

Kynar Tank

Formed Plastics, Carle Place, New York

The Kynar Tank was molded by Formed Plastics of Carle Place, New York for Thermo Fisher Scientific, the world leader in serving science. Formed Plastics won the 2006 ARM International "Innovative State of the Art" and "Product of the Year" awards presented in Washington D.C. in November.

This reservoir tank is molded in Kynar (PVDF) material. A glass sight tube is assembled after the part is molded. An unusual flatness tolerance must be within the molded part in order for the glass tube to locate properly without leaking. Some of the inserts are in unusual locations and present molding difficulties. A deep molded pocket must meet stringent drawing wall thickness specification. Molded and machined dimensions all have tight tolerances, and special cooling fixtures are used to ensure dimensional repeatability. The process fluid reservoir tank is an integral part of Thermo Scientific's NESLAB ThermoFlex™ recirculating chiller used to cool equipment in a variety of process industries. Unlike traditional reservoir tanks used in recirculating chillers, the ThermoFlex tank features an unusual integrated design to deliver key customer benefits, including ease of use. An integrated funnel promotes easy, spill-proof filling, while an integrated full-flow filter ensures clean fluid to the application and is easily removable for quick cleaning. The integrated drain pot enables 100% fluid removal from the tank.

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High Temperature Kynar Tank Section View

