Lecture 4 Dental Equipment Technologies Dr.Muna Merza

**Dental Burner uses in Prosthodontic Dentistry**

**There are different types of burners used in prosthodontic dentistry and they are divided into:**

1. ***Alcohol burner (spirit lamp): -***

* It has a small container with a small cover that has a hole and there is cord "made from cotton” pass through the hole and entering inside the container, the other end projects outside the cover, also contain cover that covers flame side to avoid evaporation of alcohol when it not used.

**The requirement of flame of this type of burner:**

1. It must be blue color flame to get the required heating degree
2. If the flam is blue with redness this is because the alcohol that is used is not pure & should not be used.

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1. ***Air-Alcohol burner (Air alcohol torch):***

* It's like the alcohol burner but with another part added that gives air application to the flame of burner which leads to changing its way and converting it to long stable flame
* In this way we can control the flame direction and apply it to the wanted area with an increase in heating degree.

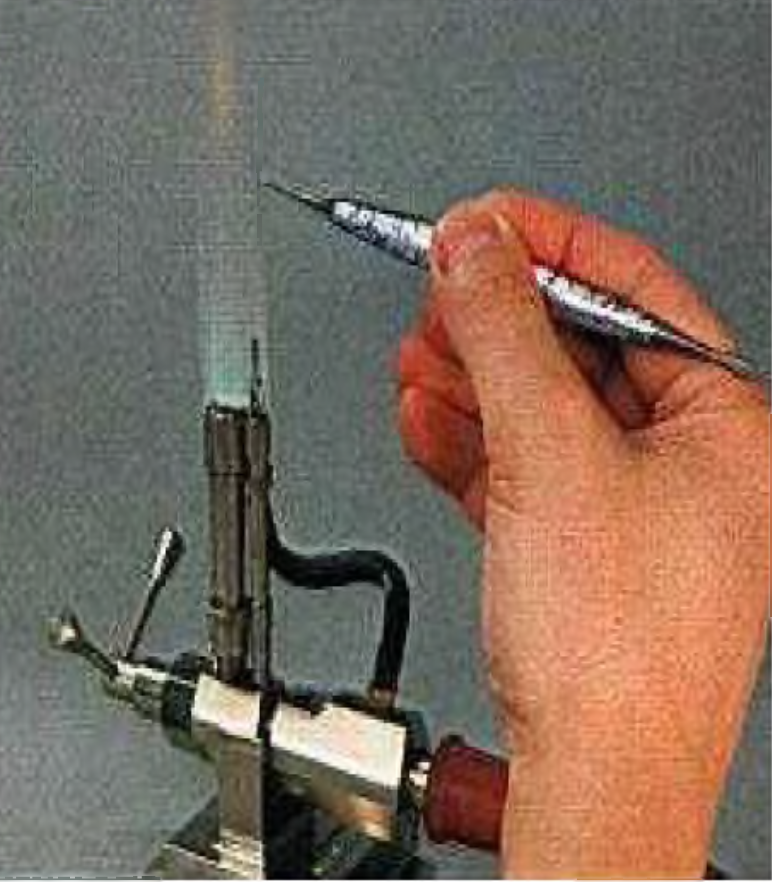
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1. ***Table gas burner***

* It consists of a cylinder tube stable on the base that connects to the gas source
* There is a hole in the lower of the connection that controls air entering which helps in gas burning.

Diagram

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1. ***Metal melting torch:***

* Is the instrument used to melt alloy when the flame is used for this purpose.
* There are two types of metal melting torches 1 -Single orifice 2- Multi orifice torch

In general, this torch consists of:

1. **Handle**  2.**The keyway**  3. **Flame**  have 4 zones:
2. Mixing (zone black). b. Combustion (zone green)

c.Reducing (zone blue). d.Oxidation zone

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