

Fact Sheet:

Companion 2 (C2) Hospital Driver

Background

The C2 Driver provides pneumatic power to the SynCardia temporary Total Artificial Heart inside the hospital and on hospital grounds. For the implant in the operating room and the initial stages of patient recovery, the C2 Driver is docked in the Companion Hospital Cart. Once the patient is out of bed and ambulatory, the C2 Driver can be docked in the Companion Driver Caddy to provide the patient with greater mobility within the hospital.

Once stable, eligible patients are switched to the smaller, wearable Freedom® portable driver. Patients who meet discharge criteria can then leave the hospital to wait for a matching donor heart at home and in their communities.



The Companion 2 Driver docked in the Hospital Cart



The Companion 2 Driver docked in the Caddy

Regulatory Approvals

- European CE Mark: July 25, 2011
- U.S. FDA Approval: July 5, 2012

Three Operating Modes

- Operating Room (OR) Mode – all driver functions and settings are available.
- Intensive Care Unit (ICU) Mode – allows for adjustment of alarm limits, set-up of patient data and adjustment of parameters such as beat rate, pressure, vacuum and percent systole.
- Ambulatory Mode – no changes are permitted, and graph and settings data can be minimized.

Benefits and Features

- The Hospital Cart features sturdy support handles and locking casters to assist patients in standing and walking during their early recovery.
- The Driver Caddy makes it easier for patients to move and exercise, which helps rebuild their strength and improve their health.
- The color LCD touch screen display allows for the adjustment of the beat rate, left/right pressure, left/right vacuum and percent systole.
- The clinician can monitor the performance of the C2 Driver and the Total Artificial Heart via three line graphs showing the pressure waveform, flow waveforms and cardiac output.



The C2 Driver displays three line graphs showing the pressure waveform, flow waveforms and cardiac output.