

How Flocells Work

Flocells offer inline/continuous, large volume batch sample processing and are ideal for mixing and dispersing applications. Batch volumes can be recirculated through the system multiple times if increased sonication time is needed. Multiple units can be used in series to reduce processing time and/or maintain a higher flow rate.

The liquid sample is pumped into the Flocell through the inlet at the bottom of the unit. As the sample passes through the cavitation field, it is processed. The processed liquid exits the unit through an outlet port. The degree of processing can be controlled by adjusting the intensity of sonication as well as flow rate.

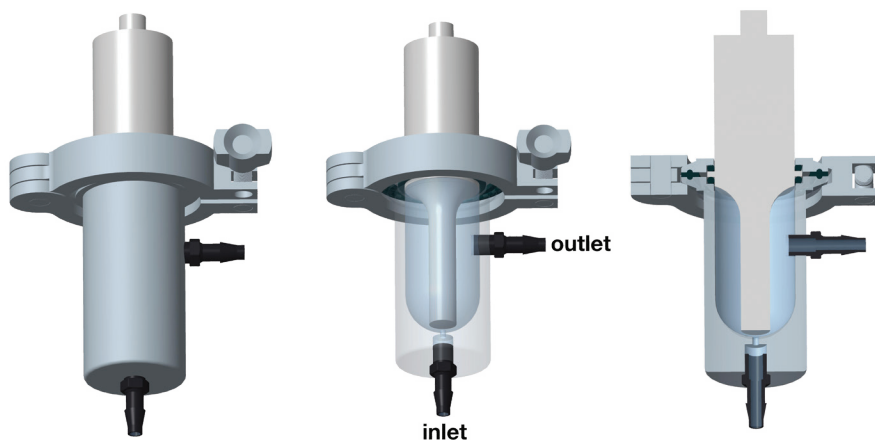
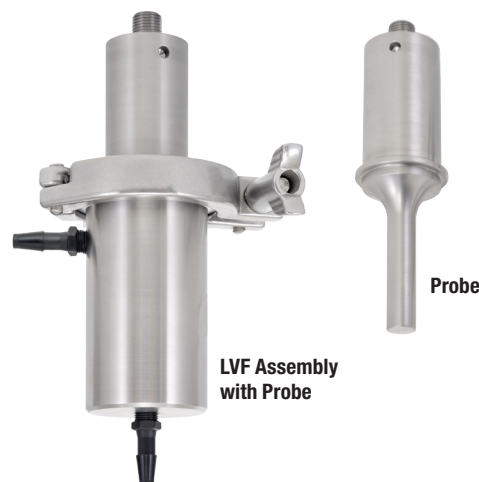
Flocells require long processing times so air cooling of the Converter is required. A pump, tank and associated tubing are not included. A variable speed pump is recommended.

Low Volume Flocell

The Low Volume Flocell (LVF) is available for use with either the Q500 or Q700 system. It is recommended for processing volumes of approximately 1-5L. This Flocell is equipped with 1/4" hose barb fittings and the probe must be ordered separately.

A 1/2" replaceable tip probe is available for aqueous samples only and a 1/2" solid probe can be used with aqueous or other types of liquids. These probes feature a flange for proper mounting with the LVF.

A pump, tank, tubing and additional accessories are not included. A variable speed pump is required.



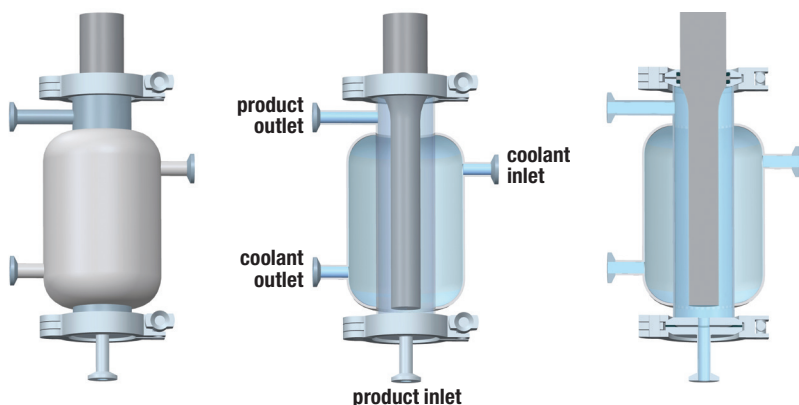
Part #	Description
4650	Low Volume Flocell <ul style="list-style-type: none"> • Material: 316L Stainless Steel • Operating pressure: 40 psi max. • Internal volume: 65mL • Maximum flow rate: 0.5L/min • Hose barb fittings for 1/4" (6mm) ID tubing • Dimensions (L x W): 9.1 x 3.5 in. 228 x 89 mm) — dimensions include probe and clamp
4643	1/2" (13mm) Replaceable tip probe with flange for #4650
4644	1/2" (13mm) Solid tip probe with flange for #4650

High Volume Floccell

The High Volume Floccell (HVF) is available for use with the Q700 system and is recommended for volumes of approximately 5-10L.

The Floccell is equipped with 1/2" sanitary connections, a water jacket and a 1" diameter probe. The water jacket can be used to recirculate cold water around the exterior of the floccell body. This helps reduce the heat generated during ultrasonic processing.

A pump, tank, tubing and additional accessories are not included. A variable speed pump is required.



Part #	Description
4549	High Volume Floccell <ul style="list-style-type: none"> • Dimensions (H x D): 17 x 16 in. (431 x 406 mm) • Includes #4625 Probe • Material: 316L Stainless Steel • Operating pressure: up to 100psi • 1/2" (13mm) Sanitary connections • Internal volume: 400mL • Maximum flow rate: 20L/min • Water jacketed for cooling
4625	1" (25mm) Diameter Floccell Probe