

SAANS

Comprehensive neonatal/pediatric non-invasive breathing support solution for hospital and transport settings



Winner

MIT Solve Global Health Challenge by MIT Boston 2024



INNACCEL
An ISO13485 Certified Company

Saans can be used in all clinical and transport settings



CPAP or HFNC Therapy in
NICU or PICU



Labor Room CPAP or
Resuscitation



Intra Hospital Transport
(e.g., from Labor Room to
NICU)



Inter Hospital Transport



The development of Saans was supported by grants from the following partners



Multiple therapy modes with accurate setting and measurement of parameters



Bubble CPAP



Nasal CPAP



HFNC



Resuscitation

Infrastructure independent for easy integration into hospitals



In-built air source / flow generator



In-built battery (upto 6 hours)



In-built air-oxygen blending with 21% - 100% FiO2 range



Compatible with high- and low-pressure oxygen sources (central O2 line, cylinder, and concentrator)

Ease of Use



Sensor-based digital control and monitoring of Flow, FiO2, Pressure



Advanced safety alarms including leakage, blockage, and out of range parameters



8-inch display and simple single knob operation

Product Awards and Recognition



WHO Innovative Health Technologies Compendium



Winner, PHC Tech Challenge



Winner, MIT Solve



Winner, Commonwealth Innovation Award



The National Award for Technology Startups

Technical Specifications

Operating Modes	nCPAP, bCPAP, HFNC, Resuscitation
nCPAP	Pressure range : 2 to 12 cmH ₂ O Accuracy : ± 1 cmH ₂ O
bCPAP	Flow-setting range: 2 to 15 LPM Pressure-setting range: 3 to 10 cmH ₂ O; set through external bubble jar Accuracy : ± 1 cmH ₂ O
HFNC	Flow-setting range: 2 to 60 LPM Accuracy: ± 2 LPM
Resuscitation	PEEP : 2 to 10 cmH ₂ O PIP: 5 to 30 cmH ₂ O
Main Unit Dimension	219 x 212 x 306 mm
Product Weight	~4 kg
Input Gas Supply (O ₂)	0.3 to 4 Bar
Display	8" Color
User Interface	Single knob with button
Working Voltage	110 to 230 V & 50/60 Hz
Power Consumption	36 W
Internal Battery	DC 7.4 V, 20 Ah, Li-ion Battery Pack; upto 6 hrs run time, rechargeable
Oxygen Control	FiO ₂ -setting range: 21 to 100% Accuracy: $\pm 2\%$
Pressure Safety Cut-off	Digital safety cutoff at 12 cmH ₂ O Internal safety valve
Patient Population	CPAP / Resuscitation (neonatal and paediatric) HFNC (neonatal, pediatric, and adult)
Storage Conditions	0 to 50° C
Unit Mounting	Trolley, Handheld
Application	Medical use, Hospitals & Transport

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