CODAN

Volumetric infusion pumps

Barcode Assisted Infusion: Innovative infusion therapy solutions



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Volumetric infusion pumps

Introducing the next generation of innovative Barcode Assisted Infusion (BAI)

In today's hospital environment the challenges are growing manifold in all different fields. Patient safety, the need for continuously increasing work efficiency and for enhancing the overall quality of service in hospitals are just a few of them.

CODAN ARGUS, based in Baar, Switzerland, one of the international CODAN Companies and a leading infusion technology specialist, introduces the next level of **B**arcode **A**ssisted **I**nfusion (BAI) therapy workflow.

With this generation of BAI, CODAN ARGUS presents a unique and innovative solution that increases both **patient safety** and **workflow efficiency** in hospital environments where time and precise application of drugs play a critical role.

The BAI workflow can easily be integrated into any ward, such as Oncology departments, general wards, or Intensive Care Units, to provide:

- The right drug
- In the right dose
- To the right patient
- By the right medical staff

With BAI, physicians, nurses, and all other medical professionals can focus on their patients and at the same time be confident, that the highest safety standards are applied.



BAI - The safety package for critical treatments, such as in Oncology

Infusion therapies, for example with cytostatics for Oncology treatments, require a precise administration of intravenous medications to reduce the risk of operating errors and to ensure the highest patient safety standards possible.

This generation of BAI improves the entire chemotherapy infusion workflow, from the medication to the patient, combined with precise and clear infusion data.

This simple multidrug workflow ensures efficient and safe infusions thanks to the Extra Volume To Be Infused (E-VTBI) feature and rinsing cycles as well as the optional four eyes authentication possibility.

Please note, during the entire workflow, medical staff must manually confirm any treatment step before starting the infusion to guarantee the safe administration of any drug.

Extra Volume To Be Infused (E-VTBI) workflow

The integrated E-VTBI workflow offers the possibility to efficiently and precisely administer any remaining drug within the infusion container following normal infusion.

This workflow provides the perfect solution to administer the complete drug to the patient and to reduce costs when working with expensive drugs, such as cytostatics.

Rinsing workflow

The Barcode Assisted rinsing workflow provides the possibility to easily and efficiently execute rinsing between drugs or at the end of the chemotherapy.

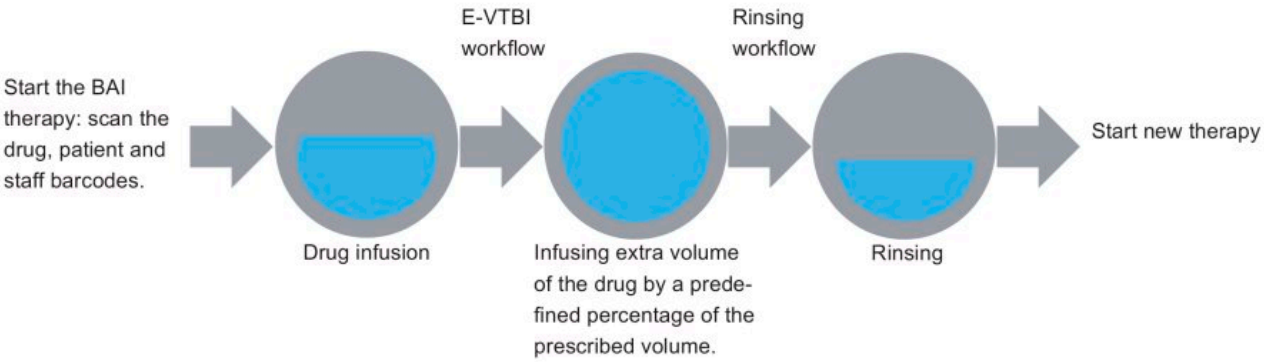
Two rinsing modes within the BAI mode are available; both are manually configurable to individual requirements:

1) Intermediate rinsing between drugs: a fast rinsing option (preset volume), using the last used infusion rate.

