



Precise caloric stimulation with the convenience of air

Controlled - air stream directed with an otoscopic head

Fast - stable temperature reached quickly

Safe - designed with electrical and thermal protection

Can be integrated with the computer-based ICS CHARTR VNG/ENG systems

Air Caloric Stimulator

A convenient alternative to caloric stimulation with water, the ICS NCA-200 provides precise caloric stimuli for vestibular testing with speed, safety and low maintenance.

Precise caloric testing with speed, control and repeatability

The caloric test forms the key element in the VNG/ENG test battery with the requirement that the stimulus delivered to each ear be exactly the same.

The NCA-200 delivers a continuous flow of air. For precision, the temperature is controlled at the tip of the delivery tube ensuring repeatability of the amount of heat transferred. The lighted otoscopic head enables you to direct the flow of air straight at the tympanic membrane for effective irrigations. Only GN Otometrics offers this feature.

Convenience

- The NCA-200 stabilizes at the desired temperature within one minute of start-up. A digital display shows the temperature of the air stream and provides an indication if the temperature of the air being delivered is different from what is set.
- A button on the delivery head or the footswitch starts timing the stimulation.
- With a CHARTR system connected, the timer is initiated together with the tracing and can be remotely centered.
- There is no tank to fill or clean. There is no water to catch during irrigations. The air pump is built-in.

Safety

- Air stimulation avoids the dangers of irrigating an ear with a perforated tympanic membrane.
- Over-temperature circuitry disables the NCA-200 if the air is too warm.
- Failsafe circuits protect against the loss of temperature-sensing capability.

Integration with computer-based ICS CHARTR VNG/ENG system

Only GN Otometrics offers integration of the caloric stimulation function with our computer-based VNG (Videonystagmography) and ENG (electronystagmography) systems. The program remotely selects the required warm or cool temperature. Test initiation simultaneously starts the recording and the caloric stimulus. In addition, remote controls can center the recording (ENG) or remotely start a digital video recording (VNG).

Technical specifications:

Temperature range:	12o to 50oC
Temperature readout:	Digital
Temperature accuracy:	± 0.3oC
Time range:	1 - 99 seconds
Flow rate range:	4 - 10 LPM
Capability to control	
by computer:	Standard
Input power:	120/240 VAC @ 50/60 Hz 5 A @ 120 VAC, 2.5 A @ 240 VAC (max.)
Safety features:	Primary temperature read-out Separate over-temperature cutoff
Stimulus timing activation:	Switch on delivery head or footswitch
Size (W x D x H):	14 x 17.5 x 7.8 inches 35 x 44 x 20 centimeters
Weight:	43lbs. 20kg.



GN Otometrics

GN Otometrics is the world's leading manufacturer of hearing and balance instrumentation and software – innovative concepts designed to help healthcare professionals make the best possible decisions. Our solutions range from infant-screening applications, audiologic diagnostics, and office management software, to balance testing and hearing-aid fitting.

Based in Copenhagen, Denmark, we maintain marketing and development centers in both the United States and Germany. GN Otometrics is part of GN.