

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, 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 "Vacuum Seal" technology guarantees maximum safety and hygiene.

- Fully automatic expression at the touch of a button
- Suction strength (vacuum) and frequency (cycle) settings can be adjusted individually and independently from one another – in both stimulation and expression mode
- Sensitive setting for sore or painful nipples
- 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
- Pleasantly quiet during use



Hygienic
Barrier



Vacuum
Seal

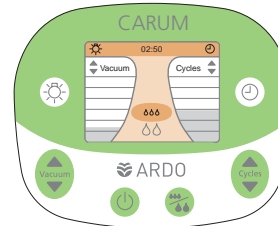
Sensitive
Programme



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 WITH RECHARGABLE 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
Art. no.	63.00.71	63.00.75
Contents	Breastpump, European mains cable, protective carry case	Breastpump with battery, European mains cable, protective carry case
Battery	–	Built-in (lithium)
Measurements of pump (LxBxH)	302 x 240 x 180 mm	302 x 240 x 180 mm
Power cable	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

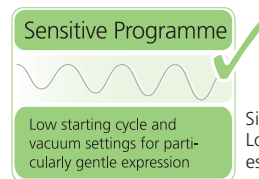
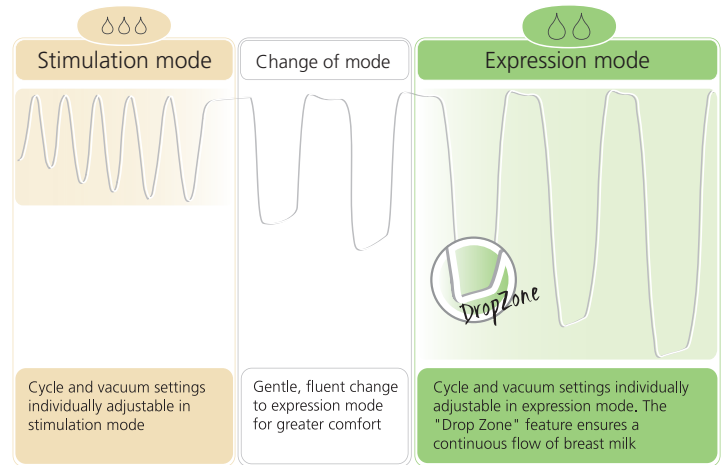


Individual Phases

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.



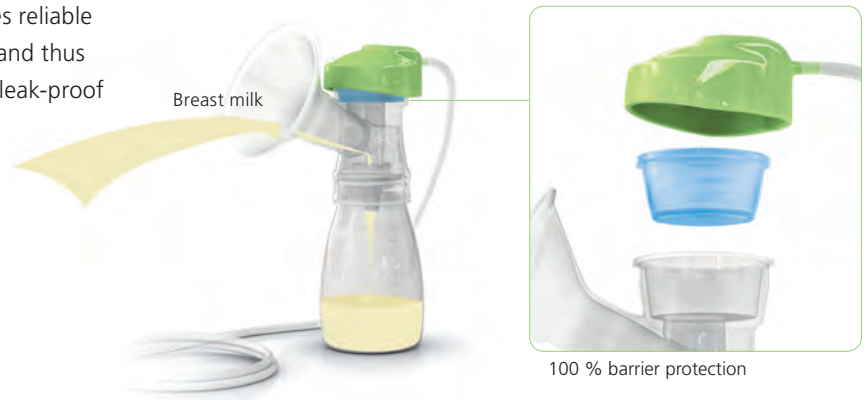
Simply unique: the "Sensitive Programme". Low and gentle starting cycle and vacuum settings especially for sore and tender nipples.

"Vacuum Seal" technology



High standards of hygiene and safety are achieved through "Vacuum Seal" technology

The proven "Vacuum Seal" technology serves as a 100 % barrier against bacteria and ensures that no breast milk or impurities can enter the connecting tube or pump. This provides reliable protection against contamination of the breast milk and thus prevents infection. The efficacy of the bi-directional leak-proof membrane pot was verified by an independent Swiss Laboratory in 2011.



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 (80, 140 and 230 ml), reusable bottles (150 ml) and disposable colostrum bottles (45 ml). The practical Easy Freeze breast milk bags complete the range.

