iCALTECH Innovations Pvt. Ltd

PRESENTS

antlia Pro®

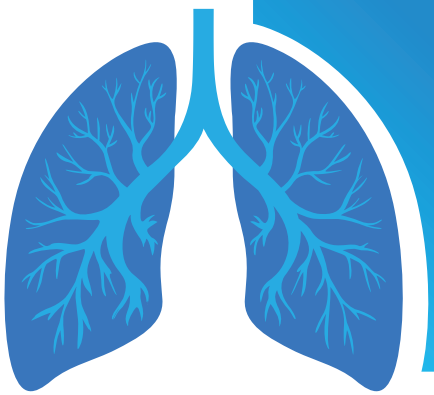
Pulmonary function test device

Based on Forced Oscillation Technique

Delivering Accurate Results, Enabling Improved Outcomes

MAKE IN INDIA

Making
PULMONARY FUNCTION TESTS
Simple and Precise



Lung Oscillometry

The Future of Lung Function Testing

What is Lung Oscillometry

A lung function test that measures the mechanical properties of the lungs

Principle of the test

Measuring the overall impedance (resistance) of the respiratory system by superimposing artificially-generated oscillatory pressure waves to a patient's tidal breathing

What does it measure

1. Resistance: The Frictional force offered by the walls of the airways & parenchyma when a sound wave is passed through it
2. Reactance: Elastic property of the alveoli and the force offered by the functional residual capacity present in the airways

Applications

1. Diagnosis and Monitoring of Obstructive Airway Disease: Asthma, COPD, Small Airway Diseases
2. Diagnosis and Monitoring of Restrictive Lung Diseases: ILD
3. Post surgery/transplant, critical care and environmental/occupational exposures
4. Various other Lung conditions which are in the phase of research

Advantages

1. Simple tidal breathing/effort independent
2. Zero contraindications
3. Wide age group for conducting test

Choose the best for your **practice**

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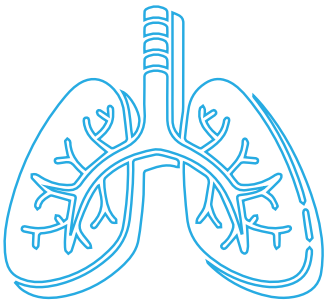
Uses Pseudo-Random Prime Number Frequencies.

Top features

Get a detailed picture of the lungs

1. Complete lung health – Precise treatments for patients
2. Intra-Breath Analysis for Detailed Respiratory Insights – Early diagnosis and Time Course of the disease
3. Uncover Small Airway Disease - Respiratory Mechanics Info at Your Fingertips



