



01. NEBU LIZA TION

- 01.A Rhino Clear Range
- 01.B Nebulizer System
- 01.C Nebulizers & Kits**
- 01.D Accessories

01.C Nebulizers & Kits

A wide range of reusable nebulizers designed to provide the most efficient and comfortable aerosol therapy for patients of all ages. From infants to adults, our nebulizers are engineered to meet the unique needs of each individual. Flaem Nebulizers have proven performance, and they are all produced in Italy according to the strictest controls and safety standards. These nebulizers aren't just simple components: they contain many of Flaem's most advanced and finely tuned technologies.



RF9 Nebulizer cup

Select 4 different particle sizes with the patented red selector. The "valve system" optimizes particle size and respirable fraction. Easy to disassemble for perfect cleaning.



RF7 Nebulizer cup

The excellent mix of particle sizes and delivery time. Easily adjust the treatment time through the patented top-button. The "PLUS" version features the "Valve system" so to optimize particle size and respirable fraction.



RF8 Nebulizer cup

The easy-to-assemble and compact Flaem nebulizer cup. Fast treatments always with tested performances and best materials. Also available with double-speed selector.



Particle size tested by TÜV

Flaem nebulizers reliability is guaranteed by strict production standards and constant monitoring. In particular, both the particle size (MMAD) and respirable fraction (RF) key parameters, are tested by a third party body: TÜV Rheinland Italia S.r.l. in collaboration with University of Parma.

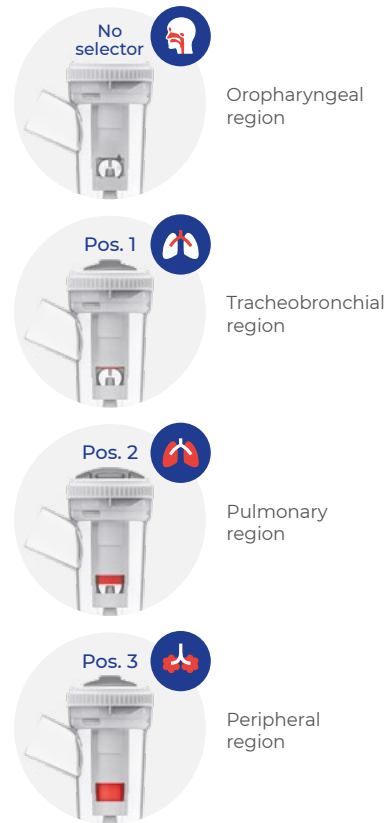


Safe products

Every Flaem Nebulizers and accessories comply with the European standard EN 10993-1 "Biological Evaluation of Medical Devices" and Regulation (EU) 2017/745 "Medical Devices". Phthalatesfree.

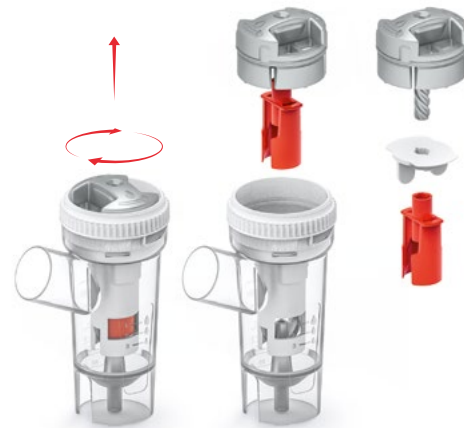
RF9 1 nebulizer, 4 therapies

Discover all the RF9 Nebulizer Kit on page 42



- Made in Italy MD
- Targeted treatments with the innovative selector
- Breath-enhanced technology (valve system)
- Easy cleaning

Equipped with an innovative selector allows targeted treatments for different respiratory tracts. The simple extra-rotation of the knob allows the selector group to be removed allowing an easy and effective cleaning in all the parts of the nebulizer.



