

RESMED

Mirage Liberty™

FULL FACE MASK

User Guide

English



A Mask parts / Composants du masque / Piezas de la mascarilla / Peças da máscara

Cushion alignment guide / Repère d'alignement de la bulle / Guia para alineaación de la almohadilla / Guia de alinhamento da almofada

Valve hinge / Charnière de la valve / Bisagra de la válvula / Articulação da válvula

Valve flap / Clapet de la valve / Aleta de la válvula / Aba da válvula

Valve / Valve / Válvula / Válvula

Valve clip / Clip de la valve / Traba de la válvula / Clipe da válvula

Headgear parts / Composants du harnais / Piezas del arnés / Peças do arnês

Right upper clip / Clip supérieur droit / Broche superior derecho / Presilha superior direita

Lower straps / Sangles inférieures / Correas inferiores / Correas inferiores

Lower clip / Clip inférieur / Broche inferior / Presilha inferior

Mask cushion / Bulle du masque / Almohadilla bucal / Almofada bucal

Nasal pillows / Coussins nasaires / Almohadillas nasales / Almofadas nasais

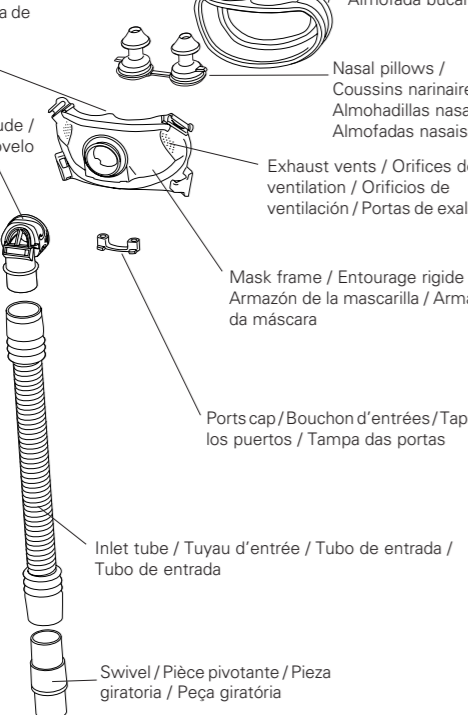
Exhaust vents / Orifices de ventilation / Orificios de ventilación / Portas de exalação

Mask frame / Entourage rigide / Armazón de la mascarilla / Armação da máscara

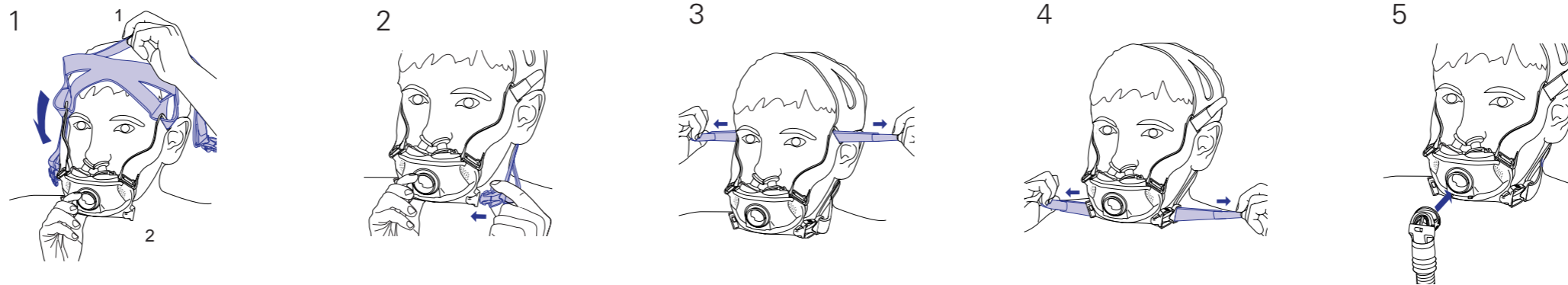
Ports cap / Bouchon d'entrées / Tapón de los puertos / Tampa das portas

