# SPARE PARTS



Hose pump complete



# **REFERENCE MATERIALS**

The exact values depend on the batch. These are included in the delivery.





3670 NOVA SAFETY CENTRIFUGE

Bench centrifuge with angular rotor for butyrometric fat determination according to Dr. N. Gerber, as well as for the determination of the solubility of milk powder with special solubility index tubes (art. no.: 3637)

## **Properties:**

- Automatic interlocking lid
- Automatic brake (braking time < 8s)
- Centrifugation timer (digital)
- Heater: temperature adjustable in 1°C steps from room temperature up to 65 °C (can be switched off)
- Capacity: max. 8 butyrometers or max. 8 special solubility index tubes

## Technical specifications:

RCF: 350 g ± 50 g rpm: 1350 Effective radius: 160 mm Weight: 13 kg Dimensions (WxDxH): (470x380x230) mm



# SAFETY CENTRIFUGE FOR FAT CONTENT DETERMINATION ACCORDING TO ROESE-GOTTLIEB





## 3680 SUPERVARIO-N MULTI-PURPOSE CENTRIFUGE

Centrifuge for fat content determination according to Gerber, Roese-Gottlieb, Babcock and for the determination of the solubility of milk powder (ADPI).

### Properties:

- Stainless steel housing
- Programmable rotor speed from 600 rpm to 1130 rpm in increments of 10 rpm (corresponding to a g value of 77 to 372 g, depending on the rotor)
- Programmable heater up to 68 °C in 1 °C increments
- Programmable centrifugation time from 1 to 99 minutes
- Automatic interlocking safety lid
- Automatic shut-down in case of unbalance
- Automatic brake

### Technical specifications:

Connection values: 230 V/50...60 Hz/1200 VA Weight when empty: 26 kg Total height with lid: 460 mm External diameter: 670 mm Filling height: 370 mm Speed range: 600 to 1130 rpm Temperature range: room temperature up to 68 °C

## ACCESSORIES

- For the determination of fat content according to Gerber
  - **3685 Head A:** for a maximum of 36 butyrometer buckets, effective radius of the attachment: 260 mm
- 3631 B

Butyrometer bucket

- For the determination of fat content according to Babcock
  - **3685 Head A:** for a maximum of 18 Babcock buckets, effective radius of the attachment: 260 mm
  - 3632 Babcock bucket
- 3254, 3256, 3258 Babcock bottle without stopper
- For the determination of fat content according to Roese-Gottlieb

3686

**Head B:** for a maximum of 8 Mojonnier tubes, effective radius of the attachment: 190 mm (operation only possible in accordance with the respective safety regulations)



Extraction tube according to Mojonnier

### • For solubility determination



**Head C:** for a maximum of 6 buckets for solubility index tubes, effective radius of the attachment: 190 mm

Bucket for solubility index tubes

3634 9

Solubility index tube (ADPI tube)



## 3707 UNIVERSAL WATER BATH WB436-D (DIGITAL)

Digital temperature display (actual value), digital setpoint temperature adjustment. PT 100 sensor (platinum sensor). Stopwatch (1-100 min. with acoustic signal). Stainless steel inner and outer casing. Protection against overheating (even when tank is empty), use with distilled water if possible.

## Technical specifications:

Temperature range: up to 100 °C Volume: 18 l Connected loads: 230V/50Hz...60Hz/1000 W Interior dimensions (WxDxH): (300x320x194) mm External dimensions (WxDxH): (331x396x265) mm Weight: 10 kg

3708

## UNIVERSAL WATER BATH WB436-A (ANALOGUE)

As art. no. 3707 but with analogue temperature control (adjusting knob), temperature display with thermometer (included in the scope of delivery), thermostatic heat controller.

# ACCESSORIES FOR WATER BATHS WB436



**Butyrometer stand:** stainless steel, for 36 butyrometers Dimensions (WxDxH): (383x325x200) mm, diameter of the hole: 27.2 mm



**Butyrometer tube (closed):** made of brass, for butyrometer stand (art. no. 3717), external diameter, bottom: 27 mm, external diameter, top: 33 mm, internal diameter: 25.8 mm, length: 170 mm



**Butyrometer tube (open):** made of brass, for butyrometer stand (art. no. 3717) external diameter, bottom: 27 mm, external diameter, top: 33 mm, inner diameter: 25.8 mm, length: 170 mm



# LABORATORY GLASSWARE



### **Butyrometers**

All butyrometers come in standard packs of 10. Please place your order in units of 10.

