

ColostroMAT

**Förster-Technik GmbH
40FIT Schulung KW 20/2016
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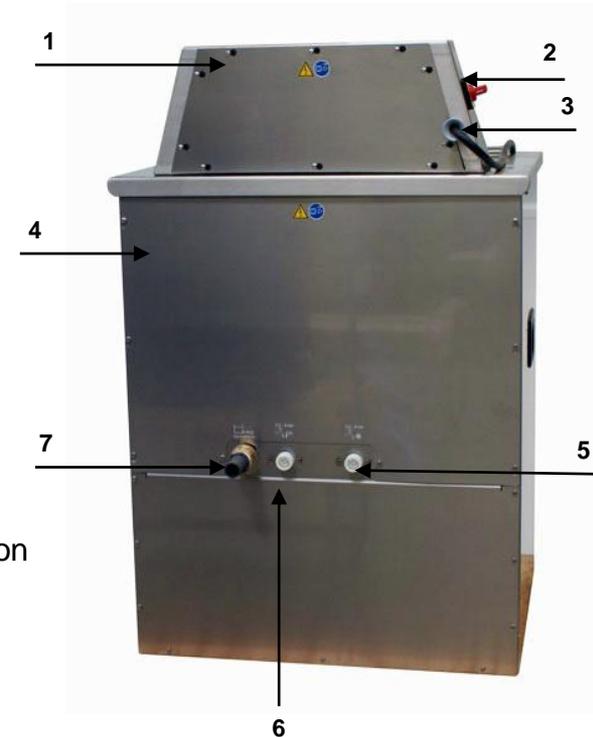


Overview ColostroMAT

- 1 Control unit box
- 2 Control
- 3 Lid
- 4 Water tank
- 5 ColostroBAG-storage
- 6 Handle



- 1 Control unit box
- 2 Main switch
- 3 Power connection
- 4 Service door
- 5 Cold water supply
- 6 Warm water connection
- 7 Water drain



Overview ColostroMAT

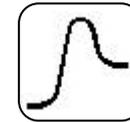
- 1 Bag holder
- 2 Bax fixer



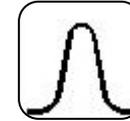
Control / Operating unit ColostroMAT



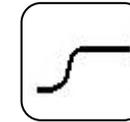
Profile 1



Profile 2



Profile 3



Profile 4

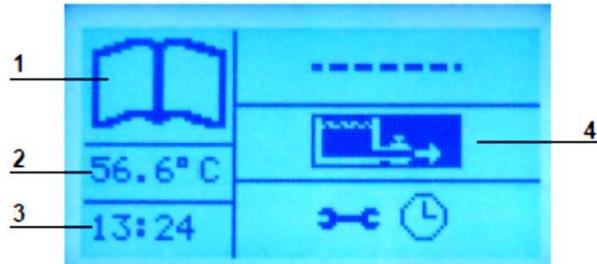


Main menu



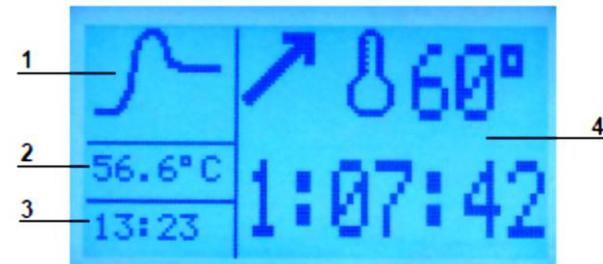
Display indicator

Example Display indicator main menu:



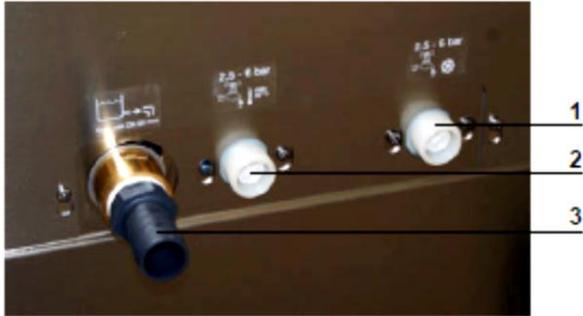
- 1 Operating mode (main menu)
- 2 Temperature
- 3 Time
- 4 main menu

Example Display indicator Profile:



- 1 Operating mode (Profile 1)
- 2 Temperature
- 3 Time
- 4 Condition of Profile 1

Commissioning

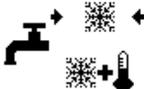
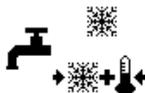