Inlet tube / Tuyau d'entrée / Tubo de entrada / Tubo de entrada

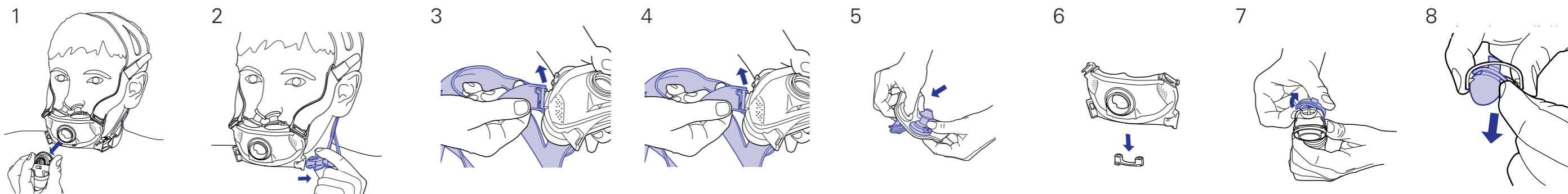
Swivel / Pièce pivotante / Pieza giratoria / Peça giratória



B Fitting the mask / Mise en place du masque / Colocación de la mascarilla / Ajuste da máscara



C Disassembling for cleaning / Démontage pour le nettoyage / Desmontaje para la limpieza / Desmontagem para limpeza



Mirage Liberty

Full Face Mask

Illustrations Sheet / Fiche d'illustrations / Hoja de figuras / Folheto de ilustrações

Note: For complete instructions, please read the text section in conjunction with the illustrations on this sheet.

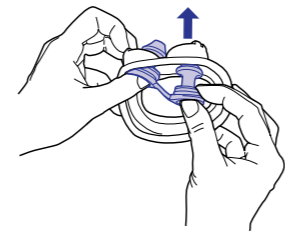
Remarque: pour les instructions complètes, veuillez lire le texte du guide avec cette fiche d'illustrations.

Nota: Para entender bien las instrucciones, lea el texto junto con las figuras de esta hoja.

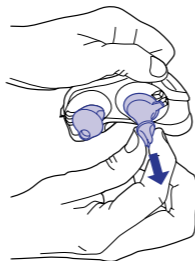
Nota: para obter instruções completas, leia a seção de texto em conjunto com as ilustrações constantes deste folheto.

D Reassembling the mask / Remontage du masque / Montaje de la mascarilla / Montagem da máscara

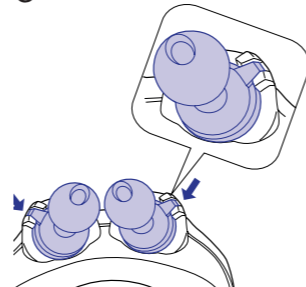
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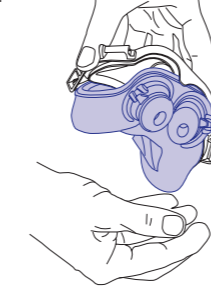
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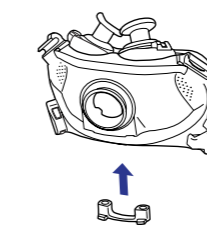
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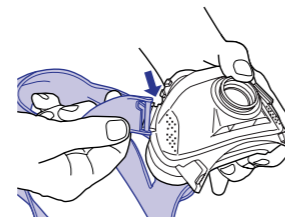
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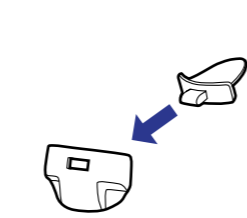
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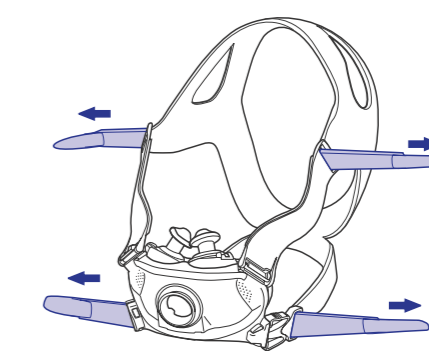