RF9 nebulization technical features (Model RF9-1)

Compressor use			~1.30		~0.95		~0.65	
Respiratory System		Operating Pressure (bar)						
		Nebulizer configuration	MMAD (µm)	Delivery rate (ml/min ⁽¹⁾)	MMAD (µm)	Delivery rate (ml/min ⁽¹⁾)	MMAD (µm)	Delivery rate (ml/min ⁽¹⁾)
Upper Airways	Oropharyngeal region	No selector	5.8 ⁽³⁾	0.75 ⁽²⁾	6.81 ⁽³⁾	0.66 ⁽²⁾	7.71 ⁽³⁾	0.53 ⁽²⁾
	Tracheobronchial region	Position 1	4.67 ⁽¹⁾	0.54 ⁽²⁾	4.56 ⁽¹⁾	0.45 ⁽²⁾	5.12 ⁽¹⁾	0.36 ⁽²⁾
Lower Airways	Pulmonary region	Position 2	3.62 ⁽¹⁾	0.51 ⁽²⁾	3.94 ⁽¹⁾	0.41 ⁽²⁾	3.67 ⁽¹⁾	0.30 ⁽²⁾
	Peripheral region	Position 3	2.56 ⁽¹⁾	0.38 ⁽²⁾	2.7 ⁽¹⁾	0.27 ⁽²⁾	2.49 ⁽¹⁾	0.23 ⁽²⁾

(1) In vitro tested by TÜV Rheinland Italia S.r.l. in collaboration with the University of Parma.
 (2) Values measured according to Flaem's internal procedure. Delivery rate values can change depending on the patient's respiratory capacity.
 (3) Data calculated based on the values obtained with the Malvern Spraytec and compared with the values of the tests performed at UNI Parma.

RF7 Dual Speed

Discover all the RF7 Dual Speed Nebulizer Kit on page 43



- Made in Italy MD
- Dual speed technology
- Full control of therapy time

Fast and comfortable nebulizer, delivering a fine particle size while giving the possibility to reduce the treatment time thanks to the dualspeed selector.

RF7 Dual Speed Plus

Discover all the RF7 Dual Speed Plus Nebulizer Kit on page 44



- Made in Italy MD
- Dual speed technology
- Breath-enhanced technology (valve system)

The fastest of Flaem breath enhanced nebulizers, delivering a consistent particle size while wasting less medication.

RF7 Dual Speed Nebulizer (Model RF7-1)

Compressor Use		~0.65		~0.95	
Selector		MIN	MAX	MIN	MAX
MMAD µm ⁽²⁾		3.78	4.58	3.63	4.28
Delivery Rate (ml/min ⁽¹⁾)		0.25	0.55	0.30	0.70
Breathable Fraction ⁽²⁾	> µm 5	37%	45.6%	35.9%	40.1%
	< µm 5	63%	54.4%	64.1%	59.9%

(1) Data shown is in accordance with Flaem Nuova internal procedure. Values shown for the aerosol delivery may vary depending on the patient's respiratory capacity.
 (2) In vitro testing performed by TÜV Rheinland Italia S.r.l. in collaboration with the University of Parma. More details are available on request.

RF7 Dual Speed Plus Nebulizer (Model RF7-2)

Compressor Use		~0.75		~0.95		~1.30	
Selector		Valve	MAX	Valve	MAX	Valve	MAX
MMAD µm ⁽²⁾		2.95	2.44	2.76	2.91	2.21	2.38
Delivery Rate (ml/min ⁽¹⁾)		0.18	0.42	0.23	0.53	0.29	0.65
Breathable Fraction ⁽²⁾	> µm 5	25.3%	19.3%	21.5%	24%	15.8%	18.5%
	< µm 5	74.7%	80.7%	78.5%	76%	84.2%	81.5%

RF8 Dual Speed

Discover all the RF8 Dual Speed Nebulizer Kit on page 46



RF8 Basic

Discover all the RF8 Basic Nebulizer Kit on page 47



- Made in Italy
- MD
- Dual speed technology
- Easy to assemble
- Easy to clean



- Made in Italy
- MD
- With drug saver
- Easy to assemble
- Easy cleaning

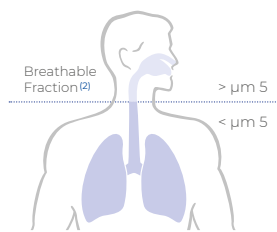


A two-speed nebulizer cup: easy to assemble and with a high speed mode for faster treatments.