- 1 Cold water supply
- 2 Warm water supply
- 3 waste water

■ Installation ColostroMAT

- Even ground
- Connect water supply
 - Water hose to cold water
 - Water hose to warm water if needed
 - Drain hose to the outflow and into the gully

Commissioning

- Connect power plug and turn on via main switch
- When switching on the first time, select water supply via  
 - Cold water supply 
 - Warm and cold water supply 
- Set time:  >   > 
 - Select hours and minutes via  

■ Device mode

- Standby mode: water temperature is kept at 42°C (disabled by default)
- Waiting mode: device doesn't perform any function
- Function mode: a profile is running

■ There is a difference made between two operating modi:

- Basic mode 
- Expert mode 
 - Press  while starting with the main switch
 - While holding , in the left of the display is shown 

Operating modi

-  Basic mode: limited changes in the settings possible
 - Mail menu:
 -  Drain valve
 -  Start cleaning
 -  Time

Operating modi

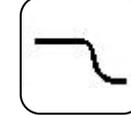
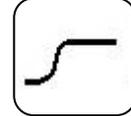
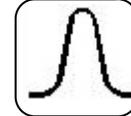
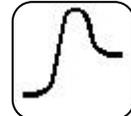
■ Expert mode: Changes in the setting possible

■ Main menu:

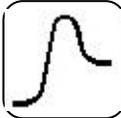
-  Drain valve
-  Start cleaning
-  Time
-  Diagnosis
-  Water supply settings
-  Cleaning settings
-  Time settings
-  Drain valve settings
-  Contrast settings
-  Standby settings
-  Temperature unit
-  Profil settings
-  Factory settings
-  Informations

■ Start profile

- With profile 1 the water bath is heated up and following hold on 60 °C for 60 minutes. After that, it's cooled down to 42 °C.
- With profil 2 the water bath is heated up and following hold on 60 °C for 60 minutes. After that, it's cooled down.
- With profil 3 the water bath is heated up to 42 °C.
- With profil 4 the water bath is completely emptied and filled with cold water.



Profile process - Profile 1

- Place ColostroBAGs in the bag holder
- Fix ColostroBAGs
- Pusch  and start profile with **Enter**

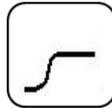


Profile process - Profile 3

■ Place ColostroBAGs in the bag holder

■ Fix ColostroBAGs

■ Push



■ Select temperature of the ColostroBAGs

-  Room temperature
-  Cooled
-  Frozen
-  only appears if there was something set in the expert mode

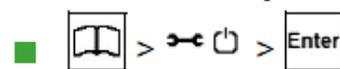
■ Start profile with **Enter**



- The cleaning is consisting of the following steps:
 - Pre-rinsing
 - Main rinsing
 - Post-rinsing
- Procedure of the cleaning
 1. Place detergent reservoir in the rotating cage
 2. Fill detergent in the reservoir
 3. Switch into the cleaning menu   via 
 4. Confirm with **Enter** to start the cleaning.
 5. The cleaning starts and all LEDs over the profile buttons blink.

Set standby time

- Standby time can only be changed in the expert menu.



- > Enter Set standby times are shown
- > Enter Select the desired temperature in the standby via
- > Enter Select start of the standby phase via
- > Enter Select end of the standby phase via
- > Enter Select start of the standby phase 2 via
- > Enter Select end of the standby phase 2 via

Note: If there are two overlapping standby phases, the one which lasts longer obtains

Set parameters for profile 1

- You can only change the profile parameters in the expert mode

-  >  > 
-   Selection of the pasteurisation time via   confirm with **Enter**
-   Selection of the pasteurisation temperature via   confirm with **Enter**
-   Selection of the feeding temperature via   confirm with **Enter**
-   Selection of the time to the end of the profile via   confirm with **Enter**

