

# CARUM

HOSPITAL-GRADE BREASTPUMP  
TO MEET THE HIGHEST DEMANDS



SWISS QUALITY 

 **ARDO**  
Hospital Recommended

# CARUM

BREASTPUMP FOR HOSPITALS AND HIRE

Ardo has developed the hospital-grade Carum breastpump to meet the most stringent requirements of both mothers and health professionals. The result is a powerful, reliable and sensitive pump which is ideally suited to meet different requirements.



## Unique, individually adjustable stimulation and expression mode

The Carum hospital-grade breastpump has many benefits: it is powerful while also being ideally suited for use in sensitive situations. It is also unbeatable in the double pump sector thanks to its dual-piston technology. Other popular features of the Carum hospital-grade pump are its ability to switch smoothly between the expression and stimulation mode as well as the large colour display with its intuitive menu control. The closed pump system "Vacuum Seal" technology guarantees maximum safety and hygiene.

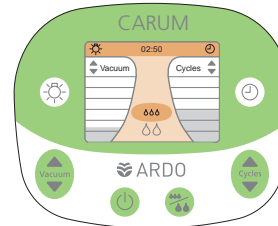
- Suction strength (vacuum) and frequency (cycle) settings can be adjusted individually and independently from one another – in both stimulation and expression mode
- Uniquely gentle switching between stimulation and expression mode (the vacuum only increases by 30 mbar)
- It is possible to change between expression and stimulation mode at any time
- Sensitive setting for sore or painful nipples
- Pleasantly quiet during use



Thanks to the different background colours, it is easy to differentiate between the stimulation and expression phases on the 3.5-inch colour screen. The vacuum and cycle settings are clearly recognisable, as they are presented using bars. At night, or in darkened rooms, the dimming function makes it possible to read the display and express in comfort.

## Particularly easy to handle and clean

- Easy to clean thanks to the smooth surface
- Large colour screen provides visual guidance
- Dimming function for comfortable expression at night
- Timing / stopwatch
- Also available with an optional mobile stand



# CARUM BATTERY

BREASTPUMP FOR HOSPITALS WITH RECHARGEABLE BATTERY

Franziska Wicki, Lactation Consultant IBCLC, Cantonal hospital Lucerne, has tested the Carum Battery and states: "I find Carum Battery particularly practical and easy to use for mothers attending outpatient clinics. The pump can also be quickly set up for immobile mothers in the postnatal department. This lightens our workload significantly."

## Lightens the workload of professionals

It is functionally identical to the existing high-quality Carum and also offers the same valuable features. A powerful integrated battery provides up to 8 hours of operation without charging. Freelance professionals can help the mother to express efficiently at home (in cases of engorgement, for instance), without the need for a mains connection. The Carum Battery therefore offers maximum power combined with excellent mobility.



## Allows location-independent expressing in the neonatal department

- Mothers can express where they can see their premature or sick child. This promotes better milk flow.
- Increased safety: it is not possible to pull out the wrong power cord

## Lightens the workload of professionals

- 8 hours of battery life without recharging (24 x 20 min.)
- Looking for a power socket becomes unnecessary, e.g. in the patient's room at night
- The battery charging time is only 4 hours
- The status of the integrated battery is shown on the screen

# TECHNICAL DATA

## CARUM AND CARUM BATTERY

	Stimulation mode	Expression mode	"Sensitive Programme"
Vacuum (intensity of suction)	30 - 150 mbar Start level 60 mbar	30 - 330 mbar Start level 30 mbar higher than in stimulation mode	Start level 30 mbar
Cycles (frequency of suction)	72 - 120 per minute Start level 90 per minute	30 - 60 per minute Start level 45 per minute	Start level 30 per minute

	Carum	Carum Battery
Contents	Breastpump, power cord, protective carry case	Breastpump with battery, power cord, protective carry case
Battery	–	Built-in (lithium)
Measurements of pump (LxBxH)	302 x 240 x 180 mm	302 x 240 x 180 mm
Weight	3 kg	3.7 kg
Power cord	Length 3 m	Length 3 m
Power supply voltage / frequency	100 - 230 VAC / 50 - 60 HZ	100 - 230 VAC / 50 - 60 HZ
Guarantee	3 years	3 years

### Compliance / norms

- ISO 13485: 2003
- CE (MDD 93/42/EEC)
- EMC tested  
(EN 60601-1-2)
- Ardo is WHO code  
compliant

