

AST High-frequency Tube Sealer (FR-6.0)



➤ Product Overview and Features:

- ✚ Product Use: It is used for heat-sealing and tube sealing of PVC/EVA blood bag pipelines.
- ✚ Scope of Application: It is mainly applicable to the blood transfusion departments of hospitals at all levels, the blood collection departments, component departments, blood banks of blood stations, and medical research institutions, etc.
- ✚ Working Principle: The high-frequency electrode on the heat-sealing head conducts high-frequency induction heating on the PVC pipeline, making the PVC pipeline reach the molten state (the molecules of the PVC material conduit are polarized under the high-frequency electric field). At the same time, the heat-sealing electrode presses

the molten part. According to the preset program, a heat-sealing is completed after reaching the predetermined time.

- + Using a transistor high-frequency generator with filtering and shielding design for minimal radiation.
- + Multiple voltage protections, mature and stable circuitry, and long service life.
- + The heat-sealing process is fully automated, requiring no manual adjustment of sealing time.
- + User-friendly design, compact size, lightweight, easy to move, and simple to operate.
- + No preheating required—plug in and start sealing, suitable for mobile blood tube sealing.
- + The sealing head features a groove-shaped cutting line, allowing easy separation with one hand after sealing.
- + Safety-effective splash protection device with easy-to-clean design (blue protective cover).
- + Ceramic-encapsulated sealing head design, flat sealing surface, low temperature rise, avoiding damage to tube samples and hemolysis.
- + Dual-color status indicator: green (standby state), red (sealing state).
- + Convenient to carry: top features a retractable anti-slip handle for easy movement.
- + Sealing width adjustment: automatically identifies different profiles and tube thicknesses to adjust sealing power, and allows manual adjustment of sealing width for special needs.

- + Radiation safety: ensures high-frequency operation at 40.68MHz with filtering and shielding design, approaching zero radiation for safety.
- + Cooling system: triple cooling mode using a steel casing with excellent thermal conductivity, heat sinks, and fans.
- + Wide voltage design, compatible with global voltages, and can be equipped with standard plugs from various countries.

➤ Product performance indicators

Name	High-frequency Tube Sealer
Model	FR-6.0
Source	AC 110V ~ 260V, 50Hz/60Hz, 5A
Radio frequency (RF) Frequency/ Power	40.68MHz/30W
Power	Work: 150W / Standby: 3W
Sealing time/temperature range	1 ~ 2.5s/0°C-40°C
Fittings of a machine	PE or PVC, outer diameter of 2mm~8mm, wall thickness of 1.5mm
Outline dimension	Depth 355mm width 180mm height 175mm
Packing measurement	Depth 470mm width 260mm height 280mm
Net weight / gross weight	6.5kg / 7kg