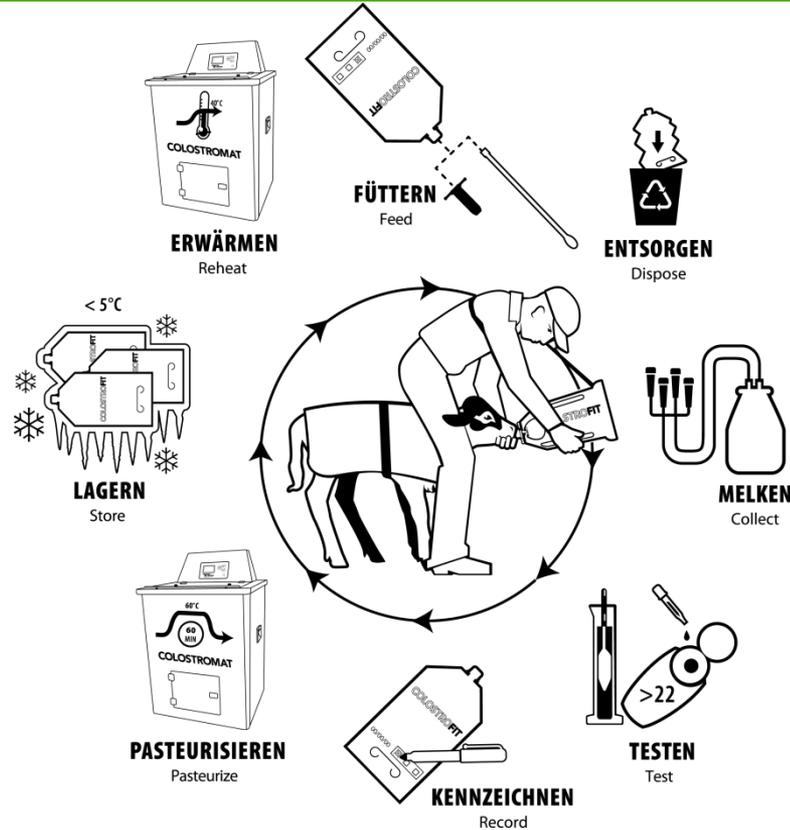
Warnings / error messages

- Lack of water 
- Drain valve 
- Heating 
- Sensor   

Software update

- Turn off the ColostroMAT and remove the power plug
- Open control unit box
- Insert SD card in the provided Slot on the board
- Insert power plug and switch on the ColostroMAT
- Wait until the update is performed and confirm with **Enter**
- Turn off the ColostroMAT and remove the power plug
- Remove SD card
- Close control unit box
- Insert power plug and switch on the ColostroMAT

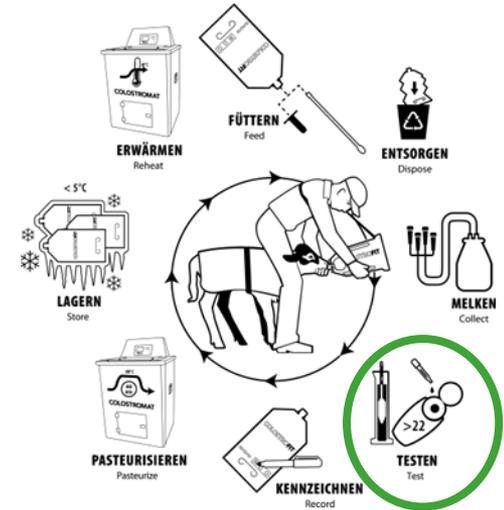
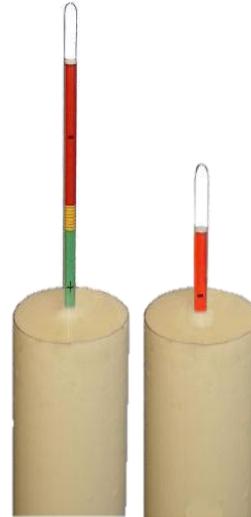
ColostroFIT – the Solution





Ensure quality

- Spindle (Colostrometer) or refractometer
 - Min. 50 g IgG/l



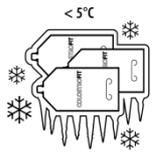


Pasteurization

Pasteurization

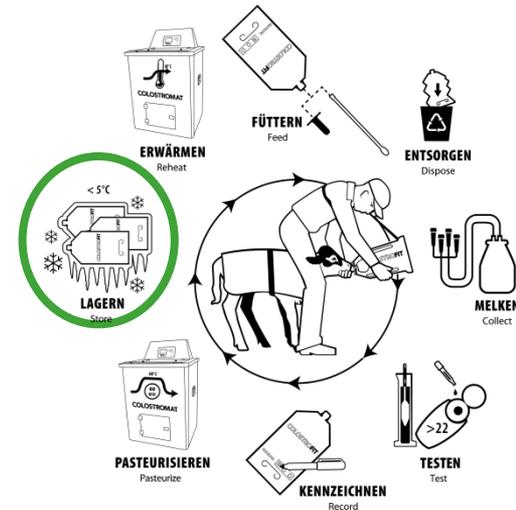
- 60 °C for 60 min
- Carefully in a water bath
- Use ColostrumBAGs





