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Nitrogen determination acc. to Kjeldahl, Behr

Behrotest® InKjel infrared quick digestion units

InKjel quick digestion systems with direct heating of the samples by means of infrared radiators (1500 W).

Configurations:

- 6 digestion vessels at 250 ml each
- 12 digestion vessels at 100 ml each
- 12 digestion vessels at 250 ml each
- 4 digestion vessels at 500 ml each
- 4 digestion vessels at 750 ml each

With digestion vessels of 500 ml or 750 ml, the behrotest® InKjel M meets requirements of water and sewage water analytics. The basic unit of the INKjel can take in different application racks and suction systems. Thus, the user himself can convert the device to different vessel sizes by simply exchanging the application rack and the suction system.



Article	Order No.
InKjel 635 M manually controllable infrared digestion system for 6 glasses at 250 ml each	10 48 49998
InKjel 1210 M manually controllable infrared digestion system for 12 glasses at 100 ml each	10 48 49500
InKjel 1225 M manually controllable infrared digestion system for 12 glasses at 250 ml each	10 48 49999
InKjel 450 M manually controllable infrared digestion system for 4 glasses at 500 ml each	10 48 49450
(1) InKjel 475 M manually controllable infrared digestion system for 6 glasses at 250 ml each	10 48 49475
InKjel 625 P programmable infrared digestion system for 6 glasses at 250 ml each	10 48 50001
InKjel 1210 P programmable infrared digestion system for 12 glasses at 100 ml each	10 48 49501
InKjel 1225 P programmable infrared digestion system for 12 glasses at 250 ml each	10 48 50002
InKjel 450 P programmable infrared digestion system for 4 glasses at 500 ml each	10 48 50003
InKjel 475 P programmable infrared digestion system for 4 glasses at 750 ml each	10 48 50004



Standard Kjeldahl block digestion systems behr K 8, K 12 and K 20

Block digestion systems with high-quality corrosion-resistant block housing made of stainless steel. With 8, 12 or 20 sample spaces for standard Kjeldahl digestion vessels with a volume of 250 ml. High-capacity heating and suction hood with exhaust collector

- behr one-button operation for especially simple and quick programming
- Menu structure in national language
- 10 freely assignable programmes for block temperature and digestion time
- Applications can be saved

Complete systems with digestion vessels, rack and suction hood.

Article	Order No.
K 8 Standard Kjeldahl block digestion system 8 sample spaces, for digestion vessels with a volume of 250 ml	10 48 49100
K 12 Standard Kjeldahl block digestion system 12 sample spaces, for digestion vessels with a volume of 250 ml	10 48 49101
(2) K 20 Standard Kjeldahl block digestion system 20 sample spaces, for digestion vessels with a volume of 250 ml	10 48 49102



Micro Kjeldahl block digestion systems behr K 16, K 24 and K 40

Block digestion systems with high-quality block housing made of stainless steel. With 16, 24 or 40 sample spaces for Mikro Kjeldahl digestion vessels with a volume of 100 ml. High-performance heating and suction hood with exhaust collector.

- behr one-button operation for especially simple and quick programming
- Menu structure in national language
- 10 freely assignable programmes for block temperature and digestion time
- Applications can be saved
- The supplied Windows software permits the user to transfer time/temperatures profiles, which are specifically for the application, via the RS232 interface in both directions between one or more units and a PC
- A library with common applications is already included on the CD



Complete systems with digestions vessels, rack and suction hood.

Article	Order No.
K 16 Micro Kjeldahl block digestion system	10 48 49150
16 sample spaces, for digestion vessels with a volume of 100 ml	
K 24 Micro Kjeldahl block digestion system	10 48 49151
24 sample spaces, for digestion vessels with a volume of 100 ml	
K 40 Micro Kjeldahl block digestion system	10 48 49152
40 sample spaces, for digestion vessels with a volume of 100 ml	

Macro Kjeldahl block digestion system behr K 8 B

Block digestion system with high-quality block housing made of stainless steel. With 8 sample spaces for Macro Kjeldahl digestion vessels with a volume of 500 ml. High-performance heating and suction hood with exhaust collector.

- behr one-button operation for especially simple and quick programming
- Menu structure in national language
- 10 freely assignable programmes for block temperature and digestion time
- Applications can be saved
- The supplied Windows software permits the user to transfer time/temperatures profiles, which are specifically for the application, via the RS232 interface in both directions between one or more units and a PC
- A library with common applications is already included on the CD

Complete systems with digestions vessels, rack and suction hood.