2) Final rinsing at the end of the chemotherapy: fast rinsing option (preset volume) using the last used infusion rate

The rinsing can also be executed manually through the “BASIC THERAPY” mode.

Example of a BAI multidrug workflow with E-VTBI and rinsing



The unique BAI workflow in brief

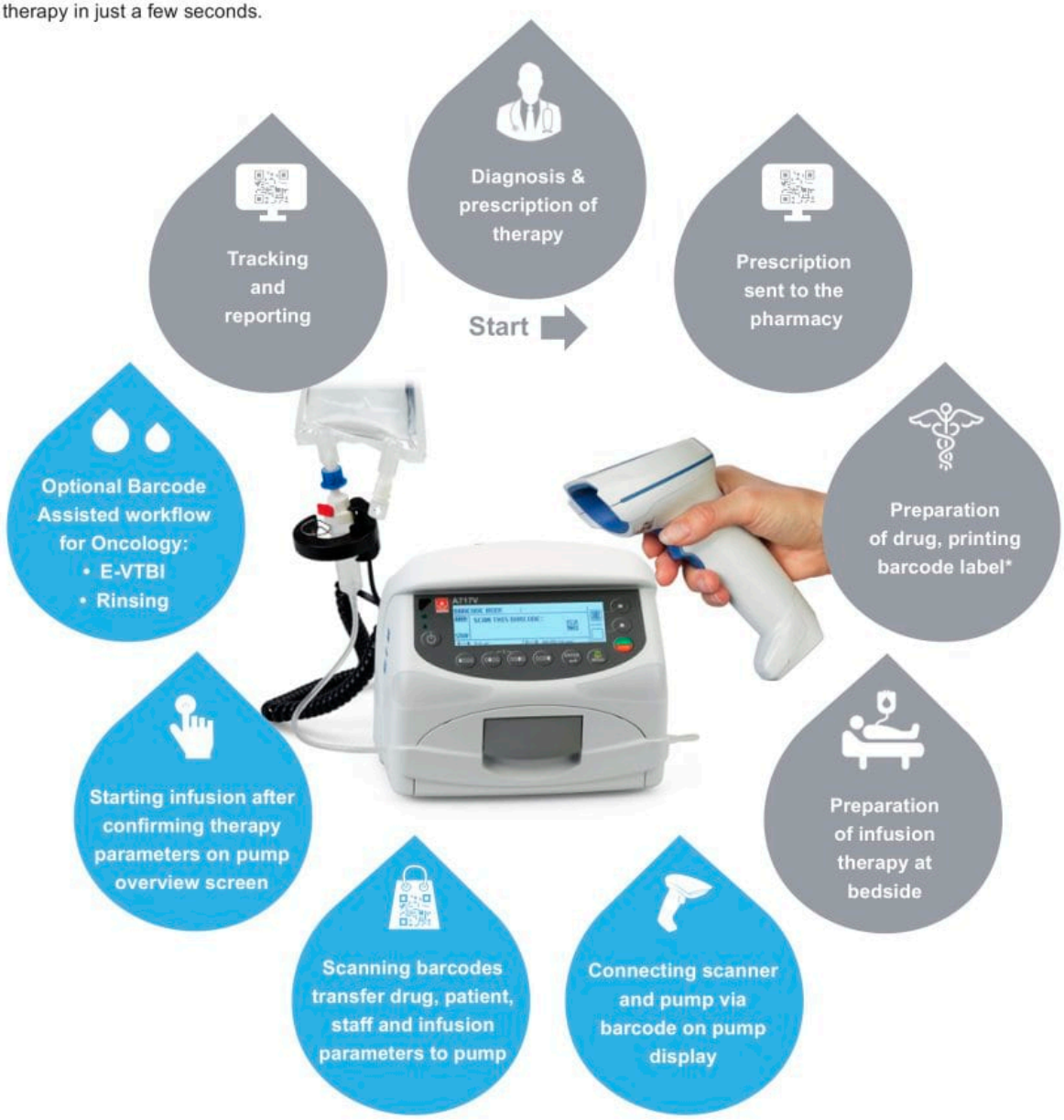
By including the entire infusion therapy parameters into the barcode, BAI delivers an entirely new level of user-friendliness and patient safety.

