

Grating Tuned CO2 Lasers

white paper

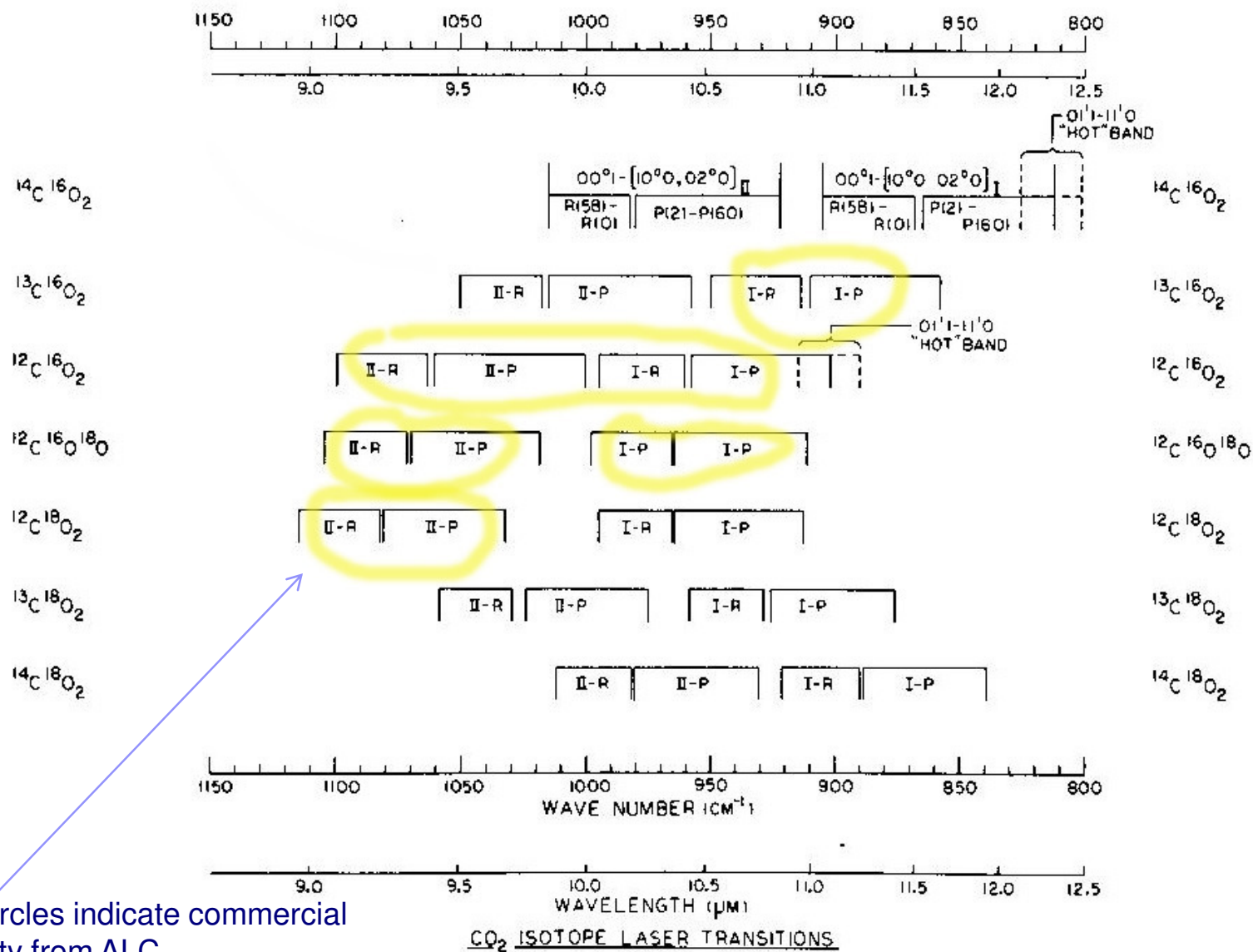


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