

The world's 1st intelligent, digital,
hand-held respiratory muscle training,
assessment and monitoring device

KH2

WITH

BREATHELINK™
MEDIC • LIVE FEEDBACK SOFTWARE



POWERbreathe®
the world's no.1 breathing trainerSM

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Includes MIP and PIF test functions to collect patient data for baseline and outcome measures

Uses Unique 'Auto Optimising' RMT/IMT Technology which adapts the training resistance to the user's personal inspiratory muscle capabilities

The NEW POWERbreathe KH2 includes several innovative features including MIP and PIF test functions, allowing practitioners to collect patients training data via the portable hand held KH2 device. The advanced KH2 model allows the results to be viewed in real-time using the revolutionary Breathe-Link Medic software. Development of the POWERbreathe K-Series advanced electronically controlled valve allows average load, power and inhaled volume to be viewed instantly.

The POWERbreathe KH2 is the ultimate device for testing, monitoring and analysing any Respiratory Muscle Training programme.

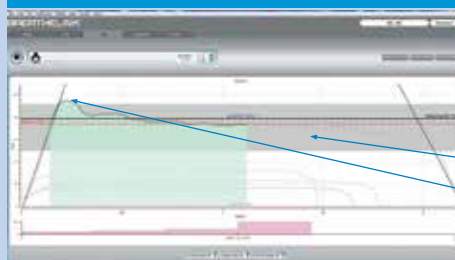


KH2 Features



Test Modes

MIP Test with Breathe-Link Medic Software



Maximum Inspiratory Pressure (MIP) test. A test that measures the strength of the muscles used in breathing.

Real-time / Live feedback provides healthcare professionals detailed analysis of each breath to help respiratory and pulmonary rehabilitation assessment.

Predicted Normal Value Band.

Highest One Second Average is your MIP score for the current breath.

S-Index / PIF Test Live Session



Strength index is a measure of the patient's inspiratory muscle strength, based on the relationship between pressure and flow.

PIF (Flow) is a measure of the maximum rate at which the patient can inhale air into their lungs.

This measurement is based upon the maximum measured flow rate during the test breath, which gives an indication of the speed at which the patient's inspiratory muscles contract.

Breath by Breath Graphical bars

New feature* - To ensure accurate and repeatable MIP results, the POWERbreathe KH2 Breathe-Link Medic software has introduced the QC MIP mechanism.

The maximum 1 second average value of 3 manoeuvres that vary by less than 20% is recorded.

Test Results

MIP Test Results with Breathe-Link Medic Software



Results Level 1

Multi-Level Analytic Review System to Monitor patient progress and help assess Respiratory Muscle Conditions

Level 1: Session by Session graphical view of historical tests performed with the KH2 unit.

*QC MIP**

Average pressure for the session

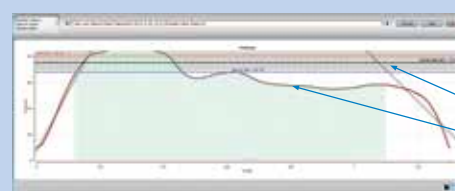


Results Level 2

Breath by Breath detail of test performed is recorded allowing healthcare professionals the ability to identify trends and improvements.

MIP result for each breath.

Average pressure for each breath.



Results Level 3

Individual breaths in a session can be assessed.

Predicted Normal Value Band

Highest one second average is the MIP score for the current breath.

Live Training Modes

Breathe-Link Medic Basic View Live

Graphical view of major respiratory breathing parameters to easily assess and encourage patient training performance. The goal is to maximise training performance against personal bests set. Proven to increase user compliance of training regime.



Real-Time Histograms showing average Power

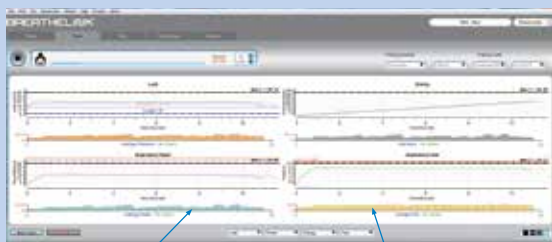
Real-Time Histograms showing average Volume

Breathe-Link Medic Professional View Live

Professional view of major respiratory breathing parameters to easily assess and encourage the patient's training performance.

Analyse a training session breath by breath in real-time.

Major breath parameters are plotted in real-time which include Power, Energy, Pressure and Flow.



