

Kjeldahl Distillation

behr Steam Distillation Units S 1 to S 5



S 1



S 2/S 3



S 4



S 5

Features according to your needs

behr distillation units of the S series are the ideal supplement to the Inkjel and K digestion units. Depending on requirements the user can choose between five automatic steam distillation apparatuses. These are identical in the basic construction but differ in operating comfort and degree of automation. The top model behr S 5 is prepared for work with an external titrator.

The supplied Windows software permits the user to transfer distillation parameters, 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. Data can also be transmitted from the unit to the PC via the RS232 interface while operating. The user can save them if necessary and print them out as graphics.

All behr steam distillation units have the following common features:

- efficiency and quickness
- practical suitability and user comfort
- exemplary safety and reliability
- robust casing of polyurethane
- practical quick clamping device which the user can operate even „with his eyes shut“
- extremely simple, menu-controlled operation of the programmable units via one single operating element (behr one-button operation)
- Menu designed in language of the country
- separate rinsing programme
- Steam generating capacity adjustable from 40 % - 100 %

Equipment of the models

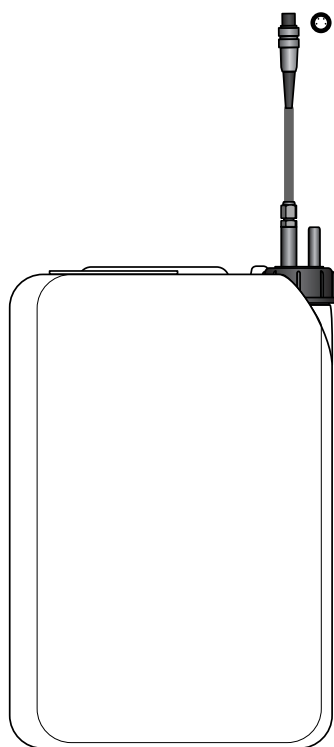
	S 1	S 2	S 3	S 4	S 5
Manual addition of H ₂ O	–	+	+	+	+
Manual addition of NaOH	+	+	+	+	+
Manual addition of H ₃ BO ₃	–	–	–	+	+
Automatic addition of H ₂ O	–	+	+	+	+
Automatic addition of NaOH	+	+	+	+	+
Automatic addition of H ₃ BO ₃	–	–	–	+	+
Programmable reaction time	+	+	+	+	+
Programmable distillation time	+	+	+	+	+
Steam generation automatic	+	+	+	+	+
Steam generating capacity adjustable (40% to 100%)	+	+	+	+	+
Automatic suction extraction of sample residues	–	–	+	+	+
Number of programmes	1	1	10	99	99
Separate rinsing programme	+	+	+	+	+
Language of display selectable	+	+	+	+	+
Optical fault alarms	+	+	+	+	+
Acoustic fault alarms	+	+	+	+	+
Door contact safety switch	+	+	+	+	+
Serial interface (RS232)	+	+	+	+	+
Stand-by operation between distillations	+	+	+	+	+
Filling level monitoring for can set	+	+	+	+	+
Various behrotest® glass digestion vessels usable	+	+	+	+	+
Connection possibility for titration	–	–	–	–	+

Steam distillation units

Type	Article description	230 V ~ Art.-No.	115 V ~ Art.-No.
S 1	Steam distillation unit, partly automated	80 48 49001	80 48 490015
S 2	Steam distillation unit, partly automated	80 48 49002	80 48 490025
S 3	Steam distillation unit, partly automated	80 48 49003	80 48 490035
S 4	Steam distillation unit, fully automatic	80 48 49004	80 48 490045
S 5	Steam distillation unit, fully automatic, prepared for external titrator (e.g. TB 1)	80 48 49005	80 48 490055
TB 1	Titration module for connection to steam distillation unit S 5	80 48 49006	80 48 490065
Titrimo 702	Metrohm titrator	80 48 49007	80 48 490075

Technical data for steam distillation units

	S 1	S 2	S 3	S 4	S 5
Voltage	115 V~ 230 V~				
Frequency	50/60 Hz				
Power consumption	1700 W				
Current consumption	9 A/18 A				
Cooling water consumption	approx. 5 l/min				
Distillation time	approx. 3 min. per sample				
Storage vessel	Any size. Recommendation: behrotest® can set KAS				
Interface	RS232				
Display	LCD				
Programs	1	1	10	100	100
Dimensions (W x H x D in cm)	approx. 41 x 67,5 x 41				
Weight	approx. 32 kg	approx. 34 kg	approx. 35 kg	approx. 35 kg	approx. 36 kg
Connection for titrator	No	No	No	No	Yes



Can with level sensor for NaOH

Can sets

behr can sets are based on hazardous materials cans with UN approval

The level sensors form one unit with the screw caps. Therefore, if required, the user can also connect containers from the chemical industry without carrying out dangerous refilling operations.

Can sets

Model	Article description	Art.-No.
KAS 20	Can set for S 1 and S 2, consisting of 2 cans of 20 l incl. float type switch	80 48 49020
KAS 30	Can set for S 3 consisting of 3 cans of 20 l incl. float type switch	80 48 49030
KAS 40	Can set for S 4 and S 5, consisting of 4 cans of 20 l incl. float type switch	80 48 49040