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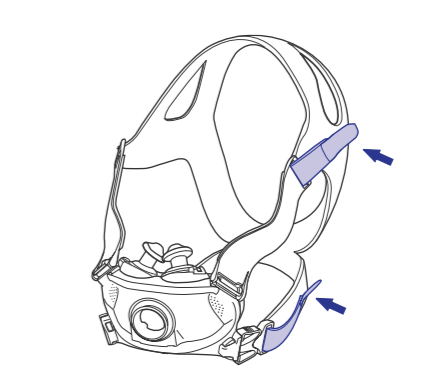


E Reassembling the headgear / Remontage du harnais / Montaje del arnés / Montagem do arnés

1



2



Mirage Liberty™

FULL FACE MASK

Thank you for choosing ResMed's Mirage Liberty. The Mirage Liberty is a full face mask that combines nasal pillows and a mouth cushion, creating a mask that is both unobtrusive and easy to use without compromising seal, stability and comfort.

The mask incorporates vent holes and a built-in valve so that you can continue to breathe fresh air if the airflow to your mask is impeded for any reason.

Intended Use

The Mirage Liberty channels airflow noninvasively to a patient from a positive airway pressure device such as a continuous positive airway pressure (CPAP) or bilevel system.

The Mirage Liberty is to be used by adult patients (>66 lb/30 kg) for whom positive airway pressure has been prescribed.

The Mirage Liberty is intended for single-patient re-use in the home environment and multipatient re-use in the hospital/institutional environment.



CAUTION

In the USA, federal law restricts this device to sale by, or on the order of, a physician.

Before Using the Mask



WARNING

- The Mirage Liberty must be used under qualified supervision with patients who are unable to remove the mask by themselves. The mask may not be suitable for those predisposed to aspiration.
- The elbow and valve assembly have specific safety functions. They allow you to breathe fresh air if the airflow from your flow generator to your mask is impeded. The mask should not be worn if the valve is

damaged as it will not be able to perform its safety function. The valve should be replaced if it is damaged, distorted or torn.

- The vent holes must be kept clear.
- Follow all precautions when using supplemental oxygen.
- Any supplemental oxygen flow must be turned off when the flow generator is not operating, so that unused oxygen does not accumulate within the flow generator enclosure and create a risk of fire.
- At a fixed flow rate of supplemental oxygen flow, the inhaled oxygen concentration will vary, depending on the pressure settings, patient breathing pattern, mask, point of application and leak rate.
- The technical specifications of the mask and flow generator are provided for your clinician to check that they are compatible. If used outside specification or if used with incompatible devices, the seal and comfort of the mask may not be effective, optimum therapy may not be achieved, and leak, or variation in the rate of leak, may affect the flow generator function.
- Discontinue using the Mirage Liberty if you have ANY adverse reaction to the mask system, and consult your physician or sleep therapist.
- Discontinue using the Mirage Liberty if you experience nasal irritation, and consult your physician or sleep therapist.
- Refer to your flow generator manual for details on settings and operational information.
- Using a mask may cause tooth, gum or jaw soreness or aggravate an existing dental condition. If symptoms occur, consult your physician or dentist.



CAUTION

Avoid connecting flexible PVC products (eg. PVC tubing) directly to any part of this mask. Flexible PVC contains elements that can be detrimental to the materials of the mask, and may cause the components to crack or break.

Using the Mask

Select 'Mir Full' or 'Full Face' as the mask option when using the Mirage Liberty with ResMed flow generators that have mask setting options.

Fitting the mask

The diagrams in section **A** on the illustrations sheet show how the parts of the mask fit together.

The diagrams in section **B** show the suggested sequence for obtaining the best fit and comfort in using your mask. Please follow these instructions carefully.

