



## SPECIAL DIGESTION

### Decomposition and digestion equipment for cyanide determination

Digestion apparatus specifically developed for the decomposition and purging of water and soil samples for the determination of easily released cyanides and total cyanide, as well as other volatile gases.

The basic construction comes from the TURBOTHERM rapid digestion unit. Quick, even heating thanks to infrared technology. With a flow meter and magnetic agitator at each heating point.

In accordance with DIN 38405 und DIN ISO 11262.

#### VERSATILE APPLICATIONS

- + Analysis of soil, sewage sludge and compost, waste water, groundwater and surface water
- + Separation of cyanides acc. to DIN
- + Determination of easily released cyanides
- + Sulphur dioxide determination in food acc. to Reith Willems method
- + Available with 4 x 800 ml, use of 400 ml tubes with adapter possible

#### MODERN CONTROL

- + Microprocessor controlled
- + Up to 99 programmes can be stored
- + Infinitely variable heating power and time periods
- + Ergonomically designed operating unit with variable inclination
- + Continuous display of running digestion status
- + Correction of running programme at any time
- + ISO 17025 conform data management regarding:
  - traceability
  - different user levels with defined rights and password protection
  - Recording and recalling of all relevant process data

#### HIGH QUALITY COMPONENTS

- + Use of inert materials
- + Glass parts made of high quality Duran® material
- + Housing with special corrosion protection

#### FAST, SAFE AND CONVENIENT

- + Infrared radiation ensures short heating and cooling times. The sample is heated directly – thus preventing delays in boiling.
- + Once the boiling process has been completed, the reflux condenser, drip tray and rack are simply mounted in the multi-level console. This saves bench space.
- + Simultaneous digestion of up to 4 samples
- + Gas flow meter and magnetic stirrers for each position
- + Steckmatic connections for easy removal of the carrier gas tubings
- + Connection to in-house compressed air supply is possible for economic and safe gas flow
- + Special electrical protection
- + Drip tray for acid can be removed
- + Improved housing for optimal heat distribution

# CYANIDE DETERMINATION

## SCOPE OF DELIVERY

Infrared rapid digestion unit with CYANIDE ATTACHMENT and MAGNETIC STIRRER, complete with 4 sample tubes of 800 ml ready to use. The use of 400 ml tubes with adapter is possible

## TURBOTHERM basic unit

Rapid digestion unit with IR-heating elements for a fast and homogeneous heating of the sample tubes. Using a modern control up to 99 energy-time programs for various heating methods can be stored. A change of the program parameters is possible at any time during the digestion.

## CYANIDE ATTACHMENT

The operation and control of the gas flows is made easy using the flow meters at the side. The special plug connections (Steckmatic) ensure safe working and allow easy dismantling of the gas inlet tubing. The insert rack with the 4 tubes can be taken out completely. The reflux condensers can be moved into the drip tray over a short distance. All tubings are easily accessible.

## ACCESSORIES

4 Digestion tubes á 800 ml  
4 Dropping funnels  
4 Reflux condensers NS45  
4 Absorption traps  
Insert rack  
Seals and tubing

Technical data: 230 V or 115V, 2000 W / 1800 W, 50/60 Hz.  
Manufactured and checked according to CE regulation.

## YOUR ADDED BONUS:

Combined with the appropriate accessories, the cyanide digestion apparatus can also be used for other types of digestion, e.g. for nitrogen determination according to Kjeldahl.

## MODELS

Order-No.	Type	Heating places	Size of tube	Max. Temp.	Dimen. W / D / H	Voltage	Weight
12-0614	TTs4 CAR	4	800 ml	app. 650 °C	636 / 510 / 945 mm	230 V, 50-60 Hz	approx. 37 kg
12-0615	TTs4 CAR	4	800 ml	app. 650 °C	636 / 510 / 945 mm	115 V, 50-60 Hz	approx. 37 kg

For detailed technical data and order information for the individual device types and for the accessories and consumables, please request our product data sheet for CYANIDE.



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Update 01/2020- Subject to technical changes



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