

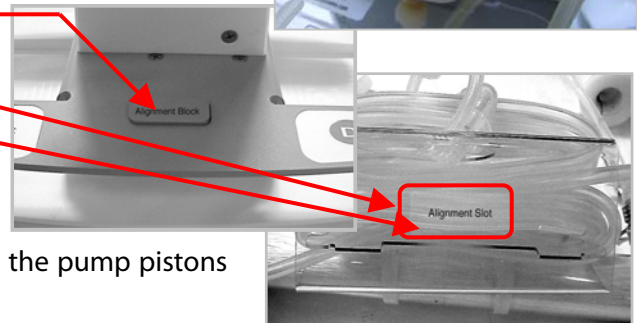
FiberCell Systems Inc.
a better way to grow cells

FiberCell Systems Duet Pump

Thank you for purchasing a FiberCell Systems Duet pump. The Duet is designed to work with either one or two cartridges. The following cartridges are compatible: C2025, C2003, C2008, C2011 and C2018. The Duet will deliver a maximum of 220 mls/min flow rate utilizing a unique positive pressure displacement mechanism that produces no wear on the pump tubing. Low voltage power (24 volts, single phase AC) is delivered to the unit inside the incubator via a thin cord that is designed to fit through the rubber incubator door gasket. Operation of the duet is simple.

Operating Instructions

1. Flow rate is controlled by position of the electronic speed control knob.
 - A position of 15-20 should be used for pre-culture and the first few days of culture, 20-26 for culture and production and 26-30 for highest density culture with the C2018 and C2003 cartridges.
2. Ensure that the brown pump tubing is aligned vertically in the area between the pump piston and pump platen. For maximum flow rate it is essential that this tubing be inserted properly.
3. The cartridge can be inserted more easily while the pump is operating.
4. Check to see that the rectangular alignment slot in the bottom of the flow path is inserted over the alignment block on the base of the Duet. It will click into place. Proper alignment is essential for optimum performance.
5. Up to a 2 liter plastic bottle can be placed into the indentation on the base of the Duet.



Precautions

1. Do not insert fingers or delicate objects between the pump pistons and pump platens.
2. Do not leave the pump inside an incubator unless the motor is running or rust may occur.
3. Do not wipe the unit with anything stronger than 70% ethanol. Do not use bleach or other strong solvents. Do not autoclave the unit.
4. Keep the unit plugged in to a surge protector or battery back-up power source.

Your Duet comes with a two-year full warranty when registered using the FiberCell Systems web site. For technical support, contact FiberCell Systems at (301) 471-1269 or e-mail at info@fibercellsystems.com.