- 1 Wash your face thoroughly before fitting the mask. It is recommended that you do not apply moisturizer where the mask contacts your face as it can affect the mask seal.
- 2 Place the headgear on your head, like you would a cap, and pull the mask forward onto your face (**B-1**). Make sure that the headgear fits evenly on the top of your head.
- 3 Fit the mask over your mouth. Insert the pillows so that they sit gently just inside the entrance to your nostrils.
- 4 Push the lower headgear clips into the slots on the mask frame until they click into place (**B-2**).
- 5 To tighten or loosen the headgear straps, peel the Velcro® tab off the headgear and reposition it. Gently and evenly adjust the upper headgear straps (**B-3**), then the lower straps (**B-4**). Alternate the adjustment of each set of straps until they are comfortable and firm and so that the upper headgear clips rest between your eye and your ear. The mask should gently 'float' on your face. Do not overtighten the headgear straps.
- 6 Connect one end of the main air tubing to your flow generator and the other end to the swivel.
- 7 Connect the elbow to the mask frame, holding the sides of the elbow then firmly pushing it onto the frame until it clicks into place (**B-5**). Rotate the elbow to check that it rotates freely and does not separate from the frame.
- 8 Turn your flow generator on.
- 9 If you feel air leaks, you may need to adjust your headgear. Return to step 5 or check through the suggestions in "Optimizing mask seal and comfort" below.

Optimizing mask seal and comfort

To receive effective therapy it is important to have the best seal possible between your mask and your face. If you are experiencing leaks, please ensure that you have followed the fitting instructions carefully. Carry out a quick check after fitting your mask:

- Is the mouth cushion creased? Creases can allow air to leak out of the mask.

- Have you cleaned your mask recently? Oils on the cushion and pillows can affect the seal.
- Are the pillows correctly seated in your nostrils? Re-seat or adjust the pillows to obtain a proper seal.
- Are your headgear straps overtightened? Try not to alter the upper headgear straps once they have been tightened by your clinician.
- If you cannot establish a comfortable seal, do not overtighten the headgear. Consult your clinician.
- Try another nasal pillow size.

If you cannot resolve any problems, look at the Troubleshooting section, or talk to your clinician.

Removing the Mask

To remove the Mirage Liberty:

- 1 Detach the elbow by squeezing the elbow on both sides and pulling it away from the frame (C-1).
- 2 Unclip both of the lower headgear clips (C-2) and remove the mask.

Note: You can detach the elbow from the mask frame and leave the mask on your face. You may prefer to do this when briefly stopping therapy, for example to go to the bathroom.

Disassembling the Mask

See section C on the illustrations sheet.

- 1 Unclip the upper headgear clips from the frame (C-3).
- 2 Carefully pull the mouth cushion away from the frame (C-4).
- 3 Push the two nasal pillows down through the mouth cushion (C-5).
- 4 Remove the ports cap (C-6).
- 5 Detach the inlet tube assembly from the elbow.

Note: The swivel does not need to be disconnected from the inlet tube.

- 6 Detach the valve clip from the elbow (C-7).
- 7 Peel the valve from the valve clip (C-8).

Note: Do not pull on the valve flap, as this may cause it to tear.

Cleaning the Mask in the Home

Notes:

- The mask and headgear can only be cleaned by handwashing.
- The headgear may be washed without removing the headgear clips.



WARNING

- Do not use aromatic-based solutions or scented oils (eg, eucalyptus or essential oils), bleach, alcohol or products that smell strongly (eg, citrus) to clean any of the mask components. Residual vapours from these solutions can be inhaled if not rinsed thoroughly. They may also damage the mask, causing cracks.
- Do not iron the headgear as the material is heat sensitive and will be damaged.

Daily/After Each Use

To optimize the mask seal, facial oils should be removed from the cushion and pillows before use.

Handwash the mask by gently rubbing in warm (86°F/30°C) water using mild soap or diluted dishwashing detergent.

Clean the walls of the nasal pillows, including the space between the walls, of any debris using a small brush.

Do not twist the valve during cleaning as this may damage or tear the valve membrane or hinge. Take care when handling the valve.

If the vent requires cleaning use a soft bristle brush.

Rinse all components well with drinking quality water and allow them to air dry out of direct sunlight. Do not soak the mask.

Weekly

Handwash the headgear in warm (approx. 86°F/30°C) water using mild soap or diluted dishwashing detergent. Rinse the headgear well and allow it to air dry out of direct sunlight.

