

## SMALL, PORTABLE AGITATED QUENCH TANK

### APPLICATIONS

The QTS 124 quench tank is used for the uniform quenching of hot steels. The standard model, QTS124, may be used with either water or lightweight polymer, with rust inhibitor in the solution.

An optional configuration, the QTO124, may be used with quenching oil. This includes the slide-on lid (which is an option for the other two configurations) and an explosion-proof motor.

The QTW124 is used for plain water without rust inhibitors. It features stainless steel construction and a TEFC motor for the agitation. Neither configuration is designed for use with brine.

All configurations feature proper agitation, which ensures uniform quenching and disperses the bubbles of vaporized quenchant that form on the surface of the hot parts being quenched. If not dispersed, these bubbles can cause uneven quenching times, which would result in a poorly quenched part. The agitation also prevents localized overheating, which in the case of oil quench media, could cause a fire. An optional slide-on lid provides a means to extinguish any potential quench oil fires and keep quench media clean. Casters are included to make the tank easily portable.

### FEATURES

#### HEAVY-DUTY DOUBLE WELDED CONSTRUCTION

The tank is made of 10-gauge steel. All seams are welded on both sides.

#### CASTERS FOR PORTABILITY

Four swivel casters are included. This allows the operator to move the tank out of the way when not using it.

#### EPOXY PAINT FURTHER SEALS THE TANKS

A base coat of zinc chromate primer is covered with heavy-duty epoxy paint. (QTW124 is stainless steel and is not painted.)

#### DRAIN PIPE

A 1" NPT fitting is welded near the bottom to drain the tank. The pipe is capped.

#### AGITATOR MOTOR

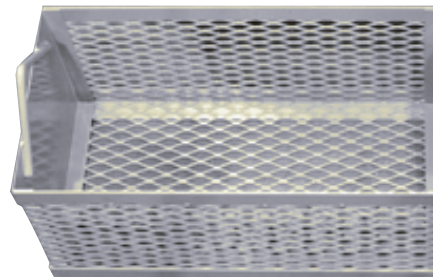
The standard agitator motor is TEFC. An optional explosion-proof motor is available for use around oil. The motor has a 10' cord to plug into a 120-volt single phase electrical outlet.

#### IMPELLER TYPE AGITATION

A 4" diameter impeller type agitator ensures proper agitation of the quench media. The horsepower and impeller of the agitator are generously sized for vigorous agitation. The shaft and impeller are 316 stainless steel.

#### SEPARATE CHAMBER FOR IMPELLER

The agitation impeller is located in a separate area from the working space. This is separated by a perforated screen to prevent damage to the impeller and as a safety precaution. This section has a bolt-on cover.

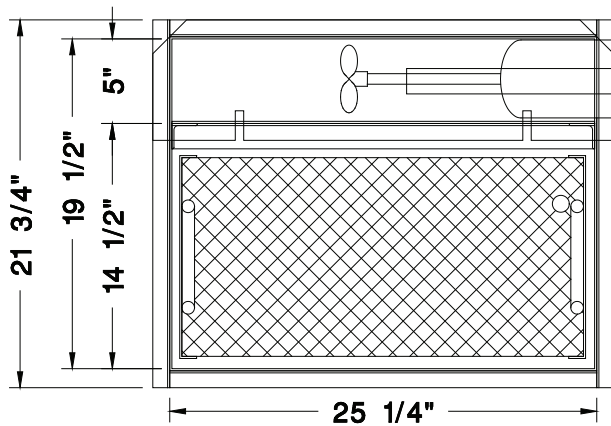


# SPECIFICATIONS

- **CAPACITY:** 25 gallons
- **INTERIOR SIZE OF TANK:** 16" wide by 16" high by 25" long
- **WORK DIMENSIONS:** 12" wide by 12" high by 24" long
- **EXTERIOR DIMENSIONS:** 18-1/4" wide by 39-3/4" high by 25-1/4" long
- **VOLTAGE:** 120/1/60
- **STANDARD AGITATOR:** 1/4 H.P., 5.1 Amps
- **EXPLOSION PROOF AGITATOR:** 1/2 H.P., 7.6 Amps

# OPTIONS

- **EXPLOSION-PROOF MOTOR:** An optional explosion-proof motor is available for using oil as the quench media.
- **SAFETY LID:** For covering tank in case of fire and also to keep quenchant clean when not in use. The lid has handles on it and comes completely off when not in use.
- **PERFORATED BASKET:** An expanded metal basket has handles for removing the work. Size is 12" by 12" by 24"
- **STAINLESS STEEL:** The QTS 124 is available in 304 stainless steel for use with water without rust inhibitor. (QTW 124)
- **QTO124:** Includes explosion-proof motor and safety lid.



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