From prescription to applying the infusion therapy to the patient: the BAI workflow assures that the right patient receives the right drug, in the right dose and is only administered by authorised medical staff.

With the BAI workflow, it is possible to set up and start the infusion therapy in just a few seconds.

CODAN volumetric infusion pumps with the BAI workflow

- Significantly reduce operating errors
- Enhance patient safety
- Increase work and cost efficiencies within wards



* Requirements: for printing barcode labels, the CODAN ARGUS barcode label specifications must be integrated within the pharmacy software in use.

Our BAI workflow - Your advantages

BAI ensures the correct administration of medication, reduces therapy risks and adverse drug events in everyday use across every ward, especially for multidrug infusion treatments, such as in Oncology.

The BAI workflow is specifically designed for the CODAN A717V and CODAN A718V volumetric infusion pumps.



Enhances patient safety

- Right prescribed drug to the right patient (crosscheck of patient ID)
- Prescribed drug dose with correct volume, time and rate
- Strict therapy approval process, staff and optional senior staff authentication
- Works independently of IT networks

Increases work and cost efficiencies

- Simple self-explanatory and guided BAI workflow during the entire scanning process
- Crosscheck with medical prescription: summarised therapy parameters before the start of infusion
- Faster drug administration
- E-VTBI possibility for emptying the infusion container
- Fast-rinsing possibilities between cytostatics

Efficient and intuitive BAI workflow

Simply complete each of the following steps to start an infusion therapy with the BAI workflow.*



Step 1: Pairing

Turn on the pump, then select “BARCODE MODE” from the “SEL. THERAPY PROFILE” menu.

Now scan the barcode on the pump display, to pair the barcode scanner with the pump.

Step 2: Scan drug barcode

When scanning the drug barcode on the medication bag, the pump receives all the therapy parameters required for the correct application of the drug.

Therapy parameters on the medication bag include:

- Volume
- Rate
- Time
- Patient ID
- Staff ID



Step 3: Scan patient barcode

By scanning the patient ID barcode, it is ensured that the infusion therapy is administered to the right patient.



Step 4: Authentication of staff

For authentication purposes, the staff ID barcode must now be scanned.

For critical therapies, additional authentication by senior medical staff may be required due to hospital safety standards.

CODAN volumetric infusion pumps with the BAI workflow can be configured to provide additional authentication as required (four eyes principle).





Step 5: Confirm therapy setup

Now simply check that all BAI therapy parameters displayed on the preview screen of the pump before manually starting the infusion.

Additional infusion therapies

To set up a new infusion therapy (rinsing or drug), simply repeat the BAI workflow.



Efficient and safe

A trained nurse can complete the five steps of the BAI workflow in just a few seconds.

* For more details, refer to the product user manual.

Volumetric infusion pumps CODAN A717V/A718V

We believe that products and services shall support the user needs anytime and anywhere. That is why our volumetric pumps are intuitive, easy to use, robust and accurate and can be used over a long time.

Furthermore, we not only offer customer-specific configurable infusion therapy solutions, but we also provide fast, uncomplicated and individual support.

Volumetric infusion pump CODAN A717V

Performance and operational data*

Infusion rate:	0.1 to 1,200 ml/h
Programming:	rate in ml/h, volume in ml, duration in h and min
Accuracy:	±5 % with CODAN qualified administration sets
Additional features as:	Fluid Balancing, Accumulated Volume, Night Mode
History and event log:	up to 1,000 events
Communication interface:	connection to docking stations



Infusion sets

A717V: CODAN Standard, green line®, LIGHT-PROTECTED, LIGHT-SAFE™ and other validated infusion sets

Volumetric infusion pump CODAN A718V

Performance and operational data*

- As the A717V



Infusion sets

CODAN IVIP® dedicated infusion set with an Anti-Free-Flow clamp

* For more details, refer to the product factsheet and user manual.