Cleaning the Mask between Patients

The Mirage Liberty should be disinfected or sterilized when used between patients. All components, except the headgear, are validated for up to 20 disinfection or sterilization cycles using one of the following processes:

- Thermal disinfection at a maximum temperature-time combination of 194°F (90°C) for one minute
- Chemical disinfection (eg, Cidex™ OPA)
- The STERRAD™ Sterilization System (eg, 100S or NX).

The inlet tube and swivel should be replaced between patients.

The headgear should be thoroughly washed between patients, as described in “Cleaning the Mask in the Home”.

Detailed disinfection and sterilization instructions are available from the ResMed website, www.resmed.com/masks/sterilization/americas and must be consulted before multipatient use.

Reassembling the Mask

See section D on the illustrations sheet.

Before reassembling the mask, check that all components are clean and dry. Check that the valve is not damaged, distorted or torn, and that none of the other components are broken or cracked. Replace any parts that are damaged. Refer to “Ordering Information” for re-order numbers.

- 1 Attach the nasal pillows to the mouth cushion:
 - a Push the nasal pillows through the holes in the mouth cushion (D-1).
 - b Pull the nasal pillows up until the grooves at their base fully engage around the mouth cushion holes (D-2).
 - c Check that the tabs on each pillow fit into the corresponding notches on the cushion (D-3). Check that the seal between the pillows and cushion is complete.
- 2 Attach the mouth cushion to the frame:
 - a Position the cushion alignment guide between the two nasal pillows and line up the triangle symbols on the bottom of the mask frame with those on the mouth cushion.
 - b Press the mouth cushion into the groove in the frame (D-4).
 - c Check that the mouth cushion is fully seated in the groove.
- 3 Insert the ports cap (D-5).
- 4 Clip the upper headgear clips onto the mask (D-6).
- 5 Assemble the elbow assembly:
 - a Push the tab of the valve up through the slot in the valve clip (D-7). Ensure that the valve locks into the slot.
 - b Feed the flap of the valve through the slot in the elbow (D-8).
 - c Press the valve clip onto the elbow until you hear both sides click into place (D-9).
- 6 Push the inlet tube assembly onto the elbow assembly.

Reassembling the Headgear

If taken apart, the headgear has five parts: headgear straps, left and right upper headgear clips, and two lower clips.

- 1 Attach the upper headgear clips to the mask frame (D-6). The mask incorporates lock-out features to ensure that each upper clip attaches to the correct side of the mask frame.
- 2 Clip the lower headgear clips into the mask frame.

- 3 Lay out the headgear straps, label side down. The label is on the outer side of the headgear. The internal side is smooth, to be comfortable against your face.
- 4 Thread the top (short) straps through the upper headgear clips (E-1, E-2).
- 5 Thread the bottom (long) straps through the lower clips (E-1, E-2).
- 6 Check that the headgear is not twisted.

Storage

Ensure that the mask is thoroughly clean and dry before storing it for any length of time. Store the mask in a cool dry place out of direct sunlight.

Disposal

The Mirage Liberty does not contain any hazardous substances and may be disposed of with your normal household refuse.

Troubleshooting

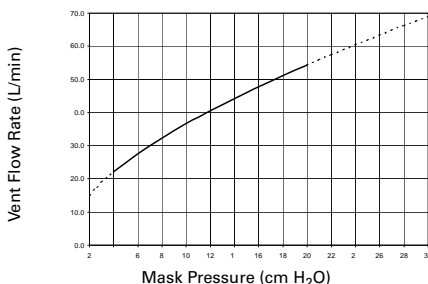
Problem	Possible reason	Possible solution
Mask won't seal properly or is uncomfortable	Mouth cushion or pillows may be dirty.	Clean mask according to instructions in "Cleaning the Mask in the Home".
	Mask may have been fitted incorrectly.	Carefully follow instructions in "Fitting the mask".
	Mask is incorrectly adjusted.	Check headgear is not over-tightened.
	Mouth cushion is wrong size.	Talk to your clinician.
	Mouth cushion is skewed in mask frame.	Check insertion of cushion.
	Mouth cushion is misaligned or creased on face.	Ensure cushion is properly aligned and that there are no creases in it: undo headgear clip, check cushion and reposition the mask on your face.
	Mask pillows are the wrong size.	Try another size or talk to your clinician.
	Mask pillows are not correctly seated in your nostrils.	Re-seat pillows into nostrils.
	Mask pillows are skewed in cushion.	Check insertion of pillows.
Mask is assembled incorrectly.	Reassemble mask.	
Mask is too noisy	Vents are blocked or partially blocked.	Clean vents according to instructions in "Cleaning the Mask in the Home".
	Valve is misassembled.	Reassemble valve.
	Cushion is not properly inserted.	Check insertion of cushion.
	Mask is assembled incorrectly.	Reassemble mask.

