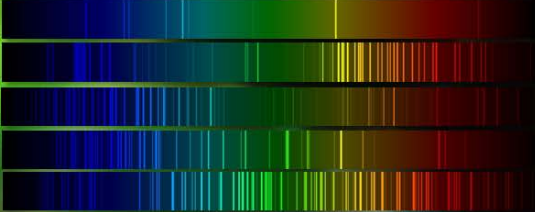



What does the plasma tube contain?

Q&A – Plasma Tube Gases

- **What does the plasma tube contain?**
- The glass / plasma tubes contain noble gases in a complex and proprietary mix: Neon, Argon, Krypton, Xenon and sometimes Helium, thus assuring a wide and complete spectrum generation. Each of these gases are among the most stable of all elements and chemically inert.
- The glass itself is known as Pyrex, a pure non-leaded glass.





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The PulsedTech plasma tubes contain a proprietary combination of inert Nobel gases in quartz glass to assure the widest spectral generation possible. Many years of research and development using extensive available spectral data to help determine a suitable scheme for high performance.

Most tubes on the market have a combination of Argon and Neon; the two most readily available and least

Spectral Data

- **Helium**
3964.71 20409.57 14931.19 93016.36 84130.81 124120.99 28143.76 31397.93 104437.56 34711.48 2004471.68 256485.80 64685.70 304713.15 304713.38 44921.90 200515.68 100404.74 104311.52 55875.62 5098375.57 1006560.10 8678.15 1005867.48 37065.49 2007065.71 30
- **Neon**
4219.74 1504233.85 1004250.65 1204369.86 1204379.40 704379.55 1504385.06 1004391.99 2004397.99 1504409.30 1504413.22 1004421.39 1004428.52 1004428.63 1004430.90 1504430.94 1504437.05 1004437.72 1004437.75 104440.38 1004499.06 1004704.40 154708.86 124710.07 104712.07 104715.35 154752.73 104788.83 182730.27 188271.24 108884.97 105005.16 45037.75 102144.84 100330.78 203414.99 200437.99 62400.56 600507.77 504016.06 10778.24 57765.30 123764.42 80889.64 123920.16 405872.42 500572.83 100488.50 100502.46 62006.43 60544.83 1005065.47 1005174.83 1005175.53 1200581.91 806300.00 1006074.34 1006296.16 806128.45 606143.06 1006163.59 1206182.15 1506217.28 1506266.50 1506304.79 606334.23 1006382.99 1206402.25 2006553.88 6065386.35 1006592.09 706678.28 306717.04 206523.47 1007024.05 507032.41 1007051.29 507059.11 80
- **Argon**
3925.72 353928.62 503937.55 253946.10 703947.51 73948.98 35397.96 203994.70 354013.86 504033.81 504035.46 204042.89 1504044.42 504052.02 1004072.01 2004072.39 704076.63 254075.57 354082.39 254103.91 1504131.72 3004156.09 354128.59 4001101.15 501179.30 354181.88 504190.71 1004191.03 504198.32 2004200.67 4004218.67 254222.64 254226.99 254228.16 1004277.22 1004311.19 24429.38 2044286.79 1004286.53 1004711.17 1044715.00 504482.90 204390.10 1004390.65 24309.24 204331.00 2004332.01 504333.54 1004335.84 504355.17 254348.06 800432.21 504362.07 254367.83 504370.75 2004371.33 704375.95 504375.67 1504385.06 504400.10 704400.99 2004426.00 4004430.19 1504431.00 504433.84 504439.46 204448.88 54478.76 1004481.81 2004517.9 104522.32 204530.55 204535.05 800454.41 204579.85 800459.90 400459.40 154099.57 504428.44 763725 54567.00 400470.32 154771.59 204772.87 504732.05 504735.91 