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NEWI FX-6000[™] Tension System (FX-6000T)

Apply equibiaxial or uniaxial tension to cells in 2D or 3D culture.

- > Computerized, vacuum-operated instrument that applies a defined controlled, static or variable duration cyclic tension to cells growing in vitro.
- > Utilizes regulated vacuum and positive air pressure to deform cells cultured on flexiblebottomed culture plates.
- > Simulate *in vivo* tissue strains and frequencies in cells from muscle, lung, heart, blood vessels, skin, tendon, ligament, cartilage, and bone.
- > Contains state-of-the-art digital valve to automatically regulate and maintain vacuum and positive air pressure to provide the specified strain regimen.
- > Multiple frequency, amplitude and waveform changes can be programmed in one regimen.
- > Waveforms available: static, sinusoidal, heart stimulation, triangular, square, custom (Fig. 2).
- Supplied with cylindrical Loading Posts to provide equibiaxial strain, to be used with 6-well BioFlex® culture plates (page 19) for 2D cell constructs or with 6-well Tissue Train[®] Circular Foam culture plates (page 22) for 3D cell constructs.
- > Optional Arctangle® Loading Posts to provide uniaxial strain, to be used with 6-well UniFlex™ culture plates (page 22).
- > Optional Baseplate Kits (page 10) to use the FX-6000T with more than one Tension Baseplate, for Tissue Train[®] applications, for uniaxial strain, or for high-throughput tests.
- > Drives up to four independent FlexLink[®] remote compression and/or tension controllers.
- Works with microscopy devices StageFlexer[®] StageFlexer[®] Jr. (page 12), and FlexFlow[™] (page 13).
- FX-6000[™] Tension System includes:
 - Laptop computer with FlexSoft FX-6000™ software
 - FX-6K[™] Tension FlexLink[®]
 - BioFlex[®] baseplate and four gaskets
 - BioFlex[®] Loading Stations[™] with 25 mm Loading Posts
 - Four BioFlex[®] culture plates and four Cell Seeders™
 - Drying filter, water trap, vacuum tubing, and grease/lubricant



Figure 1. FX-6000[™] Tension System

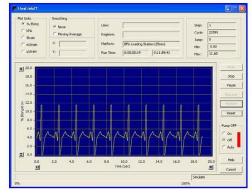


Figure 2. Waveform plot showing typical heart waveform

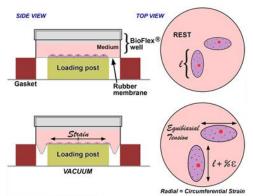


Figure 3. Equibiaxial strain application to cells in a well of a BioFlex[®] culture plate

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Please note: For operation, the FX-6000T requires a vacuum pump, and either a compressor or, if an in-house positive air source is available, a Regulator Kit.

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