Simple nebulizer, easy to assemble, disassemble, use and clean; with very low residual volume and drug saver.

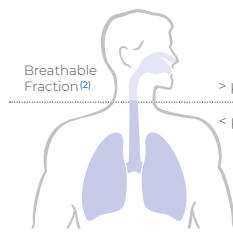
RF8 Dual Speed Nebulizer (Model RF8-3)

Compressor Use		
Operating Pressure (bar)	~0.80	
Selector	MIN	MAX
MMAD $\mu\text{m}^{(2)}$	4.01	4.48
Delivery Rate (ml/min) ⁽¹⁾	0.19	0.40
Breathable Fraction ⁽²⁾	> $\mu\text{m} 5$	38.9%
	< $\mu\text{m} 5$	61.1%
Breathable Fraction ⁽²⁾	> $\mu\text{m} 5$	44.5%
	< $\mu\text{m} 5$	55.5%



RF8 Basic Nebulizer (Model RF8-2)

Compressor Use			
Operating Pressure (bar)	~0.80	~1.15	~1.40
MMAD $\mu\text{m}^{(2)}$	4.48	3.86	3.27
Delivery Rate (ml/min) ⁽¹⁾	0.40	0.50	0.55
Breathable Fraction ⁽²⁾	> $\mu\text{m} 5$	44.5%	37.5%
	< $\mu\text{m} 5$	55.5%	62.5%
Breathable Fraction ⁽²⁾	> $\mu\text{m} 5$	37.5%	29%
	< $\mu\text{m} 5$	62.5%	71%



(1) Data shown is in accordance with Flaem Nuova internal procedure. Values shown for the aerosol delivery may vary depending on the patient's respiratory capacity.
 (2) In vitro testing performed by TÜV Rheinland Italia S.r.l. in collaboration with the University of Parma. More details are available on request.

Nebulizer Kits

Flaem Nebulizer Kits ensures an effective inhalation therapy for all the family. Frequent use and cleaning of the nebulizer can result in a change of the aerosol spectrum over time or of impairing therapy efficacy. With Flaem genuine accessories you can effectively upgrade your nebulizer system, with the utmost respect of personal hygiene.



Nebulizer Kit with RF9

Select 4 different particle sizes with the patented red selector. The "valve system" optimizes particle size and respirable fraction. Easy to disassemble for perfect cleaning.



Nebulizer Kit with RF7 Dual Speed

The excellent mix of particle sizes and delivery time. Easily adjust the treatment time through the patented top-button.



BASIC

CODE ACO037B
PACK 70 PCS



Nebulizer Mouthpiece



BASIC

CODE ACO461P
PACK 150 PCS



Nebulizer Mouthpiece



COMPLETE

CODE ACO041B
PACK 40 PCS



Nebulizer Mouthpiece Nosepiece Mask Soft Adult Mask Soft Child Elastic Band Tube Manual Drug Saver

COMPLETE

CODE ACO503P
PACK 50 PCS



Nebulizer Mouthpiece Mask Soft Adult Mask Soft Child Elastic Band Tube

Nebulizer Kit with RF7 Dual Speed Plus

The excellent mix of particle sizes and delivery time. Easily adjust the treatment time through the patented top-button. The Plus version features the "Valve system" so to optimize particle size and respirable fraction.



BASIC / 3

CODE ACO436P
PACK 80 PCS



Nebulizer



Mouthpiece



Nosepiece



BASIC / 1

CODE ACO675P
PACK 80 PCS



Nebulizer



Mouthpiece



UPGRADE

CODE ACO796P
PACK 30 PCS



Nebulizer



Mouthpiece



Nosepiece



Mask Soft Adult



Mask Soft Child



Elastic Band



Tube

Flaem Upgrade is the **new and complete nebulizer accessory kit** that allows you to experience the maximum comfort and maximum speed of Flaem RF7 nebulizer technology, our fastest breath enhanced system with valve.