3004744.87 8004806.02 504847.81 1504869.91 504879.86 8004889.04 704904.75 204933.21 354965.08 2005009.53 500017.16 705062.04 705080.50 205141.78 1005145.31 705151.39 55162.29 155165.77 255187.75 205216.81 705221.27 75121.35 55451.65 105457.87 255506.11 55558.70 255725.4 105566.73 355650.70 205729.52 105842.26 55869.31 105882.67 55888.55 255917.04 305928.81 155927.07 55991.00 79991.00 46025.15 860324.15 700493.72 386027.77 106098.37 206098.60 6018.64 106114.92 1006145.74 106170.17 76172.88 1506173.10 106212.50 106215.04 56243.12 256296.67 76307.66 156369.58 76384.72 206416.31 706483.08 256538.11 156604.85 156638.22 256639.74 206647.01 106661.69 46664.26 56666.26 256677.28 106684.29 566783.83 156686.16 56706.61 156681.27 206671.29 1066879.58 56888.17 106937.66 506931.48 76930.25 76935.43 999970.25 1507057.22 99997068.74 1007107.48 257125.82 257147.04 10007158.84 15
- **Krypton**
3906.18 150320.08 2003994.84 1003997.79 1004057.04 3004066.13 3004088.34 5004098.71 2004109.25 1004110.72 2004250.58 1504271.57 1004282.97 1004292.92 6004300.49 2004317.81 5004319.55 2004319.59 10004322.08 1504351.56 1004355.48 3004362.64 8004369.69 2004376.12 0004385.61 9004392.07 2004415.19 1004440.19 1004440.86 5004521.86 1004735.89 2004732.02 15004732.02 2004732.02 8034489.88 2004507.35 6004523.14 4004558.61 2004577.71 8004582.98 3004592.80 1504615.26 5046191.17 1004619.89 8034628.88 2004668.40 5004691.30 1004694.36 2004739.00 3004762.44 3004765.74 1004811.76 3004825.18 2004832.08 8004843.04 2004857.20 1504845.59 3005022.40 2005086.54 2005119.78 4005209.33 5005308.69 2005323.41 5005488.17 2005562.22 2005570.29 2005580.39 8005603.58 1005611.89 4005699.33 2005832.86 1005870.91 3005992.22 2005993.85 8005951.12 500607.16 5006217.03 1006456.50 2006510.07 1506899.23 6006948.100
- **Xenon**
3907.91 1004037.59 1004057.46 2004098.89 1004158.04 2004180.10 1004193.15 5004208.48 3004209.47 1004213.72 3004215.60 1004223.00 3004238.25 3004245.38 5004251.57 1004296.40 5004310.31 2004319.59 10004369.20 2004373.76 1004392.20 5004392.20 5004392.20 5004416.07 1504416.19 1004440.19 1004440.86 5004521.86 1004735.89 2004732.02 15004732.02 2004732.02 8034489.88 2004507.35 6004523.14 4004558.61 2004577.71 8004582.98 3004592.80 1504615.26 5046191.17 1004619.89 8034628.88 2004668.40 5004691.30 1004694.36 2004739.00 3004762.44 3004765.74 1004811.76 3004825.18 2004832.08 8004843.04 2004857.20 1504845.59 3005022.40 2005086.54 2005119.78 4005209.33 5005308.69 2005323.41 5005488.17 2005562.22 2005570.29 2005580.39 8005603.58 1005611.89 4005699.33 2005832.86 1005870.91 3005992.22 2005993.85 8005951.12 500607.16 5006217.03 1006456.50 2006510.07 1506899.23 6006948.100



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expensive of the Nobel gases.

Pulsed Technologies plasma components include the far more expensive Xenon and Krypton in a carefully calculated balance as well to provide performance and ranges second to none.

