

# The New Century Perfusion System

**Designed for perfusionists,** by perfusionists

### **Extreme Reliability**

Rugged heavy-duty construction for lasting durability

#### **Exceptional Ease of Use**

Simple design, master in an hour or less

### **Total Cost of Ownership**

Affordable, long lasting, the "Workhorse Pump"



# The Century Perfusion Pump

- The only completely independent perfusion roller pump
- Plug into any wall outlet (HIPEC, Limb perfusion, etc.)
- Two stage Coarse and Fine control speed dial with a defined stop
- Easily accommodates two 1/4" tubings in one roller head





### Stöckert Perfusion Pump Heads

- The Gold Standard in perfusion roller heads
- Laser manufacturing for exceptional accuracy
- Century Pump traded-in after 20 years with 98,926 hours of use – still within specifications!

#### **Century Raceway Symmetry**

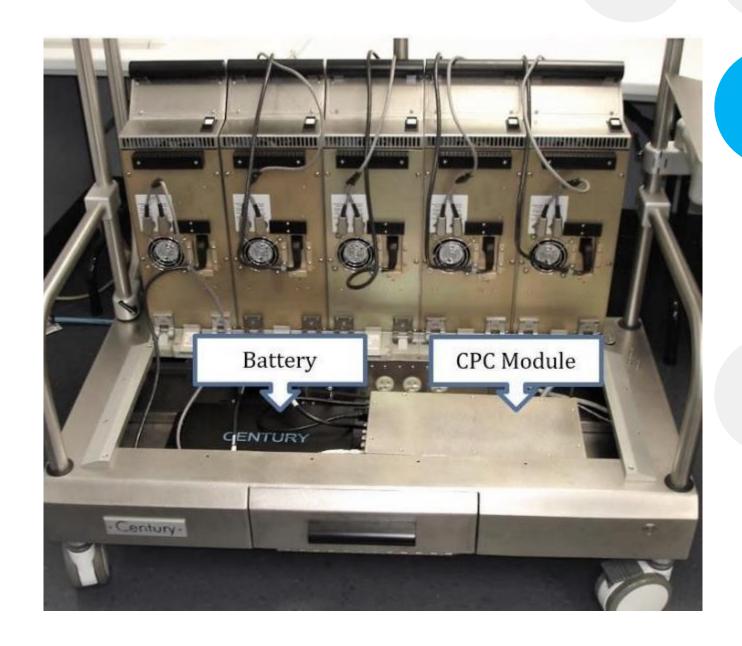
#### The other half of occlusion accuracy

- Century Pump raceways are cut from a single block of aluminum for stability and accuracy
- Century roller heads and raceways fabricated by USA aerospace contractor using laser manufacturing techniques
- Our one-piece raceway design has extra thick walls that do not warp over the life of the pump...no more "low spots"

Item	Subject device: Century HLM, LLC Century Perfusion System	Predicate Device: LivaNova, PLC Stöckert S5 System (K060053)
Tubing raceway concentricity (Concentricity about axis of rotation of pump head.)	0.005 mm (0.0002 inch)	0.03 mm (0.0012 inch)

# **Century Base with Extra Long UPS**

- 2 hours of UPS battery backup for an entire 5 pump system
- Lift and lock in place pumps for easy access to Base
- Room for excess cable coils inside Base





# **Century Base Easy Access**

- Cable Management 4 drip proof pass through access ports on back and sides
- Protected channel under Base for H/C water lines (keeps them clean and out of the way when pushing up to the table)
- Lighted front door for easy access to sensor connections



# **Century CPC Color Touchscreen**

- Intuitive tested for quick and easy use of all features
- Perfusion parameters are always displayed, no menus, auto-closing windows
- All-in-one feature set; 4 Pressures,
   4 Temps, 4 Timers, 2 Level and
   2 Bubble sensors
- RS232 serial port data streaming to any Electronic Medical Record (EMR)





# **Anivia SG1000 Console System, Mast Mounted on Century HLM Cart**

 Users can select Pump Drive to be compatible with disposables



PDM-003

PDM-004

# **APMTD's Anivia Story**

#### Flexible choice Pump Drives

- Drives are Hot Swappable
   2min to switchover
- Allows clinician to choose different disposable per system or per patient.

