



WRC-300



WATER COOLING UNIT

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A water-cooling unit for a welding machine circulates coolant (like distilled water or antifreeze mix) through hoses to the torch, preventing overheating during high-amperage or continuous MIG/TIG/plasma welding, thus extending torch/consumable life, maintaining arc stability, and increasing duty cycles, featuring pumps, tanks, quick connectors, and often flow/temp alarms for safety and efficient operation.



Key Components & Function

- Pump & Tank: Moves coolant from a reservoir (e.g., 6L, 20L) through the system.
- Coolant: Typically distilled water or a specialized antifreeze/water mix, preventing rust and freezing.
- Hoses: Circulate the coolant to and from the torch.
- Heat Exchanger: Radiator with copper tubing to dissipate heat.
- Quick Connects: Allow fast, leak-free attachment/detachment.
- Safety Features: Flow switches, temperature sensors, error codes for low flow, high temp, or pump issues.

Benefits

- Prevents Overheating: Protects torches and consumables from heat damage.
- Extends Life: Increases the lifespan of expensive torches and wear parts.
- Improves Performance: Ensures consistent arc starts and stable welding conditions.
- Increases Duty Cycle: Allows for longer, continuous welding operations.

Common Applications

- High-amperage TIG (Tungsten Inert Gas) welding.
- High-amperage MIG (Metal Inert Gas) welding.
- Plasma cutting.

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