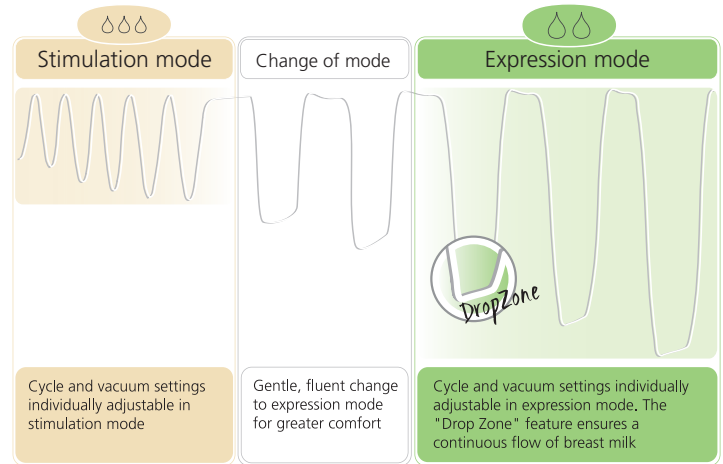


## Individual Phases

Ardo breastpumps can be adapted to the mother's personal needs and to the baby's individual suction action at any time. The vacuum intensity and cycle settings can be individually adjusted.

### For mothers who want to decide for themselves

Mothers prefer being able to adjust the number of cycles and vacuum intensity themselves to suit their individual needs. Carum is the first breastpump to allow the cycle and vacuum intensity settings to be controlled independently from one another in both stimulation and expression mode.



### Sensitive Programme



Low and gentle starting cycle and vacuum settings especially for sore and tender nipples





# CLINICARE PUMPSET

STERILE DISPOSABLE OR 24-H PUMPSET

## Ardo Pumpsets

Hospitals large and small have one thing in common: they value the extensive range of Pumpsets offered by Ardo in line with constantly changing needs.

Designed especially for use in hospitals

The high-quality Pumpset solutions offer maximum safety and can be easily combined with different milk containers for extra flexibility: alongside glass bottles, you can also choose from BPA-free plastic bottles such as disposable bottles (50 ml, 80 ml, 120 ml and 240 ml) or reusable bottles (150 ml). The practical Easy Freeze breast milk bags complete the range.



Disposable or 24-h use

- Disposable or 24-h use (8 x per day)
- In individual sterile packaging
- The only disposable pump system with a hygiene barrier integrated in the breast shell
- Excellent standard of hygiene and safety
- Easy to use



Vacuum Seal

Not made with BPA





The Clinicare Pumpset is suitable for the effective and gentle expression of breast milk. It can be used for single as well as double pumping. The Clinicare Pumpset was specially developed for the Carum breastpump.

### **Time-saving**

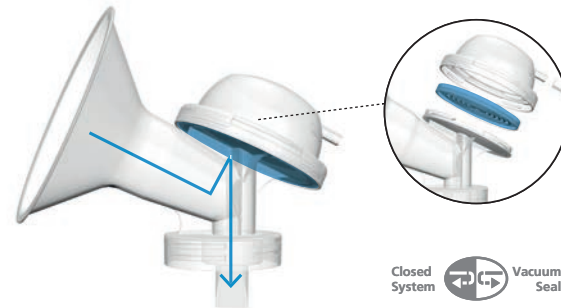
The Clinicare Pumpset, which has very few parts, features quick assembly and ease of use. The use of the Clinicare Pumpset can be easily explained, saving healthcare staff valuable time.

### **Convenient**

The sterile Clinicare Pumpset can be used immediately, that is, without cleaning prior to initial use. In addition, mothers can clean their personal pumpset themselves after repeated use. Your time and effort as healthcare staff are thus greatly reduced.

### **Excellent standard of hygiene and safety**

The Clinicare Pumpset is packaged sterile, easy to clean, and designed for use by only one mother.



In addition, the Clinicare Pumpset works with a closed pump system, based on the proven "Vacuum Seal" technology by Ardo. The hygiene barrier installed in the breast shell protects the breast milk as well as the breastpump from contamination and cross-contamination. The Clinicare Pumpset offers an excellent standard of hygiene and safety in your hospital.

# ONE MUM PUMPSET 72 H

STERILE PUMPSET FOR HOSPITALS

A mother in hospital will receive her own sterile One Mum Pumpset 72 h, which she can use, without further sterilization, for up to 72 hours. During this time she can herself take care of cleaning and storing the Pumpset (e.g. using the writable Accessory Bag).



## Reduce cost and save time – 72 hours of use without sterilizing

The One Mum Pumpset 72 h was developed for this specific application, and has been subjected to a rigorous validation process. The certified test procedures were conducted under controlled conditions, using the relevant reference pathogenic microorganisms\* and human breast milk, in order to simulate "worst case" scenarios.

Results of the microbiological tests: All pathogens used in the contamination trials could be successfully removed by washing and rinsing.

\*Pathogenic microorganisms used (bacteria and fungi):

- Staphylococcus aureus
- Enterococcus faecalis
- Escherichia coli
- Pseudomonas aeruginosa
- Candida albicans
- Aspergillus niger

- Sterile – can be used for 72 hours without sterilizing (proven cleaning procedure)
- For longer and more cost-effective use
- Environmentally friendly reusable solution
- Individually adaptable, five different sizes of sterile breast shells available
- Accessory bag: washable and writable storage bag for two Pumpsets
- With a hygiene barrier: 100 % barrier against contamination thanks to the "Vacuum Seal" technology

## Models and Accessories of the One Mum Pumpsets 72 H

All Ardo One Mum Pumpsets 72 h are available sterile in all sizes. Enormous cost and time savings are achievable when the pumpset is compared with conventional reusable systems which must be sterilized before use.

