

# SAANS

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

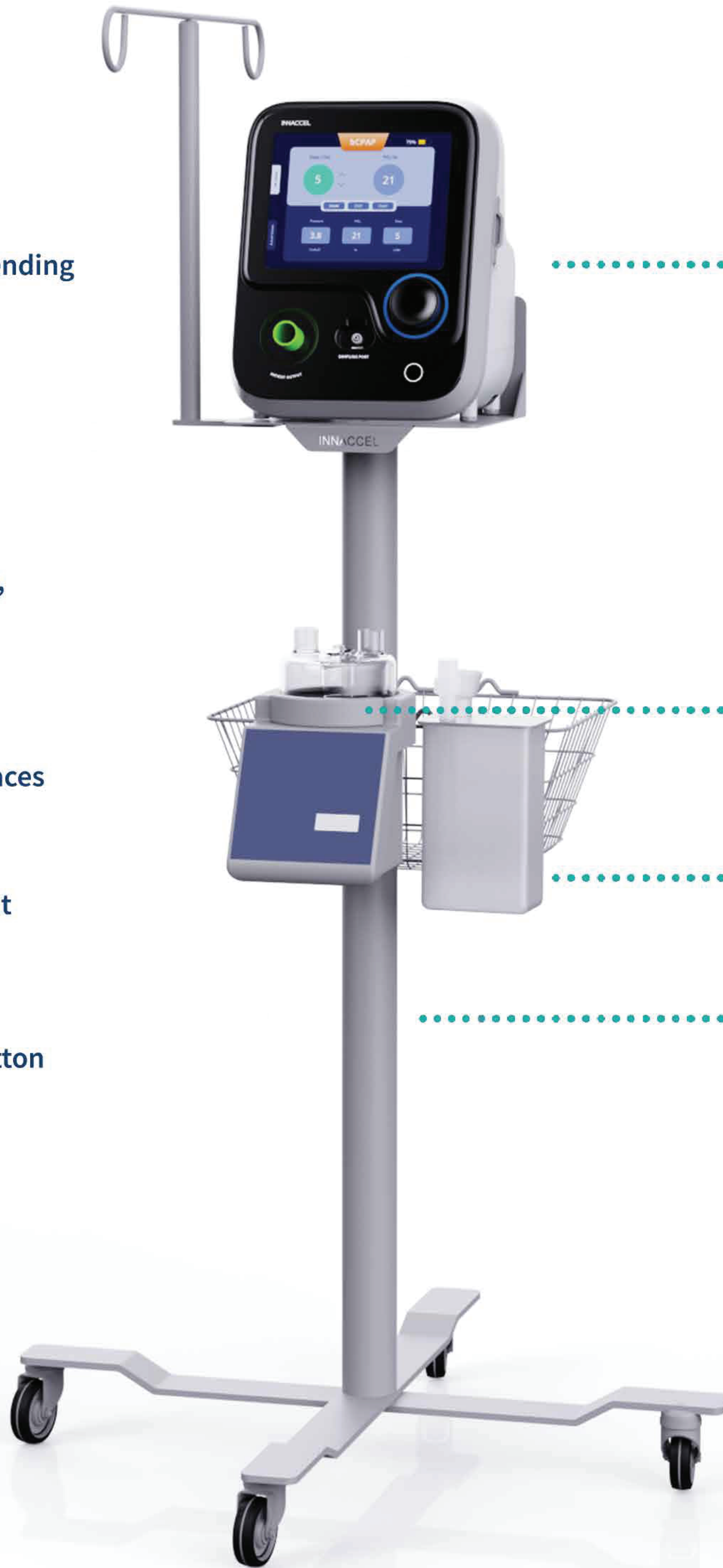


**Winner**  
**WHO Innovative Health**  
**Technologies Compendium 2022**



# Product Features

1. In-built flow generator and blending (21%-100% air-O<sub>2</sub> mix)
2. Built-in battery (upto 6 hours)
3. Dynamic digital pressure, flow, and FiO<sub>2</sub> control & monitoring
4. Compatible with all standard humidifiers and patient interfaces (nasal prongs/masks)
5. Safety alarms including patient disconnection, pressure, flow, and FiO<sub>2</sub>
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 FiO<sub>2</sub> digitally**

## Compatible with



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



Wall Mount / Central O<sub>2</sub> line



All Standard Humidifiers

**SAANS easily integrates with existing hospital equipment**

## Ease of use



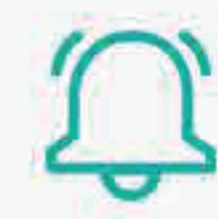
Transport-friendly  
with Battery



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

**PATH**  
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Winner, PATH PHC  
Tech Challenge

**ASME**  
American Society of Mechanical Engineers

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

THE COMMONWEALTH  
INNOVATION HUB

Winner, Commonwealth  
Innovation Award

**HARVARD**  
MEDICAL SCHOOL

Showcased at Department  
of Global Health, Harvard  
Medical School



# Technical Specifications

Operating Modes	nCPAP, bCPAP, HFNC
nCPAP	Pressure range: 2 to 12 CmH <sub>2</sub> O Accuracy: ± 1 CmH <sub>2</sub> O
bCPAP	Flow-setting range: 2 to 15 LPM Pressure-setting range: 3 to 10 CmH <sub>2</sub> O; set through external bubble jar Accuracy: ± 1 CmH <sub>2</sub> 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 <sub>2</sub> )	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 <sub>2</sub> setting range: 21 to 100% Accuracy: ±5%
Pressure Safety Cut-off	40 CmH <sub>2</sub> O
Patient Population	Neonates & Pediatric
Storage Conditions	0 to 50° C
Unit Mounting	Trolley, Ambulance, Handheld
Application	Medical use, Hospitals, Transport

## InnAccel Technologies

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