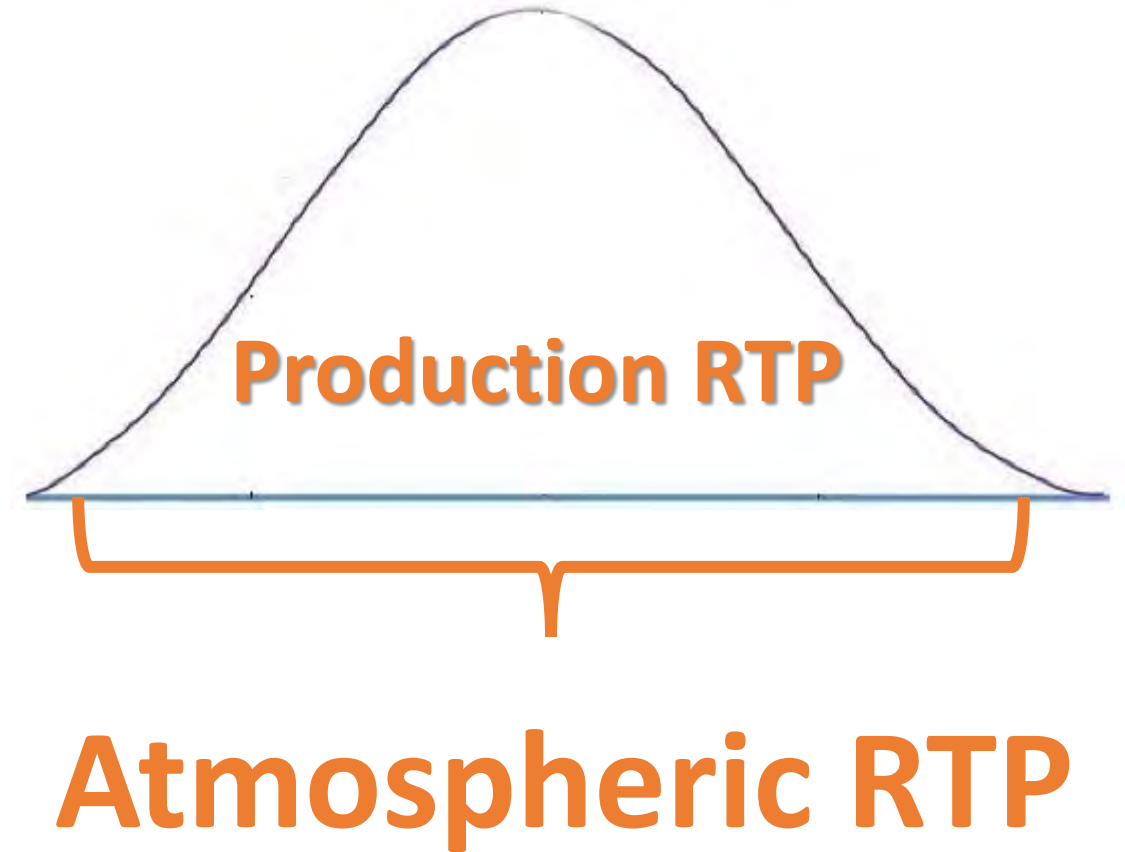


# Popularity

**Most RTPs in production for 2 to 8 inch wafers are atmospheric RTP, NOT vacuum RTP.**

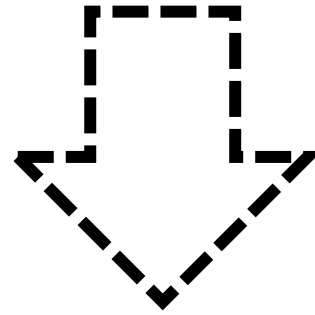


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# RTP Performance

## Vacuum RTP Performance



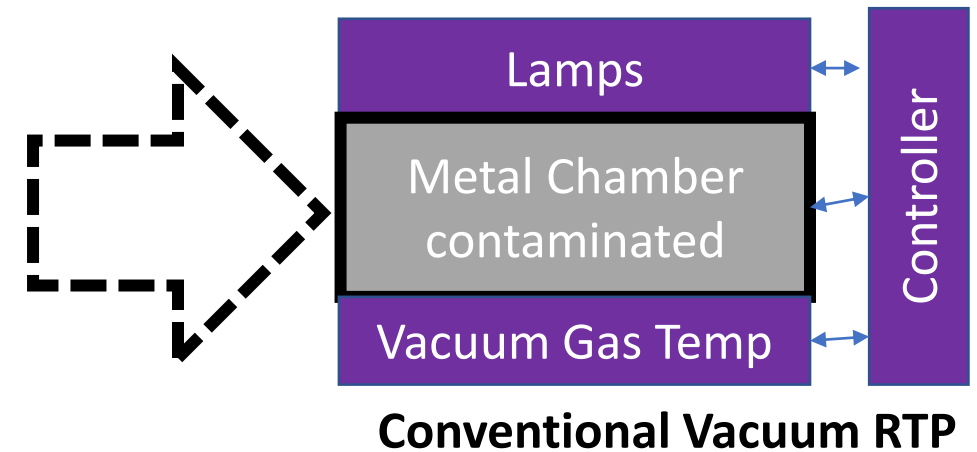
- Not Repeatable
- Not Uniform
- Not Stable

