

COD Workstations, Behr

Model PA-CSB COD sample digester systems

Equipment configuration for simultaneous EPA, ISO or DIN method digestion of up to 6 or 12 COD samples. Systems consist of the following components:

- Microprocessor-controlled TRS 300 time/temperature regulator with COD program
- Precision heating block CSB/E for RG2 vessels
- Holding frame E/B for RG2 sample vessels
- Cooling bath KW/N with mounting for E/B frame
- Sample vessels RG 2
- Air-cooled condensers LK 1
- Condenser stand LS for LK condensers

Article	Order No.
PA-CSB 6	80 48 80000
COD digester system for up to 6 simultaneous samples	
① PA-CSB 12	80 48 80001
COD digester system for up to 12 simultaneous samples	

Model PB-CSB/M for complete COD analysis

Complete workstations for simultaneous EPA, ISO or DIN method determination of up to 6 or 12 COD samples. Manual reagent addition and titration. A workstation consists of the following:

- Microprocessor-controlled TRS 300 time/temperature regulator with COD program
- Precision heating block CSB/E for RG 2 vessels
- Holding frame E/B for RG 2 sample vessels
- Cooling bath KW/N with mounting for E/B frame
- Multi-position magnetic stirrer SM 12/N to fit vessel frame E 12/B (only with PB-CSB 12/M)
- Sample vessels RG 2
- Set of 12 magnetic stirrer bars MRST 2
- Boiling chips SIST 100, 100 g
- COD air-cooled condenser LK 1
- Condenser stand LS for LK condensers
- Set of 12 PTFE std. taper joint sleeves PTFE 29
- Transport carrier TS CSB for vessel frame E/B
- Manual titration station HT 1

Article	Order No.
PB-CSB 6/M	80 48 80002
Complete COD workstation for up to 6 simultaneous samples	
② PB-CSB 12/M	80 48 80003
Complete COD workstation for up to 12 simultaneous samples	

Fully automatic reagent metering/titration unit DT 10

Fully automatic reagent metering and titration for the DIN 38409 H 41 COD method. Reagent addition and titration of up to 12 simultaneous samples. Automatic draining of titrated waste solution. Simple user-friendly operation under MS Windows interface. Sample date can be stored and processed in MS Access.

Reagent delivery: Delivery of COD reagents in optimal timed intervals (IAW DIN) prevents sample overheating. Up to 30 separate syringe drive reagent modules can be controlled by the DT 10.

Titration: Freely definable „methods“ such as end-point, equivalence, linear, dynamic and quasi-dynamic titrations may be programmed. Several password-protected user levels. Graphical output with first and second derivatives. Sample data to be printed is freely selectable. All national COD analysis procedures may be implemented as „methods“.

Within the 330 × 220 mm working area, the DT 10 can be modified to access arrays consisting of various numbers and sizes of vessel. Useable for all reagent metering and titration applications.

Article	Order No.
③ Fully automatic metering/titration unit DT 10	80 48 24400



Accessories for behrotest® COD workstations

Article	Order No.
behrotest® multiple magnetic stirrer SM 12/N	80 48 30048
Infinitely variable multiple magnetic stirrer for up to 12 reaction vessels simultaneously. For stirring in sulfuric acid (use under water) and for expelling chloride in accordance with DIN 38409. The heat produced by adding acid is evenly distributed and stratification prevented (less risk of defervescence).	

Article	Order No.
behrotest® COD magnetic stirrer	80 48 30050
Magnetic stirrer for retitration, suitable for titrating systems and for preventing stratification prior to the heating phase (lower risk of defervescence).	

Article	Order No.
④ behrotest® metering funnel	80 48 30200
For controlled feeding of potassium chromate and sulfuric acid.	

Article	Order No.
behrotest® boiling chips, pack = 100 g	80 48 30700
To prevent boiling retardation. Supplied without the illustrated accessories	

behrotest® reaction vessels

Article	Order No.
Type RG 1	80 48 30011
175 ml capacity, standard ground joint NS 29, 40,8 mm dia., 100 ml marking, without vessel adapter	

Article	Order No.
Ttype RG 2	80 48 30012
with vessel adapter for inserting and removing up to 12 reaction vessels at a time from the heating block	

Article	Order No.
behrotest® COD reaction vessel KM 1	80 48 30014
COD reaction vessel with vessel adapter, 250 ml capacity, for COD determination according to DIN/DEV 38409 H 43 and for mercury determination according to DIN/DEV 38406-E 12-3	

Article	Order No.
Air cooler LK 1, NS 29, to DIN	80 48 30031

Article	Order No.
⑤ HCl absorber	80 48 30071
As defined in DIN 38409 H41-2, for stripping chloride at an expected C content of 1000 mg/l. Can be mounted on all behrotest reaction vessels. Accelerated stripping using the series magnetic stirrer or the BR 2 rotation device.	

