

ComfortGlide® Air Blower



User's Manual



REF MSC60090

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IMPORTANT SAFEGUARDS

Do not use **Comfort Glide Air Blower** in the presence of flammable anesthetics.

Precaution – Comfort Glide Repositioning Sheet:

1. Caregivers must verify that all caster brakes on the bed have been engaged prior to patient movement.
2. For safety, always use at least two people during patient movement.
3. Never leave patient unattended on an inflated device.
4. Use this product only for its intended use as described in this manual. Do not use attachments not recommended by the manufacturer.
5. The Comfort Glide Repositioning sheet is designed to be used with 1 Air Blower.

Precaution – Comfort Glide Air Blower - To reduce the risk of burns, electrocution, fire or injury to persons:

1. Use this product only for its intended use as described in this manual. Do not use attachments not recommended by the manufacturer.
2. Never operate this product if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or dropped into water.
3. Keep the cord away from heated surfaces.
4. Never drop or insert any object into any openings.
5. Route the power cord in a manner to ensure it is free from hazards.
6. Disconnect from power supply circuit before opening.
7. Keep **Comfort Glide Air Blower** away from sources of liquid and open flames.
8. The Air Blower needs to be used with a stable power supply or in conjunction with a UPS.

THE PURPOSE OF THIS MANUAL

This operation manual is mainly focused on the set-up, cleaning and routine maintenance of the **Comfort Glide Air Blower**. We recommend keeping this manual handy to answer questions related to the system.

PRODUCT DESCRIPTION – INTENDED USE

The **Comfort Glide Air Blower** is a component of the Comfort Glide air system designed to help clinicians safely reposition and move patients. The system has been designed to reduce risks and make patient repositioning and transfers easier and safer.

GENERAL SAFETY

It is important to read the information in this user manual before you use your **Comfort Glide Air Blower**.

Please follow the guidelines below for your added safety and maintaining system performance.

- Avoid exposing the Air Blower to flammable anesthetics.

DEVICE FEATURE

Part Identification:



INFLATING COMFORT GLIDE AIR SHEET

- a. Patient should be in a supine position with the bed at a 0 degree incline
- b. Place Comfort Glide Air Sheet underneath the patient.
- c. Place the **Comfort Glide Air Blower** directly on flat ground or use the carabiner to hang the unit on the bed frame.
- d. Plug the power cord into the nearest standard wall outlet
- e. Connect the air hose to one side of the Comfort Glide Air Sheet air intake opening and securely fasten into place. Choose the air input on the side that will permit free movement of the hose.

CAUTION: It is important to routinely inspect power cable to ensure it is not obstructed or causing a tripping hazard. Check the power cable is not under strain or damaged.

- f. If using for lateral transfer, ensure that transfer surfaces are touching and lock all wheels.
- g. Turn on the green power switch and the air blower will inflate the Comfort Glide Air sheet. When the Comfort Glide Air sheet is fully inflated, the sheet is ready to use and the patient can be repositioned.
- h. Ensure patient is centered on the surface prior to deflation.
- i. Turn off Air Blower and raise the bed or stretcher rails.

CAUTION: Never leave the patient unattended with the Air Blower on.

MAINTENANCE & TROUBLESHOOTING

No daily maintenance is required. It is intended this equipment should only be serviced by qualified and authorized technical personnel. Please contact your Medline representative if the below troubleshooting solutions do not work.

Fault/Problem Description	Possible Root Cause	Solution
The Air Blower does not turn on.	The Air Blower is not receiving power.	Check power cord plug is securely connected and fits snugly into the outlet. Secure plug connection and turn on Air Blower power switch.
	Blown fuses in pump and plug.	Check for blown fuses in pump and plug. Replace fuse if blown.
	Power outlet is faulty.	Try another power outlet.
	Defective Air Blower Unit.	Replace with new device. Contact your Medline representative.
The Comfort Glide Repositioning Sheet cannot be inflated.	Hose not properly connected.	Verify that the hose is properly connected to the Air Blower. The hose has 2 prongs that snap into place to connect it to the Air Blower unit.
	Air Flow is not sufficient.	<ol style="list-style-type: none"> 1. Check hose connection points and re-connect if needed. 2. Check hose for tears or kinking. 3. Check for punctures or rips in the Comfort Glide Air Sheet. 4. Check the air filter for restrictions. Clean/replace as necessary.