Advantages CODAN A717V/A718V at a glance

Superior user-friendly pumps

- Easy and fast pump operation
- Intuitive customer-specific set up of a pump with ARGUS*service* software
- Simple keyboard with noticeable buttons
- Weight less than 2 kg with battery and integrated power supply
- Similar user interface and handling as CODAN A616S *InCare* and CODAN A616S *TCI* syringe pumps

Robust and durable devices

- Impact-resistant housing to protect against mechanical and electrical shock
- High-quality materials for a long and service efficient lifetime

Safe devices

- State of the art safety mechanisms
- Defibrillator proof
- Manual door handling increasing safety in emergencies

Available options and accessories

BAI workflow for Oncology including

- BAI therapy profile: single rate intravenous infusion
- BAI standard workflow: scanning sequence drug, patient, medical staff
- BAI authentication possibilities: staff role, staff ward also control staff
- BAI E-VTBI workflow
- BAI rinsing workflow:
  - Manual rinsing
  - BAI rinsing mode
    - Intermediate rinsing (last used rate, predefined volume, rate change possible)
    - Final rinsing (last used rate, predefined volume, rate change possible)

Further options and accessories

- Customised medication database
  - Up to 256 drugs, possible with safety limits and dose calculation
- Barcode scanner
- Coloured door handles
- Country and customer specific power cables
- Drop detector
- Bottle holder
- Different installation of rail holder
- Two infusion stand models
- Two docking stations in three sizes
  - Version M: PDMS link + power supply
  - Version P: only power supply

Convenient service solutions for pumps

As the manufacturer of CODAN infusion pumps, we are not only responsible for providing technical services; we are dedicated to supporting our customers in all technical areas.

Our experienced service team offers fast, high-quality, specific preventive and corrective maintenance solutions. Worldwide, only CODAN certified service partners represent our idea of service. In addition, we also offer modular technical training programmes to our customers.

Please contact your local CODAN representative for more and detailed information.

Service portfolio

- Safety standard check
- Electrical safety inspection
- Firmware updates and security updates
- Calibration services
- Maintenance and repair services
- Complete documentation including customised maintenance management
- Modular technical training



Superior service-friendly pumps

- Easy pump maintenance with ARGUS*service* software
- Service-friendly pump hardware
- High availability of lifetime spare parts and calibration tools

Customised service solutions

- Preventive maintenance solutions
- Fast and high-quality technical support
- Customer oriented modular technical training programmes

Worldwide trusted infusion therapy solutions

CODAN, an international company, is specialised in the development, manufacturing and distribution of medical transfer systems.

CODAN products are specially designed to meet the requirements of critical care situations, where doctors and other medical staff bear the ultimate responsibility for ensuring patient survival. A broad range of products not only meets top quality and safety standards but also offers customised solutions to a large number of medical requirements.

Safe preparation and administration of cytostatics

CODAN CYTO® products are specially developed for the reliable and secure preparation and administration of cytostatics. Together with CODAN volumetric infusion pumps, this medical transfer system offers safety for the patient and the user.