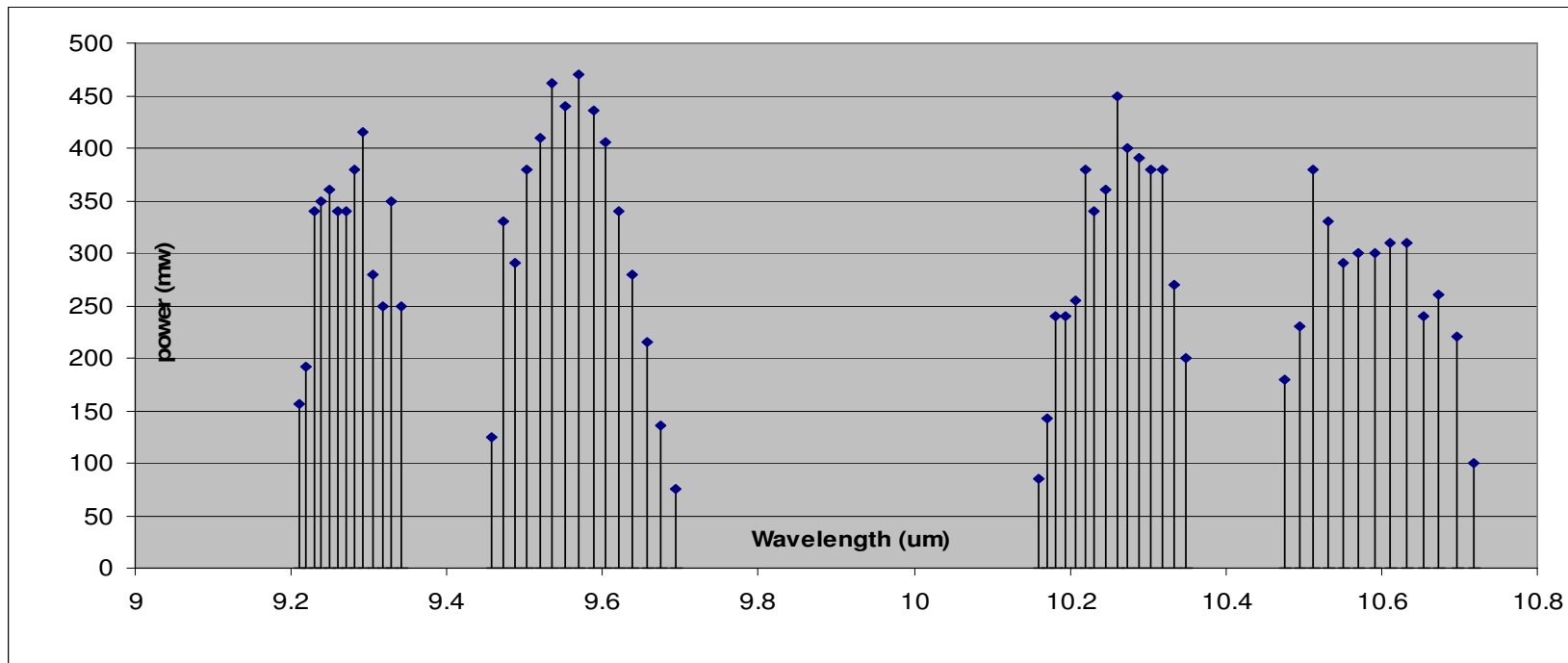
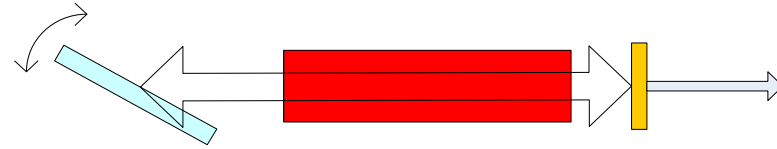
Wavelength Coverage of CO₂ Laser