WARNING: Disassembly or attempts to make repairs may void Manufacturer’s Warranty. Please consult the Statement of Warranty in this Manual for more information.

If the problem is not resolved, please contact your Medline representative.

CLEANING & DISINFECTION PROTOCOL

1. Please follow your facility's guidelines for cleaning and disinfecting the **Comfort Glide Air Blower**. Ensure that the power unit is off.
2. Unplug the power cord from the wall outlet.
3. Examine the surface of the Air Blower for visible dirt and other substances.
4. Refer to your Bio-Medical Engineering or Infection Prevention Department for your facility's protocol for cleaning and disinfecting.
5. Perform the following steps to clean the power unit and hose fittings:
 - Wipe all controls, chassis and hose fittings with a damp cloth and a mild detergent.
 - Air dry all treated surfaces.

GENERAL DISASSEMBLY OF PARTS

Before disassembling any parts, ensure that the power unit is off and unplug the power cord from the wall outlet.

1. Changing the air hose:

- a. Use a flathead screwdriver to disconnect the prongs on the hose from the blower unit.



- b. Push the hose out to replace with a new one.

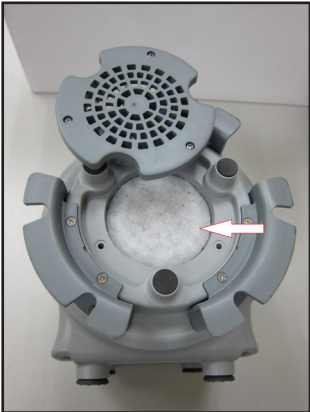


2. Changing filter:

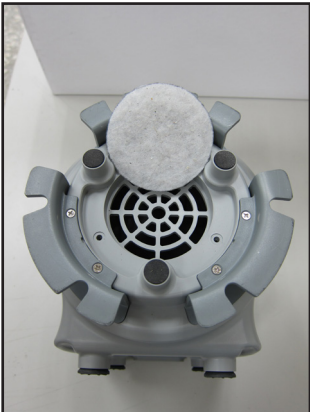
a. Unscrew 3 screws on the bottom cover.



b. Open the filter cover and identify the filter.



c. Replace the filter and assemble the parts in reverse order.




WARNING: Switch off the electrical supply to the pump and disconnect the power cable from the electrical outlet before cleaning and inspection.

All equipment should be inspected. Any item that is visibly dirty should be properly cleaned or removed. It is recommended that the system is cleaned regularly and after each patient use.

SPECIFICATION

Control unit Specification

Model Name	Comfort Glide Air Blower
Size in CM (L x W x H)	32.5 X 18 X 24.8
Weight	5 kgs
Air Hose	37mm dia x 2.13m length
Min/Max Pressure	20 ~ 30 mmHg \pm 5mmHg
Flow Rate	\geq 2500 L/min
Rated Voltage	AC110 - 120V /60Hz
Max Current	10A
Fuse rating	F12AH 250V
Protection Type	Class II Type B 
Environment (Temperature)	Operation: 15 °C to 35 °C (59 °F to 95 °F)
	Storage: 5 °C to 60 °C (41 °F to 140 °F)
Environment (Humidity)	Operation: 30% to 75% non-condensing
	Storage: 30% to 75% non-condensing
Filter Air	5 microns
Operation Atmospheric Pressure Range	700 hPa to 1060 hPa
Operation altitude	-1017 feet to 9,843 feet
Test Standard	IEC60601-1, IEC60601-1-2

WARNING: Medical electrical equipment needs special precautions regarding EMC and needs to be installed according to the EMC information provided. Careful consideration of this information is essential when stacking or collocating equipment and when routing cables and accessories.

WARNING: RF mobile communications equipment can effect medical electrical equipment.

ELECTROMAGNETIC COMPATIBILITY

Electric devices may interact due to electro-magnetic radiation. We recommend a safety distance of at least 1 meter, especially for sensitive equipment. Upon request, we can provide a table with more detailed electromagnetic information.