BASIC / 2

CODE ACO464P
PACK 125 PCS



Nebulizer



Mouthpiece



Nosepiece



Nebulizer Kit with RF8 Dual Speed

The easy-to-assemble and compact Flaem nebulizer cup with Dual Speed selector. Fast treatments always with tested performances and best materials.



Nebulizer Kit with RF8 Basic

The easy-to-assemble and compact Flaem nebulizer cup. Fast treatments always with tested performances and best materials. Also available with double-speed selector.



BASIC

CODE ACO052B
PACK 150 PCS



Nebulizer Mouthpiece



BASIC

CODE ACO568P
PACK 100 PCS



Nebulizer Mouthpiece



COMPLETE

CODE ACO053B
PACK 40 PCS



Nebulizer Mouthpiece Nosepiece Mask Soft Adult Mask Soft Child Elastic Band Tube

COMPLETE

CODE ACO596P
PACK 50 PCS



Nebulizer Mouthpiece Nosepiece Mask Soft Adult Mask Soft Child Elastic Band Tube



Drug anti-dispersion Kit

Code ACO055B | Model (1) B036 + B041 + B042 Model (2) REF 4222/02 | Pack 60 pcs



A special Kit that safeguards the health of healthcare personnel, reducing the dispersion of drugs and pollutants, thus ensuring a cleaner environment.



MD

- Compatible with Flaem nebulizer systems with valve
- Protects health of healthcare personnel
- Limits the dispersion of the drug and pollutants
- Filtration efficiency: 99.99%
- Easy cleaning and disinfection of the components
- Simple assembly



RF6 Plus tracheostomy Kit

Code ACO079P | Model (1) RF6-2 Model (2) REF 1200050 | Pack 50 pcs



The RF6 Plus tracheostomy Kit enables medication nebulization in tracheostomized patients and it's suitable for use with compressor nebulizers and centralized air systems.

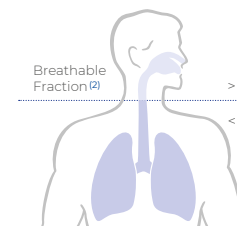


MD

- L shaped connector allows the user to find the best position
- Suitable for use with compressor nebulizers
- Compatible for use with centralized air system
- High quality nebulizer system with valve
- Simple assembly
- Lightweight tracheostomy mask with a quick-release elastic for ease of use

RF6 Plus Nebulizer

Compressor Use	~0.80		~1.20	
	VALVE	MAX	VALVE	MAX
Operating Pressure (bar)				
Selector	3.20	3.20	2.80	2.80
MMAD $\mu\text{m}^{(2)}$	0.26	0.42	0.31	0.54
Delivery Rate (ml/min) ⁽¹⁾				
Breathable Fraction ⁽²⁾	> $\mu\text{m} 5$	27%	27%	24%
	< $\mu\text{m} 5$	73%	73%	76%



Compatible nebulizer systems



RF9-1 RF7-2 RF6-2

Manufacturer

(1) FLAEM NUOVA S.p.A
Via Colli Storici, 221-223-225
25015 S. Martino della Battaglia - Brescia (ITALY)
www.gruppoflaem.it

(2) Gvs Filter Technology UK Ltd.
NFC House, Vickers Industrial Estate Mellishaw Lane
Morecambe, Lancashire, LA3 3EN, UK
www.gvs.com

EC REP

GVS S.p.A. - www.gvs.com
Via Roma, 50 - 40069 Zola Predosa
CE 2797

Certifications



Manufacturer

(1) FLAEM NUOVA S.p.A
Via Colli Storici, 221-223-225
25015 S. Martino della Battaglia - Brescia (ITALY)
www.gruppoflaem.it

(2) Intersurgical Ltd, Crane House, Molly Millars Lane,
Wokingham, Berkshire, RG41 2RZ, UK
T:+44 (0)118 9656 300 info@intersurgical.com
www.intersurgical.com

EC REP

UAB Intersurgical
Arnioniy g.60, Pabradė, LT-18170, Lithuania
CE 1639

Certifications

