

Tecotherm Neo

Therapeutic Hypothermia



Tecotherm Neo

Total Body Cooling

Profile

Total Body Cooling for babies suffering from Hypoxic Ischaemic Encephalopathy (HIE) after Birth Asphyxia has become more common in recent years especially following the publication of major studies. The original Tecotherm was used in studies in Europe that showed a successful outcome for certain infants. Now building on from that success, the Tecotherm Neo takes Total Body Cooling to the next level.

The innovative servo controlled design has instant feedback monitoring the infant's temperature every 2 seconds and making minute changes to the cooling fluid to ensure that the infant's temperature remains stable. Simple alarms are on hand should the temperature deviate more than 0.5° C from the set temperature. The large colour display shows the temperature clearly and colour changes alert nursing staff to any problem.

The Tecotherm Neo can be programmed for a complete treatment cycle, the user can set the target temperatures, duration and even the rate of re-warming / cooling making it easy and simple to set up and use. Changes can be made at any time and all changes, set and measured parameters are recorded on to a memory card every minute for later analysis.





Modes of Operation

The Tecotherm Neo has 3 modes of operation:

Servo-Control Complete Treatment Mode

Clinician can set the duration of cooling, the rate of rewarming as well as the target temperature, the Tecotherm Neo will complete the whole cycle without interruption.

Servo-Control Mode (Constant Rectal Temperature)

The Tecotherm Neo maintains the temperature that the Clinician has set via the rectal temperature probe. Rate of change can also be set to allow even re-warming and cooling.

Constant Mattress Temperature Mode

No Servo Control, useful for research work and where control of the mattress needs to be stable, or where experienced staff are available to monitor the patient.

Features

3 modes of operation for maximum flexibility in use

Clinician can set and adjust parameters at the start and throughout treatment

Data storage for allowing simple analysis of temperature profiles

USB output

Large colour screen is easy to see across the room

Small / Lightweight portable device

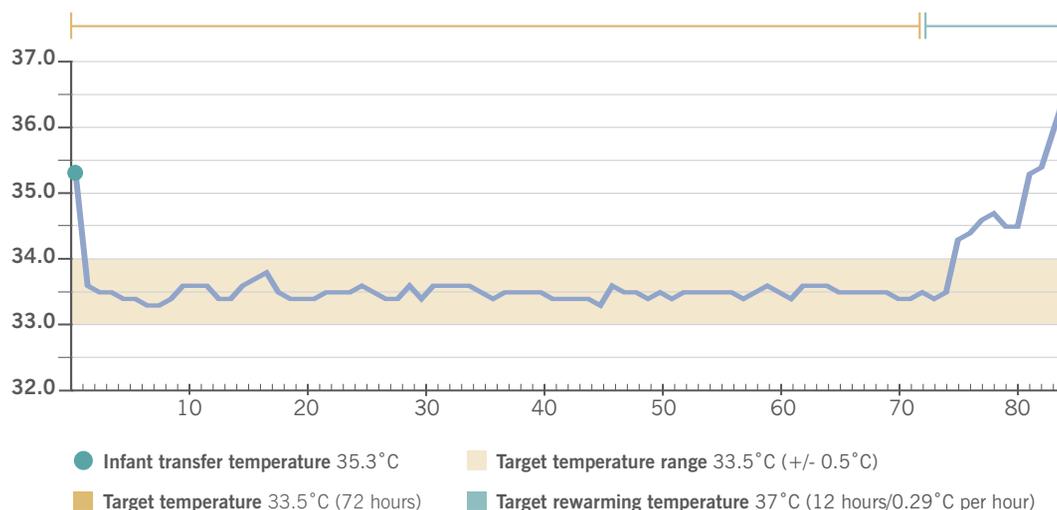
Internal battery restarts from same settings in event of power failure

Maintains normothermia after rewarming

Compatible with reusable or disposable accessories

Optional use of skin probes

Example of patient data collected from Tecotherm Neo



Technical Specification

Dimensions:	H 210 mm, W 373 mm, D 310 mm
Weight:	7.2 kg (Reservoir full) 6.95 kg (Reservoir empty)
Screen resolution:	640 x 480 pixels
Electrical power consumption:	1.5 A/ 230 VAC 3.1 A/ 110 VAC Max. 345 W
Noise output:	54 – 54.5 dB Mean Value 1 m Distance
Fluid capacity:	250 ml (Inner Tank) 500 ml (Fill Up Set)
Fluid active ingredients:	Ethyl alcohol (Ethanol), Methyl Ethyl Ketone (MEK)
Minimum fluid temperature:	12 °C
Maximum fluid temperature:	39 °C
Maximum patient weight:	50 kg For larger patients please contact your local representative
Data storage capacity:	2 GB (50,000 hours) All set and measured parameters