

TABLE 1-2 CONSTELLATION® VISION SYSTEM SPECIFICATIONS

<p><b>TABLETOP</b> Dimensions (length x width x height): 51 cm (20 in) x 48 cm (19 in) x 61 cm (24 in) Weight: 61 kg (135 lb)</p> <p><b>BASE</b> Dimensions: 74 cm (29 in) x 74 cm (29 in) x 97 cm (38 in) Weight: Base (no add-ons): 52.12 kg (115 lb) Base with Illuminator: 58 kg (128 lb) Base with Illuminator and Laser: 64.5 kg (142.2 lb)</p> <p><b>TRAYARM</b> Dimensions: Tray: 56 cm (22 in) x 36 cm (14 in) Arm Fully Extended: 127 cm (50 in) Support Column: 110 cm (43 in) x 13 cm (5 in) x 15 cm (6 in) Weight: Tray and Arm: 11.7 kg (25.8 lb) Support Column: 5.5 kg (12.3 lb)</p> <p><b>BALLAST</b> Dimensions: 35 cm (14 in) x 35 cm (14 in) x 5 cm (2 in) Weight: 25.5 kg (56.2 lb)</p> <p><b>Note:</b> If a base other than the optional Alcon base is used, it must be able to hold up to 250 pounds.</p> <p><b>ENVIRONMENTAL LIMITATIONS:</b></p> <table border="1"> <thead> <tr> <th></th> <th>Operating</th> <th>Non-Operating</th> </tr> </thead> <tbody> <tr> <td>Altitude:</td> <td>-125 to 2000 m (-410 to 6562 feet)</td> <td>-125 to 3000 m (-410 to 9843 feet)</td> </tr> <tr> <td>Temperature:</td> <td>10° C to 35° C (50° F to 95° F)</td> <td>-10 to 55°C (14° F to 131° F)</td> </tr> <tr> <td>Relative Humidity:</td> <td>10% to 95% without condensation</td> <td>10% to 95% without condensation</td> </tr> </tbody> </table> <p>IP CODE Console: IPX0 Footswitch: IPX8</p> <p><b>ELECTRICAL REQUIREMENTS:</b> The console accepts the following ranges or input commercial power voltages and frequencies and meets the leakage currents specified in IEC 60601-1. Protection against electrical shock is Class I.</p> <table border="1"> <tbody> <tr> <td>100-120 Vac</td> <td>50/60 Hz</td> <td>12 A max.</td> </tr> <tr> <td>220-240 Vac</td> <td>50/60 Hz</td> <td>6 A max.</td> </tr> </tbody> </table> <p><b>FOOTSWITCH</b> DIMENSIONS (length x width x height): 43.2 cm (17 in) x 26 cm (10.25 in) x 14 cm (5.5 in) WEIGHT: 5.4 kg (12 pounds)</p> <p><b>ENVIRONMENTAL:</b> The footswitch construction is water tight in compliance with IEC 60601-1 and IEC 60601-2-2, subclause 44.6 aa.</p> <p><b>ELECTRICAL:</b> The footswitch is connected to the console via electrical cable. All power and communications enter/exit the footswitch from this cable.</p>		Operating	Non-Operating	Altitude:	-125 to 2000 m (-410 to 6562 feet)	-125 to 3000 m (-410 to 9843 feet)	Temperature:	10° C to 35° C (50° F to 95° F)	-10 to 55°C (14° F to 131° F)	Relative Humidity:	10% to 95% without condensation	10% to 95% without condensation	100-120 Vac	50/60 Hz	12 A max.	220-240 Vac	50/60 Hz	6 A max.	<p><b>PERFORMANCE SPECIFICATIONS</b></p> <p><b>PRESSURIZED INFUSION/IRRIGATION @SEA LEVEL:</b> Range: 0 to 120 mmHg Accuracy: ±(2% of setpoint +5 mmHg) Flow Rate: 0 - 20 cc/min. for infusion (20 Ga) 0 - 60 cc/min. for irrigation 500 ms maximum Setpoint Transient:</p> <p><b>IOP CONTROLLED INFUSION:</b> Setpoint Range: 0-120 mmHg Repeatability<sup>1</sup>: ± 2 mmHg<sup>2</sup> Setpoint Response Time: &lt;500 ms (20 Ga) Transient Disturbance Response Time: &lt;500 ms<sup>3</sup> Flow Range: 0-20 cc/min</p> <p><sup>1</sup> BSS® Irrigating Solution Dual chamber mode. <sup>2</sup> BSS® Irrigating Solution medium, 20 gauge high flow Cannula, steady state condition at rated flow range <sup>3</sup> Transient condition from no flow state to 10cc/min</p> <p><b>ASPIRATION/SUCTION @SEA LEVEL:</b> Standard &amp; Reduced Pressure Range: 0-650 mmHg Vacuum Minimal Pressure Range: 0-600 mmHg Vacuum Pressure Accuracy: ±(2% of Setpoint +5 mmHg) Flow Range: Posterior Modalities: 0-20 cc/min Anterior Modalities: 0-60 cc/min Transient Response Time (Standard Pressure Range): From 0 to -400 mmHg @0 cc/min 10-90% Rise Time: 300 msec max 90-10% Fall Time: 300 msec max</p> <p><b>VACUUM @ SEA LEVEL:</b> Vitrectomy: 0 to 650 mmHg Fragmentation: 0 to 650 mmHg Extrusion: 0 to 650 mmHg Extraction: 0 to 650 mmHg Irrigation/Aspiration: 0 to 650 mmHg Phacoemulsification: 0 to 650 mmHg</p> <p><b>LOW PRESSURE AIR SOURCE (LPAS) @SEA LEVEL:</b> Pressure Range: 0 - 120 mmHg at rated flow Pressure Accuracy: ±2% of setpoint +5 mmHg Flow Rate: 1.2 slpm minimum at 120 mmHg</p> <p><b>VITRECTOMY:</b> Submodes: 3D, Momentary, PropVac, VitWet Cut Rate: UltraVit® 7500 Probe: 100 to 7500 cpm UltraVit® 5000 Probe: 100 to 5000 cpm UltraVit® 2500 Probe: 100 to 2500 cpm</p> <p><b>DIATHERMY:</b> Frequency: 1.5 Mhz ± 10%. Waveshape: Sinusoidal Output power: 10 Watts maximum at 100% setting with 75 ± 10% ohm non-inductive load Output voltage: 163 Vpp maximum at 100% setting without load Power range: 0 - 100% of maximum output power</p> <p><b>DIATHERMY ACCESSORIES (Rated Voltage):</b> Single Use Bipolar Cables: 846 Vpp Reusable Bipolar Cables: 1200 Vpp All Brushes: 1410 Vpp All Forceps: 1110 Vpp</p>
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