



Edwards Vigilance VGSV or CEDV Monitor

Continuous Cardiac Output (CCO), Mixed Venous Oxygen Saturation (SvO₂) and Continuous End Diastolic Volume (CEDV)

CCO Combo V Catheter

Model: **774F75, 774HF75**

Length: **110 cm**

Size: **7.5F**

Recommended Introducer Size: **8.5F – 9.0F**

CCO Combo V VIP Catheter

Model: **777F8, 777HF8**

Length: **110 cm**

Size: **8F**

Recommended Introducer Size: **9.0F**

Balloon Inflation Volume

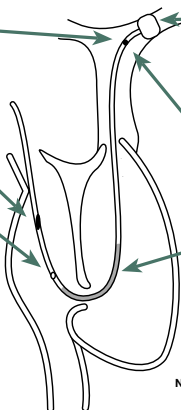
- Appropriate inflation volume is 1.25 – 1.5 cc

VIP Port 777F8, 777HF8

- 30 cm from tip
- Located in RA/SVC

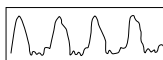
Proximal Injectate Port

- 26 cm from tip
- Located in RA or SVC
- If incorrectly positioned in introducer sheath, Bolus CO measurement will be erroneously high due to reflux of injectate within introducer
- Transduce Proximal Injectate Lumen – proper waveform is RA or SVC



PA Distal Port

- Transduce distal lumen – proper waveform is PA



Thermistor

- 4 cm from tip
- In main body of PA

Thermal Filament

- 14 – 25 cm from tip
- Rests between RA and RV
- Should be free floating and avoid endocardial surface
- Erroneous CCO measurements may result if beyond pulmonic valve

Note: Assess patient physiology. Atypical physiology and heart size may require special handling.

Computation Constants required for Bolus Cardiac Output only

For use with both temperature probes

CATHETER MODELS		774F75, 774HF75		777F8, 777HF8
INJECTATE TEMP	INJECTATE VOLUME (ML)	COMPUTATION CONSTANT (CC)		
0 – 5° C	10	0.564		0.550
	5	0.257		0.256
19 – 22° C	10	0.582		0.585
	5	0.277		0.282
23 – 25° C	10	0.594		0.600
	5	0.283		0.292

Computation Constants for CO-Set+ Delivery System

6 – 12° C	10	0.574	0.559
8 – 16° C	5	0.287	0.263
18 – 25° C	10	0.595	0.602
	5	0.298	0.295



Edwards

Troubleshooting for Edwards Vigilance VGSV or CEDV Monitor



PROBLEM OR DISPLAYED MESSAGE	POSSIBLE CAUSE	SUGGESTED ACTION
"Alert CEDV: Signal Adapting – Continuing" message	<ul style="list-style-type: none"> • Patient's respiratory pattern may have changed • Use of some types of Sequential Compression Devices (SCDs) 	<ul style="list-style-type: none"> • Allow more time for the monitor to measure and display EDV • Turn SCD cooling system off temporarily
"Alert CEDV: Heart Rate Signal Loss" message	<ul style="list-style-type: none"> • Average patient's heart rate is out-of-range (HR < 40 bpm or HR > 170 bpm [or 150 bpm for software ver. 6.0]) • No Heart rate detected • Loose slave cable connection 	<ul style="list-style-type: none"> • Wait until average heart rate is within range • Verify slave cable connections between Vigilance monitor and bedside monitor
"Alert CEDV: Exceeding HR Threshold Limit" message (software ver. ≥ 6.2)	<ul style="list-style-type: none"> • Patient's time-averaged heart rate is greater than 150 bpm but less than or equal to 170 bpm 	<ul style="list-style-type: none"> • Verify average HR values • Follow standard hospital protocol for reducing patient's HR below 150 bpm
"Alert CEDV: Irregular ECG Pattern" message (Software ver. ≥ 6.2)	<ul style="list-style-type: none"> • Physiologic change in patient's status • Unsecured leads / connections of the ECG Signal • Double sensing due to atrial or atrial-ventricular (AV) pacing 	<ul style="list-style-type: none"> • Follow standard hospital protocol • Re-position leads or reconnect ECG slave cable if necessary • Re-position reference lead to minimize atrial spike sensing. • Select appropriate lead configuration to maximize HR triggers and minimize atrial spike sensing • Assess appropriateness of milliamperage (mA) pacing levels
No CEDV value with Heart Rate (HR) slaved and CCO displayed	<ul style="list-style-type: none"> • Non-CEDV catheter being used • Incorrect ECG slave cable 	<ul style="list-style-type: none"> • Verify Edwards CEDV catheter is being used • Verify correct ECG slave cable is being used
Vigilance Monitor Heart Rate (HR) does not match bedside monitor	<ul style="list-style-type: none"> • Heart rate is averaged when CCO is on 	<ul style="list-style-type: none"> • Temporarily turn off CCO, wait a minimum of 10 seconds and verify HR correlates with bedside monitor
CEDV not trending on graph	<ul style="list-style-type: none"> • CEDV graph not enabled 	<ul style="list-style-type: none"> • Enable CEDV on graph: <ul style="list-style-type: none"> - Press TREND - Press SELECT GRAPH - Press Graph 1, 2 or 3 to turn on EDV
EF, EDV, EDVI, ESV and ESVI on Patient Data screen are blank when CALC is pressed	<ul style="list-style-type: none"> • Manual heart rate data entry overrides auto calculation (denoted by asterisk next to HR on Patient Data screen) 	<ul style="list-style-type: none"> • Clear manual heart rate data: <ul style="list-style-type: none"> - Press EDIT - CURSOR to asterisked Heart Rate data - Press CLEAR - Press CALC

If problem persists, call
Edwards Technical Support
 at 1.800.822.9837
 (US and Canada) or
 949.250.2222



See instructions for use for full prescribing information. Caution: Federal (USA) law restricts this device to sale by or on the order of a physician.

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