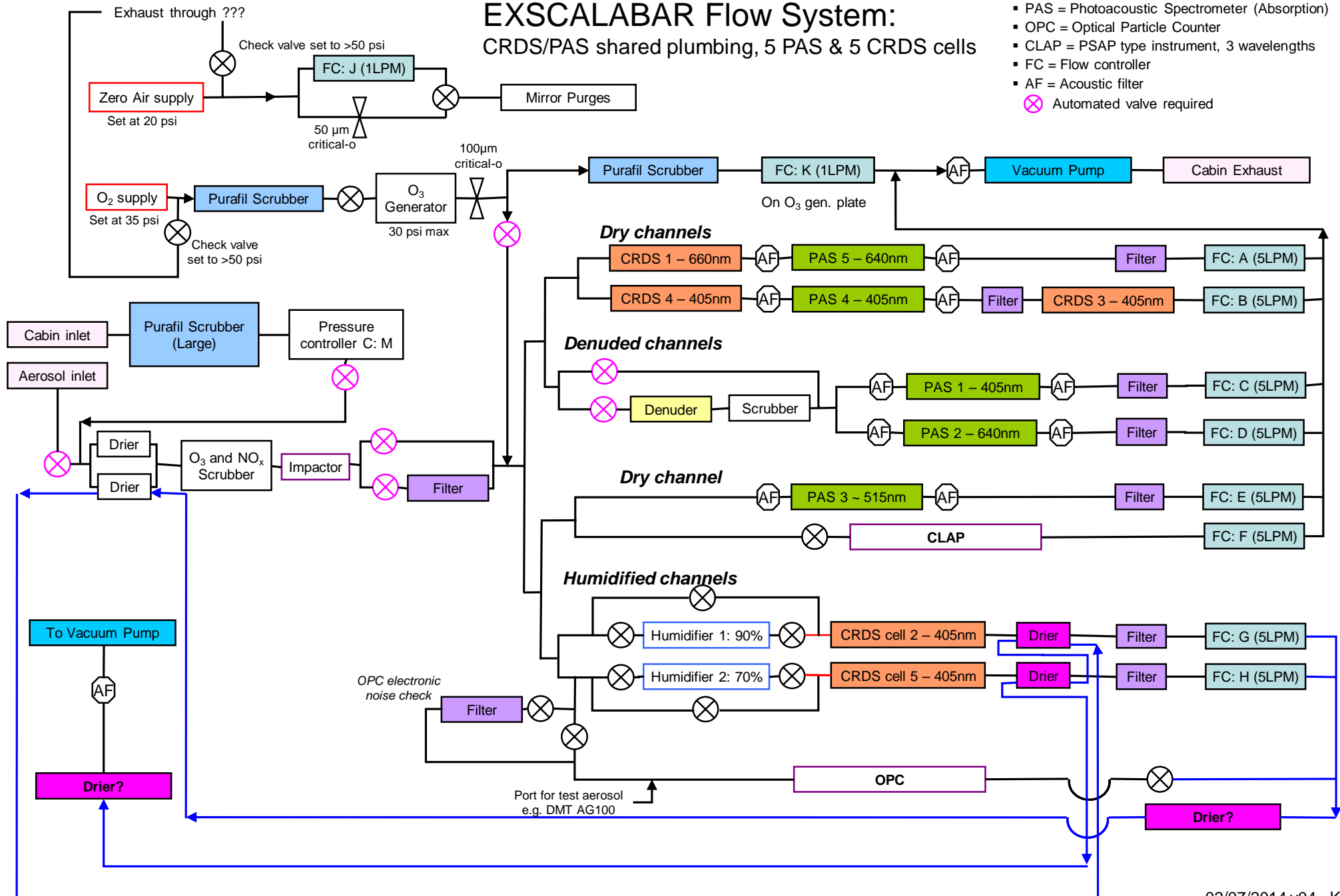


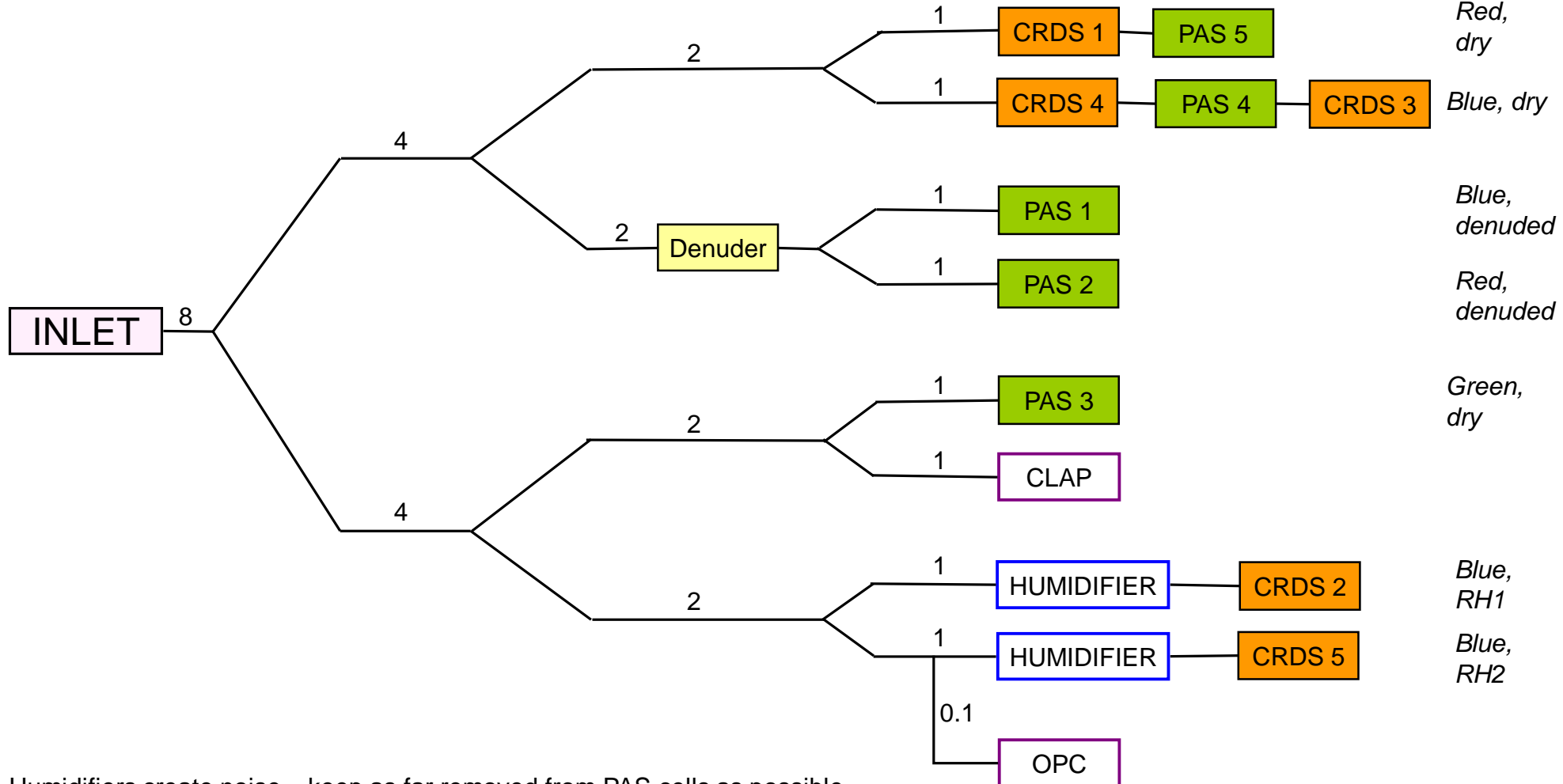
EXSCALABAR Flow System: CRDS/PAS shared plumbing, 5 PAS & 5 CRDS cells

- CRDS = Cavity Ringdown Spectrometer (Extinction)
- PAS = Photoacoustic Spectrometer (Absorption)
- OPC = Optical Particle Counter
- CLAP = PSAP type instrument, 3 wavelengths
- FC = Flow controller
- AF = Acoustic filter
- ⊗ Automated valve required



EXSCALABAR flow splits

5 PAS, 5 CRDS cells



1. Humidifiers create noise – keep as far removed from PAS cells as possible.
2. Flow through CRDS linked to sensitivity.
3. Total flow in inlet section 8LPM.
4. PSAP/CLAP may not be operated; flow controller still in line to maintain balanced flow.
5. OPC flow rate 1cc/s for sample, 15 cc/s for sheath (recirculated).
6. Keep OPC removed from PAS cells (pump noise).