

## Which cooler pump do you have?

### Vane Pump



Which pump do you have . . . both types of pumps are commonly used on water circulating systems for welding equipment. Both pumps are of the “carbonator” type. While they look and perform similarly there are distinct differences in the two pump types.

### Vane Pump

Vane pumps use carbon blade vanes to move the water from the inlet port to the outlet port. The carbon vanes are quiet and rust free but cause wear in the pump chamber. They are susceptible to breakage when they come in contact with any debris in the water. This breakage usually comes without any warning. The vane pump lacks a by-pass to return excess pump output to the reservoir. This causes extra strain on the motor and heat build up in the pump.

### Premium Gear Pump

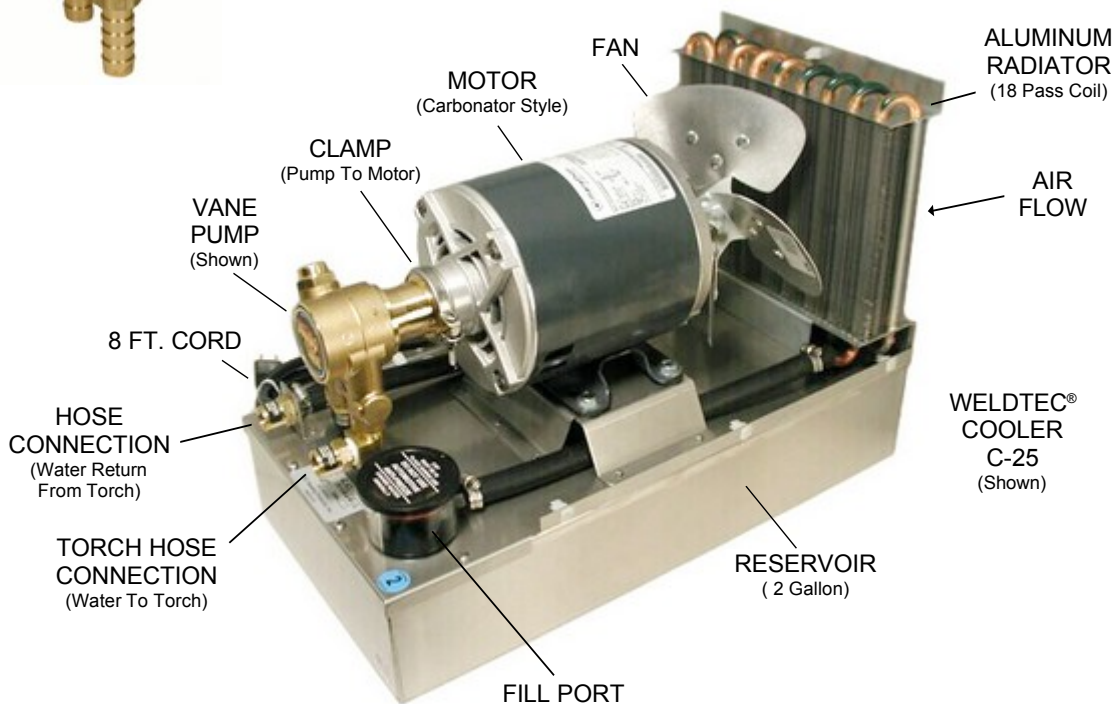
(With By-Pass)



### Gear Pump

Gear pumps use 2 bronze gears to move the water from the inlet port to the outlet port. The newer gears are helical machined so they are quiet and long lasting and are mounted on a stainless steel shafts. The pump chamber has a by-pass port to return excess output to the cooler reservoir where it can circulate through the radiator for additional heat removal. Gear pumps tend to wear out over a long period of time and give plenty of notice when they need service. Repair kits are available to recondition gear pumps. These kits contain new gears, shafts and seals and can be installed in minutes at the job site.

While the gear pumps usually cost more than the vane pumps the added benefits and longer life make them the choice for premium circulator systems. Optional, at extra cost, on all WeldTec® coolers.



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## Pump To Motor Connection