#### Advanced Display

- Modern Touch Display
- Whole Case Timeline Graphs

#### **Compatible Pump Heads**



#### High Flexibility

- · Choice of different pump drives
- · Configure for clinical demands
- · Rapid switchover at bedside
- · Reduces capital expenses
- Common training



PDM-003

PDM-004

#### **Advanced Display**

- Whole case timeline graphs
- · Available for download
- · Intuitive Touch Screen GUI
- · Rotary Knob Touch Control



# **Electronic Medical Record**

- Runs on standard Windows 10 Laptop, Tablet, or Windows monitor
- Connects to pumps and monitors
- Goal Directed Perfusion
- DO2, VO2, VO2/DO2 ratio
- Creates detailed automated reports
- Collects pre, during, and post procedure data
- Download free 6-month trial version
- https://perfusionpro.com
- AFFORDABLE



### **Make It Yours**

# Compatible With Multiple Perfusion Pumps And Accessories

#### **Century Shown With:**

- Anivia SG1000 Centrifugal Pump
- Quest MPS Cardioplegia Pump



# Century Touchscreen Interface

- Perimeter tiles are always there, perfusion parameters are always visible
- Touching a perimeter tile opens that tile in the center window; same color, larger font, more settings
- Pressing another perimeter tile automatically closes previous tile and opens the new tile in center window
- Touching text in center window opens a keyboard pop up <u>or</u> toggle through setting options



# Follow Function Alarm Indication

- Audible alarms are user choice, except for Air & Level detectors
- Visible flashing alarms are mandatory
- Visible flashing alarm in a perimeter tile identifies the alarming parameter
- Touch alarming tile to open center window, visible flashing alarm indicates the alarming parameter



# **Case Parameters**

- Enter height & weight
- Select BSA algorithm
- Adjust speaker volume
- Adjust local time & date
- Touch beep On or Off
- Test UPS
- New case button clears information that is not retained



### **Pumps**

- Label pumps connected to CPC
- Toggle box to select tubing size
- Select cardiac index for arterial
- Sync if RPM difference is
   >1 RPM with roller pump



### Cardioplegia

### Select Auto Volume/Timer "ON" for automatic cardioplegic operations:

- Initiation of plegia pump starts Total volume count, resets Current volume count, and starts Elapsed Timer to indicate time of plegia administration
- Enter value for pump to Auto-Stop in volume or time, before or after plegia initiation (Auto-Stop use is optional)
- Plegia pump OFF stops volume counts and restarts *Elapsed Timer* to indicate time since plegia administration ended
- Enter Elapsed Time Reminder value



### **Pressures**

- Label pressure channels
- Set Maximum and Minimum values
- Toggle audible alarm ON or OFF
- Choose pumps to STOP for each pressure
- Zero pressure channels



### **Temperatures**

- Label temperature channels
- Set Maximum and Minimum values
- Toggle audible alarm ON or OFF



### **Detectors**

- Yellow (upper) and Red (low) level detectors reset automatically
- Yellow 'Half-Speed' option provides servo control during poor venous return situations
- Label air detectors
- Enable alarms; OFF during priming, ON during Bypass
- Choose pumps to STOP for each detector



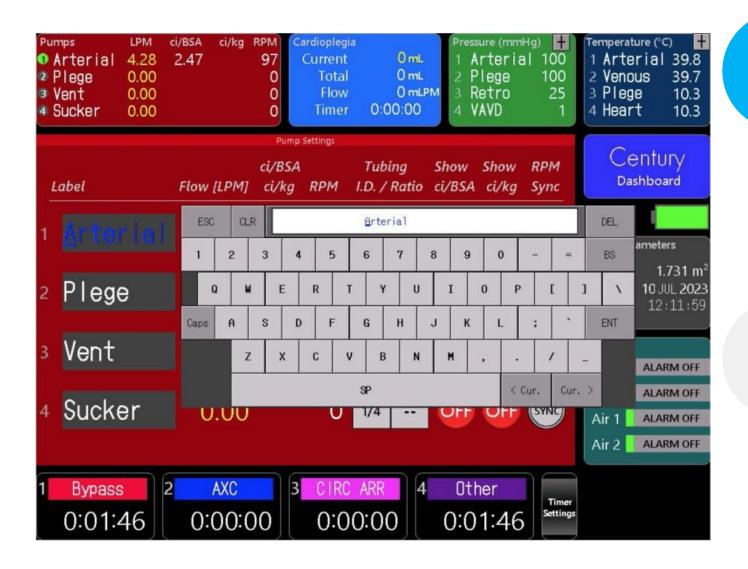
### **Timer Settings**

- Touch a timer tile to Start
- Touch to Stop
- Hold touch 3 seconds to reset
- Label count-up timers in the "Timer Settings" window
- Enter timer alarm value in the "Timer Settings" window (as needed)
- Toggle audible alarm ON or OFF in "Timer Settings" window



### Keyboard

Touching a text box opens numeric keyboard pop up



### Numeric Keyboard

 Touching a numeric text box opens numeric keyboard pop up