Problem	Possible reason	Possible solution
	Valve is damaged, torn or distorted.	Replace valve.
	Pillows are not inserted correctly into cushion.	Check insertion of pillows.
	Mask is not sealing.	Check and adjust mask as necessary.

Technical Specifications

Note: The mask system does not contain latex, PVC or DEHP materials.

Pressure–Flow Curve



Pressure (cm H ₂ O)	Flow (± 6.0 L/min)
4	22
8	32
12	41
16	48
20	54

Note: As a result of manufacturing variations, the vent flow may vary from that indicated in the graph.

Dead Space Information

Dead space is the empty volume of the mask up to the elbow.

The maximum dead space of the Mirage Liberty for all mask size combinations is 151 mL.

Therapy Pressure

4 to 20 cm H₂O

Resistance

Drop in pressure measured (nominal)

at 50 L/min: 0.5 cm H₂O

at 100 L/min: 1.6 cm H₂O

Mask sizes

(excludes inlet tube and headgear)

size	width (mm)	height (mm)	depth (mm)
small	110	92	95
large	110	100	100

Symbols

System and Packaging



Caution, consult accompanying documents



Lot number



Part number



Does not contain natural rubber latex



⁹⁵ Humidity limitation



Temperature limitation



Manufacturer



European Authorised Representative

User Guide



Indicates a warning or caution and alerts you to a possible injury or explains special measures for the safe and effective use of the device.

Ordering Information

Part No. Item

Complete System

61300 Mirage Liberty Full Face Mask, *small*

61301 Mirage Liberty Full Face Mask, *large*

Replacement Parts

61318 Frame system (excl. headgear) with small cushion and small pillows

61319 Frame system (excl. headgear) with small cushion and medium pillows

61320 Frame system (excl. headgear) with small cushion and large pillows

61321 Frame system (excl. headgear) with large cushion and small pillows

61322 Frame system (excl. headgear) with large cushion and medium pillows

61323 Frame system (excl. headgear) with large cushion and large pillows

61325 Frame assembly, *small* (excl. cushion, pillows and headgear)

Part No.	Item
61326	Frame assembly, <i>large</i> (excl. cushion, pillows and headgear)
61330	Mouth cushion, <i>small</i> (1 pk)
61331	Mouth cushion, <i>large</i> (1 pk)
61333	Nasal pillows, <i>small</i> (1 pk)
61334	Nasal pillows, <i>medium</i> (1 pk)
61335	Nasal pillows, <i>large</i> (1 pk)
61337	Mask frame, <i>small</i> (1 pk)
61338	Mask frame, <i>large</i> (1 pk)
61340	Elbow assembly (elbow, valve and clip) (1 pk)
61342	Valve and clip (1 pk)
61343	Valve and clip (10 pk)
60926	Inlet tube and swivel (1 pk)
60927	Inlet tube and swivel (10 pk)
61348	Headgear assy, <i>small</i> (1 pk)
61349	Headgear assy, <i>standard</i> (1 pk)
61352	Upper clips (2 pk)
61353	Lower clips (2 pk)
16570	Ports cap (2 pk)
16571	Ports cap (10 pk)
60014	Swivel (10 pk)

Limited Warranty

ResMed warrants that your ResMed system, including its components—as shown in Section A of the illustration sheet (“Product”)—shall be free from defects in material and workmanship for a period of ninety (90) days from the date of purchase by the initial consumer.

For further details refer to the Warranty.



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See www.resmed.com for other ResMed locations worldwide.



For patent information, see www.resmed.com/ip.

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USER

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