Philips CCO/C.O. cardiac output module enables hemodynamic monitoring using intermittent right heart thermodilution or the continuous PiCCO* method. The Philips cardiac output module provides an important measurement of the blood flow and oxygen delivery to the tissues.

**Thermodilution as a measure of cardiac output**

For the right-heart thermodilution method, a controlled volume of solution at a temperature lower than blood temperature is injected into the right atrium through a pulmonary artery (PA) catheter. The change rate in temperature is measured by a thermistor at the distal end of the catheter.

Right-heart thermodilution method provides a thermodilution curve and the following numerics:
- Cardiac output
- Cardiac index
- Blood temperature

**Valuable analysis**

Analysis of the cardiac output curve provides built-in alerts that help the clinician determine which cardiac output curves should be accepted. With the cardiac output module, clinicians can access output curves for acceptance or determination of average. The cardiac output value is derived from measuring the area of the cardiac output curve over time.
Features of the cardiac output module include:

- Up to six cardiac output curves and values simultaneously displayed
- Seven curve alerts
- Cardiac output curves, easy to select or reject
- Injectate temperature
- Computation constant
- Average of selected curves made with further selectors or rejectors

Philips Commitment to Measurement Technologies

Philips is committed to providing best-in-class standard clinical measurements as well as innovative measurements to support clinicians’ decisions at the patient’s side.

Philips continues to build on its proven measurement expertise by:

- Maintaining and advancing the performance of existing, widely used standard-of-care measurements
- Investing heavily in research, development, and clinical validation of new, innovative parameters and algorithms
- Working with strategic partners to integrate next-generation measurements and technologies
- Providing interfaces to more than 100 third-party specialty measurement devices through the Philips VueLink module

References
