



#1 CHOICE OF HOSPITALS AND MOTHERS

Symphony[®]

BREASTPUMP

SERVICE INSTRUCTIONS



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SAVE THESE INSTRUCTIONS

The Medela® Symphony® Breastpump has been specially developed to meet the most stringent demands where hygiene and mobility are concerned. The operating principle of the Medela Symphony is to simulate the natural, physiological conditions encountered in breastfeeding.

The pump's kit is separate from the pumping mechanism and protected from overflow by a specially designed membrane. Kit components which could come in contact with the milk are part of the accessories and can be very easily disconnected for cleaning and sterilization.

A carrying case is available, offering ample space for the pump and the accessory kit.

There are two different models of Symphony with the following general specifications:

Symphony Breastpump, article no. 0240108

- one knob control for both vacuum and suction cycles
- powered by regular electric outlet (100-240 VAC)

Symphony Breastpump Plus article no. 0240208

- * same as above (0240108), but with 2 internal rechargeable 6 volt batteries

Both models can be used for single and for double pumping by using the appropriate accessory kit. Refer to the separate accessory kit user's instructions for further details.

IMPORTANT SAFEGUARDS

WARNING: To reduce the risk of burns, electrocution, fire, or injury to persons:

1. Separation from the power outlet is only assured through the disconnection of the plug and socket connection.
2. This equipment is not suitable for use in the presence of a flammable anesthetic mixture.
3. Use only in a dust-free environment.
4. Do not place in or drop motor unit into water or other liquid.
5. Do not reach for any electrical device if it has fallen into water. Unplug immediately.
6. Never operate an electrical device if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or if it has been dropped into water.
7. Only use the electric cord that comes with the Symphony Breastpump.
8. Make sure the voltage of the device is compatible with the power source.

Symphony Technical Description

Safety Instructions



Medical Equipment
With Respect to Electrical Shock, Fire and
Mechanical Hazards Only In Accordance With
IEC 60601 -1 CAN/CSA 22.2 No. 601.1 22PL

Protection class II



(Double
Insulation)



Follow Instructions



Type B



Alternating Current



Direct Current

Vacuum:

-50mmHg – -250mmHg
-7kPa – -33kPa

Power Supply:

Conventional Outlet:

100V - 240VAC
50/60 Hz
0.5 A

DC Connection:


12 VDC
25 W
T=2,5A



Use only with
Medela® Vehicle Lighter
Adapter #67173

Battery:

2 x 6 V, 1.2 Ah Type: Yuasa NP 1.2-6
Battery(optional): Battery,
DC powered
Charging time=12 hours
Full battery pumping
time=approx. 60 minutes



ESD—Use ESD protection when
servicing pump.

Disposal:

This breastpump is made of technical plastics and metals that cannot be separated.
It must be disposed of in accordance with local regulations.

Warranty:

3-years for the unit from the date of delivery, excluding pump set and batteries. The
manufacturer is not liable for any damage or consequential damage caused by
incorrect operation, inappropriate usage or use by unauthorized persons. Routine
checks, servicing and battery exchange may only be carried out by Medela
authorized personnel.

Dimensions :

	With Stand	Without Stand
Length	16.1"	8.5"
Width	16.1"	6.1"
Height	35.4"	9.6"

Weight:

With Battery: 6 lbs. 7 oz.
Without Battery: 5 lbs. 1 oz.

Environmental Conditions for Operation:

Temperature: +41°F to +104°F
Relative Humidity: 20% to 80%
Atmospheric Pressure: 70 kPa to 106 kPa

Environmental Conditions Transport and Storage:

Temperature: -4°F to +122°F
Relative Humidity: 20% to 95%
Atmospheric Pressure: 70 kPa to 106 kPa

Standards:

FDA (GMP)
ISO 9001
ISO 13485
CE (93/42/EEC)

Electromagnetic or Other Interference:

Complies with IEC 60601-1-2. Unlikely to
interfere with other electrical equipment.

Battery Care (if battery included)

Upon receipt of this pump, charge for 12 hours.

Empty charge time = 12 hours

Full Battery pumping time = about 60 minutes

When not in use for long periods of time, recharge batteries for 12 full hours
every two months

Sealed lead-acid battery. Optimal life expectancy when not fully drained on a
continuous basis. Best to keep continuously charging.