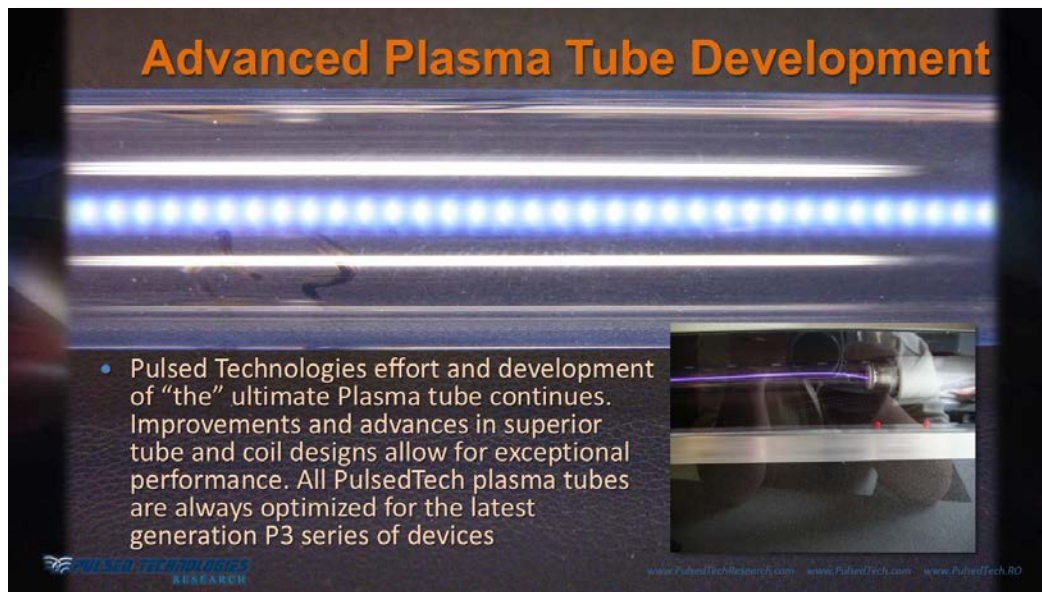
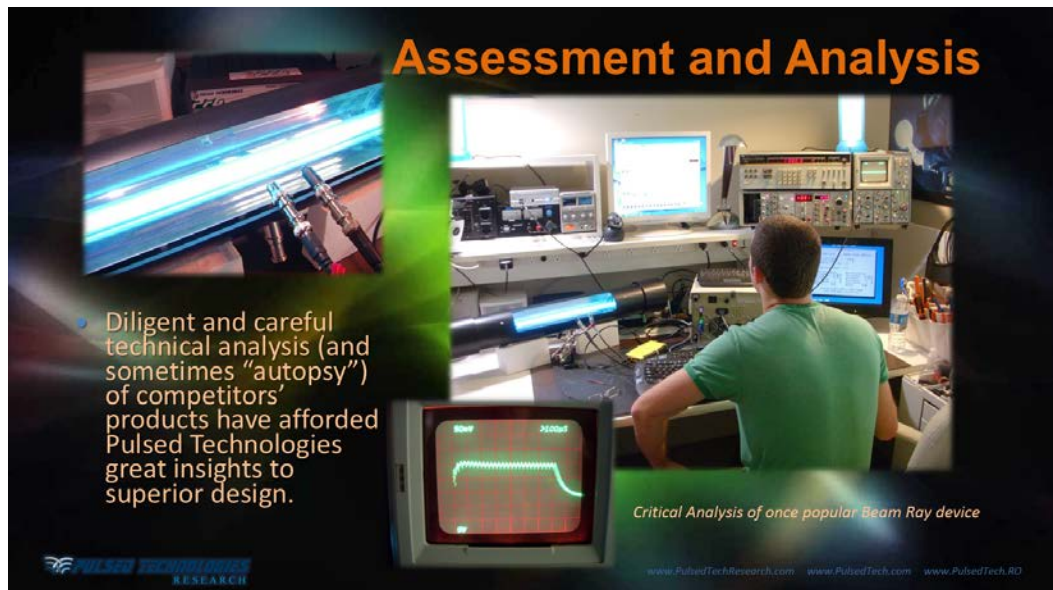
Inexpensive Helium is used in many older RF devices. Some are occasionally used as a supplement to some of our experimental prototype systems in-house, but they are rarely used in our production instruments.

Some manufacturers add a bit of highly poisonous mercury to their mix because it makes the tube look much brighter and emit more ultraviolet. This is quite ironic when you consider that they, often selling devices meant for resonant frequency emission, targeting people with critical health needs, are choosing to theoretically expose that person unknowingly to even more toxic emission. **INCREDIBLE!!!**

NO mercury IS or EVER WILL BE used in ANY Pulsed Technologies plasma tube!

Pulsed Technologies Research engineers thoroughly examine other devices often for in-house assessments.

Pictured here is one of the worst case examples we have investigated to date.



Pulsed Technologies continues to improve all phases of tube development to provide affordable, high-performance tubes for now and well into the future.

Electro-Therapeutic Approaches to Personal Disease Management and Health Maintenance.