Yellow circles indicate commercial availability from ALC



Grating Tuned



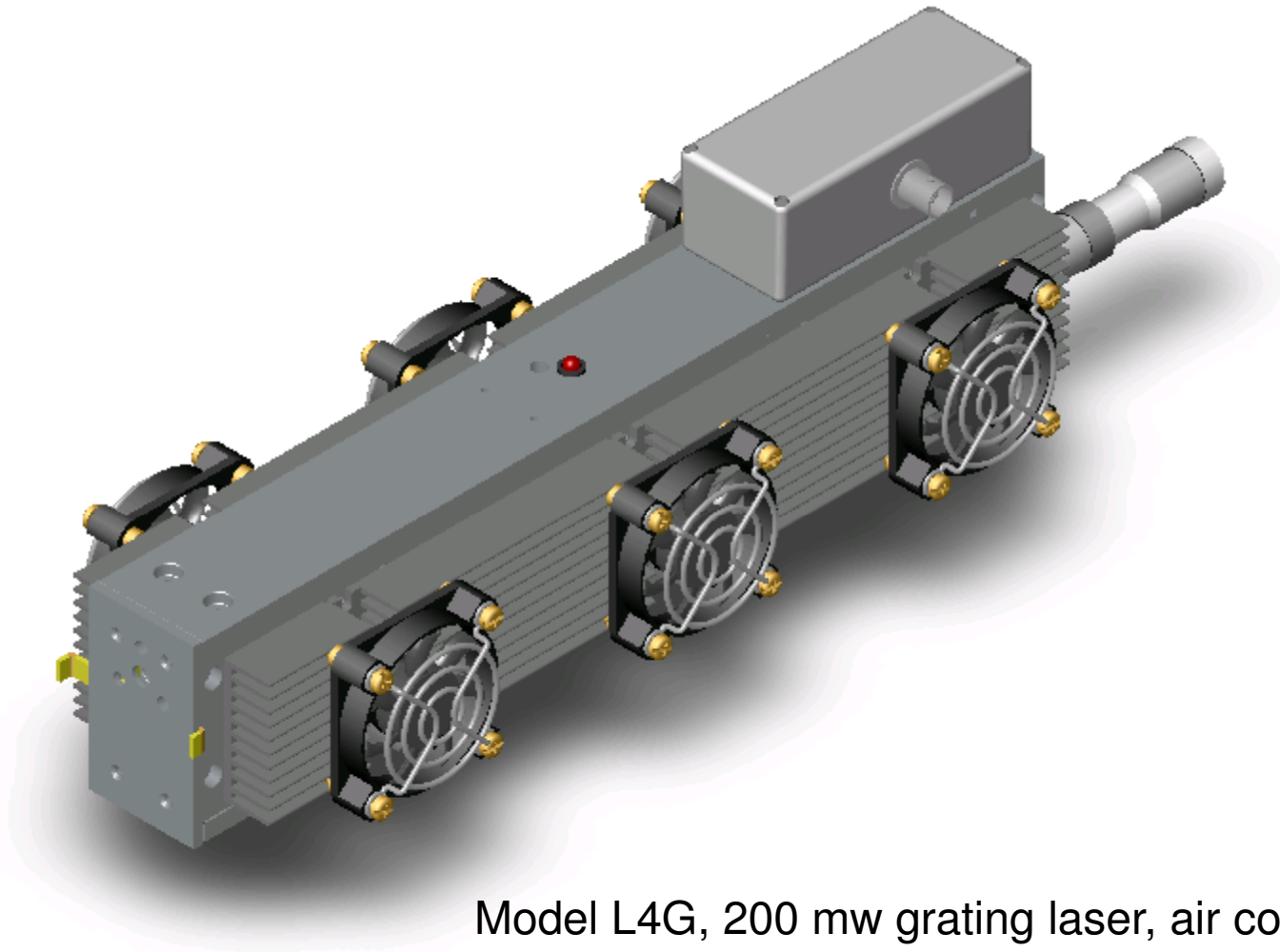
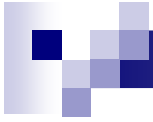
Grating tuned laser in the Littrow configuration, and typical output spectrum. Wavelength selection is achieved by adjusting the angle of the grating.



Model MeritG, 2 watt grating laser, H2O cool, with automated tuning attachment

425-582-8674

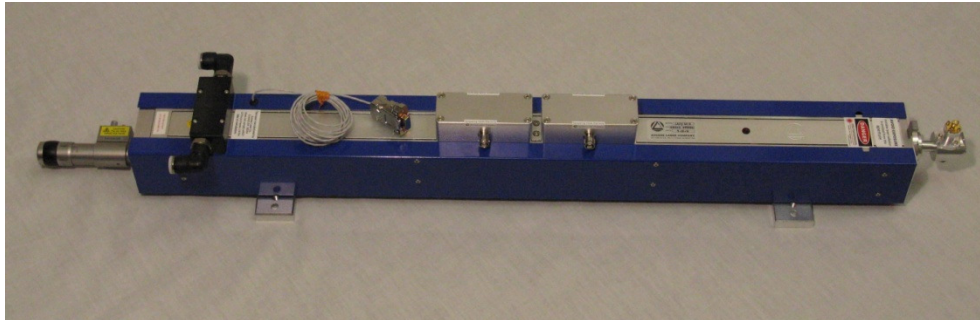
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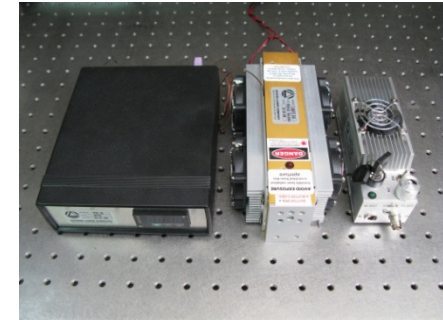
Model L4G, 200 mw grating laser, air cool, with manual tuning attachment



Grating Tuned vs. Grating-less tuned



grating tuned (model L20G with Line Tracker stabilization option)



grating-less tunable
Model L3S

- Grating tuned: broad range of tuning. Line selection can be automated, etc. *Lower efficiency.*
- Grating-less tuned: fast and simple, higher efficiency, lower cost, smaller size. *Limited spectral range, harder to achieve random auto tuning.*