Battery Check (if battery model)



1. Charge pump for 12 hours.

**NOTE: Display switches from charging Symphony 2.0 when battery
reaches 80% charge. It takes the full 12 hours to get 100% charge.*



2. Turn the pump on.



3. Go to service menu by pushing the "On" button
again while turning the vacuum control knob
clockwise until S/N is displayed.



4. Release the power button and continue to turn
the vacuum control knob until you get "Hres"
(hour reset) then press the let-down button to
reset it back to zero.

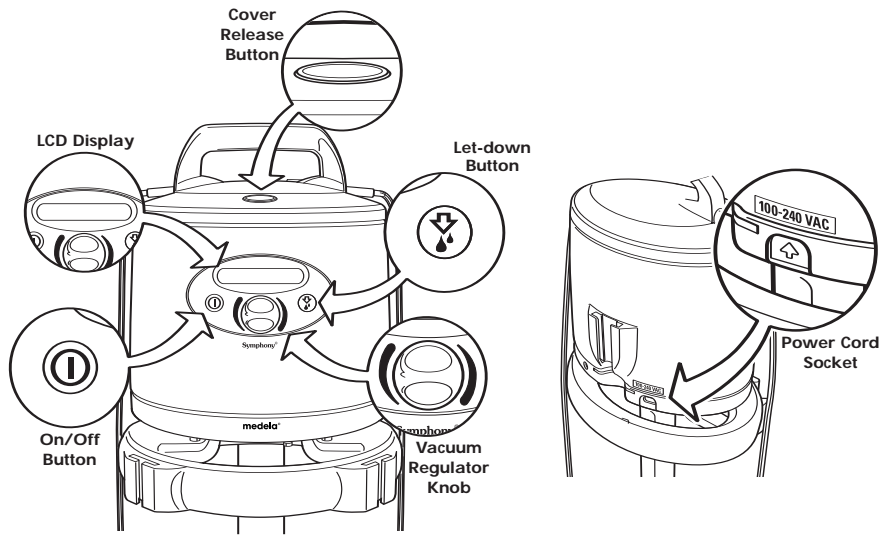


5. Let the pump run until the batteries are drained
and the screen says "Battery flat". (The pump
turns off after 30 mins and may need to be
restarted to fully drain the batteries.)



6. Once the batteries are drained, plug the pump into
a wall outlet and go back to "Hres" on the service
menu to check how long the pump ran. This time
will give an indication of the battery's condition.
A new battery lasts for about 60 minutes of
pumping time.

Symphony® Controls



Precautionary Measures/Troubleshooting

The breastpump should only be used in a dust-free environment.

What to do when...

The pump does not run when it is switched on:

- Check whether the Symphony Breastpump is properly connected to the electric supply or that the battery is charged.
- Fuse Check:
Disconnect power
Inspect fuse
Replace if needed (5x20 T800mA/250v)

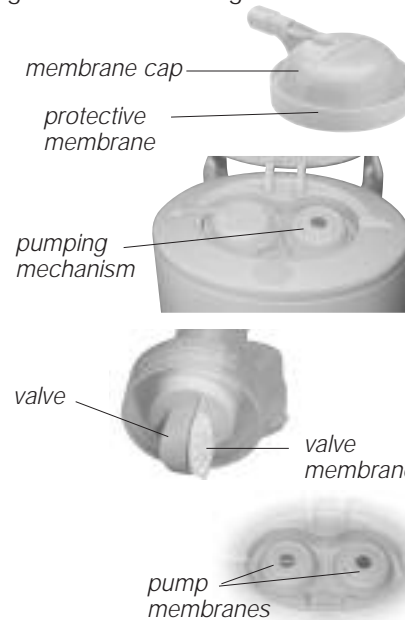


Part #9310035



Pump action is too weak:

Suction strength can be adjusted using the vacuum regulator knob. Maximum suction is achieved by turning the vacuum regulator knob all the way to the right. If suction strength is still inadequate at this setting, check whether:



- Membrane cap and protective membrane are fully assembled and pressed completely onto the pumping mechanism. *Membrane clicks into place when secure.*
- The valve has been correctly fitted onto the breastshield. Is the valve membrane clean and closing properly when in resting position?
- Does one or both of the pump membranes need to be replaced because the yellow membranes are damaged?
- If a membrane needs to be replaced, replace both of them at this time for optimal operation. (item# 67091)

Service Information

To ensure that the breastpump will provide troublefree operation for years to come, it should be examined periodically according to the following check-list.

