



**3 3/8" Product Line**

**Compensated Neutron**

The Compensated Neutron instrument works with an Americium Beryllium source and two detectors. The source emits high-energy neutrons, which undergo scattering in the formation, lose energy and produce gamma rays. The thermal neutrons are measured by the two detectors in the tool. The tool can be run in both open and cased holes and in most types of mud. In order to minimize the borehole effects, the tool is run decentralized.

Specifications			
Diameter:	92 mm	(3.62")	Source Type: <sup>241</sup> AmBe
Length:	2301 mm	(90.6")	
Weight:	57 kg	(126 lbs)	Detector Type: <sup>3</sup> He No of Detectors: 2
Max. Temp:	175°C	(350°F)	
Max. Pressure:	140 MPa	(20 000 psi)	Measure Point (from bottom): Short Space: 854 mm (33.6") Long Space: 1111 mm (43.7")
Telemetry required:	yes		
Top Connector:	yes		
Bottom Connector:	yes		

Measuring Parameters	
<u>Measuring Range:</u>	0 - 100 pu
<u>Accuracy:</u>	± 1 pu (between 0 -10 pu) ± 7% of recorded value (above 10 pu)

Logging Parameters			
Recommended		Recommended	
Min. Hole Diameter:	125 mm (4.9")	Logging Speed:	6 m/min* (1200 ft/hr)
Max. Hole Diameter:	410 mm (16.1")	Sample Rate:	selectable
Min. Casing ID:	114 mm (4.5")		

Displayed Standard Curves	
CN in pu	Uncorrected Porosity (1 pu = 1 %) in limestone matrix
CNCM in pu	CN Porosity, corrected for caliper, salinity, mud weight and matrix

**Combinability**  
With all other 3 3/8" instruments