Article	Order No.
K 8 B Macro Kjeldahl block digestion system	10 48 49110
8 sample spaces, for digestion vessels with a volume of 500 ml	

Accessories for the Kjeldahl digestion

Article	Order No.
(3) KT 1 catalyser tablets	10 48 40100
(5.0 g K ₂ SO ₄ ; 0.5 g CuSO ₄), container with 1000 pieces	
KT 2 catalyser tablets	10 48 40101
(5.0 g K ₂ SO ₄ ; 0.15 g CuSO ₄ ; 0.15 g TiO ₂), container with 1000 pieces	
KT 3 catalyser tablets	10 48 40103
(3.5 g K ₂ SO ₄ ; 0.4 g CuSO ₄), container with 1000 pieces	
KT 4 catalyser tablets	10 48 49920
(3.5 g K ₂ SO ₄ ; 3.5 g Se), container with 1000 pieces	
AFS anti-foam tablets	10 48 40102
Boiling stones, content 100 g	80 48 30700
To prevent boiling retardation.	
Weighing paper, 100 sheets/Pad	10 48 41136

behr distilling unit

The behr steam distilling devices offer an automatic steam generator, pressure monitoring, automatic monitoring of filling level of storage tank, visibly mounted glass parts for distilling behind safe door made of acrylic glass with safety switch (no distilling possible when door is open), automatic time-controlled programme run, error diagnostics with optical and acoustic display, "standby" function for lower consumption of power and cooling water, RS323-interface for data recording and control, user-friendly construction, behr one-button operation, user surface in many languages.

behr steam distilling device S 1

Automatic adding of NaOH. The steam capacity is variable between 40% and 100%.

behr steam distilling device S 2

Convenient distilling device. Programme control for adding of H₂O and NaOH. The steam capacity is variable between 40% and 100%. Information on programme run and error messages by means of LED-display.

behr steam distilling device S 3

Convenient distilling device for medium sample volume. Programme control for adding H₂O and NaOH as well as extracting distilled sample residue. The steam capacity is variable between 40% and 100%. Information on programme run and error messages by means of LED-display.

behr steam distilling device S 4

99 programs. Automatic adding of NaOH, H₂O and H₃BO₃. Automatic extraction of distilled sample residue. The steam capacity is variable between 40% and 100%.

behr steam distilling device S 5

Steam distilling device for applications involving a high sample workload, with option to connect an external titration unit. The steam capacity is variable between 40% and 100%

Article	Order No.
S 1 distilling system, semi-automated	10 48 49001
S 2 distilling system, semi-automated	10 48 49002
(4) S 3 distilling system, semi-automated	10 48 49003
S 4 distilling system, fully automatic	10 48 49004
S 5 distilling system, fully automatic	10 48 49005
prepared for external titrator (such as TB 1)	
KAS 20 canister set for S 1 and S 2	10 48 49020
consists of 2 canisters at 20 l each, incl. float switch	
KAS 30 canister set for S 3	10 48 49030
consists of 3 canisters at 20 l each, incl. float switch	
KAS 40 canister for S 4 and S 5	10 48 49040
consists of 4 canisters at 20 l each, incl. float switch	



Titration modul TB 1

for connection to distilling unit S 5

[10 48 49006](#)

Process suction system behrosog 3

Features:

- Infinitely adjustable extraction performance
- Transparent safety screen for more user safety
- External, easy to access operating elements prevent the user from touching the hot glass elements
- Acid-proof diaphragm pump

Article	Order No.
(5) behrosog 3 process suction system Scrubber with suction pump (40 l/h), condensation level and neutralisation level	10 48 40008
(6) ACS additional cooling system for behrosog 3	10 48 40009
TS mixed indicator according to Tashiro, 1 l	10 48 49148

Manual Titration Station STI

The manual titration station STI consists of:

- a burette with digital display, and
- a magnetic stirrer with accurately fitting holder for one Erlenmeyer flask.

A screen is used as a neutral background, allowing the user an accurate identification of the color change at the end of titration. Thus, the user carries out all titrations under similar optical conditions, increasing the accuracy and reproducibility of the results.

The exact positioning of the sample vessel in the rack on the top of the magnetic stirrer also contributes to this result. The inclined side panels of the screen provide an additional protection from lateral glare.

Article	Order No.
(7) Manual titration station STI for nitrogen determination with Kjeldahl method	10 48 42020

Delivery does not include the illustrated accessories