

Spacer chamber for MDIs metered dose inhalers

L'espace



The spacer chamber is indispensable for increasing the efficacy of treatment with all metered dose inhalers.

It prevents impact of the drug with the oropharynx and generates a fine suspension that penetrates right into the respiratory tract.

Use of the spacer is recommended by national and international guidelines on the correct treatment of asthma.

L'espace

More effective treatment, better quality of life!



Air Liquide Medical Systems has **designed, developed** and built a **new spacer chamber** for metered dose inhalers (MDIs) that has opened up new frontiers in terms of quality and efficacy. It is the result of Air Liquide Medical Systems's **dedicated research** aiming to guarantee reliability and safety for patients with respiratory diseases, **offering them a better quality of life.**

Advantages

- Ideal volume → **enhanced suspension and distribution of the atomised drug**
- Innovative truncated-cone shape → **better medicated air flow dynamics**
- Base with variable opening vanes → **easier inhalation**
- Large conical valve → **more drug available for treatment**
- Face mask for paediatric use → **enhanced compliance by children**
- High standard of quality → **more resistant, durable, fully sterilizable and usable anywhere**



Ideal volume and shape

Ideal volume

L'espace reduces the re-aggregation of particles of atomized drug that occurs in smaller versions.

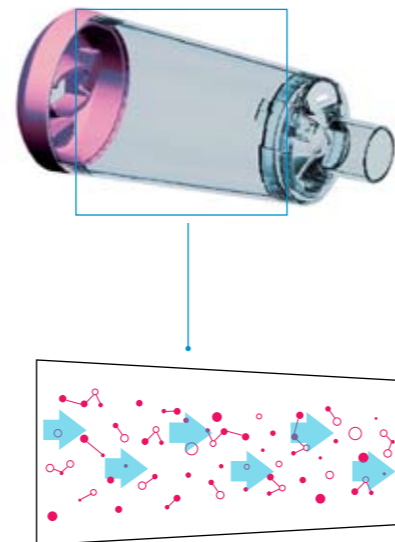
It solves the problem of over-dilution of the drug caused by spacers that are too large.

The ideal volume enhances performance and improves handling and use.

***L'espace*: the high volume ensures better suspension of the atomized drug.**

Innovative truncated-cone shape

The internal flow dynamics provides a larger drug fraction and enhances deposition in the lower airways.



Large conical valve



The new-concept conical valve made of soft silicone:

- reduces drug dispersal during **MDI delivery**
- allows **greater opening** at the same inhalation force
- **increases the available drug fraction.**

Universal vaned base

• The **exclusive base** of *L'espace*'s spacer chamber is comprised of **variable opening vanes that adapt as the patient inhales**, making treatment easier.

• The central coupling is compatible with all MDIs on the market.



Long life and resistance

***L'espace* is made of top-quality materials, with excellent physical and chemical features and biocompatibility.**

• The body and mouthpiece are made of **polycarbonate**; the valves, base and face masks are made of **silicone**.

• These materials guarantee **enhanced resistance and extra-long life.**

Ergonomic face masks for infant and paediatric use

The face masks are **ergonomically designed**, soft, pleasant to the touch and comfortable to use, leading to **enhanced compliance by very young users**.



- **Perfect facial fit and an efficient seal prevent air infiltration** from the side, enhancing the efficacy of the treatment.
- **Face masks used with the L'espace spacer chamber eliminate the need to coordinate inhalation and delivery**, making treatment for children easier.

Ease of use

Exceptional quality, compatibility and a sturdy, ergonomic design combine with the utmost ease of use, allowing the inhaler to be **used anywhere**.



All L'espace models can be disinfected and sterilized in an autoclave at 121°C.

The special base allows connection to any kind of MDI.

All models are packed individually in a sealed box.



Versions available

ADULTS
with face mask **new version!**

PAEDIATRIC
with face mask
2-6 years

INFANT
with face mask
0-2 years

ADULTS
with mouthpiece
>6 years





AIR LIQUIDE MEDICAL SYSTEMS S.p.A.
62, Via dei Prati
25073 Bovezzo (Brescia)
Tel. (+39) 030 2015911
Fax (+39) 030 2098329
www.airliquidemedicalsystems.it
www.airliquidemedicalsystems.com



**As from 1st June 2009 Markos Mefar has become
Air Liquide Medical Systems S.p.A.**



Air Liquide's Healthcare business supplies medical gases & equipment to hospitals, medical services to patients at home and is active in the fight against nosocomial infections. Its 7,800 employees serve 5,000 hospitals and 300,000 patients, on five continents. Air Liquide is the world leader in gases for industry, health and the environment.