Storage

- At a temperature of 1-2 °C in the refrigerator can be kept up to 7 days¹
- In the freezer (-20 °C) the colostrum can be kept for up to a year¹
 - Long-term storage after pasteurization in cases where no colostrum is available from the mother cow

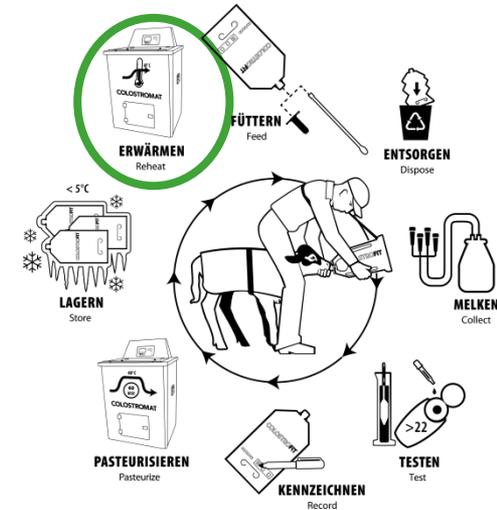


(¹"Calf Rearing Guide" Practical and easy to use, S.J.Charlton, CONTEXT)

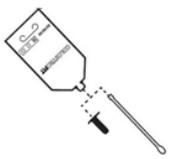


Rewarm

- Rewarm to 40 °C
 - to the optimal feed temperature
 - Use ColoastroBAG

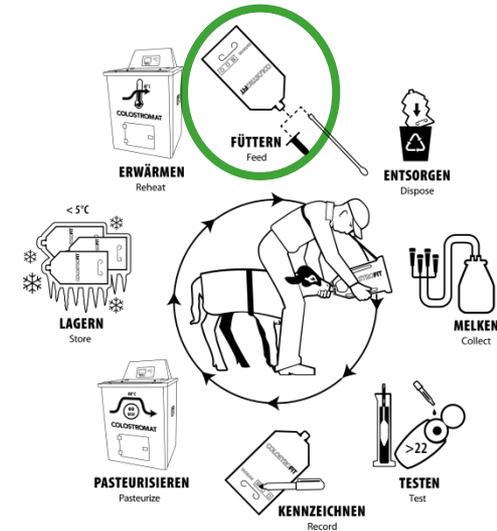


(1, „COLOSTRUM Pasteurizing Guidelines“, Sam Leadley, Calf & Heifer Management Specialist,
© Attica Vet. Assoc. 2013)



Feed

- Feed the calf within 4 hours or sooner after birth
 - 6 hours after birth the absorption rate has decreased by half
("Colostrum Feeding Checklist", Sam Leadley, Calf & Heifer Management Specialist, © Attica Vet. Assoc. 2013)
- Tube calves only if necessary
 - get instruction from veterinarian



ColostroFIT- the solution

■ ColostroMAT

- pasteurization and heating
 - gentle heating in a water bath
- easy to set up
- intuitive operation
- clear structured and safe work flow



ColostroFIT- the solution

■ ColostroKIT

- Consumables, to easily and gently

- fill up
- pasteurize
- store
- defrost

the colostrum for the new born calf.

- For Feeding the colostrum to the calf a teat or tube can fast and easy be connected to the ColostroBAG.



ColostroFIT – scope of delivery

■ ColostroMAT

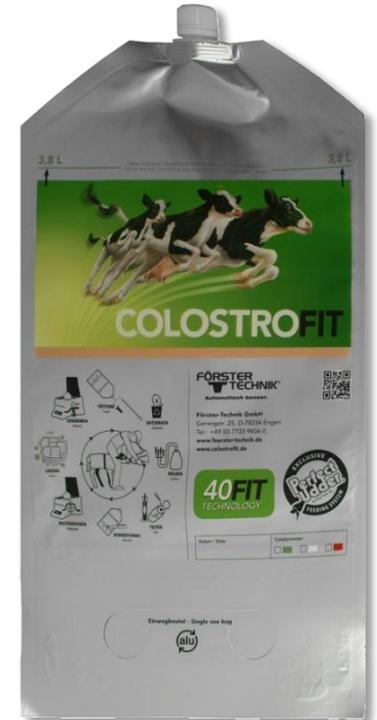
- ColostroKIT
- BagFiller
- Caddy
- Colostrometer



ColostroFIT – scope of delivery

■ ColostroKIT

- 50x ColostroBAGs
- 3x Tubes
- 3x Teats
- 1x TeatFix



ColostroFIT – scope of delivery

■ ColostroKIT small

- 10x ColostroBAGs
- 1x Tubes
- 1x Teats



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