Item	Replace at Medela®
Membranes.....	As needed*
Motor.....	6,000 hrs. (or as needed)
Gear.....	6,000 hrs. (or as needed)
Battery.....	As needed
Printed Boards.....	As needed (if pump doesn't turn on)
Housing.....	If cracked/broken

* Inspect after each cleaning/use. Replace if cracked or torn. Replacement item Symphony Pump Membrane Kit #8007199

Checking Pump Total Running Hours

1. Turn the pump on.



2. Go to service menu by pushing the "On" button again while turning the vacuum control knob.





3. Turn the vacuum control knob until you get "Htot" (hours total). This is the total hours the pump has run throughout its life.
4. Use these hours to check to see if maintenance is required. As maintenance is performed you will want to record the total hours.

Routine Maintenance

Visual Inspections and Functional Testing (once per year or when needed):

Visual Check

The breastpump should be examined for damage and dirt on the outside and repaired or cleaned if necessary.



- If dirty, wipe with a soft cloth and warm soapy water or Cavicide® solution.



Cover

- Inspect for damage and that it closes and locks shut.
 - If damaged, send back to Medela for repairs.



Housing

- Inspect for damage/cracks.
 - If damaged/cracked, send back to Medela for repairs.



Part #
8000596

Rubber Feet (4 total)

- Inspect for damage. If any are missing, replace as needed.

Pump Membranes

- Inspect for damage.
 - If damaged/cracked, contact Medela to order replacement membranes (item #8007199)
- Care must be used in replacing membranes or sensor board can be easily damaged.

Functional Test:

Every function of the breastpump must be tested according to the Instructions for Use and Service Instructions.




Vacuum Check:

- Fit the accessories to the breastpump as described in the instructions for use (included with the accessory kit). The breastshield should then be connected to a vacuum gauge.
- Connect the power cord to the main supply (power outlet) and switch on the unit.

The following values should read:

Stimulation		Expression			OFF
min*	max*	max*	min*	Elevation	
- 41	- 166	- 207	- 41	+ 6600'	
- 47	- 187	- 234	- 47	+ 3300'	
- 50	- 200	- 250	- 50	+ 1600'	
- 53	- 213	- 266	- 53	Sea Level	
*± 20 mmHg					

Stimulation mode changes to Expression mode after 2 minutes
















 unless the button is pushed.

Terms of Guarantee















The manufacturer may only be held responsible for inadequate safety, reliability and performance of the unit if:

- assembly
 - additional items
 - adjustments
 - alterations or repairs
- have been carried out by persons authorized by the manufacturer and:
- the electrical installation within the room concerned satisfies IEC requirements (in the course of preparation)
 - the unit is used as specified in the instructions for use.
 - accessory kits used on Symphony® Breastpumps are authorized by Medela®, Inc.

LCD Messages

LCD Display Indications	Description	Actions
	- Breastpump is being powered by the power cord	N/A
	- Batteries are fully charged and the pump is being powered by the power cord	N/A
	- Batteries are charging	N/A
	- Program card isn't a Symphony card	Check if correct program card is used
	- Program card is damaged and not working	Replace program card
	- Program card is incorrectly inserted	Check that card is positioned correctly
	- Program card isn't inserted	Insert program card
	- Program card isn't completely inserted	Push card in all the way
	- Battery needs charging soon, will beep every 20 seconds (15 minutes of pumping time remaining from when the indication started)	Charge the batteries soon. Be sure power cord is plugged into back of pump (see page 4)
	- Battery is completely discharged	Charge the batteries, but you may continue to pump
	- Motor drawing too much current	Send Symphony® pump to Medela® service center
	- Software configuration	Try a replacement program card if still experiencing error.
	- Wait until pump is ready for use	Wait until pump is ready for use
	- Fault in electronics of gear control	Send Symphony pump to Medela service center
	- Fault in electronics of power supply	Send Symphony pump to Medela service center

LCD Messages

Menu Items*	LCD DISPLAY INDICATIONS	Description
S/N:		- Pump serial number
Htot:		- Total life hours the pump has run (can't be reset)
Hres:		- Reset-able hours timer
Ctot:		- Total cycles (can't be reset)
Cres:		- Reset-able cycles timer
Tout:		- Remaining time until timeout occurs
Cont:		- Display contrast
Err:		- Error counter
H/W:		- Hardware revision
S/W:		- Software revision
Uin:		- Charging voltage
Ubat:		- Battery voltage
Imot:		- Motor current
Ibat:		- Current to/from the battery
Iph:		- Current over light barrier

*These items are only seen when the service menu is accessed.



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