

FCS2 Cooling Adapter Instructions

Description:

The FCS2 Cooling adapter is an O-ring sealed, press fit device which provides a parallel flow path for chilled fluids above the microaqueduct slide. This adjacent flow path can be used to reduce the temperature of specimens in the flow channel defined by the coverslip, lower gasket, and microaqueduct slide. Bioptechs recommends use of a .055 or lower N.A. condenser with this device for transmitted light applications.

The Cooling Adapter is made of the following materials:

Adapter ring and retainer	Delrin
O-ring	Neoprene
Window	Glass
Gasket	Silicone
Tubes	2mm 304 stainless steel.

Instructions:

1. Press fit the Cooling Adapter into the top of the FCS2 before loading the chamber with cells.
2. Load cells into the optical cavity as described in the FCS2 instructions and secure the two halves of the chamber. You will not use the black electrical connector with the Cooling Adapter.
3. Attach chilled fluid tubing to the 2mm tubes on the Cooling Adapter then with the chamber tilted so that the entrance tube is lower than the drain tube. Begin perfusing the cooling adapter so that all air is displaced. After flow is established maintain the chilled fluid flow at the desired temperature and flow rate throughout the experiment.

