal flow and metabolic flow anesthesia for pediatric and neonatal use.
		2) It should have automatic calculations and presetting patient specific ventilation settings via age, height and ideal body weight.
		3) It should have fully automatic menu driven self test and user check list. In case of emergency it should be possible to bypass the self test completely.
<b>Parameters</b>	Type of mounting for the Anesthesia workstation	Trolley Mounting
	Material used for Anesthesia workstation	Medical Grade ABS Plastic Rustproof framework
	Minimum Battery backup for anesthesia workstation	2 hours
	Minimum Battery backup for Ventilator	2 hours
	Minimum Battery backup for monitor	2 hours
	Facility of manual ventillation in case of electricity and battery failure	Yes
	Facility of gas and agent delivery in case of electricity and battery failure	Yes
	Should have Air / N2O interlock	Yes

<b>Gas Delivery System</b>	Mode of gas mixing	Electronic
	Type of hypoxic guard with automatic cutoff of N <sub>2</sub> O	Electronic
<b>Breathing System</b>	Volume capacity of breathing system in liters	1.5
<b>Anesthesia Ventilator</b>	Ventilator modes	V-CMV, P-CMV, V-SIMV, P-SIMV, PRVC, PSV & Manual/ Spont
	Screen size of Ventilator monitor in inches	15.6" Touch Screen
	Driven Technology	Electronically controlled & pneumatically driven
	Tidal volume range	5ml to 1600ml
	PEEP Range	OFF, 1.0 – 30 cmH <sub>2</sub> O
	Breath frequency range	1–100 bpm
	I : E Ratio	4:1–1:8
	Inspiratory Pause	0–50% of T <sub>i</sub>
	Flow	<180L/min