CODAN CYTO®

Connect Z®

- Needle-free Mixing adapter
- Connect Z® Clip: secured connection to the infusion bag
- ONCE-LOCK: not disconnectable connection
- The right solution for every drug (I.V.STAR® Filter, LIGHT-PROTECTED*)

Cyto-Ad-Wing Z®

- Wing-Valve: easy and fast filling and priming of the closed system
- Complete administration
- Check Valves: avoidance of leaks and retrograde infusions

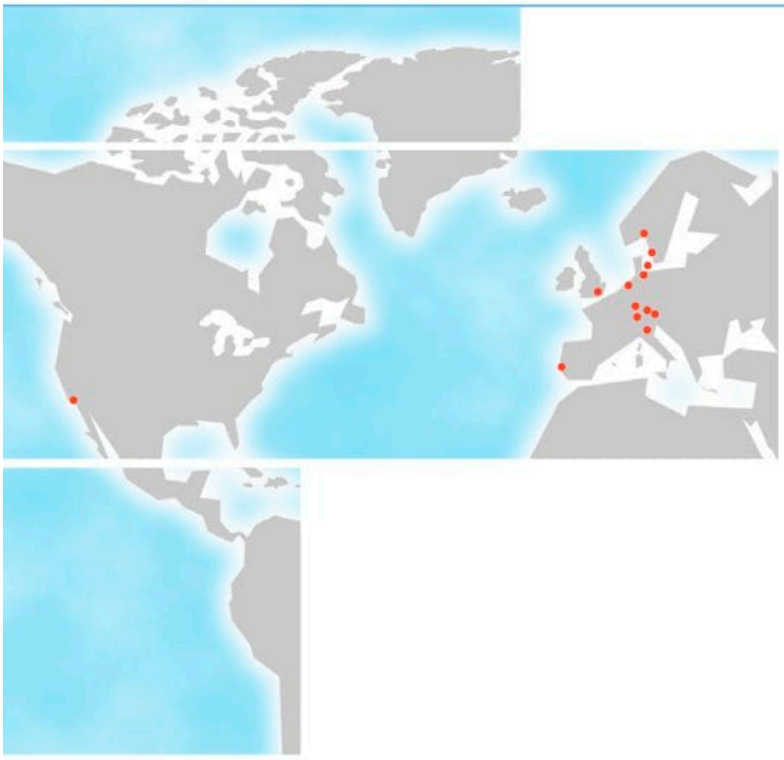
CODAN A717V/A718V with BAI

- Significantly reduce operating errors
- Enhance patient safety
- Increase work and cost efficiencies within wards

For detailed information, please visit, **www.codan.de** and **www.codanargus.com**

* Not shown in picture

CODAN Worldwide



CODAN is known internationally as a manufacturer and supplier of disposable medical transfer systems. The CODAN Companies have more than 1500 employees around the world.

The name CODAN is synonymous with reliability, quality and precision based on the know-how and experience gained from more than 60 years of research and development. Company-owned production facilities and sales companies around the world are a guarantee for efficient production, a tight-knit sales network and a first-class service for customers in the healthcare sector.

CODAN Product range

- Infusion sets
- Transfusion sets
- Extension lines and manifold connectors
- Infusion and transfusion accessories
- Infusion filters and filter systems
- Neonatology/Paediatric products
- Withdrawal, preparation and administration systems
- CODAN CYTO®
- Chemoprotect® products
- Single use syringes
- Invasive blood pressure monitoring systems
- Infusion pumps
- Other CODAN Products

CODAN Companies

CODAN Medizinische Geräte GmbH & Co KG · Deutschland
CODAN pvb Critical Care GmbH · Deutschland
CODAN pvb Medical GmbH · Deutschland
CODAN PORTUGAL, S.A. · Portugal
CODAN 11, S.A. · Portugal
CODAN US Corporation · California · USA
CODAN Inc. · California · USA
CODAN NORGE AS · Norge
CODAN TRIPLUS AB · Sverige
CODAN Limited · Great Britain
CODAN FRANCE Sarl · France
CODAN Medical AG · Schweiz
CODAN ARGUS AG · Schweiz
CODAN BV · Nederland
CODAN s.r.l. · Italia
CODAN Medical GmbH · Österreich
CODAN Medical ApS · Danmark
CODAN DEHA ApS · Danmark

Compliance of the established quality management systems with the provisions of EN ISO 13485 and the Council Directive 93/42/EEC has been certified by the relevant, competent notified bodies:

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The decisive connection

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