Real-Time Histograms showing average Power

Real-Time Histograms showing average Volume

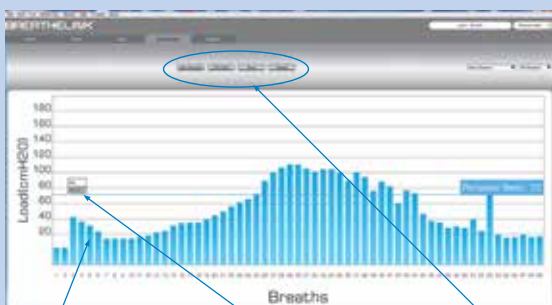
Custom Training

Simple Click and Drag System

Breathe-Link Medic Software offers a simple, easy to use, interactive environment which allows you to adjust the setting for each breath by simply clicking and dragging the bars on screen.

Allows professionals to create personalised training sessions to optimise patient training.

Flexibility to change the patient's training load for each individual breath.



Click and drag required load setting

Manual input load setting

Control Panel

Training Results

Train Results Level 1 – Session Detail



Multiple parameters displayed as histograms

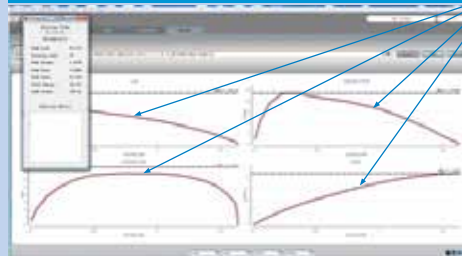
Train Results Level 2 – Breath by Breath Detail



Multiple parameters displayed as histograms

Interactive environment

Train Results Level 3 – Individual Breath Detail



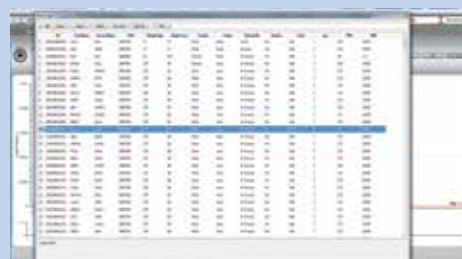
Linear graphs of major respiratory parameters for every breath within a session.

Healthcare professionals have the ability to assess in detail respiratory changes that can affect patients breathing.

Patient Data

Breathe-Link Medic Patient Lists

Integrated patient view showing all registered patients on the Breathe-Link Medic software. The Patient View master control panel allows you to easily access and navigate patients RMT/IMT training data.



CSV (Comma Separated Values) file can be generated allowing easy integration to excel and other spreadsheet applications. Additional features include sort, search (second name only), edit, add and export/import user data in one localised window.

Breathe-Link Medic Patient Lists



Advanced Personalised Variable Load Training

The patented POWERbreathe KH-Series has an electronically controlled resistance valve, that provides variable pressure threshold resistance, optimised to match the strength profile of the inspiratory muscles for maximum training effectiveness.

Training Features:



Auto IMT:

The POWERbreathe KH-Series Auto-optimising Inspiratory Muscle Training system automatically adapts to the patients personal training requirements.



Manual Training Intensity:

This training intensity adjustment option allows resistance to be manually set from 5 to 200cm H₂O to suit the patients personal training requirements.



Training Guidance:

The KH-Series training guidance system provides breathing pacing guidance, displays the number of breaths remaining in a training session and informs you when the session is complete.



Endurance Programme

Allows up to 150 breaths training stimulus to the respiratory / inspiratory muscles.

Training Feedback and Testing Features:



Training Results: Provides detailed breathing training feedback including Load (cmH₂O), Power (Watts) and Inhaled Volume (Litres).



Strength Index (S-Index):

Calculates the patients inspiratory muscle strength (cmH₂O) based upon their peak inspiratory flow. Strength index is rated in comparison with their predicted value.



Respiratory Muscle Testing (RMT):

Maximum Inspiratory Pressure and Peak Inspiratory Flow tests for inspiratory muscle assessment.

Standard Features:



Washable Valve:

The KH-Series valve head can be removed for cleaning using POWERbreathe Cleansing Tablets. Alternatively, it is recommended that each patient has use of their own valve head.



Rechargeable:

Rechargeable power system with auto power-off and charge level indicator.

Breathe-Link Medic Features:



Breathe-Link Medic Software:

PC connectivity via USB enables real time training and performance testing. Select specific training and testing parameters and then assess inspiratory muscle condition, training progress and try and beat previous scores.



Breathe-Link Medic Custom:

Allows you to create and upload patients personalised breathing training sessions.



Breathe-Link Medic Pro-View:

Allows advanced, detailed, simultaneous plotting and analysis of all inspiratory muscle training data.

KH-Series Health Features:



Multi-user Filter Option:

Unique spacer which allows the connection of POWERbreathe TrySafe™ filters for effective filtration of bacteria and viruses. Offers exceptional protection against cross infection.

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