All sizes are available sterile

- One Mum Pumpset 72 h, Ø 26 mm
- One Mum Pumpset 72 h, Ø 31 mm
- One Mum Pumpset 72 h, Ø 36 mm
- Breast shell insert, Ø 22 mm
- Breast shell insert, Ø 28 mm
- Accessory Bag (non-sterile) to store One Mum Pumpset 72 h

## CLINIC PUMPSET

PUMPSET FOR HOSPITALS



Reusable

- Can be sterilized
- Includes 26 mm breast shell
- Other breast shell sizes available
- Ideal for breastpump hire
- With a hygiene barrier: 100 % barrier against contamination thanks to the "Vacuum Seal" technology

# ARDO PUMPSETS

FOR EVERY NEED



		Clinicare Pumpset	One Mum Pumpset 72 h	Clinic Pumpset
Degree of sterility	Sterile	✓	✓	
	Non-sterile			✓
Use	1x	✓		
	≤ 24 h	✓		
	≤ 72 h		✓	
	> 72 h			✓
Number of users		one mother	one mother	several mothers
Bottle				✓
Sizes	Ø in mm	22   26   31	22   26   28   31   36	22   26   28   31   36

# CLINISTORE

GAMMA-TREATED DISPOSABLE MILK BOTTLE

The Ardo Clinistore bottles were developed especially for hospitals. The disposable bottles can safely collect and store up to 240 ml of breast milk.



## Clinistore meets the highest hospital hygiene standards

The sterilized Clinistore bottles can be used without pre-treatment and are also suitable for pasteurizing or freezing breast milk.

All bottles have a graduated scale with 1 ml / 2 ml units, making it easy to read off the exact quantity of milk. For the 50 ml bottle, the graduated scale already starts at 2 ml, so that even the smallest amounts of breast milk can be read off.

- Express-Store-Feed
- Disposable
- Sterilized
- Compatible with all Ardo pumpsets
- Four sizes: 50 ml, 80 ml, 120 ml, 240 ml
- Standardized bottle neck
- Graduated scale with 1 ml / 2 ml units
- Scale of the 50 ml bottle starts with 2 ml

## Bottles and Containers

### EASY FREEZE

BREAST MILK STORAGE BAG

- Express milk straight into the protective bag
- Unique feature: integrated heat indicator
- The filled bag will stand on its own
- Double coating protects milk against unwanted odours
- Extra tear-proof



### EASY FREEZE HOLDER

BOTTLE HOLDER FOR CARUM

- Alternative to conventional bottle holders
- Suitable for Easy Freeze and small bottles
- Easy to clean by wiping with disinfectant



### CLINISTORE

GAMMA-TREATED DISPOSABLE MILK BOTTLE

- Sterilized
- BPA-free
- Available in four sizes:  
50 ml, 80 ml, 120 ml, 240 ml
- Graduated scale with 1 ml / 2 ml units



### MILK BOTTLE

BOTTLE FOR BREAST MILK

- Reusable
- BPA-free
- Lid with removable lid insert
- 150 ml with graduated scale of 10 ml



### GLASS BOTTLE

HOSPITAL GLASS BOTTLE

- Can be sterilized
- Includes lid
- 130 ml with graduated scale of 10 ml



### EASY CUP

FEEDING CUP

- Can be sterilized
- Feeding without nipple confusion
- Cup without spout reduces risk of aspiration
- BPA-free
- 50 ml with graduated scale of 5 ml



## Practical accessories

### OPTIFLOW

ACTIVE MASSAGE INSERT

- Active massage effect
- Helps particularly with engorgement around the areola
- The 31 mm breast shell is needed for pumping with the Optiflow.
- Soft, silky-smooth silicone



### ACCESSORY BAG

PUMPSET STORAGE BAG

- Storage bag for two Pumpsets
- Can be labelled with name and date
- Washable at 60 °C
- Integrated suspension loop



### CONTAINER

TRANSPORT AND STORAGE OF CARUM

- Safe and hygienic
- Easy to clean
- With address field for drop shipment



### MOBILE STAND

FOR CARUM

- Stable and versatile
- Integrated storage for power cord
- Antistatic castors



### EASY CLEAN

MICROWAVE BAG

- For rapid and reliable cleaning
- Easy to use
- 100 applications (5 microwave bags)
- Saves energy and expense



### TULIPS

NIPPLE SHIELDS

- Also ideal for unusual shaped nipples
- Easier for premature babies to suck
- To relieve sore, painful nipples
- Made with skin-friendly silicone





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