Recommended separation distances between portable and mobile RF communications equipment and the Comfort Glide Air Blower			
The Comfort Glide Air Blower is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Comfort Glide Air Blower can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Comfort Glide Air Blower as recommended below, according to the maximum output power of the communications equipment.			
Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter m		
	150 kHz to 80 MHz $d = 1,2 \sqrt{P}$	80 MHz to 800 MHz $d = 1,2 \sqrt{P}$	800 MHz to 2,7 GHz $d = 2,3 \sqrt{P}$
0,01	0,12	0,12	0,23
0,1	0,38	0,38	0,73
1	1,2	1,2	2,3
10	3,8	3,8	7,3
100	12	12	23
For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where p is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.			
NOTE 1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.			
NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			

Manufacturer's declaration – electromagnetic emissions

The **Comfort Glide Air Blower** is intended for use in the electromagnetic environment (for professional healthcare) specified below.

The customer or the user of the **Comfort Glide Air Blower** should assure that it is used in such an environment.

Emissions test	Compliance	Electromagnetic environment-guidance (for professional healthcare environment)
RF emissions CISPR 11	Group 1	The Comfort Glide Air Blower uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class A	The Comfort Glide Air Blower is suitable for use in all establishments other than domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	N/A	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	N/A	

Manufacturer's declaration – electromagnetic immunity

The **Comfort Glide Air Blower** is intended for use in the electromagnetic environment (for professional healthcare) specified below.

The customer or the user of the **Comfort Glide Air Blower** should assure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment -guidance (for professional healthcare environment)
Electrostatic discharge (ESD) IEC 61000-4-2	Contact:±8 kV Air:±2 kV,±4 kV, ±8 kV,±15 kV	Contact:±8 kV Air:±2 kV,±4 kV, ±8 kV,±15 kV	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%
Electrical fast transient/burst IEC 61000-4-4	± 2 kV for power supply lines ± 1 kV for input/output lines	± 2kV for power supply lines Not applicable	Mains power quality should be that of a typical professional healthcare environment.
Surge IEC 61000-4-5	± 0.5kV, ± 1kV line(s) to line(s) ± 0.5kV, ± 1kV, ± 2kV line(s) to earth	± 0.5kV, ± 1kV line(s) to line(s) Not applicable	Mains power quality should be that of a typical professional healthcare environment.
Voltage Dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	Voltage dips: 0 % UT; 0.5 cycle 0 % UT; 1 cycle 70 % UT; 25/30 cycles Voltage interruptions: 0 % UT; 250/300 cycle	Voltage dips: 0 % UT; 0.5 cycle 0 % UT; 1 cycle 70 % UT; 30 cycles Voltage interruptions: 0 % UT; 300 cycle	Mains power quality should be that of a typical professional healthcare environment. If the user of the Comfort Glide Air Blower requires continued operation during power mains interruptions, it is recommended that the Comfort Glide Air Blower be powered from an uninterruptible power supply or a battery.

Power frequency (50, 60 Hz) magnetic field IEC 61000-4-8	30 A/m 50 Hz or 60 Hz	30 A/m 60 Hz	The Comfort Glide Air Blower power frequency magnetic fields should be at levels characteristic of a typical location in a typical professional healthcare environment.
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NOTE: UT is the a.c. mains voltage prior to application of the test level.

**Manufacturer's declaration-electromagnetic immunity
Test specifications for ENCLOSURE PORT IMMUNITY to
RF wireless communications equipment**

The **Comfort Glide Air Blower** is intended for use in the electromagnetic environment (for professional healthcare) specified below.
The customer or the user of the **Comfort Glide Air Blower** should assure that it is used in such an environment.


