



## **POSITIVE DISPLACEMENT PISTON PUMP:**

A High Pressure Water Blaster is powered by a positive displacement piston pump. This type of pump generally has 3 pistons that reciprocate at 1450 rpm. This means there are 8700 movements per minute inside the head of the pump. This generates a lot of friction which in turn generates a lot of heat.

The water flowing through the head of the pump is used to cool and lubricate the pistons and seals.

As the average pump head holds less than a cup of water, unless the machine is fitted with a water tank, the pump should not be left running for longer than one minute with the gun closed. Otherwise you could cause damage to the pump seals and valves.

After one minute you should either open the trigger so as to allow warm water to exit the pump which will allow fresh water to flow in to the pump and cool the pistons and seals or turn the machine off so it does not generate any heat.