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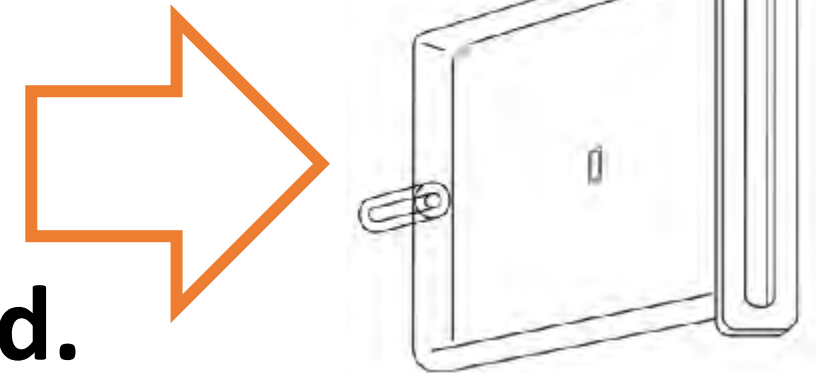
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# Chamber Contamination

**It is too difficult to get rid of vacuum RTP Metal Chamber contamination.**



**Atmospheric RTPs use isolated quartz tube. You can acid clean or fire clean easily if it is contaminated.**



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# Chamber Size

**Vacuum RTP comes with bigger chamber due to vacuum design. Bigger chamber causes bad RTP performance.**

**Atmospheric RTP has small chamber with compact design.**

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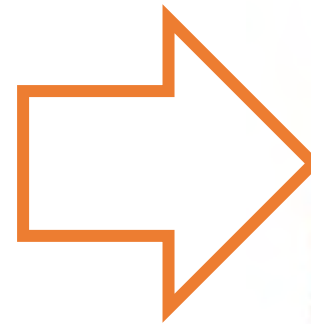
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# IR Lamp Heating

**Vacuum RTP comes with only top or bottom lamp heating due to vacuum design, which causes bad RTP performance.**

**Atmospheric RTP has top and/or bottom lamp heating !**



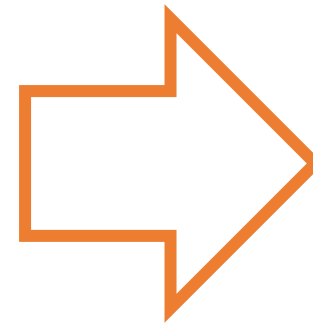
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# Susceptor

**Vacuum RTP can only use susceptor base due to only top or bottom lamp heating, which causes bad RTP performance, especially for wafer with metal thin film.**

**Atmospheric RTP  
can use susceptor  
base and cover .**

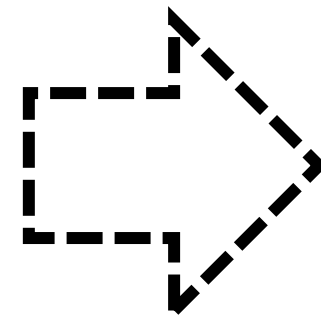


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# Anti-Oxidation

**Vacuum RTP has to use Turbo Pump to achieve Anti-Oxidation, which increase the cost a lot.**



**Atmospheric RTP can use forming gas to achieve Anti-Oxidation. 3%~10% H<sub>2</sub>**

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# Ownership and Usage Cost



The total ownership cost of vacuum RTP, vacuum pumps and facility is much higher than atmospheric RTP's cost.

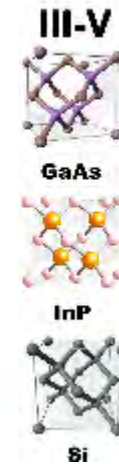
Vacuum Function Usage Cost is very high.

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# We welcome questions, so please ask us if anything is unclear!



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