Test frequency (MHz)	Band a) (MHz)	Service a)	Modulation b)	Maximum power (W)	Distance	IMMUNITY TEST LEVEL (V/m)	Compliance LEVEL (V/m) (for professional healthcare)
385	380-390	TETRA 400	Pulse modulation b) 18 Hz	1, 8	0, 3	27	27
450	430-470	GMRS 460, FRS 460	FM c)+5 kHz deviation 1 kHz sine	2	0, 3	28	28
710	704-787	LTE Band 13, 17	Pulse modulation b) 217 Hz	0, 2	0, 3	9	9
745							
780							
810	800-960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse modulation b) 18 Hz	2	0, 3	28	28
870							
930							
1720	1700-1900	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS	Pulse modulation b) 217 Hz	2	0, 3	28	28
1845							
1970							
2450	2400-2570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation b) 217 Hz	2	0, 3	28	28
5240	5100-5800	WLAN 802.11 a/n	Pulse modulation b) 217 Hz	0, 2	0, 3	9	9
5500							
5785							

NOTE: If necessary to achieve the IMMUNITY TEST LEVEL, the distance between the transmitting antenna and the ME EQUIPMENT or ME SYSTEM may be reduced to 1 m. The 1 m test distance is permitted by IEC 61000-4-3.

- For some services, only the uplink frequencies are included.
- The carrier shall be modulated using a 50 % duty cycle square wave signal.
- As an alternative to FM modulation, 50 % pulse modulation at 18 Hz may be used because while it does not represent actual modulation, it would be worst case.

Manufacturer's declaration – electromagnetic immunity

The **Comfort Glide Air Blower** is intended for use in the electromagnetic environment (for professional healthcare) specified below. The customer or the user of the **Comfort Glide Air Blower** should assure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment-guidance (for professional healthcare environment)
Conducted RF IEC 61000-4-6	3 Vrms: 0,15 MHz – 80 MHz 6 Vrms: in ISM bands between 0,15 MHz and 80 MHz 80 % AM at 1 kHz	3 Vrms: 0,15 MHz – 80 MHz 6 Vrms: in ISM bands between 0,15 MHz and 80 MHz 80 % AM at 1 kHz	<p>Portable and mobile RF communications equipment should be used no closer to any part of the Comfort Glide Air Blower including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</p> <p>Recommended separation distance: $d = 1,2 \sqrt{P}$ $d = 1,2 \sqrt{P}$ 80 MHz to 800 MHz $d = 2,3 \sqrt{P}$ 800 MHz to 2,7 GHz</p> <p>Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in metres (m).</p> <p>Interference may occur in the vicinity of equipment marked with the following symbol: </p>
Radiated RF IEC 61000-4-3	3 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz	3 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz	

NOTE 1: At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

WASTE DISPOSAL



This Product has been supplied from an environmentally aware manufacturer that complies with the Waste Electrical and Electronic Equipment Directive (WEEE).

This product may contain substances that could be harmful to the environment if disposed of in places (landfills) that are not appropriate according local regulations. Please be environmentally responsible and recycle this product through your recycling facility at its end of life.

STORAGE AND CARE

Comfort Glide Air Blower:









- Check the power cord and plug for abrasions or excessive wear.
- Plug in the unit and verify air flows from the units hose connection ports
- Place in box for storage

It is recommended the following guidelines are used whenever this system is being stored or transported another location:

Temperature limitations: 5 °C to 60 °C (41 °F to 140 °F)

Relative Humidity: 30% to 75%

SYMBOLS USED

	Type B Applied part		Refer to Instruction Manual / Booklet
	Keep dry		Waste Disposal
	SGS certified		Class II Equipment
	Alternating Current		Catalog number

EXPECTED SERVICE LIFE

The **Comfort Glide Air Blower** has an expected service life of two years. Replace the air filter every 6 months. Do NOT use unapproved accessories or attempt to modify, disassemble or otherwise misuse the device.

WARRANTY

- The manufacturer warrants this equipment to be free from defects in material and workmanship for 2 years from the date of delivery.
- At Manufacturer's discretion, we agree to service, repair or replace any equipment or part found to be defective at no charge.
- This warranty excludes equipment damaged through shipping, tampering, improper maintenance, carelessness, accidents, negligence, misuse, or which has been altered, repaired or dismantled other than with the manufacture's written authorization and by its approved procedures and by properly qualified technicians.
- In no event shall the manufacturer be liable for any direct, indirect or consequential damage or loss resulting from the use of equipment.



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