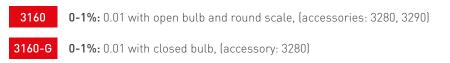


**Precision butyrometer 0-4%: 0.05:** for drinking milk and vat milk, frosted rear scale wall, fault tolerance: 0.025%, (accessory: 3280)

### Milk butyrometer



### Skimmed milk butyrometer (according to Sichler's method)



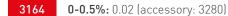
### Skimmed milk butyrometer (according to Kehe's method)



**0-4%:** 0.05 (accessory: 3280)

**3162 0-5%:** 0.05 (accessory: 3280)

Skimmed milk butyrometer (according to Siegfeld's method)



Powdered milk butyrometer (according to Teichert's method)



0-35%: 0.5 (accessory: 3310)

0-70%: 1.0 (accessory: 3310)

Ice cream and condensed milk butyrometer (according to Roeder's weighing method)

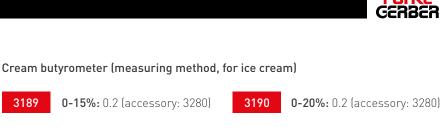


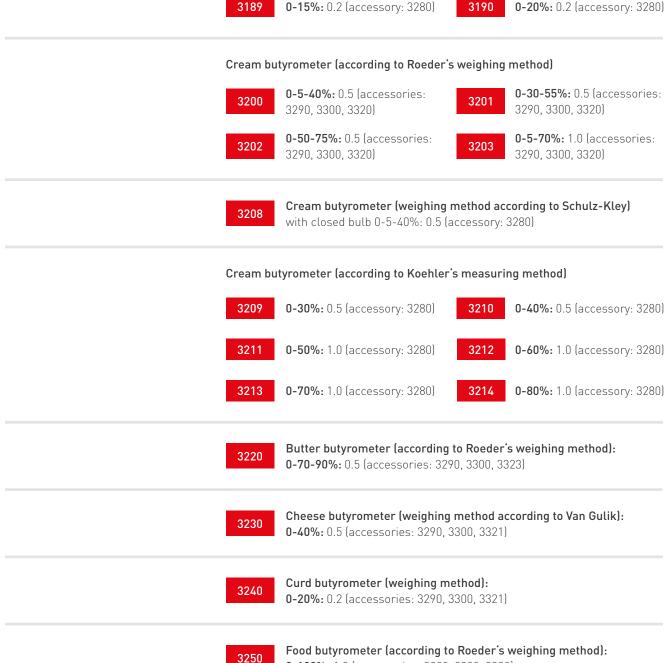
**0-6-12%:** 0.1 (accessories: 3290, 3300, 3320)



3171

**0-15%:** 0.2 (accessories: 3290, 3300, 3320)









# **BUTYROMETER ACCESSORIES**



For all measuring method butyrometers, FIBU without adjustment key.

<b>FUNKE</b> GERBER	
	3270 ADJUSTMENT KEY For FIBU patent closure.
	<b>Rubber stopper, conical:</b> for all measuring method butyrometers, diameter 11 mm/16mm, L: 43 mm
	<b>Rubber stopper:</b> for all weighing method butyrometers for sealing the bulb, diameter 9 mm/13 mm, L: 20 mm
	<b>Rubber stopper with hole:</b> for all weighing method butyrometers, diameter 17 mm/22 mm, L: 30 mm
	<b>Rubber stopper without hole:</b> for powdered milk butyrometers, also suitable for extraction tube according to Mojonnier (art. no. 3870 3871), diameter 17 mm/22 mm, L: 30 mm
	3320 <b>Cream beaker without holes:</b> for ice cream and condensed milk butyrometers and cream butyrometers according to Roeder, external Ø: 15 mm, L: 77 mm
	<b>3321</b> Cheese beaker with holes: for butyrometers according to Van Gulik's method: external Ø: 15 mm, L: 77 mm
	<b>3323</b> Butter beaker with 2 holes: external Ø: 15 mm, L: 77 mm
	Butyrometer stand (also suitable for special solubility index tubes, art. no. 3637)
	<b>3330</b> for 36 samples (PP plastic), dimensions (WxDxH): (610x80x160) mm
	<b>3331</b> for 12 samples (PP plastic), dimensions (WxDxH): (225x80x160) mm
	Protective shaking hood
	<b>for 36 samples</b> (PP plastic), suitable for art. no. 3330, dimensions

(WxDxH): (660x95x165) mm

for 12 samples (PP plastic), suitable for art. no. 3331, dimensions (WxDxH): (230x85x90) mm

### Volumetric pipettes (with one ring mark)



### Automatic tilt measure Superior

3420 With rubber stopper and 500 ml storage bottle, 10 ml sulphuric acid 3421 With rubber stopper and 250 ml storage bottle, 1 ml amyl alcohol

### Digital proportioning devices

For aggressive acids and alkalis, without bottles.

9484 1-10 ml: 0.05 ml, with thread adapter: A25, A28, A32, A38, A40 9485 2.5-25 ml: 0.1 ml, with thread adapter: A32, A38, A40

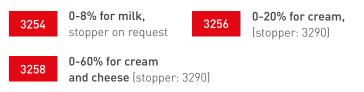
### Variable proportioning devices

For aggressive acids and alkalis, without bottles.