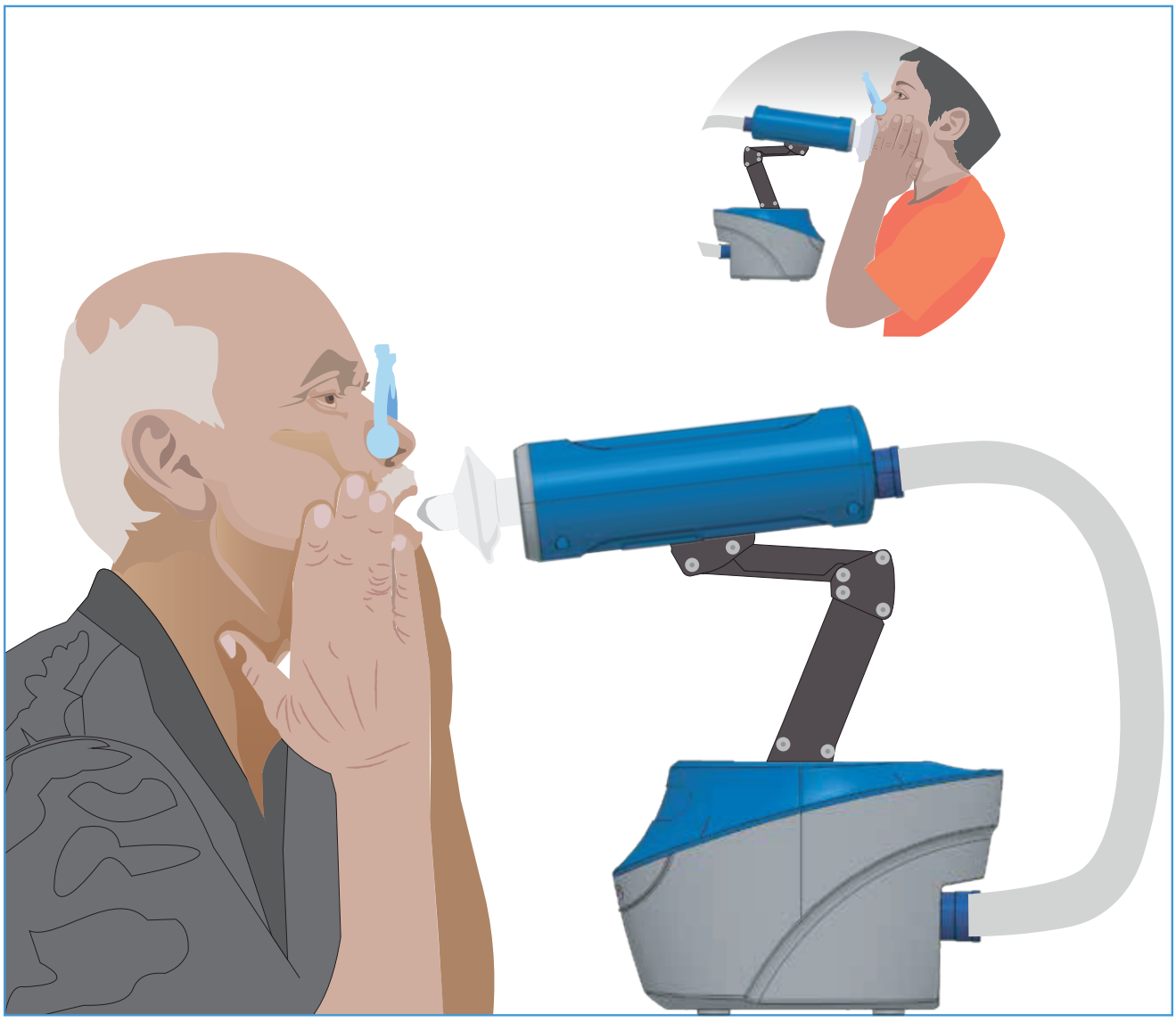
Suitable for all your patients

1. Simple Tidal Breathing - No Hassle for patient
2. Customized Cut-off Values for Indian Population, both adults and paediatric age groups
3. Wide Frequency Range for Comprehensive Analysis - Covers All Age Groups

Device made for you

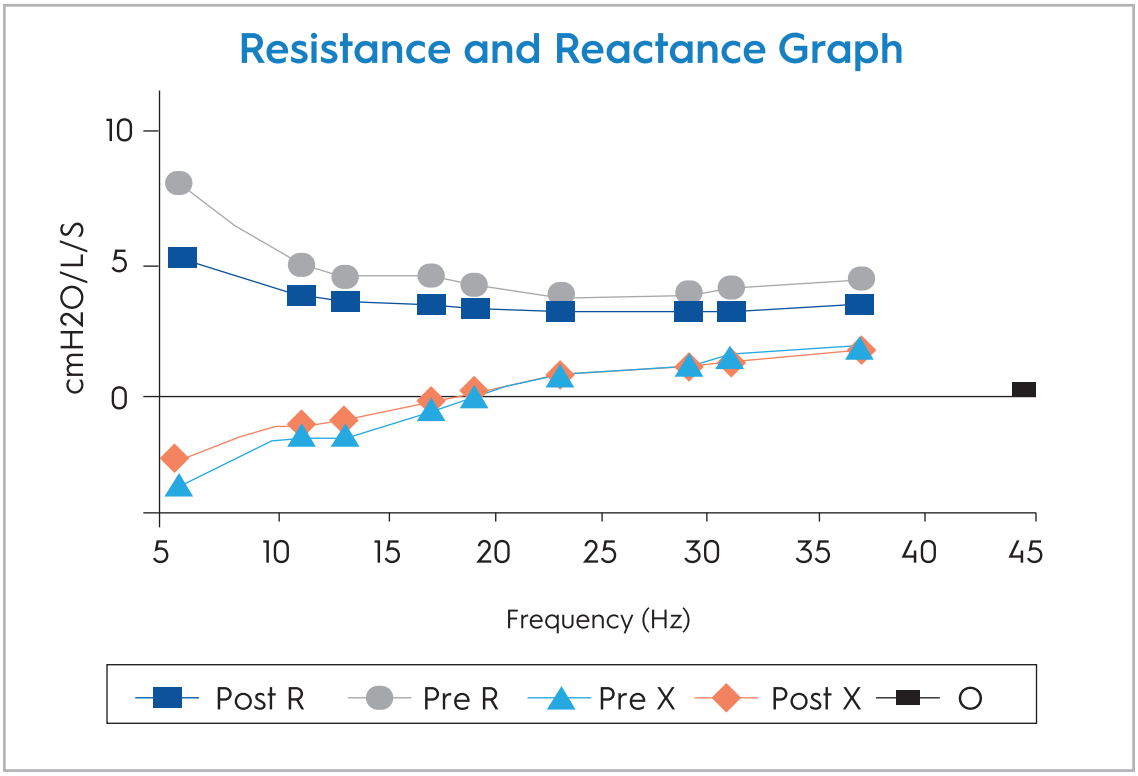
1. Quick Results in Minutes - Fast and Efficient
2. Portable and Lightweight - Take It Anywhere -
3. Daily Self Calibration as per ATS Standards - Stay Calibrated with Ease

Wide range of patients and lung conditions covered with no contraindications!



Frequencies from 5Hz to 37Hz enables easy diagnosis for all your patients

Graphs and Parameters



Parameter	Description
Z	Overall Airway Impedance at 5 and 19 Hz
R	Airway Resistance at 5 and 19 Hz
X	Reactance at 5 and 19Hz
Ax	Area of Reactance
Fres	Resonant Frequency

Parameter	Description
Vt	Tidal Volume
R/X ins and exp	End inspiration and expiration R and X (intra-breath parameters)
T ins and exp	Inspiratory and expiratory time
CoV	Coefficient of variability at R5 and Z5
RR	Respiratory Rate

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To get in touch with the Cipla Devices Team and if you wish to purchase the device, kindly scan the QR code given below

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