

# *Eclipse Comax II Laser*

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## *Level Gauge*

- 1.) Mounting Structures must be constructed to be rigid, vibration free, and provide adjustment on all three axis.
- 2.) Cooling Water, between 80°F – 120°F (27°C – 49°C), 2 – 5 gal (7.6 – 18.9 Liters) per minute.
- 3.) Purge Air, instrument quality, air (Nitrogen preferred) approximately 10psi.
- 4.) Air Curtain, recommended between the process container, and the assembly, to cut the sting and flame.
- 5.) Power Supply, 120 VAC ± 10VAC / 240 VAC ± 20VAC (with supplied transformer) 50 / 60 HZ
- 6.) Electrical Connections, signal cable - shielded overall, insulation capable of withstanding the ambient temperatures along the run. 16 S.A.W.G or equivalent for runs under 200 ft., and 14 S.A.W.G for runs in excess of 200 ft. Runs in excess of 300 ft. are not recommended. All Ground connections should be made to true earth Ground.
- 7.) Location. The Electronics Enclosure is designed to be mounted in an environmentally controlled room (furnace control room), ambient temperature should not exceed 86°F (30°C) without forced ventilation. The Laser and Receiver Assemblies should be mounted with a minimum of 18 inches between the process container, and the purge shroud. There must be room to access each assembly when aligning and calibrating the Gauge (allow 11 inches extra for the Jo-posts).
- 8.) Process Surface. The surface of the material being measured must be clean and free of turbulence and debris. The operation and accuracy of the gauge is dependent on the laser beam being reflected off the surface of the process material. The reflected beam must stay on the Parabolic Mirror.