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# Low Volume Flocells

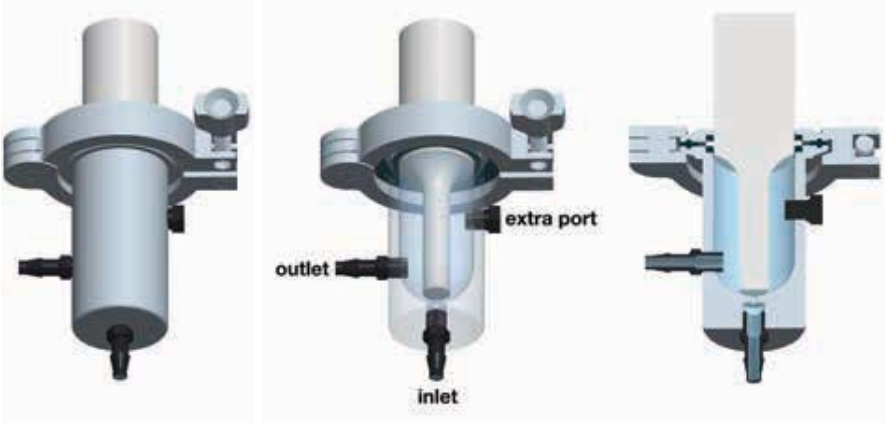
Flocells offer inline or continuous, large volume, batch sample processing. Flocells are ideal for mixing and dispersing applications. Batch volumes can be re-circulated through the system multiple times if increased sonication time is needed. Multiple units can be used in series to reduce processing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

The Low Volume Flocell (LVFC) is available for use with either the Q500 or Q700 system. The Flocell (part#4650) is equipped with 1/4" (6 mm) hose barb fittings and does not include a probe. A 1/2" (12 mm) replaceable tip probe (#4643) or 1/2" (12 mm) solid probe (#4644) must be ordered separately. These probes feature a flange for proper mounting with the LVFC. The replaceable tip probe is for use with aqueous samples only. Solid tip probes can be used with all types of solvents or low surface tension liquids.

Sonication generates heat so a Water Jacket (#4655) is available if the process requires cooling. The water jacket slides over the LVFC and is used to recirculate cold water around the exterior of the flocell body. The water jacket includes 1/4" (6 mm) hose barb fittings.

The LVFC is recommended for processing sample volumes above 1L. Routine applications include cell lysis, mixing, solubilizing and deagglomerating/dispersing nanoparticles.



Part #	Description
<b>4650</b>	<b>Low Volume Continuous Flocell</b> <ul style="list-style-type: none"> <li>Material: 316L Stainless Steel</li> <li>Operating pressure: up to 100psi</li> <li>Internal volume: 65ml</li> <li>Maximum flow rate: 0.5L/min</li> <li>Hose barb fittings for 1/4" (6 mm) ID tubing</li> <li>Dimensions (H x D): 9.1 x 3.5 in. 228 x 89 mm — dimensions include probe and clamp</li> </ul>
<b>4643</b>	<b>1/2" (12 mm) Replaceable tip probe with flange for #4650</b>
<b>4644</b>	<b>1/2" (12 mm) Solid tip probe with flange for #4650</b>
<b>4655</b>	<b>Water Jacket for #4650</b>