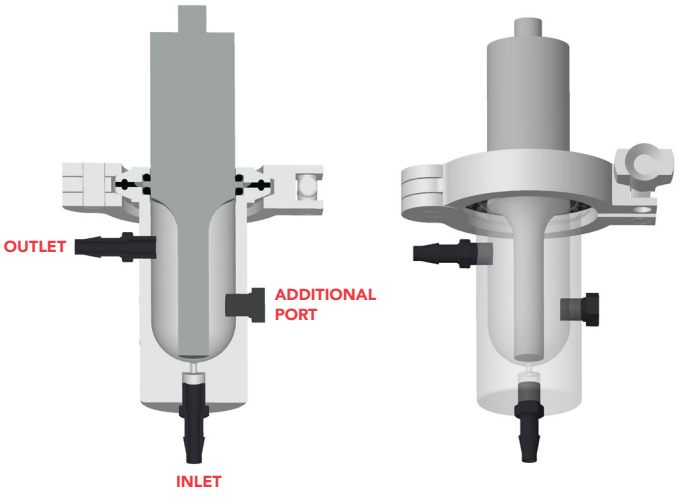
MEDIUM VOLUME CONTINUOUS FLOW CELL

The flow cell enables continuous processing of 1L or greater volumes. The unit is made of 316L stainless steel and has ¼" (6mm) hose barb fittings. Maximum flow rate is 0.5L/min.

A ½" (13mm) solid tip flow cell probe is included and the volume of liquid inside the chamber with the probe installed is 65 ml. A variable speed pump is recommended but not included.



FLOW CELL ASSEMBLY

PART NO.
630-0651

REPLACEMENT PROBE

PART NO.
630-0644

CHILLER

Ultrasonic processing generates heat which may be detrimental to many applications. The chiller automates the cooling process with a 400W cooling capacity and controls temperature from 5-45°C.

Two models are available. The chiller **PART NO. 830-00905** is compatible with the cup horn system and does not include an internal reservoir to hold water. This model recirculates and chills the water inside the cup horn. This feature is important because it maintains a constant water level which improves sample processing. The tubing and connector set must be ordered separately **PART NO. 309-4911.**

The chiller **PART NO. 830-00906** includes a 300mL internal water reservoir which enables it to be connected to any device that requires an external cooling system. This is the recommended chiller model for use when cooling the water jacket on a high volume flow cell.

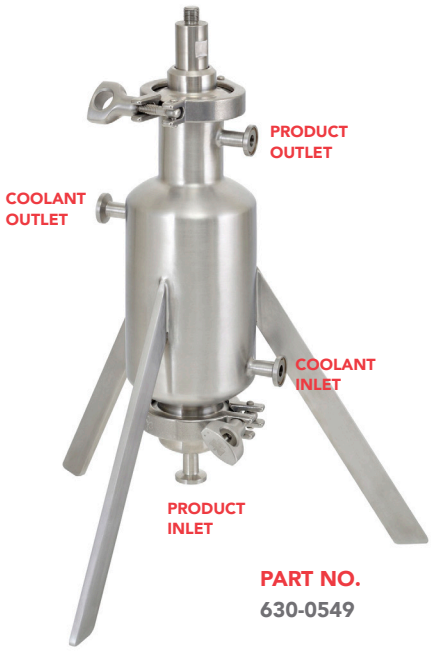
HIGH VOLUME CONTINUOUS FLOW CELL

The flow cell enables large volume, continuous processing. The throughput rate depends on many variables including viscosity and desired degree of processing. The flow cell is recommended for the treatment of low viscosity samples which do not require extended exposure to ultrasonics. For optimum performance, when working on a flow through basis, pre-mixing the sample with a mechanical stirrer is recommended. Multiple units can be used in series to reduce processing time and/or maintain higher flow rates.

The liquid sample is pumped into the flow cell 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 flow cell is easily disassembled for inspection and cleaning, and is water jacketed to enable the sample to be cooled while it is being processed. All wetted parts are autoclavable.

HIGH VOLUME FLOW CELL WITH HIGH EFFICIENCY PROBE



PART NO.
630-0549

1500 WATT ULTRASONIC PROCESSOR, CONVERTER, BOOSTER, PROBE, HIGH VOLUME FLOW CELL

PART NO.
VCX 1500HV

HIGH EFFICIENCY FLOW CELL PROBE

PART NO.
630-0625

SOUND ENCLOSURE FOR VCX 1500HV

(H X W X D) 38" X 18" X 17.75"
(965 X 457 X 451 mm)

PART NO. 830-00474

FLOW CELL SPECIFICATION

Material:	316 stainless steel	Operating pressure:	Up to 100 psi
Height:	17" (432 mm)	Internal volume w/probe:	400 mL
Width:	16" (406 mm)	Product/Coolant Connectors:	1/2" (13 mm) sanitary fittings
Weight:	12 lbs. (5.5 kg)		