CLINIC PUMPSET

PUMPSET FOR HOSPITALS



Reusable

- Can be sterilised
- 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

Hygienic
Barrier



Vacuum
Seal



All Pumpsets are compatible with the following Ardo bottles and containers:



ONE MUM PUMPSET 72 H

PUMPSET USED IN HOSPITALS FOR 72 HOURS

A mother in hospital will receive her own sterile One Mum Pumpset 72 h, which she can use, without further sterilisation, 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 sterilising

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 sterilising (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

Hygienic
Barrier



Vacuum
Seal



Models and Accessories

All Ardo One Mum Pumpsets 72 h are available sterile in all sizes. Enormous cost and time savings are achievable when the set is compared with conventional reusable systems which must be re-sterilised.

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
- Milk Bottle 150 ml
incl. bottle top with removable insert
- Accessory Bag (non-sterile)
to store One Mum Pumpset 72 h



ONE MUM PUMPSET PRE-TERM

PUMPSET USED IN HOSPITALS, INCLUDING NEONATAL WARDS

The sterile disposable pumpset One Mum Pumpset pre-term fulfils the highest hygiene requirements.



Single use

The One Mum Pumpset pre-term is individually wrapped, sterile, and intended for single use only. This disposable pumpset therefore offers the highest level of safety and hygiene for mother and baby. These particular benefits mean that the pumpset is often used in neonatal units.

The One Mum Pumpset pre-term can be combined with the 22 mm sterile breast shell insert.

- Sterile, individually wrapped
- Individual disposable Pumpset, specially designed for use in neonatal units
- With a hygiene barrier: 100 % barrier against contamination thanks to the "Vacuum Seal" technology
- Fulfils the highest standards of hygiene
- Includes 26 mm breast shell
- Tube and tube connector can be ordered as reusable accessories (bulk order of 50 pcs)

Hygienic
Barrier



Vacuum
Seal



DAY & NIGHT PADS

DISPOSABLE BREAST PADS



Comfort and protection

- Leakage protection at the sides for reliability
- Absorbent and comfortable to wear
- Ergonomic 3D design
- Individually wrapped for extra hygiene

Contents: 60 or 30 disposable breast pads

TULIPS

NIPPLE SHIELDS



Make it easier for babies to latch on

- Assists with sucking or latching on problems
- Also ideal for unusual shaped nipples
- Easier for premature babies to suck
- To relieve sore, painful nipples

Inhalt: 2 nipple shields, size M or L

Bottles and Containers

GLASS BOTTLE

CLINIC BOTTLE MADE OF GLASS

- Can be sterilised
- Preferred bottle of many clinics
- Keeps the breast milk warm for longer
- Includes bottle cap
- 130 ml with graduated scale of 10 ml



MILK BOTTLE

FOR EXPRESSING BREAST MILK

- Sterile
- Individually packed
- Bisphenol A free
- Bottle top with removable insert
- 150 ml with graduated scale of 10 ml



COLOSTRUM BOTTLE

FOR COLLECTING COLOSTRUM

- Sterilised, for single use
- With a curved base
- Includes bottle cap
- Bisphenol A free
- 45 ml with graduated scale of 1 ml



DISPOSABLE BOTTLES

FOR EXPRESSING BREAST MILK

- Sterilised, for single use
- Includes bottle cap
- Bisphenol A free
- 80 ml, 140 ml, 230 ml with graduated scale of 5 ml



COLOSTRUM DIAPHRAGM

FOR COLLECTING COLOSTRUM

- Can be sterilised
- The smallest amounts of breast milk can be optimally collected
- Bisphenol A free
- Fits any Ardo bottle



EASY CUP

ALTERNATIVE FEEDING METHOD

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



Practical accessories

OPTIFLOW

EFFICIENT MASSAGE INSERT

- Soft, silky-smooth silicone
- Active massage effect
- Helps particularly with engorgement around the areola
- Comes with a suitable breast shell 31 mm



ACCESSORY BAG

EASY CLEANING AND STORAGE

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



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

FOR EXPRESSING INTO BREAST MILK BAGS

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



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





Mother & Child



Suction Technology



Neonatal Care



Pressure Ulcer Management

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