

SAANS

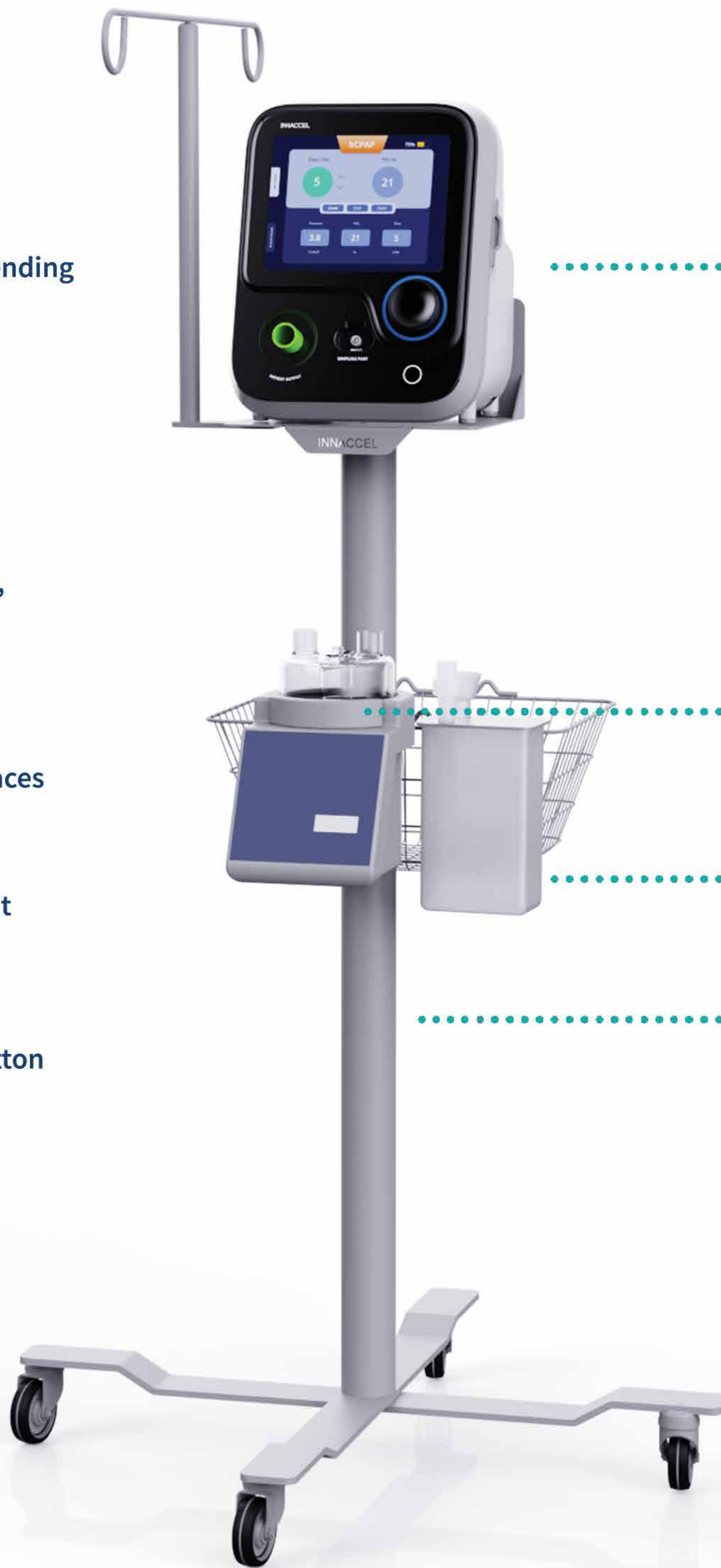
Neonatal & Pediatric CPAP + HFNC system
for all clinical settings, including transport



Winner
WHO Innovative Health
Technologies Compendium 2022

Product Features

1. In-built flow generator and blending (21%-100% air-O₂ mix)
2. Built-in battery (upto 6 hours)
3. Dynamic digital pressure, flow, and FiO₂ control & monitoring
4. Compatible with all standard humidifiers and patient interfaces (nasal prongs/masks)
5. Safety alarms including patient disconnection, pressure, flow, and FiO₂
6. 8 inch display; Single knob button controls



.....○ Saans Main Unit

.....○ Humidifier

.....○ Bubble Jar

.....○ Trolley

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



Multiple therapy modes

1. Neonatal CPAP (bCPAP, nCPAP)
2. Pediatric CPAP
3. Neonatal HFNC
4. Pediatric HFNC

SAANS enables accurate setting and measurement of pressure, flow, and FiO₂ digitally

Compatible with



Standard Patient Interfaces
(e.g., Ram's cannula, nasal prongs)



Wall Mount / Central O₂ line



All Standard Humidifiers

SAANS easily integrates with existing hospital equipment

Ease of use



Transport-friendly
with Battery



Suitable for Low
Resource Settings



Minimal Training Required



Built-in Safety Alarms

SAANS has broader use capabilities compared to existing devices

Saans can be used in all clinical settings, including transport

1. CPAP or HFNC Therapy in NICU, PICU, or SNCU
2. Labor Room CPAP
3. Intra Hospital Transport (e.g., from Labor Room to NICU)
4. Inter Hospital Transport (e.g., in Ambulance or Private Vehicles)

Product Awards



WHO Innovative Health
Technologies Compendium



Winner, PATH PHC
Tech Challenge



Winner, IShow: ASME
(American Society of
Mechanical Engineers)



Winner, Commonwealth
Innovation Award



Showcased at Department
of Global Health, Harvard
Medical School

Technical Specifications

Operating Modes	nCPAP, bCPAP, HFNC
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
Main Unit Dimension	219 x 212 x 306 mm
Product Weight	~ 4 kg
Input Gas Supply (O ₂)	2 to 4 bar
Display	8" Color
User Interface	Single knob with button
Working Voltage	110-230 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: ±5%
Pressure Safety Cut-off	40 CmH ₂ O
Patient Population	Neonates & Pediatric
Storage Conditions	0 to 50° C
Unit Mounting	Trolley, Ambulance, Handheld
Application	Medical use, Hospitals, Transport



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