



A breath of fresh air



"This is amazing - this would revolutionise my life."



"It's so light, it's extraordinary."

"I hadn't realised this sort of thing was possible."



"This is something I wouldn't be embarrassed to be seen using."

"I love being able to see the controls so easily."

"I could be really independent at last."



Statements from oxygen-using patients with COPD -
collected by Elisabeth Arnold (Research Fellow) and
Dr Anne Bruton (Reader in Respiratory Rehabilitation),
University of Southampton.



IOS® - an innovation in oxygen therapy.

**Luxfer Gas Cylinders
is proud to introduce
IOS® (Intelligent Oxygen
System), incorporating
patented SmartFlow®
technology, to its
extensive range of
aluminium and
composite medical
products.**



IOS® provides up to eight hours of oxygen therapy when used with a conserving device.

Ergonomically designed with input from clinicians, homecare patients and ambulatory oxygen users, IOS® sets a new standard in respiratory care.

IOS® was developed with the valuable cooperation of BOC Ltd.
*BOC Ltd is a member of The Linde Group,
a world leading gases and engineering company.*

**BOC**
A Member of The Linde Group

IOS® development was co-funded by the UK Department of Health, led by Luxfer in partnership with the University of Southampton.

 **Department
of Health**

UNIVERSITY OF
Southampton


Luxfer.
Gas Cylinders

Integrated, functional and discreet, IOS® encour

IOS® - developed with patients in mind



This highly integrated system is both functional and discreet, providing more reliable and effective therapy whilst encouraging active social lives and improving patients' overall quality of life.

The combination of Luxfer's patented SmartFlow® technology, patented L7X® higher-strength aluminium alloy and full-wrap composite cylinder technology results in a compact, lightweight package that is both aesthetically attractive and convenient to use.

Patient-focused innovation:
ergonomically designed with simple controls

Contemporary design:
aesthetically pleasing and easy to care for

User friendly:
provides greater patient confidence

SmartFlow® - The inside story

IOS® is the first product to feature Luxfer Gas Cylinders' revolutionary patented SmartFlow® technology.

SmartFlow® provides excellent flow rate stability, with dependable output at any set pressure and any supply pressure.

Output stability from 300 bar to set pressure in a single stage allows near-complete use of the cylinder contents and a reduced fill requirement.



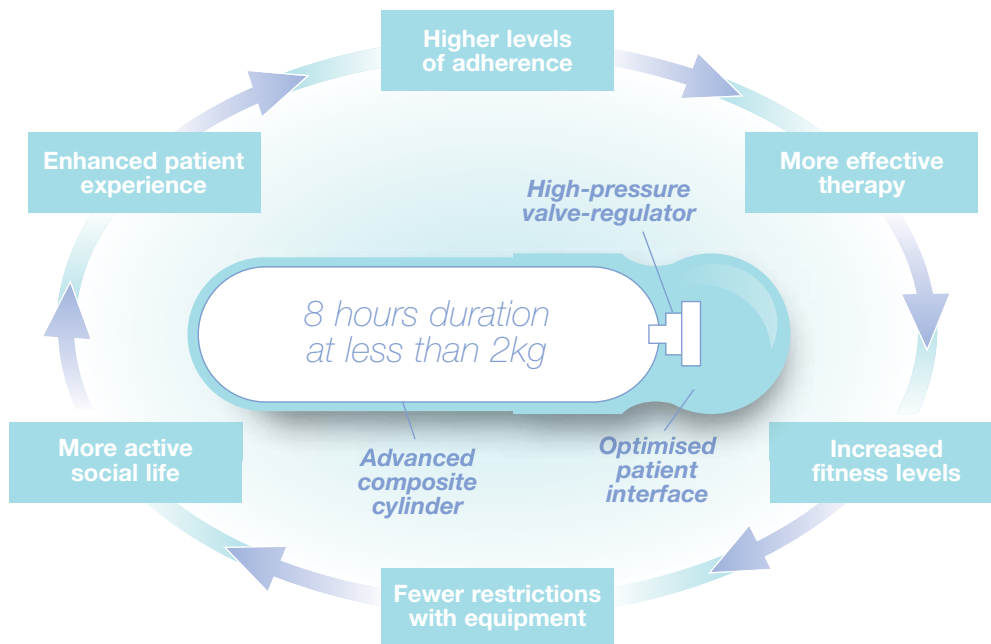
Improved portability:
ultra-lightweight carbon composite cylinder incorporating Luxfer's patented L7X® aluminium alloy

More useable Oxygen:
enabled by patented SmartFlow® technology



enables a more active lifestyle for COPD patients.

Patient-centred ergonomic system design



With more than 40 million cylinders in service, Luxfer Gas Cylinders is the world leader in the development, manufacture and supply of seamless, extruded aluminium and composite high-pressure cylinders for major global markets, including medical oxygen, life support, beverage, fire, and speciality gases.



The University of Southampton is an innovative university with strong links to the National Health Service and a global reputation for leading-edge research. The School of Health Sciences has a wealth of experience in clinical research - data collected in patient and clinician consultations provided key insights in the development of IOS®.

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