

ReconiSense TC

Taking the CrossFlow Pump to the next level

Temperature monitoring

- Stryker's ReconiSense TC utilizes the integration between the CrossFlow arthroscopy pump and the CrossFire 2 resection console to determine the temperature state of the joint space 95% accurate within $\pm 4.63^{\circ}\text{C}^2$
- This technology takes into account the total temperature state of the joint represented by the color indicators on the screen

Temperature mitigation

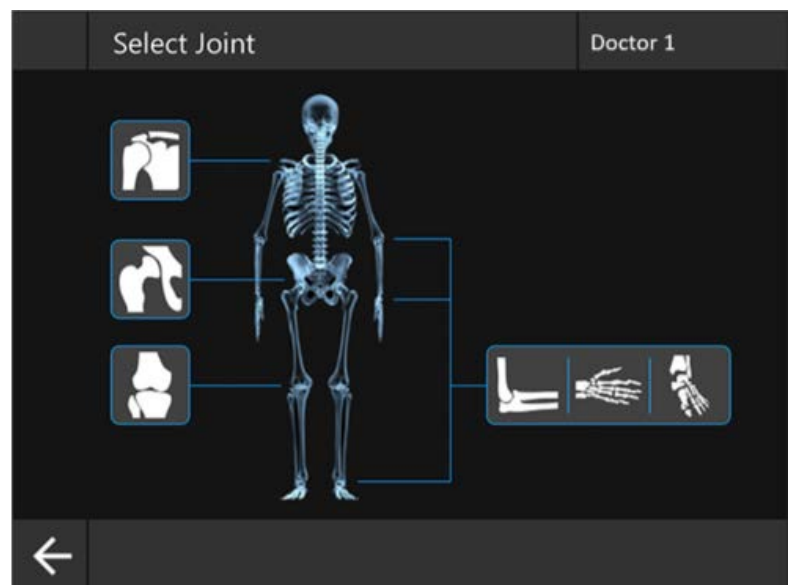
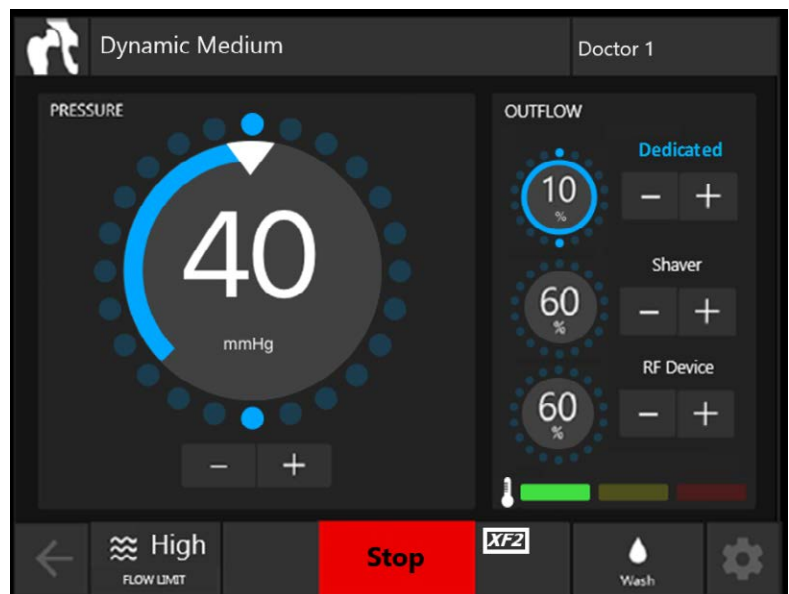
- When the CrossFlow pump recognizes the temperature state of the joint is increasing, it will increase flow rates to turn over fluid in the joint faster¹
- ReconiSense TC will disable the Stryker RF probe to prevent the joint temperature from reaching dangerous* temperatures above $50^{\circ}\text{C}.$ ²

Redesigned user interface

- ReconiSense TC software introduces a completely refreshed user interface for the CrossFlow pump
- The enhanced interface gives the CrossFlow a simplified user experience

Enhanced experience

- Adjust and save changes to surgeon profile settings, such as suction levels for shaver and RF, during surgery in real time on the CrossFlow pump
- Inflow and Outflow motor speed indicators on screen



* Multiple studies have shown that chondrocytes undergo irreversible cell death when in-joint temperatures exceed $50^{\circ}\text{C}.$ ^{3,4}

References:

1. Stryker FS10277. The specifications that control this functionality are TR18990, TR19390 (A150.10, A150.20).
2. Stryker TR19389
3. Voss JR, Lu Y, Edwards RB, Bogdanske JJ, Markel MD. Effects of thermal energy on chondrocyte viability. *Am J Vet Res.* 2006 Oct;67(10):1708-12.
4. Mitchell ME, Kidd D, Lotto ML. Determination of factors influencing tissue effect of thermal chondroplasty: An ex vivo investigation. *Arthroscopy* 2006; 22: 351-355.

Sports Medicine

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