1-10 ml: 0.2 ml, with thread adapter: A25, A28, A32, A38, A40 9487 9488



### Babcock bottle (without stopper)



## Extraction tube (according to Mojonnier)

3870	V
	V

3871

With rounded bulb, accessories: cork stopper (art. no. 3872), or rubber stopper (art. no. 3310)

With flattened bulb, accessories: cork stopper (art. no. 3872), or rubber stopper (art. no. 3310)

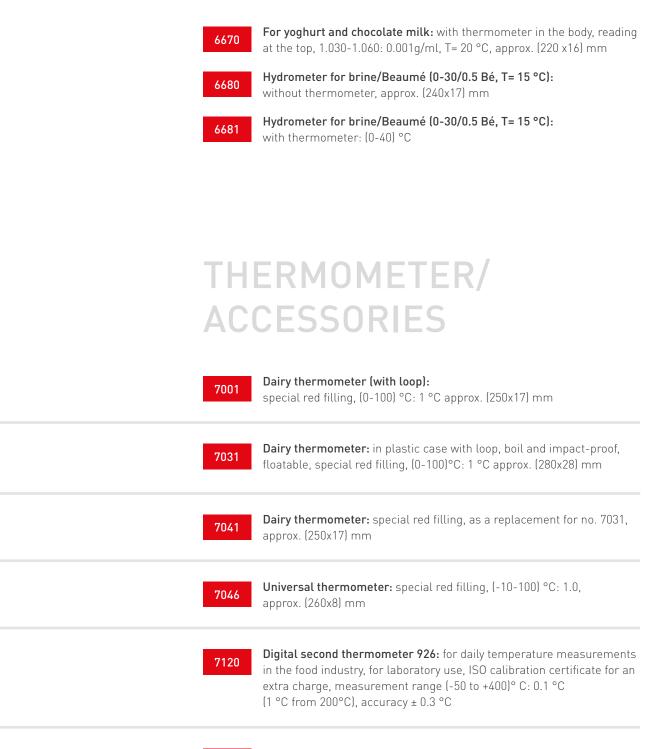
3875	Wooden stand: for 12 extraction tubes according to Mojonnier
3634	<b>ADPI solubility index tube:</b> 50 ml, graduated from 0-20 ml and mark at 50 ml (see SuperVario-N (3680)), external Ø: 30 mm, L: 138 mm
3637	<b>Special solubility index tubes:</b> for determining the solubility of milk powder, fitting into the butyrometer tubes (art. no. 3641) for use in the "Nova Safety" bench centrifuge (art. no. 3670)
	Suitable rubber stoppers, see art. no. 3050 Matching stand, see art. no. 3331 external Ø: 24 mm, H: 180 mm
Lactodensimeter	
6600	For milk according to GERBER's method, large model: negative scale, with thermometer in stem $1.020-1.0(0) \cdot 0.0005 \text{ a/m}$ , T = $20 \circ$ C

6600	For milk according to GERBER's method, large model: negative scale, with thermometer in stem, 1.020-1.040: 0.0005 g/ml, T= 20 °C, 10-40 °C, approx. (300 x 28) mm, normal design/standard model
6610	For milk according to GERBER's method, small model: with thermo- meter in the body, 1.020-1.035: 0.0005 g/ml, T= 20 °C, 0-40 °C, approx. (210 x 17) mm, normal design / standard model
6630	<b>For milk according to Quevenne's method, coloured triple scale:</b> 1.015-1.040: 0.001g/ml, T= 20 °C with thermometer 0-40 °C, approx. (290 x 22) mm
6630-15	<b>For milk according to Quevenne's method, coloured triple scale:</b> 1.015-1.040: 0.001g/ml, T= 15 °C with thermometer 0-40 °C, approx. (290 x 22) mm
6631	<b>For milk according to Quevenne's method, coloured triple scale:</b> 1.015-1.040: 0.001g/ml, T= 20 °C without thermometer, approx. (210 x 22) mm
6631-15	<b>For milk according to Quevenne's method, coloured triple scale:</b> 1.015-1.040: 0.001g/ml, T= 15 °C without thermometer, approx. (210 x 22) mm

# Hydrometer

6620	<b>For milk:</b> according to former DIN 10290, without thermometer, 1.020-1.045: 0.0005 g/ml, T= 20 °C, approx. (350 x 25) mm, standard version
6640	<b>for butter milk serum:</b> DIN 10293, without thermometer, 1.014-1.030: 0.0002 g/ml, T= 20 °C, standard model, approx. (240 x 21) mm
6660	<b>For condensed milk</b> (reading at the top): 1.000-1.240: 0.002 g/ml, T= 20 °C, approx. (310x19) mm
6661	<b>For condensed milk</b> (reading at the top): 1.040-1.080: 0.001 g/ml, T= 20 °C, approx. (230x21) mm







Insertion/precision sensor: for 7120, diameter 4 mm, L: 110 mm